

# **LIST OF PUBLICATIONS**

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- SEP 8001** "Phase Equilibriums and Separation Processes"  
Aage Fredenslund, Jørgen Møllerup and Peter Rasmussen  
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- SEP 8002** "On the Combinatorial Part of the UNIFAC and UNIQUAC Models"  
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- SEP 8004** "Thermodynamic Properties from Corresponding States Theory"  
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- SEP 8005** "On the Temperature Dependence of the UNIQUAC/UNIFAC Models"  
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- SEP 8009** "Group Contribution Methods for Phase Equilibria"  
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**(Editor(s): Mah, Richard S. H.; Seider, Warren D. Found. Comput.-Aided Chem. Process Des., Proc. Int. Conf. (1981), Meeting Date 1980, 2 1-29)**

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- SEP 8020** "On the Compressibility Factor for SF<sub>6</sub>"  
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**(International Cong. Scand. Chem. Eng., [Proc.], 5<sup>th</sup> (1980) 177-190)**
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**(Internal Report)**
- SEP 8615** "Thermodynamic Properties and Flash Calculations Using UNIFAC/UNIQUAC Models"  
Horacio Galindez  
**(Internal Report)**
- SEP 8616** "Multiphase Isenthalpic and Isentropic Flash Algorithms"  
Michael L. Michelsen  
**(Fluid Phase Equilibria, 33 (1987) 13-27)**
- SEP 8617** "Adjustment of C<sub>7+</sub> - Molecular Weights in the Characterization of Petroleum Mixtures Containing Heavy Hydrocarbons"  
Per Thomassen, Karen Schou Pedersen and Aage Fredenslund  
**(Internal Report)**
- SEP 8618** "A Simplified Flash Procedure for Multicomponent Mixtures Containing Hydrocarbons and One Non-Hydrocarbon Using Two-Parameter Cubic Equations of State"  
Bjarne H. Jensen and Aage Fredenslund  
**(I&EC Research, 26 (1987) 2129)**
- SEP 8619** "Process Simulation with Advanced Thermodynamic Models"  
Poul Munk Andersen and Aage Fredenslund  
**(Internal Report)**
- SEP 8620** "Computations of the Formation of Gas Hydrates"  
Jan Munck, Steen Skjold-Jørgensen and Peter Rasmussen  
**(Chemical Engineering Science, 43(10) (1988) 2661-2672)**
- SEP 8621** "Cubic Equations of State for Oil/CO<sub>2</sub> Contacting Processes"  
Bjarne Henning Jensen and Aage Fredenslund  
**(Internal Report)**



- SEP 8622** "Updating of A Liquid-Liquid Equilibrium Data Bank: Data Collection and Correlation"  
Eugénia R. Macedo, Augusto G. Medina, Peter Rasmussen and Aage Fredenslund  
**(Internal Report)**
- SEP 8623** "IVC-SEP Program Package"  
Glen Hytoft and Rafiqul Gani  
**(Internal Report)**
- SEP 8624** "The Oil & Gas PVT-Laboratory. A Five Year Research Plan 1986 – 1990"  
Jørgen Møllerup  
**(Internal Report)**
- SEP 8625** "Enhanced Oil Recovery. A 5-year Research Plan, 1.2.1985 – 31.1.1990"  
Aa. Fredenslund, O. Hassager, K.S. Birdi and J. Reffstrup  
**(Internal Report)**
- SEP 8626** "Prediction of Transport and Surface Properties"  
Aage Fredenslund and Karen Schou Pedersen  
**(Internal Report)**
- SEP 8627** "Simulering af Off-Shore Olie/Gas Separationsanlæg"  
Flemming Jensen and Aage Fredenslund  
**(Dansk Kemi 11 (1986) 325-333)**

- SEP 8701** "Model Unification: A Means of Communication Between a Class of Activity Coefficient Models"  
Rafiqul Gani, Marcelo Castier and Aage Fredenslund  
**(Internal Report)**
- SEP 8702** "Some Impressions from the Elsinore Conference 1986"  
Peter Rasmussen  
**(Internal Report)**
- SEP 8703** "A Modified Huron-Vidal Equation of State"  
Michael L. Michelsen  
**(Fluid Phase Equilibria, 58 (1990) 213-219)**
- SEP 8704** "Simulation of Chemical Processes Using Group-Contribution Thermodynamic Models"  
Marcelo Castier and Aage Fredenslund  
**(Internal Report)**
- SEP 8705** "Experimental Determination of Dew and Bubble Points of Reservoir Fluids Using a Microwave Technique in a 10 cm<sup>3</sup> Variable Volume Cell"  
F. Fogh and P. Rasmussen  
**(Internal Report)**
- SEP 8706** "Process Design Calculations Using a Modified UNIFAC Model"  
Marcelo Castier, Horacio R. Galindez and Aage Fredenslund  
**(Internal Report)**
- SEP 8707** "Vapour-Liquid Equilibria in Complex Mixtures"  
R.A. Heidemann and Aa. Fredenslund  
**(Chem. Eng. Res. Des., 67 (1989) 145-148)**
- SEP 8708** "Prediction of Oil Solubilities in Water with the UNIFAC (LLE) Model"  
Rafiqul Gani  
**(Internal Report)**
- SEP 8709** "A Dynamic Simulation Package for Chemical Processes"  
Rafiqul Gani  
**(Internal Report)**
- SEP 8710** "A New Method for Estimation of Cubic Equation of State Parameters for C<sub>7+</sub> Fractions Characterized by Molecular Weight and Specific Gravity"  
Bjarne Henning Jensen and Aage Fredenslund  
**(Presented at the 2nd International Enhanced Oil Recovery Conference, Anaheim Convention Center, Anaheim, USA, June 1. – 3., 1987)**

- SEP 8711**      “Calculation of Vapor-Liquid Equilibria in Hydrochloric Acid-Water Systems”  
J.E. Marcio, M. Cardoso, Aage Fredenslund and Peter Rasmussen  
**(Internal Report)**
- SEP 8712**      “Prediction of Surface Tensions of Nonelectrolyte Solutions”  
Jose Tojo Suarez, Carlos Torres-Marchal and Peter Rasmussen  
**(Chemical Engineering Science, 44(3) (1989) 782-786)**
- SEP 8713**      “Surface Tension of Petroleum Mixtures”  
Karen Schou Pedersen, Torgeir Lund and Aage Fredenslund  
**(The Journal of Canadian Petroleum Technology, 28(2) (1989) 118-123)**
- SEP 8714**      “Phase Equilibria in Aqueous Polymer Solutions”  
D. Rasmussen and P. Rasmussen  
**(Chem. Eng. Prog., 85(2) (1989) 50-56)**
- SEP 8715**      “Calculation of First Contact and Multiple Contact Minimum Miscibility Pressures”  
Flemming Jensen and Michael L. Michelsen  
**(In Situ, 14(1) (1990) 1-17)**
- SEP 8716**      “A Thermodynamic Model for Predicting Wax Formation in Crude Oils. Supplement”  
Jens H. Hansen, Aage Fredenslund, Karen Schou Pedersen and Hans Petter Rønningsen  
**(AIChE Journal 34(12) (1988) 1937-1942)**
- SEP 8717**      ”Prediction of Relative Permeability Curves by a Model Based on Percolation Invasion”  
Erling H. Stenby and Zhou Dengen  
**(Internal Report)**

- SEP 8801** "PVT-Calculations on Oils and Gas Condensates"  
Aage Fredenslund  
**(International Symposium on Thermodynamics in Chemical Engineering and Industry, Beijing, China, May 30 -June 2, 1988)**
- SEP 8802** "Calculation of Multiphase Equilibrium"  
Michael Michelsen  
**(Computers chem. Engng, 18(7) (1994) 545-550)**
- SEP 8803** -
- SEP 8804** "Characterization of Gas Condensate Mixtures"  
Karen Schou Pedersen, Per Thomassen and Aage Fredenslund  
**(AIChE Meeting, New Orleans, March 6-10, 1988; Advances in Thermodynamics, Volume 1 (1989) 137. Edited by Larry G. Chorn and G. Ali Mansori, New York)**
- SEP 8805** "Calculation of Simultaneous Chemical and Phase Equilibria in Nonideal Systems"  
Marcelo Castier, Peter Rasmussen and Aage Fredenslund  
**(Chemical Engineering Science, 44 (1989) 237-248)**
- SEP 8806** "Phase Equilibria in Aqueous Polymer solutions" Second Version  
Dorte Rasmussen and Peter Rasmussen  
**(Chem.Eng.Progress, 85 (1989) 50-56)**
- SEP 8807** "On the Possibility of Predicting Phase Equilibria from Molecular Structure"  
Aage Fredenslund and Peter Rasmussen  
**(Invited lectures, CHEMDATA 88, Göteborg, June 13-15, 1988 and 10th IUPAC Conference on Chemical Thermodynamics, Prague, Czechoslovakia, Sept. 1988, J. Chem.Ind. and Eng. (China) 4 (1989) 115-133).**
- SEP 8808** "Detection of High-Pressure Dew and Bubble Points Using a Microwave Technique".  
Folmer Fogh and Peter Rasmussen  
**(Ind.Eng.Chem.Research, 28 (1989) 371-375).**
- SEP 8809** "Vapor-Liquid Equilibrium Calculations in Systems with Phenol, Cresols and Propene Using Various Group-Contribution Methods".  
Jürgen Schmelzer  
**(Internal Report)**
- SEP 8810** "Prediction of Gas Solubility and Vapor-Liquid Equilibria by Group-Contribution"  
Rafiqul Gani, N. Tzouvaras, Peter Rasmussen and Aage Fredenslund  
**(Fluid Phase Equilibria, 47 (1989) 133-153)**
- SEP 8811** "A Knowledge based System for the Selection of Thermodynamic Models"  
Rafiqul Gani and John P. O'Connell  
**(Computers and chem. Engng., 13, (1989), 397-404)**
- SEP 8812** "Simultaneous Steady State and Dynamic Simulation of Chemical Processes"  
Rafiqul Gani and Ganka Toneva  
**(Computers and Chem.Eng., 13 (1989) 563-570)**

- SEP 8813** "Extension of Dynamic Models of Distillation Columns to Steady State Simulation"  
Rafiqul Gani and Ian T. Cameron  
**(Computers and chem. Engng., 13 (1989) 271-280)**
- SEP 8814** "Vapor-Liquid Equilibrium for the Binary Systems: Water-Ethylene Glycol, Water-Ethylene Glycol Monomethyl Ether and Water-Ethylene Glycol Monoethyl Ether"  
Patricio Proust  
**(Internal Report)**
- SEP 8815** "Prediction of Viscosities of Liquid Mixtures by the UNIFAC Method"  
Preliminary version.  
Liliana Urlic, P. Rasmussen and Aa. Fredenslund  
**(Internal Report)**
- SEP 8816** "An Apparatus for Studies of Near-Critical Hydrocarbon Fluids"  
Jørgen Jepsen, Erling Stenby and Aage Fredenslund  
**(Internal Report)**
- SEP 8817** "The Microwave Apparatus: Status 1. Oct. 1988"  
Mikael Dan Frørup  
**(Internal Report)**
- SEP 8818** "Immiscible Displacement in a Porous Medium Simulated by a Statistical Model"  
Dengen Zhou and Erling H. Stenby  
**(North Sea Oil and Gas Reservoirs II, Graham and Trotman, London, (1991) 271-280)**
- SEP 8819** "A New Equation for an Entropic Activity Coefficient. Predictions of Solvent Activities in Polymer Solutions"  
Helle Simon Elbro, Aage Fredenslund and Peter Rasmussen  
**(AIChE Meeting, Washington D.C., November 1988)**

- SEP 8901 "Dynamic Simulation of Chemical Processes - A Structured Approach"  
R. Gani, G. Toneva and I.T. Cameron  
**(Proceedings, PSE '88, 3rd Int.Symp. on Process Systems, Engineering, Sydney, Aug. 1988)**
- SEP 8902 "Combined Phase and Reaction Equilibria Calculations Using the UNIWAALS Equations of State"  
R. Gani  
**(Fluid Phase Equilibria, 53 (1990) 89-96)**
- SEP 8903 "Calculation of Solid-Liquid Equilibria in Ternary Electrolyte Systems"  
M.J.E.M, Cardoso, P. Rasmussen and Aa. Fredenslund  
**(Revista Brasileira de Engenharia - Volume 6/N.1 - Julho (1989) 5-12)**
- SEP 8904 "Calculation of Multiphase Ideal Solution Chemical Equilibrium"  
Michael L. Michelsen  
**(Fluid Phase Equilibria, 53 (1990) 73-80)**
- SEP 8905 "The Negative Flash"  
Curtis H. Whitson and Michael L. Michelsen  
**(Fluid Phase Equilibria, 53 (1990) 51-72)**
- SEP 8906 "UNIFAC and Related Group-Contribution Models for Phase Equilibria"  
Aage Fredenslund  
**Fluid Phase Equilibria, 52 (1989) 135-150)**
- SEP 8907 "High Pressure Dew and Bubble Points from Microwave Measurements"  
Michael D. Frørup, Jørgen T. Jepsen, Aage Fredenslund and Peter Rasmussen  
**(Fluid Phase Equilibria, 52 (1989) 229-235)**
- SEP 8908 "Prediction of PVT-Properties and Phase Equilibria in Oil and Gas Condensate Mixtures"  
Kim Aasberg-Petersen and Erling Stenby  
**(International Conference on Phase Behaviour and Transport Properties in Hydrocarbon Reservoirs, London, November, 1989)**
- SEP 8909 "Calculation of Phase Equilibria for Solutions of Strong Electrolytes in Solvent/Water Mixtures"  
Eugénia A. Macedo, Per Skovborg and Peter Rasmussen  
**(Chem.Eng.Science, 45(4) (1990) 875-882)**
- SEP 8910 "A New Three-Parameter Cubic Equation of State and Its Application to Reservoir Fluids"  
Tian-Min Guo and Liangui Du  
**(Internal Report)**
- SEP 8911 "Development of a Databank for Polymer and Polymer-Containing System"  
Wen Hao and P. Alessi  
**(Internal Report)**
- SEP 8912 "Some Recent Developments in the JHA Model for Polymer Solutions"  
S. Dahl, Fei Chen, Aa. Fredenslund and P. Rasmussen  
**(Internal Report)**

- SEP 8913 "A New Simple Equation for the Prediction of Solvent Activities in Polymer Solutions.  
H.S. Elbro, Aa. Fredenslund and P. Rasmussen  
**(Macromolecules, 23 (1990) 4707-4714)**
- SEP 8914 "Gravity Stable Nitrogen Displacement of Oil"  
Peter Naylor and Mikael Frørup  
**(SPE 19641 (1989))**
- SEP 8915 "Infinite Dilution Activity Coefficients in Poly (ethylene glycol)"  
Esben Lauge Sørensen, Wen Hao and Paolo Alessi  
**(Fluid Phase Equilibria, 56 (1990) 249-256)**  
**(Presented at the CODATA Conference Gradisca, Sep. 89)**
- SEP 8916 "A Statistical Analysis of the Experimental Parameters in Dynamic Adsorption in Porous Media"  
Uffe Rahbek and Erling H. Stenby  
**(Presented at the IEA/EOR Workshop at Stanford University, Palo Alto, 4-6 October 1989)**
- SEP 8917 "Studies of Near-Critical Hydrocarbon Fluids - A New Apparatus"  
Jørgen T. Jepsen, Erling H. Stenby and Aage Fredenslund  
**(Presented at the IEA/EOR Workshop at Stanford University, Palo Alto, 4-6 October 1989)**
- SEP 8918 "Capillary End Effects in Short Core Immiscible Displacement"  
Erling H. Stenby and Dengen Zhou  
**(Presented at the IEA/EOR Workshop at Stanford University, Palo Alto, 4-6 October 1989)**
- SEP 8919 "A Method for Incorporating Excess Gibbs Energy Models in Equations of State"  
Michael L. Michelsen  
**(Fluid Phase Equilibria, 60 (1990) 47-58)**
- SEP 8920 "Group-Contribution Flory Equation of State for Vapor-Liquid Equilibria in Mixtures with Polymers"  
Fei Chen, Aage Fredenslund and Peter Rasmussen  
**(I&EC Research, 29 (1990) 875-882, Correction IEC Research, 30 (1991) 2506)**
- SEP 8921 "A Modified Huron-Vidal Mixing Rule for Cubic Equations of State"  
Michael Michelsen  
**(Fluid Phase Equilibria, 60 (1990) 213-219)**
- SEP 8922 "Application of the Du-Guo and the SRK Equations of State to Predict the Phase Behaviour of Chinese Reservoir Fluids"  
Tian-Min Guo, Liangui Du, K.S. Pedersen and Aa. Fredenslund  
**(SPE Reservoir Engineering, Aug. 1991)**
- SEP 8923 "Adaptation of Separation Process Models for Design, Operability and Control Studies"  
N. Kozarev and R. Gani  
**(I.Chem.E. Symposium Series no. 114 (1989) 97-105)**

**SEP 8924**

"Computation of Phase Boundaries in Solid-Liquid Equilibria for Non-Electrolyte Mixtures"  
Christian G. Houghton-Larsen and R. Gani  
**(Internal Report)**



- SEP 9001** "Prediction of Thermodynamic Properties of Oil and Gas Condensate Mixtures"  
Kim Aasberg-Petersen and Erling Stenby  
**(I&EC Research, 29 (1991) 248-254)**
- SEP 9002** "Computer Aided Molecular Design by Group Contribution Method"  
Bjarne Nielsen, Rafiqul Gani and Aage Fredenslund  
**(Process Technology Proceedings, Elsevier, 9 (1990) 227-234)**
- SEP 9003** "A Computer Program Package for Phase Equilibria"  
Jens M. Sørensen, Rafiqul Gani and Aage Fredenslund  
**(Process Technology Proceedings, Elsevier, 9 (1990) 315-322)**
- SEP 9004** "A Dynamic Simulator for Design and Analysis of Chemical Processes"  
Esben Lauge Sørensen, Henrik Johansen, Rafiqul Gani and Aage Fredenslund  
**(Process Technology Proceedings, Elsevier, 9 (1990) 13-20)**
- Supplement to 9004** "Process Flowsheeting using Complex Thermodynamic Models and a Structured Process Simulation strategy"  
Esben Lauge Sørensen, Henrik Johansen, Rafiqul Gani and Aage Fredenslund  
**(Presented at CHISA '90)**
- SEP 9005** "High Pressure Gas Solubilities in Methanol, Water and Aqueous Mixtures of Electrolytes"  
Kim Aasberg-Petersen, Erling Stenby and Aage Fredenslund  
**(Proceedings, 2nd International Symposium on High Pressure Chemical Engineering, 24-26 September 1990, Erlangen, Germany, 177-183)**
- SEP 9006** "Prediction of PVT-Properties and Phase Equilibria of Oil and Gas Condensate Mixtures"  
Kim Aasberg-Petersen and Erling Stenby  
**(Presented at CHISA '90)**
- SEP 9007** "Determination of Poly(acrylonitrile)-Solution Interactions by Gas-Liquid Chromatography"  
F. Chen, I. H. Romdhane, R. Danner and Aa. Fredenslund  
**(Internal Report)**
- SEP 9008** "The MHV2-UNIFAC Model. An Extended Group Contribution Model for Prediction of Gas Solubility and Vapor Liquid Equilibria at Low and High Pressures"  
S. Dahl, Aa. Fredenslund and P. Rasmussen  
**(Presented at CHISA '90)**
- SEP 9009** "Calculation of Hydrate Fugacities"  
Michael L. Michelsen  
**(Chem.Eng.Sci., 46 (1991) 1192-1193)**
- SEP 9010** "UNIFAC Prediction of Vapor-Liquid Equilibria in Mixed Solvent/Salt Systems"  
Ireneo Kikic, Maurizio Fermeglia and Peter Rasmussen  
**(Chem.Eng. Science, 46 (1991) 2775-2780)**

- SEP 9011** "A 3-D Network Model Simulating Two Phase Immiscible Displacements in Porous Media"  
Dengen Zhou and Erling H. Stenby  
**(Presented at European Conference on Mathematics of Oil Recovery, 11 - 14 September 1990, Arles)**
- SEP 9012** "Simulation Strategies for Design and Analysis of Complex Chemical Processes"  
Rafiqul Gani, Jens Perregaard and Henrik Johansen  
**(Trans. I. Chem. E., 68 part A (1990) 407-417)**
- SEP 9013** "Calculation of High Pressure Vapour-Liquid Equilibrium Using a Modified Huron-Vidal Mixing Rule and Modified UNIFAC"  
Søren Dahl and Michael L. Michelsen  
**(AIChE Journal, 36 (1990) 1829-1836)**
- SEP 9014** "Densities and Excess Volumes in Aqueous Poly(ethylene Glycol) solutions"  
Erich A. Müller and Peter Rasmussen  
**(J. Chem. Eng. Data, 36 (1991) 214-217)**
- SEP 9015** "Fluid Phase Equilibria in Water - Natural Gas Component Mixtures and Their Description by the Hole Group-Contribution Equation of State"  
A. I. Victorov, Aa. Fredenslund and N.A. Smirnova  
**(Fluid Phase Equilibria, 66 (1991) 187-210)**
- SEP 9016** "Percolation Calculation on Samples from the Zechstein Ca-2 Carbonate Reservoir Using Experimentally Derived Pore Structure Information"  
Dengen Zhou, Erling H. Stenby, Kaare L. Rasmussen, Peter Frykman and Niels Stentoft  
**(Internal Report)**
- SEP 9017** "Microwave Detection of Dew Points: Results for Complex Mixtures"  
A.R.M. Goodwin, M.D. Frørup and E.H. Stenby  
**(J. Chem. Thermodynamics, 23 (1991) 713-715)**
- SEP 9018** "Interpretation of Capillary Pressure Curves Using Invasion Percolation Theory"  
D. Zhou and E.H. Stenby  
**(Transport in Porous Media, 11 (1993) 17-31)**
- SEP 9019** "Displacement of Trapped Oil from Water-Wet Reservoir Rock"  
D. Zhou and E.H. Stenby  
**(Transport in Porous Media, 11 (1993) 1-16)**
- SEP 9020** "New Equations of State for the Prediction of Gas Solubilities in Non-Ideal Systems"  
Aage Fredenslund  
**(Lecture given at Gas Processors Association European Chapter Meeting, Sept. 27, 1990)**
- SEP 9021** "Electrolyte Solutions"  
Jens Mourits Sørensen  
**Out of print**

- SEP 9022** "Application of the Hole Quasi-chemical Group Contribution Equation of State for Phase Equilibria Calculation in Systems with Association"  
A. I. Victorov and Aa. Fredenslund  
**(Fluid Phase Equilibria, 66 (1991) 77-101)**
- SEP 9023** "The MHV2 Model - A UNIFAC Based Model for Prediction of Gas Solubility and Vapor-Liquid Equilibria at Low and High Pressures"  
S. Dahl, Aa. Fredenslund and P. Rasmussen  
**(Ind.Eng.Chem.Res., 30 (1991) 1936-1945)**
- SEP 9024** "Simulation of Multicomponent Batch Distillation Processes"  
Aa. Fredenslund and K. S. Pedersen  
**(Presented at 5. Workshop on Software-Entwicklung in der Chemie, November 1990)**
- SEP 9025** "Prediction of High Pressure Gas Solubilities in Aqueous Mixtures of Electrolytes"  
Kim Aasberg-Petersen, Erling Stenby and Aage Fredenslund  
**(I&EC Research, 30 (1991) 2880-2885)**
- SEP 9026** "A Group Contribution Approach to Computer-Aided Molecular Design"  
Rafiqul Gani, Bjarne Nielsen and Aage Fredenslund  
**(AIChE Journal , 37 (1991) 1318-1332)**
- SEP 9027** "Design and Analysis of Chemical Processes through DYNOSIM"  
Rafiqul Gani, Esben L. Sørensen and Jens Perregaard  
**(Presented at AIChE Annual Meeting, Chicago, November 1990)**  
**(I&EC Research, 31 (1992) 244-254)**
- SEP 9028** "Phase Equilibria and Process Simulation for High-Pressure Supercritical Extraction Processes"  
Aa. Fredenslund and J. M. Sørensen  
**(Presented at EEC Joule Conference, Bruxelles, 23-24 October, 1990)**

- SEP 9101** "Vapor-Liquid Equilibria by UNIFAC Group Contribution. 5. Revision and Extension"  
Henrik K. Hansen, Peter Rasmussen, Aage Fredenslund, Martin Schiller and Jürgen Gmehling  
**(I&EC Research, 30 (1991) 2352-2355)**
- SEP 9102** "Steady State and Dynamic Simulation of Complex Chemical Processes",  
J. Perregaard, B. S. Pedersen and R. Gani  
Presented at the 4th Int. Symp. on Process Systems Engineering, PSE'91, Montebello, Canada, 5-9 August 1991  
**(Trans. IChemE, 70 (1A) (1992) 99-109)**
- SEP 9103** "A Modified Dvorak-Boublik (Vapour+Liquid) Equilibrium Apparatus with Continuous Analysis of Phase Composition  
M. Lencka, O. Persson and P. Rasmussen  
**(J.Chem. Thermodynamics, 23 (1991) 851-858)**
- SEP 9104** "Prediction of Viscosities of Hydrocarbon Mixtures"  
Kim Aasberg-Petersen, Kim Knudsen and Aage Fredenslund  
**(Fluid Phase Equilibria, 70 (1991) 293-308)**
- SEP 9105** The MHV2 Model: Prediction of Phase Equilibria at Sub- and Supercritical Conditions  
S. Dahl, Aa. Fredenslund and P. Rasmussen  
**(Presented at the 2nd International Symposium on Supercritical Fluids, Boston, USA, 20-22 May 1991)**
- SEP 9106** Efficient Simulation of Supercritical Extraction Processes with Advanced Thermodynamic Models  
Esben L. Sørensen, Isabel Tessaro and Rafiqul Gani  
**(Presented at the 2nd International Symposium on Supercritical Fluids, Boston, USA, 20-22 May 1991)**
- SEP 9107** "The Free Volume Model for Viscosities of Gases and Liquids at High Pressures"  
Wenchuan Wang, Aage Fredenslund and Hongqin Liu  
**(Internal Report)**
- SEP 9108** "Prediction of the Critical Volume from the van der Waals Volume"  
H.S. Elbro, Aa. Fredenslund and P. Rasmussen  
**(AIChE Journal, 37 (1991) 1107-1108)**
- SEP 9109** "Monte Carlo Simulation of Ternary Lennard-Jones Dense Fluids with Different Molecular Sizes and Interaction Energies"  
Wenchuan Wang and Huiming Liang  
**(Internal Report)**
- SEP 9110** "Group Contribution Method for the Prediction of Liquid Densities as a Function of Temperature for Solvents, Oligomers, and Polymers"  
H.S. Elbro, Aage Fredenslund and P. Rasmussen  
**(Ind.Eng.Chem.Research, 30 (1991) 2576-2582)**
- SEP 9111** "The MHV2 Model: Prediction of Phase Equilibria at Sub- and Supercritical Conditions"  
Søren Dahl, Andrzej Dunalewics, Aage Fredenslund and Peter Rasmussen  
**(The Journal of Supercritical Fluids, 5 (1992) 42-47)**

- SEP 9112** "Efficient Integration of Simulation and Optimization for Study of Complex Chemical Processes"  
J. Perregaard, F. Genovese and R. Gani  
Presented at COPE 91, Barcelona, Spain, October 14-16, 1991  
**(Process Technology Proceedings, Elsevier, 10 (1991) 139-144)**
- SEP 9113** "A Note on Description of Ternary Liquid-Liquid Equilibria near the Critical Region by Scaling Law"  
Wenchuan Wang, Aage Fredenslund and Chongli Zhong  
**(Internal Report)**
- SEP 9114** "Compositional Study of Gravity Stable Immiscible Nitrogen Displacement of a Black Oil "  
M.D. Frørup, E.H. Stenby and N. Bech  
**(Presented at the 6th European IOR-Symposium, Stavanger, Norway, May 21st - 23rd, 1991)**
- SEP 9115** "The MHV2 Model: VLE and LLE for Mixtures with Strong Electrolytes"  
Søren Dahl and Eugénia A. Macedo  
**(Ind.Eng.Chem.Res., 31 (1992) 1195-1201)**
- SEP 9116** "Modelling for Dynamic Simulation of Chemical Processes: The Index Problem"  
Rafiqul Gani and Ian T. Cameron  
**(Chemical Engineering Science, 47 (1992) 1311-1315)**
- SEP 9117** "Simulation and Analysis of Batch Chemical Processes"  
Esben L. Sørensen, Steen W. Sørensen and Rafiqul Gani  
**Presented at COPE'91, Barcelona, Oct. 14-16,1991.  
(Process Technology Proceedings, Elsevier, 10 (1991) 335-340)**
- SEP 9118** "Study of Batch Distillation Operations, Part I: Simulation and Modelling Aspects"  
Steen W. Sørensen, Rafiqul Gani, Iqbal Mujtaba and Sandro Macchietto  
**(Internal Report, not available)**
- SEP 9119** "Detection of Liquid-Liquid Phase Split Using a Microwave Technique".  
Robert Amin, Erling Stenby, Wang Peng and Aage Fredenslund  
**(Presented at the annual AIChE Meeting, Los Angeles, USA, November 17-22, 1991)**
- SEP 9120** "Experimental Studies of the Phase Behavior of Near Critical Hydrocarbon Mixtures"  
Jørgen Jepsen, Robert Amin and Erling Stenby  
**(Presented at the IEA/EOR Workshop in Bath, UK, October 28-30, 1991)**
- SEP 9121** "Extension of the Group Contribution Equation of State for the Calculation of Gas Solubilities"  
S.R. Wolff, R.P. Danner and Aa. Fredenslund  
**(Fluid Phase Equilibria, 81 (1992) 109-127)**
- SEP 9122** Supplement to "Extension of the Group Contribution Equation of State for the Calculation of Gas Solubilities"  
S.R. Wolff, R.P. Danner and Aa. Fredenslund  
**(Internal Report)**

- SEP 9123** "Group Contribution Estimation Methods"  
Aa. Fredenslund and J.M. Sørensen  
**("Models for Thermodynamics and Phase Equilibrium Calculations",  
Chapter 4, Marcel Dekker, Inc, ed. S.I. Sandler (1993) 287-363)**
- SEP 9124** "The MHV2 Model: Application of a New UNIFAC Parameter Table for  
Prediction of Vapor-Liquid Equilibria at High Pressure and Gas  
Solubilities"  
Jürgen Schmelzer  
**(Internal Report)**

- SEP 9201** "Measurement of Induction Times for the Formation of Methane and Ethane Gas Hydrates"  
P. Skovborg, H.J. Ng, Peter Rasmussen and U. Mohn  
**(Chem.Eng.Science, 48 (1993) 445-453)**
- SEP 9202** "Phase Equilibrium Calculation in Compositional Reservoir Simulation"  
Peng Wang and Erling H. Stenby  
**(Presented at ESCAPE-1, Elsinore, May 24-28, 1992)**  
**(Computers and Chemical Engineering, 16 (1992) 449-456)**
- SEP 9203** "TMS: A Knowledge Based Expert System for Thermodynamic Model Selection and Application"  
Jens Møller Nielsen, Rafiqul Gani and John P. O'Connell  
**(Presented at COPE'91, Barcelona, Oct. 14-16, 1991)**  
**(Process Technology Proceedings, Elsevier, 10 (1991))**
- SEP 9204** "A Computer Controlled Static Cell for VLE Measurements"  
René Petersen, Aage Fredenslund and Peter Rasmussen  
**(Presented at AIChE Spring National Meeting, New Orleans, LA, March 29 to April 2, 1992)**
- SEP 9205** "Statistical Thermodynamic Model for Viscosity of Pure Liquids and Liquid Mixtures"  
Weihong Cao, Aage Fredenslund and Peter Rasmussen  
**(I&EC Research, 31 (1992) 2603-2619, Errata, 32 (1993) 1534)**
- SEP 9206** "Efficient and Accurate Computation of Thermodynamic Properties for Design of Separation Processes"  
Rafiqul Gani and Aage Fredenslund  
**(IChemE Distillation and Absorption, Sept., 1992)**  
**(TransIChemE, 70 Part A (1992) 439-447)**
- SEP 9207** "Simulation and Optimization of Chemical Processes: Numerical and Computational Aspects"  
J. Perregaard and E.L. Sørensen  
**(Presented at ESCAPE-1, May 24-28, 1992, Elsinore, Denmark)**  
**(Comp. & Chem. Eng., 16 (1992) 247-254)**
- SEP 9208** "Simple Activity Coefficient Model for the Prediction of Solvent Activities in Polymer Solutions"  
G.M. Kontogeorgis, Aage Fredenslund and D.P. Tassios  
**(I&EC Research, 32 (1993) 362-372)**
- SEP 9209** "A Comprehensive Comparison of Mixing Rules for Calculation of Phase Equilibria in Complex Systems"  
K.Knudsen, Erling H. Stenby and Aa. Fredenslund  
**(Fluid Phase Equilibria, 82 (1993) 361-368)**

- SEP 9210** "A New Apparatus for Studies of Near Critical Hydrocarbon Fluids"  
Part I: PVT, DENSITY, and VISCOSITY  
Erling H. Stenby, Robert Amin and Jørgen Jepsen  
**(Fluid Phase Equilibria, 82 (1993) 149-156)**
- SEP 9211** "A Thermodynamic Model for Evaluation of Equilibrium Between Fluids  
from Different Parts of a Reservoir"  
K.Knudsen, E.H.Stenby and M.Müller  
**(In Situ, 19(1) (1995) 89-123)**
- SEP 9212** "UNIFAC with Lineary Temperature-Dependent Group-Interaction  
Parameters"  
H.K. Hansen, B. Coto and B. Kuhlmann  
**(Internal Report)**
- SEP 9213** "Simulation, Design and Analysis of Azeotropic Distillation Operations"  
Bjarne S. Bossen, Sten Bay Jørgensen and Rafiqul Gani  
**(I&EC Research, 32 (1993) 620-633)**
- SEP 9214** "Computer Aided Mixture Design with Specified Property Constraints"  
J.A. Klein, D.T. Wu and Rafiqul Gani  
**(Computers and Chemical Engineering, 16 (1992) 229-236)**
- SEP 9215** "Vapor-Liquid Equilibria for Glycol Ether + Water Systems"  
Osvaldo Chiavone-Filho, Patricio Proust and Peter Rasmussen  
**(Journal of Chemical and Engineering Data, 38 (1993) 128-131)**
- SEP 9216** "Solubility of Salts in Mixed Solvents"  
Osvaldo Chiavone-Filho and Peter Rasmussen  
**(Journal of Chemical and Engineering Data, 38 (1993) 367-369)**
- SEP 9217** "Adsorption of Different Surfactants on North Sea Reservoir Chalkstone"  
Uffe Rahbek, Niels Stentoft and Erling H. Stenby  
**(Presented at the Fourth Chalk Symposium, Deauville, France, September 1992)**
- SEP 9218** "Design and Analysis of Super-Critical Extraction Processes"  
Glen Hytoft, Rafiqul Gani and Aage Fredenslund  
**(Energy Efficiency in Process Technology, P.A. Pilavachi (Editor), Elsevier Applied Science, (1993), 620-633)**
- SEP 9219** "Computer Aided Molecular and Mixture Design with Specified Property  
Constraints"  
Rafiqul Gani and Aage Fredenslund  
**(Fluid Phase Equilibria, 82 (1993) 39-46)**
- SEP 9220** "Vapor Liquid Equilibrium Data for the Diisopropylether + 2-  
Methoxyethanol and Trichloroethylene + 2-Methoxyethanol Systems".  
Marco Savoia, Ole Persson and Aage Fredenslund  
**(Out of print. Replaced by SEP 9309)**



- SEP 9221** "Liquid-Liquid Phase Equilibria of the Polyethylene Glycol-Ammonium Sulfate-Water System"  
Patricio Proust and Aage Fredenslund  
**(Out of print. Replaced by SEP 9223)**
- SEP 9222** "Model Simplification and Reduction for Simulation and Optimization of Chemical Processes"  
J. Perregaard  
**(Computers and Chemical Eng., 17 (415) May 1993)**
- SEP 9223** "Liquid-liquid Phase Equilibria of Aqueous Two-Phase Systems Containing Salts and Polyethylene Glycol"  
Nikos Voros, Patricio Proust and Aage Fredenslund  
**(Fluid Phase Equilibria, 90 (1993) 333-353)**
- SEP 9224** "Vapor-Liquid Equilibria in Nonpolar/Weakly Polar Systems with Different Types of Mixing Rules"  
Nikos Voros and D.P. Tassios  
**(Out of print)**
- SEP 9225** "Modelling the Influence of Pressure on the Phase Behavior of Systems Containing Water, Oil, and Nonionic Surfactants"  
Kim Knudsen, Erling H. Stenby and J.G. Andersen  
**(Fluid Phase Equilibria, 93 (1994) 55-74)**
- SEP 9226** "Simultaneous Correlation of Viscosity and Vapor-Liquid Equilibrium Data"  
Weihong Cao, Kim Knudsen, Aage Fredenslund and Peter Rasmussen  
**(I&EC Research, 32 (1993) 2077-2087)**
- SEP 9227** "Group-Contribution Viscosity Predictions of Liquid Mixtures Using UNIFAC-VLE Parameters"  
Weihong Cao, Kim Knudsen, Aage Fredenslund and Peter Rasmussen  
**(I&EC Research, 32 (1993) 2088-2092)**
- SEP 9228** "Calculation of Vapour-Liquid Equilibria in Water - Sulfuric Acid - Sulfate Salt Systems using a Revised Extended UNIQUAC Equation"  
F.L.P. Pessoa, Peter Rasmussen and Aage Fredenslund  
**(Latin American Applied Research, 22 (1992) 195-206)**
- SEP 9229** "Correlation and Prediction of Mineral Solubilities in the Reciprocal Salt System (Na<sup>+</sup>, K<sup>+</sup>) (Cl<sup>-</sup>, SO<sub>4</sub><sup>2-</sup>) -H<sub>2</sub>O at 0 – 100 °C"  
Henrik Nicolaisen, Peter Rasmussen and Jens M. Sørensen  
**(Chemical Engineering Science, 48 (1993) 3149-3158)**
- SEP 9230** "Compositional Simulation of Reservoir Performance by a Reduced Thermodynamic Model"  
Peng Wang and Erling Stenby  
**(Computers & Chemical Engineering, 18(2) (1994) 75-81)**

- SEP 9231** "An Experimental Investigation of Cloud-Point Curves for the PEG/Water System at Varying Molecular Weight Distributions"  
Ana Saraiva, Ole Persson and Aage Fredenslund  
**(Fluid Phase Equilibria, 91 (1993) 291-311)**
- SEP 9232** "Improved Models for the Prediction of Activity Coefficients in Nearly Athermal Mixtures"  
Georgios M. Kontogeorgis, Philipas Coutsikos,  
Dimitrios Tassios and Aage Fredenslund  
**(Fluid Phase Equilibria, 92 (1994) 35-66)**

- SEP 9301** Letter to the Editor"Comments on: Hydrate dissociation enthalpy and guest Size"  
P. Skovborg and P. Rasmussen  
**(Fluid Phase Equilibria, 96 (1994) 223-231)**
- SEP 9302** "Simulation of Flow Behavior of Gas Condensate at Low Interfacial Tension"  
Peng Wang, Erling H. Stenby, Gary A. Pope and Kamy Sepehrnoori  
**(Presented at the Seventh European Symposium on Improved Oil Recovery, Moscow, October 1993) (In Situ, 20(2) (1996) 199-219)**
- SEP 9303** "Compositional Variations with Depth in Gravitational and Thermal Fields for Reservoir Fluids"  
Peng Wang, Erling H. Stenby, Gary A. Pope and Kamy Sepehrnoori  
**(Internal report)**
- SEP 9304** "Prediction of Phase Diagrams for CO<sub>2</sub>/Hydrocarbon - Mixtures"  
Marianne Jørgensen and Erling H. Stenby  
**(Presented at the Seventh European Symposium on Improved Oil Recovery, Moscow, October 1993)**
- SEP 9305** "Artificial Neural Networks as a Predictive Tool for Vapor-Liquid Equilibrium"  
René Petersen, Aage Fredenslund and Peter Rasmussen  
**(Computers & Chemical Engineering, 18(Suppl.) (1994) 63-67)**
- SEP 9306** "Non-Iterative Flash Calculation Algorithm in Compositional Reservoir Simulation"  
Peng Wang and Erling H. Stenby  
**(Fluid Phase Equilibria, 94 (1994) 93-108)**
- SEP 9307** "Non-Iterative Phase Equilibrium Calculation Algorithm in Compositional Reservoir Simulation. Part II. Three-Phase Flash"  
Peng Wang and Erling H. Stenby  
**(Out of Print. Replaced by SEP 9306)**
- SEP 9308** "Multiplicity in Numerical Solution of Non-Linear Models: Separation Processes"  
Rafiqul Gani and Sten Bay Jørgensen  
**(Computers & Chemical Engineering, 18 (5) (1994) 55-61)**
- SEP 9309** "Isothermal Vapor Liquid Equilibrium Data for Ether/Glycol, Chloroalkene + Glycol, Epoxy Ether + Alkane, Epoxy Ether + Alkane, and Epoxy Ether + Chloroalkane Systems"  
Ari Jónasson, Marco Savoia, Ole Persson and Aage Fredenslund  
**(Journal of Chemical and Engineering Data, 39 (1994) 134-139)**

- SEP 9310** "An Experimental Investigation of Cloud-Point Curves for the PEG/Water System at Varying Molecular-Weight Distributions"  
Ana Saraiva, Ole Persson and Aage Fredenslund  
**(Fluid Phase Equilibria, 91 (1993) 291-311)**  
**(Presented at CHISA'93, Prague, August 1993)**
- SEP 9311** "Correlation and Prediction of Salt Solubilities in Aqueous Solutions Containing Sodium, Potassium and Sulfate Ions at Temperatures between 0 and 100 Degrees Celsius"  
Henrik Nicolaisen, Peter Rasmussen and Jens M. Sørensen  
**(Presented at CHISA'93, Prague, August 1993)**
- SEP 9312** "Phase Equilibrium Calculations for CO<sub>2</sub>- Hydrocarbon Mixtures"  
J.A.P. Coutinho, M. Jørgensen and E.H. Stenby  
**(Presented at CHISA'93, Prague, August 1993)**
- SEP 9313** "Determination of Henry's Law Constants and Infinite Dilution Activity Coefficients for Volatile Organic Compounds in Water"  
Frands Nielsen, Erik Olsen and Aage Fredenslund  
**(Presented at CHISA'93, Prague, August 1993)**
- SEP 9314** "Application of The van der Waals Equation of State to polymers I. Correlation"  
Georgios M. Kontogeorgis, Vassilis I. Harismiadis, Aage Fredenslund and Dimitrios P. Tassios  
**(Fluid Phase Equilibria, 96 (1994) 65-92)**
- SEP 9315** "Equations of State and Activity Coefficient Models for Vapor-Liquid Equilibria of Polymer Solutions"  
Georgios M. Kontogeorgis, Aage Fredenslund, Ioannis G. Economou, and Dimitrios P. Tassios  
**(AIChE Journal, 40(10) (1994) 1711-1727)**
- SEP 9316** "Non-iterative Phase Equilibrium Calculation in Compositional Reservoir Simulation"  
Erling H. Stenby and Peng Wang  
**(Presented at the 1993 SPE Annual Technical Conference and Exhibition, 3-6 October, 1993, in Houston, Texas)**  
**(SPE 26641)**
- SEP 9317** "Application of The van der Waals Equation of State II. Prediction"  
Vassilis I. Harismiadis, Georgios M. Kontogeorgis, Aage Fredenslund and Dimitrios P. Tassios  
**(Fluid Phase Equilibria, 96 (1994) 93-117)**
- SEP 9318** "Free-Volume Activity Coefficient Models for Phase Equilibrium Calculations in Polymer Solutions"  
Georgios M. Kontogeorgis and Aage Fredenslund  
**(Presented at CHISA'93, Prague, August 1993)**

- SEP 9319** "A New Group-Contribution Method for The Estimation of Properties of Pure Compounds"  
L. Constantinou and R. Gani  
**(AIChE Journal, (1994) 1697-1710)**
- SEP 9320A** "Computer-Aided Product Design: Problem Formulation and Application" Part A.  
L. Constantinou, K. Bagherpour and R. Gani  
**(Presented at PSE'94, Kyongju, Korea)**
- SEP 9320B** "Computer-Aided Product Design: Problem Formulation and Application" Part B.  
L. Constantinou, R. Gani, Aa. Fredenslund, J.A. Klein and D.T.Wu  
**(Presented at PSE' 94, Kyongju, Korea)**
- SEP 9321** "Revision of the Group-Contribution Flory Equation of State for Phase Equilibria Calculations in Mixtures with Polymers"  
1. Prediction of Vapor-Liquid Equilibria for Polymer Solutions"  
Grozdana Bogdanic and Aage Fredenslund  
**(I&EC Research, 33 (1994) 1331-1340)**
- SEP 9322** "Phase Behavior in Copolymer Blends of Poly(p-chlorostyrene-co-o-chlorostyrene) and Phenylsulfonylated Poly (2,6-dimethyl-1,4-Phenylene oxide)"  
R. Vukovic, G. Bogdanic, V. Kuresevic, M. Tomaskovic, F.E. Karasz, W.J. MacKnight and Aage Fredenslund  
**(J.Polym.Sci., Part B, Polym.Phys., 32 (1994) 1079-1087)**
- SEP 9323** "Effects of Capillary Forces in Water Floods Using X-ray CT on Tight Chalk Samples"  
Linda Sendrup, Niels Stentoft, Kaare L. Rasmussen, Uffe Rahbek and Erling Stenby  
**(Internal Report)**
- SEP 9324** "A Mass Transport Limited Model for the Growth of Methane and Ethane Gas Hydrates"  
Per Skovborg and Peter Rasmussen  
**(Chemical Engineering Science, 49 (1994) 1131-1143)**
- SEP 9325** "Miscibility in Blends of Sulfonylated Poly (2,6-dimethyl-1,4-phenylene oxide) and Poly (p-bromostyrene-co-o-bromostyrene)"  
R. Vukovic, G. Bogdanic, V. Kuresevic, V. Scrica, F.E. Karasz, W.J. MacKnight and Aa. Fredenslund  
**(Journal of Applied Polymer Science, 52 (1994) 1499-1503)**
- SEP 9326** "Miscibility in Blends of Phenylsulfonylated Poly (2,6-dimethyl-1,4-phenylene oxide) and Poly (p-fluorostyrene-co-o-fluorostyrene)"  
R. Vukovic, G. Bogdanic, V. Kuresevic, F.E. Karasz, W.J. MacKnight and Aa. Fredenslund  
**(Journal of Applied Polymer Science, 35 (1994) 3055)**

- SEP 9327** "Pearson Type Distribution Functions for Polydisperse Polymer Systems. Molar Mass Distributions in Thermodynamic Modelling"  
G. Bogdanic, L. Jakab and Aa. Fredenslund  
**(Internal Report)**
- SEP 9328** "Simulation Tools for Design and Analysis of Supercritical Extraction Processes"  
Glen Hytoft, Rafiqul Gani and Aage Fredenslund  
**(Presented at the AIChE Meeting, St. Louis, November, 1993; Proceedings 1st Topical Conf. on Supercritical Fluid Extraction, 1993)**
- SEP 9329** "Method for Estimating Critical Properties of Heavy Compounds Suitable for Cubic Equations of State and Its Application to the Prediction of Vapor Pressures"  
G.M. Kontogeorgis, I.F. Smirlis, I. Yakoumis, V.I. Harismiadis, Aa. Fredenslund and D.P. Tassios  
**(See SEP 9722 for published version)**
- SEP 9330** "UNIQUAC-parameters determined by Molecular Mechanics"  
Svava Ósk Jónsdóttir, Kjeld Rasmussen and Aage Fredenslund  
**(Fluid Phase Equilibria, 100 (1994) 121-138)**

- SEP 9401** "Binary Interaction Parameters for nonpolar Systems with Cubic Equations of State: A theoretical Approach"  
Joao A.P. Coutinho, Georgios M. Kontogeorgis and Erling H. Stenby  
**(Fluid Phase Equilibria, 102 (1994) 31-60)**
- SEP 9402** "A Computer Program Package for Refinery Operations Management"  
S.V. Nikolova, N.D. Kozarev and Rafiqul Gani  
**(IChemE Symposium Series No. 133 (1994) 1-8)**
- SEP 9403** "Application of the van der Waals Equation of State to Polymers. III Correlation and Prediction of Upper Critical Solution Temperatures for Polymer Solutions"  
Vassilis I. Harismiadis, Georgios M. Kontogeorgis, Ana Saraiva, Aage Fredenslund and Dimitrios P. Tassios  
**(Fluid Phase Equilibria, 100 (1994) 63-102)**
- SEP 9404** "Prediction of Vapor-Liquid Equilibria for Mixtures with Copolymers"  
Grozdana Bogdanic and Aage Fredenslund  
**(I&EC Research, 34 (1995) 324-331)**
- SEP 9405** "Simulation, Optimization and Data-Reconciliation of Industrial Chemical Processes"  
Bjarne S. Bossen, Lars J. Christiansen\*, Jørgen E. Jarvan\* and Rafiqul Gani  
**(IChemE Symposium Series No. 133 (1994) 325-332)**  
**(Trans IChemE, 72 part A (May 1994) 376-381)**
- SEP 9406** "Gas Hydrate Kinetics in Model Systems and Real Petroleum Fluid Systems"  
Per Skovborg, Heng-Joo Ng, Peter Rasmussen and Urs Mohn  
**(Internal Report)**
- SEP 9407** "Henry's Law Constants and Infinite Dilution Activity Coefficients for Volatile Organic Compounds in Water by a Validated Batch Air Stripping Method"  
Frands Nielsen, Erik Olsen and Aage Fredenslund  
**(Environmental Science and Technology, 28 (1994) 2133-2138)**
- SEP 9408** "The Contribution of Oxygenates to Gasoline's Octane Quality"  
Carsten Aamand  
**(Internal Report)**
- SEP 9409** "Prediction of Liquid-Liquid Equilibrium for Binary Polymer Solutions with Simple Activity Coefficient Models"  
Georgios M. Kontogeorgis, Ana Saraiva, Dimitrios P. Tassios and Aage Fredenslund  
**(Ind. Eng. Chem. Res., 34 (1995) 1823-1834)**

- SEP 9410** "A Predictive Model for Thermal Conductivity of Fluid Mixtures Based on Kinetic Theory of Gases I. Gas Mixtures"  
Shubao Shen, Aage Fredenslund and Peter Rasmussen  
**(Internal Report)**
- SEP 9411** "Predictions of Three-Phase Regions in CO<sub>2</sub>- Oil Mixtures"  
Joao A.P. Coutinho, Marianne Jørgensen and Erling H. Stenby  
**(Journal of Petroleum Science & Engineering, 12 (1995) 201-208)**
- SEP 9412** "A Study of the Miscibility/Immiscibility Phenomena in Low Molecular Weight Poly (n-butylmethacrylate)/Single Solvent Systems by ThermoOptical Analysis by Microscopy"  
Ana Saraiva, Marco Pleuss, Ole Persson and Aage Fredenslund  
**(Internal Report)**
- SEP 9413** "Evaluation of Activity Coefficient Models in Prediction of Alkane Solid-Liquid Equilibria"  
Joao A.P. Coutinho, Simon I. Andersen and Erling H. Stenby  
**(Fluid Phase Equilibria, 103 (1995) 23-39)**
- SEP 9414** "Separation Process Design and Synthesis Based on Thermodynamic Insights"  
Cecilia A. Jakslund, Rafiqul Gani and Kristian M. Lien  
**(Chemical Engineering Science, 50 (1995) 511-530)**
- SEP 9415** "Revision of the Group Contribution-Flory Equation of State for Phase Equilibria Calculations in Mixtures with Polymers. 2. Prediction of Liquid-Liquid Equilibria for Polymer Solutions"  
Ana Saraiva, Grozdana Bogdanic and Aage Fredenslund  
**(Ind.Eng.Chem.Res., 34 (1995) 1835-1841)**
- SEP 9416** "X-ray CT-scanning and its Application to Recovery Processes in Low Permeable Chalk"  
Linda Sendrup  
**(Internal Report)**
- SEP 9417** "Estimation of the Acentric Factor and the Liquid Molar Volume at 298 K using a New Group Contribution Method"  
L. Constantinou, R. Gani and J.P. O'Connell  
**(Fluid Phase Equilibria, 103 (1995) 11-22)**
- SEP 9418** "A Predictive Model for Thermal Conductivity of Fluid Mixtures Based on Kinetic Theory of Gases. II. Liquid Mixtures"  
Shubao Shen, Aage Fredenslund and Peter Rasmussen  
**(Internal Report)**
- SEP 9419** "Solubility of Carbon Dioxide in Aqueous Solutions of Sodium Chloride: Experimental Results and Correlation"  
B. Rumpf, H. Nicolaisen, C. Öcal and G. Maurer  
**(Journal of Solution Chemistry, 23(3) (1994) 431-448)**



- SEP 9420** "Solubility of Carbon Dioxide in Aqueous Solutions of Ammonium Chloride at Temperatures from 313 K to 433 K and Pressures up to 10 MPa"  
B. Rumpf, H. Nicolaisen and G. Maurer  
**(Berichte der Bunsengesellschaft für Physikalische Chemie, 98 (1994) 1077-1081)**
- SEP 9421** "Correlation and prediction of Henry constants for liquids and gases in five industrially important polymers using a CS-type correlation based on the van der Waals equation of state. Comparison with other predictive models"  
Sotiris Bithas, Georgios M. Kontogeorgis, Nikolaos Kalospiros, Aage Fredenslund and Dimitrios P. Tassios  
**(Fluid Phase Equilibria, 113 (1995) 79-102)**
- SEP 9422** "Henry Constants in Polymer Solutions with the Van der Waals Equation of State"  
Sotiris G. Bithas, Nikolaos S. Kalospiros, Georgios M. Kontogeorgis and Dimitrios Tassios  
**(Polymer Engineering and Science, 36(2) (1996) 254-261)**
- SEP 9423** "An Approach to the Prediction of Continuous Process Variables using Neural Networks"  
Bingzhen Chen and Carsten Aamand  
**(Internal Report)**
- SEP 9424** "Temperature Profile and Composition Estimation in a Coal Tar Distilling Column using Neural Networks"  
Bingzhen Chen and Carsten Aamand  
**(Computers & Applied Chemistry Monograph Series 4, 1994-1995, Sciences Press, Beijing, China, 73-82)**
- SEP 9425** "Modeling Reid's Vapor Pressure of Naphthas using Artificial Neural Networks"  
Xiaorong He and Carsten Aamand  
**(Presented at The International Conference on Neural Information Processing (ICONIP '95) in Beijing, China, Oct. 30-Nov. 3, 1995)**
- SEP 9426** "Activity Coefficient Models from Cubic Equations of State: A Method for Investigating Mixing and Combining Rules. Application to Asymmetric Mixtures"  
Georgios M. Kontogeorgis, Vassilis I. Harismiadis, Philippos Coutsikos, Aage Fredenslund and Dimitrios P. Tassios  
**(Presented at 44th Canadian Chemical Engineering Conference, October 2-5, 1994, Calgary Convention Centre, Alberta)**
- SEP 9427** "Dissolution of Solid Boscan Asphaltenes in Mixed Solvents"  
Simon Ivar Andersen  
**(Out of Print)**

- SEP 9428** "Thermodynamics and Property Data Bases".  
Aage Fredenslund, Georgios M. Kontogeorgis and Rafiqul Gani  
**(Chapter 7 in CACHE Monograph: Computers in Chemical Engineering Education, Editor: B. Carnahan, CACHE, USA, 1996)**
- SEP 9429** "Fundamental Statements about Thermal Diffusion for a Multicomponent Mixture in a Porous Medium"  
B. Faissat, K. Knudsen, E.H. Stenby and F. Montel  
**(Fluid Phase Equilibria, 100 (1994) 209-222)**
- SEP 9430** "High Pressure Solubility of Carbon Dioxide and Carbon Monoxide in Dimethyl Ether"  
Ari Jónassón, Ole Persson and Aage Fredenslund  
**(Journal of Chemical and Engineering Data, 40 (1995) 296-300)**
- SEP 9431** "Application of the Group Contribution Approach to tackle Environmentally-Related Problems"  
L. Constantinou, C. Jakslund, K. Bagherpour and R. Gani  
**(In "Pollution Prevention via Process and Product Modifications", Editor: M.M. El-Halwagi & D.P. Petrides, AIChE Symposium Series, 90 (303) (1995) 105-116)**
- SEP 9432** "Model Prediction of Supercritical Fluid-Liquid Equilibria for Carbon Dioxide and Fish Oil Related Compounds"  
Lucie Coniglio, Kim Knudsen and Rafiqul Gani  
**(I&EC Research, 34(7) (1995) 2473-2484)**
- SEP 9433** "The Consistent Force Field. 3. An Optimized Set of Potential Energy Functions for Ketones and Aldehydes"  
Svava Ósk Jónsdóttir and Kjeld Rasmussen  
**(New Journal of Chemistry, 19 (1995) 1113-1122)**
- SEP 9434** "Chain Length Dependence of the Critical Density of Organic Homologous Series"  
Georgios M. Kontogeorgis, Aage Fredenslund and Dimitrios P. Tassios  
**(Fluid Phase Equilibria, 108 (1995) 47-58)**
- SEP 9435** "Investigation of Heavy Organic Deposits During Oil Recovery"  
Simon I. Andersen, Erling H. Stenby and W. Kleinitz  
**(Proceedings, 2nd International Conference on Chemistry in Industry, Bahrain, Oct. 24-26 (1994) 41-48)**
- SEP 9436** "Effect of Mixed Solvents and Temperature on the Precipitation and Composition on Asphaltenes"  
Simon I. Andersen and Erling H. Stenby  
**(Proceedings, 2nd International Conference on Chemistry in Industry, Bahrain, Oct. 24-26 (1994) 838-846)**

- SEP 9437** "Precipitation of Asphaltenes in Mixed Solvents"  
Simon I. Andersen and Erling H. Stenby  
**(Proceedings, 3rd International Symposium on Wettability, Laramie, Wyoming, USA, Sep. 21-23, 1994)**
- SEP 9438** "Concentration Effects in HPLC-SEC Analysis of Petroleum Asphaltenes"  
Simon I. Andersen  
**(J. Liquid Chromatography, 17 (1994) 4065-4079)**
- SEP 9439** "Observations on the Critical Micelle Concentration of Asphaltenes"  
Simon I. Andersen and James G. Speight  
**(Fuel 1993, 72(9) (1994) 1343-1344)**
- SEP 9440** "Effect of Asphalt Oxidation Levels on Model Oil-Water Emulsion"  
Frédéric Tort and Simon I. Andersen  
**(Proceedings, 1st World Congress on Emulsion, Paris, France, Oct. 1995)**
- SEP 9441** "Improved models for the prediction of activity coefficients in nearly athermal mixtures Part II. A theoretical-based  $G^E$ -model based on the van der Waals partition function"  
Georgios M. Kontogeorgis, Georgios I. Nikolopoulos, Aage Fredenslund and Dimitrios P. Tassios  
**(Fluid Phase Equilibria, 127 (1997) 103-121)**
- SEP 9442** "A Molecular Simulation-Based Method for the Estimation of Activity Coefficients for Alkane Solutions"  
Georgios M. Kontogeorgis, Epaminondas C. Voutsas and Dimitrios P. Tassios  
**(Chem. Eng. Science, 51(12) (1996) 3247-3255)**
- SEP 9443** "Critical Constants and Acentric Factors for Long-Chain Alkanes Suitable for Corresponding States Applications. A Critical Review"  
Georgios M. Kontogeorgis and Dimitrios P. Tassios  
**(The Chem.Eng.Journal, 66 (1997) 35-49)**
- SEP 9444** "A novel method for investigating the repulsive and attractive parts of cubic equations of state and the combining rules used with the vdW-1f theory"  
Georgios M. Kontogeorgis, Philippos Coutsikos, Vassilis I. Harismiadis, Aage Fredenslund and Dimitrios P. Tassios  
**(Chemical Engineering Science, 53(3) (1998) 541-552)**
- SEP 9445** "A novel method for investigating the repulsive and attractive parts of cubic equations of state and the combining rules used with the vdW-1f theory"  
Georgios M. Kontogeorgis, Philippos Coutsikos, Vassilis I. Harismiadis, Aage Fredenslund and Dimitrios P. Tassios  
**(Out of Print. Replaced by SEP 9444)**

- SEP 9446** "Effect of Precipitation Temperature on the Composition of N-heptane Asphaltenes"  
Simon I. Andersen  
**(Fuel Science and Technology INT'L., 12(1) (1994) 51-74)**
- SEP 9447** "Advanced Control of Chemical Processes"  
Jianping Gong and Rafiqul Gani  
**(Presented at IFAC Symposium, ADCHEM'94, May 25-27, 1994, Kyoto, Japan)**

- SEP 9501** "Instability of Successive Substitution"  
Robert A. Heidemann and Michael L. Michelsen  
**(I&EC Research, 34(3) (1995) 958-966)**
- SEP 9502** "Molecular Structure Based Estimation of Properties for Process Design"  
Rafiqul Gani and Leonidas Constantinou  
**(Presented at 7th International Conference on Fluid Properties and Phase Equilibria for Chemical Process Design, Snowmass, USA, June 1995) (Fluid Phase Equilibria, 116 (1996) 75-86)**
- SEP 9503** "Modeling of Vapor-Liquid-Liquid Equilibria of CO<sub>2</sub> - Crude Oil Mixtures"  
Marianne Jørgensen and Erling H. Stenby  
**(DeHaan, H.J., 1995. New Developments in Improved Oil Recovery, Geological Society Special Publication, No. 84 89-97)**
- SEP 9504** "Miscibility of Polymer Blends with Engineering Models"  
V.I. Harismiadis, A.R.D. van Bergen, A. Saraiva, G.M. Kontogeorgis,, Aa. Fredenslund and D.P. Tassios  
**(AIChE Journal, 42(11) (1996) 3170-3180)**
- SEP 9505** "Application of the van der Waals Equation of State to Polymers IV. Correlation and Prediction of Lower Critical Solution Temperatures for Polymer Solutions"  
Ana Saraiva, Georgios M. Kontogeorgis, Vassilis I. Harismiadis, Aage Fredenslund and Dimitrios P. Tassios  
**(Fluid Phase Equilibria, 115 (1996) 73-93)**
- SEP 9506** "Simulation Design and Analysis of Supercritical Extraction Processes"  
G. Hytoft, L. Coniglio, K. Knudsen and R. Gani  
**(AIChE Symposium Series, 91(304) (1995) 284-289)**
- SEP 9507** "Computer Aided Product Design: Problem Formulations, Methodology and Applications"  
L. Constantinou, K. Bagherpour, R. Gani, J.A. Klein and D.T. Wu  
**(Computers and Chemical Engineering, 20(6/7) (1996) 685-702, (Extended version of SEP 9320)**
- SEP 9508** "An Intergrated Computer Aided System for Integrated Design and Control of Chemical Processes"  
Jian-Ping Gong, Glen Hytoft and Rafiqul Gani  
**(Computers and Chemical Engineering, 19S (1995) 489-494)**
- SEP 9509** "Development and Application of Problem Specific "Local" Process Simulator in CAPE"  
Anne K. Jensen and Rafiqul Gani  
**(Computers and Chemical Engineering, 19S (1995) 311-316)**
- SEP 9510** "Synthesis and Analysis of Processes with Electrolyte Mixtures"  
Kaj Thomsen, Rafiqul Gani and Peter Rasmussen  
**(Computers and Chemical Engineering, 19S (1995) 27-32)**

- SEP 9511** "Correlation and Prediction of Phase Equilibria of Mixtures with Supercritical Compounds for a Class of Equations of State"  
K. Knudsen, L. Coniglio and R. Gani  
**(In "Innovations in Supercritical Fluids", Editors: K.W. Hutchenson and N.R. Foster, ACS Symposium Series 608, Ch. 9 (1995) 140-153)**
- SEP 9512** "An Application of the Group Contribution Approach to Study Biochemical Processes Involving an Organic Phase"  
K. Bagherpour, L. Constantinou, R. Gani and D. Bogle  
**(Presented at AIChE Annual Meeting, San Francisco, November 1994)**
- SEP 9513** "Design and Analysis of Supercritical Extraction Processes"  
R. Gani  
**(Presented in "Energy Efficiency in Industry", Brussels, Belgium, Jan. 10-12, 1995)**
- SEP 9514** "Computer Aided Process Design and Optimization with Novel Separation Units"  
R. Gani  
**(Presented in "Energy Efficiency in Industry", Brussels, Belgium, Jan. 10-12, 1995)**
- SEP 9515** "Solid-Liquid Equilibrium of n-alkanes using the Chain Delta Lattice Parameter Model"  
João A.P. Coutinho, Simon I. Andersen and Erling H. Stenby  
**(Fluid Phase Equilibria, 117 (1996) 138-145)**
- SEP 9516** "Messung der Flüchtigkeit gelöster Stoffe aus wässrigen Lösungen und deren Anwendung auf Wasser-Dampfkreisläufe"  
Jørgen P. Jensen, Donald A. Palmer and J. Michael Simonsen  
**(VGB Kraftwerkstechnik, 75(2) (1995) 152-157)**
- SEP 9517** "Measurements of the Volatilities of Electrolytes: Application to Water/Steam Cycles"  
Donald A. Palmer, J. Michael Simonsen and Jørgen P. Jensen  
**(4. Int. Conf. Cycle Chemistry in Fossil Plants, Atlanta, USA, Sept. 1994)**
- SEP 9518** "Statistical Thermodynamics of Disperse Systems"  
Alexander A. Shapiro  
**(Physica A, 232 (1996) 499-516)**
- SEP 9519** "UNIQUAC Interaction Parameters for Alkane/Amine Systems Determined by Molecular Mechanics"  
Svava Ósk Jónsdóttir, Roger A. Klein and Kjeld Rasmussen  
**(Fluid Phase Equilibria, 115 (1996) 59-72)**

- SEP 9520** "Prediction of supercritical fluid-liquid equilibria for carbon dioxide and fish oil related compounds through the equation of state - excess function (EOS- $g^E$ ) approach"  
Lucio Coniglio, Kim Knudsen and Rafiqul Gani  
**(Presented at FPPECPD, Snowmass, USA, June 1995)**  
**(Fluid Phase Equilibria, 116 (1996) 510-517)**
- SEP 9521** "A Consistent Procedure for Pseudo-Component Delumping"  
Claude Leibovici, Erling H. Stenby and Kim Knudsen  
**(Presented at FPPECPD, Snowmass, USA, June 1995)**  
**(Fluid Phase Equilibria, 117(1-2) (1996) 225-232)**
- SEP 9522** "Some properties of Equation of State Mixing Rules derived from excess Gibbs energy expressions"  
Michael L. Michelsen and Robert A. Heidemann  
**(Ind.Eng.Chem.Res., 35 (1996) 278-287)**
- SEP 9523** "High-Pressure Solubility of Hydrogen in Dimethyl Ether"  
Ari Jónasson, Ole Persson and Peter Rasmussen  
**(Journal of Chemical and Engineering Data, 40 (1995) 1209-1210)**
- SEP 9524** "On the Non Equilibrium Segregation State of a Two-Phase Mixture in a Porous Column"  
Alexander A. Shapiro and Erling H. Stenby  
**(Transport in Porous Media, 23 (1996) 83-106)**
- SEP 9525** "Water and Surfactant Flooding in Low Permeable Chalk Studied by X-ray CT-Scanning"  
Erling H. Stenby, Finn Engstrøm, Marie-Therese Bieber and Torkil O. Hansen  
**(Presented at the Eighth European Symposium on Improved Oil Recovery, 15-17 May 1995, Vienna, Austria)**
- SEP 9526** "A Study of the Phase Behavior of Chlorinated-Styrene Homopolymers and Copolymers Solutions. Part I: Cloud-Point Curves for Polymer/tert-butyl acetate systems"  
Ana Saraiva, Petra Wichern, Ole Persson and Aage Fredenslund  
**(Internal Report)**
- SEP 9527** "A Study of the Phase Behavior of Chlorinated-Styrene Homopolymers and Copolymers Solutions. Part II: Cloud-Point Curves for Polymer/1-chlorobutane systems"  
Ana Saraiva, Gabriele Faralli, Ole Persson and Aage Fredenslund  
**(Internal Report)**
- SEP 9528** "Thermodynamic Models for Asphaltene Solubility and Precipitation"  
Simon I. Andersen and James G. Speight  
**(Internal Report)**

- SEP 9529** "Thermodynamics of Asphaltene Precipitation and Dissolution Investigation of Temperature and Solvent Effects"  
Simon I. Andersen and Erling H. Stenby  
**(Fuel Science and Technology Int'l., 14 (1&2) (1996) 261-287)**
- SEP 9530** "Real-Time Simulation of Complex Distillation Column with Reduced-Order Model"  
Xiao-Guang Zhao and Carsten Aamand  
**(Out of Print)**
- SEP 9531** "Towards the Development of a Second-Order Approximation in Activity Coefficient Models Based on Group Contributions"  
J. Abildskov, L. Constantinou, R. Gani  
**(Fluid Phase Equilibria, 118(1) (1996) 1-12)**
- SEP 9532** "A Local Composition Model for Paraffinic Solid Solutions"  
João A.P. Coutinho, Kim Knudsen, Simon I. Andersen and Erling H. Stenby  
**(Chemical Engineering Science, 51(12) (1996) 3273-3282)**
- SEP 9533** "Phase equilibria by an association model that approaches to an equation of state"  
Søren Gommesen, Kim Knudsen and Erling H. Stenby  
**(Internal Report)**
- SEP 9534** "On the rational interpolation of experimental data"  
Alexander A. Shapiro, João A.P. Coutinho  
**(Internal Report)**
- SEP 9535** "Fast Pona Analysis for Real-Time Application"  
Ke Wei Xu and Carsten Aamand  
**(Internal report)**
- SEP 9536** "Optimization of Pseudo-component Selection for Compositional Studies of Reservoir Fluids"  
Marianne Jørgensen and Erling H. Stenby  
**(Presented at The 70th Annual Conference and Exhibition of Society of Petroleum Engineers, Dallas, Texas, October 22-25, 1995)  
(SPE 30789)**
- SEP 9537** "Predictive local composition models for solid/liquid equilibrium in n-alkane systems: Wilson equation for multicomponent systems"  
João A.P. Coutinho and Erling H. Stenby  
**(I&EC Research, 35(3) (1996) 918-925)**
- SEP 9538** "Statistical description of segregation in a powder mixture"  
Alexander A. Shapiro and Erling H. Stenby  
**(Physica A, 226 (1996) 295-309)**



- SEP 9539** "The MKS-EOS with New Mixing Rules - The MKS/1 Model"  
Kristian Mogensen and Tian-Min Guo  
**(Fluid Phase Equilibria, 112 (1995) 199-215)**
- SEP 9540** "Simulation of the high-pressure phase equilibria of hydrocarbon-water/brine systems"  
You-Xiang Zuo, Erling H. Stenby and Tian-Min Guo  
**(Journal of Petroleum Science and Engineering, 20 (1998) 99-101)**
- SEP 9541** "Calculation of Interfacial Tensions with Gradient Theory.  
You-Xiang Zuo and Erling H. Stenby  
**(Fluid Phase Equilibria, 132 (1997) 139-158)**
- SEP 9542** "Calculation of Interfacial Tensions with Gradient Theory. II. Binary Systems"  
You-Xiang Zuo and Erling H. Stenby  
**(Out of print. Replaced by 9541)**
- SEP 9543** "A Linear Gradient Theory Model for Calculating Interfacial Tensions of Mixtures"  
You-Xiang Zuo and Erling H. Stenby  
**(Journal of Colloid and Interface Science, 182, article no. 0443 (1996) 126-132)**
- SEP 9544** "Prediction of Interfacial Tensions with a Simplified Linear Gradient Theory Model"  
You-Xiang Zuo and Erling H. Stenby  
**(Internal Report)**
- SEP 9545** "Heat of wetting (hydration) of xanthan as determined by calorimetry"  
S.I. Andersen, K.S. Birdi, W. Kleinitz and W. Littmann  
**(Carbohydrate Polymers, 26 (1995) 299-301)**
- SEP 9546** "Matching Equation of State Mixing Rules to Activity Coefficient Model Expressions"  
Michael L. Michelsen  
**(Fluid Phase Equilibria, 121 (1996) 15-26)**
- SEP 9547** "Reactive Separation Systems I: Computation of Physical and Chemical Equilibrium"  
Eduardo Perez-Cisneros, Michael L. Michelsen and Rafiqul Gani  
**(Chem.Eng.Sci., 52(4) (1997) 527-543)**
- SEP 9548** "On the temperature calibration of a thermo-optical apparatus"  
**Appendix** "Ana Saraiva and Ole Persson  
**to SEP 9310** Letter to the Editor  
**(Fluid Phase Equilibria, 112 (1995) 163-165)**

**SEP 9549**

“Real-Time Simulation of Real Distillation Columns with Reduced-Order Model”  
Xiao-Guang Zhao and Carsten Aamand  
**(Internal Report)**

- SEP 9601** “Real-Time Simulation of Industrial Distillation Columns in Petroleum Refining”  
Xiao-Guang Zhao and Carsten Aamand  
**(Internal Report)**
- SEP 9602** “Variation in Composition of Subfractions of Petroleum Asphaltenes”  
Simon Ivar Andersen, Andreas Keul and Erling Stenby  
**(Petroleum Science and Technology, 15(7&8) 611-645 (1997))**
- SEP 9603** “Separation of Asphaltenes by Polarity using Liquid-Liquid Extraction”  
Simon Ivar Andersen  
**(Petroleum, Science and Technology, 15 (1997) 185)**
- SEP 9604** “Correlation and Prediction of Thermal Properties and Phase Behaviour for a Class of Aqueous Electrolyte Systems”  
Kaj Thomsen, Peter Rasmussen and Rafiqul Gani  
**(Chemical Engineering Science, 51 (1996) 3675-3683)**
- SEP 9605** “Aspects of Modeling, Design and Operation of Membrane-Based Separation Processes for Gaseous Mixtures”  
Stefan Tessorf, Rafiqul Gani and Michael L. Michelsen  
**(Computers and Chem.Eng., 20 (1996) 653-658)**  
**(Presented at ESCAPE-6, May 27-30, 1996, Greece)**
- SEP 9606** “An Integrated Approach to Process/Product Design and Synthesis Based on Properties-Process Relationship”  
Cecilia Jakslund and Rafiqul Gani  
**(Computer and Chem.Eng., 20 (1996) 150-156)**  
**(Presented at ESCAPE-6, May 27-30, 1996, Greece)**
- SEP 9607** “Aspects of Simulation, Design and Analysis of Reactive Distillation Operations”  
Eduardo Perez-Cisneros, Myrian Schenk and Rafiqul Gani  
**(Computer and Chem.Eng., 20 (1996) 267-272)**  
**(Presented at ESCAPE-6, May 27-30, 1996, Greece)**
- SEP 9608** “A Computer Aided System for Generation of Problem Specific Process Models”  
Anne Krogh Jensen and Rafiqul Gani  
**(Computer and Chem.Eng., 20 (1996) 145-150)**  
**(Presented at ESCAPE-6, May 27-30, 1996, Greece)**
- SEP 9609** “Effect of Precipitation Temperature on the Composition of N-Heptane Asphaltenes, Part 2”  
Simon Ivar Andersen  
**(Fuel Science and Technology Int'l., 13(5) (1995) 579-604)**

- SEP 9610** “Calculation of Surface Tensions of Polar Mixtures with a Simplified Gradient Theory Model”  
You-Xiang Zuo and Erling H. Stenby  
**(Journal of Chemical Engineering of Japan, 29(1) (1996) 159-165)**
- SEP 9611** “Calculation of Interfacial Tensions of Hydrocarbon-Water Systems under Reservoir Conditions”  
You-Xiang Zuo and Erling H. Stenby  
**(In Situ, 22(2) (1998) 157-180)**
- SEP 9612** “Prediction of Interfacial Tensions of Reservoir Crude Oil and Gas Condensate Systems”  
You-Xiang Zuo and Erling H. Stenby  
**(SPE 38434, 134-146)**
- SEP 9613** “Optimal Design and Controllability Assessment for Plant-Wide Benchmarks”  
Daniel R. Lewin, Jian-Ping Gong and Rafiqul Gani  
**(Presented at IFAC’96 World Congress, June 30 - July 5, 1996, San Francisco, USA) (IFAC’96 World Congress Proceedings, IFAC Publications, USA, 1996)**
- SEP 9614** “Process Synthesis and Simulation Strategies for Integrated Biochemical Process Design”  
P.P.C. Wal, I.D.L. Bogle, Khosrow Bagherpour and Rafiqul Gani  
**(Computers and Chemical Engineering, 20 (1996) 357-362)**  
**(Presented at ESCAPE-6, May 26 - 29, 1996, Greece)**
- SEP 9615** “Simulation of Immiscible Displacement Using a Dynamic Network Model Accounting for Capillary Pressure and Snap-Off”  
Kristian Mogensen and Erling H. Stenby  
**(Internal Report)**
- SEP 9616** “Dynamically Induced Interfacial Resistance Pressure”  
Kristian Mogensen and Erling H. Stenby  
**(Internal Report)**
- SEP 9617** “Modelling Heat Capacities and Speed of Sound with Equations of State”  
Kim Knudsen and Erling H. Stenby  
**(Internal Report)**
- SEP 9618** “UNIQUAC interaction parameters for molecules with -OH groups on adjacent carbon atoms in aqueous solution determined by molecular mechanics - glycols, glycerol and glucose”  
Svava Ósk Jónsdóttir and Roger A. Klein  
**(Fluid Phase Equilibria, 132 (1997) 117-137)**
- SEP 9619** “A New Technique for Measuring Gas Hydrate Kinetics”  
Martin Bylov and Peter Rasmussen  
**(Presented at the 2nd International Conference on Natural Gas Hydrates, Toulouse, France, June 2-6, 1996)**

- SEP 9620** “Kelvin equation for a non-ideal multicomponent mixture”  
Alexander A. Shapiro and Erling H. Stenby  
**(Fluid Phase Equilibria, 134 (1997) 87-101)**
- SEP 9621** “PVT behavior of reservoir fluids over a wide range of temperatures”  
Kim Knudsen and Erling H. Stenby  
**(Internal Report)**
- SEP 9622** “Two-Phase Segregation in a Thick Reservoir”  
Alexander A. Shapiro and Erling H. Stenby  
**(Presented at the 5th European Conference on the Mathematics of Oil Recovery, Leoben, Austria, September 3-6, 1996)**
- SEP 9623** “Calculation of SLV and SL Equilibria in High Pressure Hydrocarbon Model Mixtures, Using the Wilson Equation”  
Niels Lindeloff, Erling H. Stenby, Kim Knudsen and Jean Luc Daridon  
**(Presented at CHISA '96, Praha, Czech Republic, August 25-30, 1996)**
- SEP 9624** “Distribution of Polarity of Alaska '93 Crude Oil and Asphaltenes”  
Simon I. Andersen and Erling H. Stenby  
**(Presented at 4th International Symposium on Evaluation of Reservoir Wettability and its Effect on Oil Recovery, Montpellier, France, September 11-13, 1996)**
- SEP 9625** “Application of a Delumping Procedure to Compositional Reservoir Simulations”  
E.H. Stenby, J.R. Christensen, K. Knudsen and C. Leibovici  
**(Presented at the SPE Annual Technical Conference, October 6-9, 1996, Denver, USA) (SPE 36744 (1996))**
- SEP 9626** “Effect of Wettability on the Electrical Properties of Reservoir Rocks”  
Dengen Zhou, Sepehr Arbabi and Erling H. Stenby  
**(Presented at the 1996 International Symposium of the Society of Core Analysts: "Improving Reservoir Management", September 8-10, 1996, Montpellier, France)**
- SEP 9627** “Effects of Capillary Forces and Adsorption on Reserves Distribution”  
Alexander A. Shapiro and Erling H. Stenby  
**(SPE 36922)**  
**(Presented at EUROPEC '96, October 22-24, 1996, Milan, Italy)**
- SEP 9628** “Simulation of Flow Behavior of Gas Condensate at Low Interfacial Tension”  
Peng Wang, Erling H. Stenby, Gary A. Pope and Kamy Sepehrnoori  
**(In Situ, 20(2) (1996) 199-219)**
- SEP 9629** “A Simplified Confined-Chain Model for AB Diblock Copolymers”  
Eduardo Pretel, Angélique Rasmussen, Peter Rasmussen and John Holten-Andersen  
**(Macromolecules, 30(9) (1997) 2775-2784)**

- SEP 9630** “Densities and Kinematic Viscosities for the Systems Benzene + Methyl Formate, Benzene + Ethyl Formate, Benzene + Propyl Formate, and Benzene + Butyl Formate”  
Uwe Emmerling, Günter Figurski and Peter Rasmussen  
**(Journal of Chemical & Engineering Data, 43(3) (1998) 289-292)**
- SEP 9631** “Application of the Group-Contribution Methods to Polymer Solution Thermodynamics. Vapor-Liquid Equilibria”  
G. Bogdanic and Aa. Fredenslund  
**(Group-Contribution Methods, Kem. Ind., 44(10) (1995) 415-427)**
- SEP 9632** “A Group Contribution Method for the Prediction of Glass Transition Temperatures of Amorphous Polymers”  
J. Abildskov, R. Gani, L. Constantinou and J.P. O’Connell  
**(Internal Report)**
- SEP 9633** “Modelling and Simulation of Reactive Distillation Operations”  
P.A. Pilavachi, M. Schenk, E. Perez-Cisneros and R. Gani  
**(Internal Report)**
- SEP 9634** “An Integrated Computer Aided System for Integrated Design of Chemical Processes”  
Rafiqul Gani, Glen Hytoft, Cecilia Jakslund and Anne K. Jensen  
**(Computers and Chemical Engineering, 21(10) (1997) 1135-1146)**
- SEP 9635** “An Efficient Initialisation Procedure for Large Distillation Simulation Problems”  
Pierre Rabeau, Rafiqul Gani and Claude Leibovici  
**(Internal Report)**
- SEP 9636** “The Effect of Impurities on Ethane Hydrate Induction Times”  
Martin Bylov and Peter Rasmussen  
**(Presented at ACS 213th National Meeting and Exposition, April 13-17, 1997, San Francisco, CA, USA)**

- SEP 9701** “Potential Theory of Multicomponent Adsorption. Analytical Study”  
Alexander A. Shapiro and Erling H. Stenby  
**(Internal Report)**
- SEP 9702** “Experimental Determination of Refractive Index of Gas Hydrates”  
Martin Bylov and Peter Rasmussen  
**(Chemical Engineering Science, 52 (1997) 3295-3301)**
- SEP 9703** “An Efficient Initialization Procedure for Simulation and Optimization of Large Distillation Problems”  
Pierre Rabeau, Rafiqul Gani and Claude Leibovici  
**(I&EC Research, 36(10) (1997) 4291-4298)**
- SEP 9704** “An Integrated Computer-Aided Approach for Environmental Studies”  
Rafiqul Gani, Fei Chen, Cecilia Jakssland, Peter Harper and Martin Hostrup  
**(QSAR in Environmental Sciences - VII, March 1997)**
- SEP 9705** “Vapor-liquid equilibria of polymer solutions determined by molecular mechanics”  
Svava Ósk Jónsdóttir, Kjeld Rasmussen, Peter Rasmussen and William J. Welsh  
**(Computational and Theoretical Polymer Science, 8(1/2) (1998) 75-81)**
- SEP 9706** “Simulation and Optimization of Fractional Crystallization Processes”  
Kaj Thomsen, Peter Rasmussen and Rafiqul Gani  
**(Chemical Engineering Science, 53(8) (1998) 1551-1564)**
- SEP 9707** “Investigation of Asphaltene Precipitation at Elevated Temperature”  
Simon I. Andersen, Niels Lindeloff and Erling H. Stenby  
**(Petroleum Science and Technology, 16(3-4) (1998) 323-334)**
- SEP 9708** “Asphaltene Precipitates in Oil Production Wells”  
Wolfram Kleinitz and Simon I. Andersen  
**(Presented at the Symposium on Oil Field Chemistry, Gailo, Norway, March 1997)**
- SEP 9709** “Potential Theory of Multicomponent Adsorption”  
Alexander A. Shapiro and Erling H. Stenby  
**(Journal of Colloid and Interface Science, 201 (1998) 146-157)**
- SEP 9710** “Measurement of Phase Behavior of Hydrocarbon Mixtures Using Fiber Optical Detection Techniques”  
Abhijit Dandekar and Erling H. Stenby  
**(SPE 38845)**
- SEP 9711** “A Thermodynamic Mixed-Solid Asphaltene Precipitation Model”  
Niels Lindeloff, Robert A. Heidemann, Simon I. Andersen and Erling H. Stenby  
**(Petroleum Science and Technology, 16(3-4) (1998) 307-322)**

- SEP 9712** “Phase equilibria of microemulsion forming system n-decyl- $\beta$ -D-glucopyranoside/ water/ n-octane/ 1-butanol”  
Heike Kahl, Konrad Quitzsch and Erling H. Stenby  
**(Fluid Phase Equilibria, 139 (1997) 295-309)**
- SEP 9713** “Speeding up the Two-Phase PT-flash, with Applications for Calculation of Miscible Displacement”  
Michael L. Michelsen  
**(Fluid Phase Equilibria, 143 (1998) 1-12)**
- SEP 9714** “Prediction of Gas Hydrate Formation Conditions in Aqueous Solutions of Single and Mixed Electrolytes”  
You-Xiang Zuo and Erling H. Stenby  
**(SPE 31048, 2 (1997) 406-416)**
- SEP 9715** “Measurement of Viscosity of Hydrocarbon Liquids Using a Microviscometer”  
Abhijit Y. Dandekar, Simon I. Andersen and Erling H. Stenby  
**(Journal of Chemical and Engineering Data, 43(4) (1998) 551-554)**
- SEP 9716** “Simulation of Two-Phase Immiscible Displacement Using a Dynamic Network Model that Accounts for Crevice Flow and Ganglion Dynamics”  
Kristian Mogensen and Erling H. Stenby  
**(Presented at the 17th IEA Workshop and Symposium on EOR, Sydney, Australia, October 1996)**
- SEP 9717** “A Dynamic Two-Phase Pore-Scale Model of Imbibition”  
Kristian Mogensen and Erling H. Stenby  
**(Presented at the 18th IEA Workshop and Symposium on EOR, Copenhagen, September 1997)**  
**(Transport in Porous Media, 32 (1998) 299-327)**
- SEP 9718** “A Percolation Study of Wettability Effect on the Electrical Properties of Reservoir Rocks”  
Dengen Zhou, Sepehr Arbabi and Erling H. Stenby  
**(Transport in Porous Media, 29 (1997) 85-98)**
- SEP 9719** “Analysis of Multicomponent Adsorption Close to a Dew Point”  
Alexander A. Shapiro and Erling H. Stenby  
**(Journal of Colloid & Interface Science, 206 (1998) 546-557)**
- SEP 9720** “Modeling, simulation and optimization of membrane-based gas separation systems”  
S. Tessendorf, M.L. Michelsen and R. Gani  
**(Chemical Engineering Science, 54 (1999) 943-955)**
- SEP 9721** “Corresponding-States Parachor Models for the Calculation of Interfacial Tensions”  
Y-X. Zuo and E.H. Stenby  
**(The Canadian Journal of Chemical Engineering, 75 (1997) 1130-1137)**



- SEP 9722**      “Method for Estimating Critical Properties of Heavy Compounds Suitable  
**(Corresponds**    for Cubic Equations of State and Its Application to the Prediction of Vapor  
**to SEP 9329)**    Pressures”  
Georgios M. Kontogeorgis, Ioannis Smirlis, Iakovos V. Yakoumis, Vassilis  
Harismiadis, and Dimitrios P. Tassios  
**(Ind. Eng. Chem. Res., 36 (1997) 4008-4012)**
- SEP 9723**      “Analysis of Seed Oil from *Ricinus communis* and *Dimorphoteca pluvialis*  
by Gas and Supercritical Fluid Chromatography”  
Christina Borch-Jensen, Benny Jensen, Kim Mathiasen and Jørgen  
Møllerup  
**(JAOCS, 74(3) (1997) 277-284)**

- SEP 9801** “Review of WAG Field Experience”  
J.R. Christensen, E.H. Stenby and A. Skauge  
**(SPE 39883)**
- SEP 9802** “Compositional and Relative Permeability Hysteresis Effects on Near-Miscible WAG”  
J.R. Christensen, E.H. Stenby and A. Skauge  
**(SPE 39627)**
- SEP 9803** “Calculation of Minimum Miscibility Pressure (MMP) with a Combined Mechanism. Final Report.”  
L. Bleriot, E.H. Stenby, B. Faissat and F. Montel  
**(Internal Report)**
- SEP 9804** “State function based flash specifications”  
M.L. Michelsen  
**(Presented at the Eighth International conference on Properties and Phase Equilibria for Product and Process Design, April 26-May 1, 1998, Noordwijkerhout, The Netherlands)**  
**(Fluid Phase Equilibria 158-160 (1999) 617-626)**
- SEP 9805** “Nonequilibrium Segregation in Petroleum Reservoirs”  
Alexander A. Shapiro and Erling H. Stenby  
**(Presented at the IMT3 Third International Meeting on Thermodiffusion, Mons, Belgium, August 31-September 4, 1998)**  
**(Entropie, 217 (1999) 55-60)**
- SEP 9806** “High Pressure Multicomponent Adsorption in Porous Media”  
Alexander A. Shapiro and Erling H. Stenby  
**(Presented at the Eighth International conference on Properties and Phase Equilibria for Product and Process Design, April 26-May 1, 1998, Noordwijkerhout, The Netherlands)**  
**(Fluid Phase Equilibria, 158-160 (1999) 565-573)**
- SEP 9807** “Phase equilibria of carbohydrates in polar solvents”  
Svava Ósk Jónsdóttir and Peter Rasmussen  
**(Presented at the Eighth International conference on Properties and Phase Equilibria for Product and Process Design, April 26-May 1, 1998, Noordwijkerhout, The Netherlands)**  
**(Fluid Phase Equilibria, 158-160 (1999) 411-418)**
- SEP 9808** “Asphaltene Analysis by Flocculation Titration-Fundamental Relations and Applications”  
Simon I. Andersen  
**(Presented at the Eighth International conference on Properties and Phase Equilibria for Product and Process Design, April 26-May 1, 1998, Noordwijkerhout, The Netherlands)**

- SEP 9809** “Unification of the Two-Parameter Equation of State and the Principle of Corresponding States”  
Jørgen Møllerup  
**(Fluid Phase Equilibria, 148 (1998) 1-19)**
- SEP 9810** “Vapor-Liquid Equilibria of Systems Containing Acetic Acid and Gaseous Components. Measurements and Calculations by a Cubic Equation of State”  
Ari Jónasson, Ole Persson, Peter Rasmussen and Giorgio S. Soave  
**(Fluid Phase Equilibria, 152 (1998) 67-94)**
- SEP 9811** “Global Approach for Calculation of Minimum Miscibility Pressure”  
Kristian Jessen, Michael L. Michelsen and Erling H. Stenby  
**(Fluid Phase Equilibria, 153 (1998) 251-263)**
- SEP 9812** “A Dynamic Pore-Scale Model of Imbibition”  
Kristian Mogensén and Erling H. Stenby  
**(Presented at SPE/DOE 11th Symposium on IOR, Tulsa, Oklahoma, 19-22 April, 1998)  
(SPE 39658)**
- SEP 9813** “Comparison of Iterative Methods for Computing the Pressure Field in a Dynamic Network Model”  
Kristian Mogensén, Erling H. Stenby, Srilekha Banerjee and Vincent A. Barker  
**(Transport in Porous Media, 37(3) (1999) 277-301)**
- SEP 9814** “A Dynamic Two-Phase Pore-Scale Model of Imbibition”  
Kristian Mogensén and Erling H. Stenby  
**(Transport in Porous Media, 32 (1998) 299-327)**
- SEP 9815** “Beyond Basic UNIFAC”  
Jens Abildskov, Rafiqul Gani and Peter Rasmussen  
**(Presented at the Eighth International conference on Properties and Phase Equilibria for Product and Process Design, April 26-May 1, 1998, Noordwijkerhout, The Netherlands)  
(Fluid Phase Equilibria, 158-160 (1999) 349-356)**
- SEP 9816** “Prediction of Hydrate Equilibrium Conditions in the Presence of Methanol and Salts Simultaneously”  
You-Xiang Zuo and Erling H. Stenby  
**(Out of Print. Replaced by SEP 0026)**
- SEP 9817** “Asphaltene Precipitates in Oil Production Wells”  
W. Kleinitz and S.I. Andersen  
**(Oil Gas - European Magazine, 1/1998)**
- SEP 9818** “The critical role of force-fields in property prediction”  
Svava Ósk Jónsdóttir, William J. Welsh, Kjeld Rasmussen and Roger A. Klein  
**(New J. of Chem., 023(2) (1999) 153-164)**

- SEP 9819** “Effective Algorithm for Calculation of Minimum Miscibility Pressure”  
Kristian Jessen, Michael L. Michelsen and Erling H. Stenby  
**(Presented at the 1998 SPE European Petroleum Conference, The Hague, The Netherlands, 20-22 October 1998)**  
**(SPE 50632)**
- SEP 9820** “Statistical Thermodynamics of a Spontaneously Cooled Granular Medium”  
Alexander A. Shapiro and Erling H. Stenby  
**(Internal Report)**
- SEP 9821** “Modeling of vapor-liquid-solid equilibrium in gas-aqueous electrolyte systems”  
Kaj Thomsen and Peter Rasmussen  
**(Chemical Engineering Science, 54 (1999) 1787-1802)**
- SEP 9822** “Flocculation Onset Titration of Petroleum Asphaltenes”  
Simon I. Andersen  
**(Energy & Fuels, 13(2) (1999) 315-322)**
- SEP 9823** “Predicting the Melting Points and the Enthalpies of Fusion of Saturated Triglycerides by a Group Contribution Method”  
Claus K. Zéberg-Mikkelsen and Erling H. Stenby  
**(Fluid Phase Equilibria, 162 (1999) 7-17)**
- SEP 9824** “Phase-Boundary Calculations in Systems Involving More than Two Phases, with Application to Hydrocarbon Mixtures”  
Niels Lindeloff, Robert A. Heidemann, Simon I. Andersen and Erling H. Stenby  
**(Industrial & Engineering Chemistry Research, 38(3)(1999)1107-1113)**

- SEP 9901** “Changes in Asphaltene Stability During Hydrotreating”  
Jesper Bartholdy and Simon I. Andersen  
**(Energy & Fuels, 14(1) (2000) 52-55)**
- SEP 9902** “Dielectric Properties of Asphaltenes and Oils”  
Carsten Pedersen and Simon I. Andersen  
**(Paper for AIChE National Spring Meeting, March 14-18, 1999, Houston, Texas) (Proceedings)**
- SEP 9903** “Solid Organic Deposition During Gas Injection Studies - Part I”  
Abhijit Y. Dandekar, Simon I. Andersen and Erling H. Stenby  
**(Paper for AIChE National Spring Meeting, March 14-18, 1999, Houston, Texas) (Proceedings)**  
**(Pet.Sci.Tech. 18, (2000) 975)**
- SEP 9904** “The Critical Micelle Concentration of Asphaltenes as Measured by Calorimetry”  
Simon I. Andersen and Steen D. Christensen  
**(Energy & Fuels, 14(1)(2000) 38-43)**
- SEP 9905** “Thermodynamics of Asphaltene Stability by Flocculation Titration”  
Simon I. Andersen and Carsten Pedersen  
**(Paper for AIChE National Spring Meeting, March 14-18, 1999, Houston, Texas) (Proceedings)**
- SEP 9906** “High Pressure Wax Formation”  
N. Lindeloff, J. Pauly, S.I. Andersen, J-L. Daridon and E.H. Stenby  
**(Paper for AIChE National Spring Meeting, March 14-18, 1999, Houston, Texas) (Proceedings)**
- SEP 9907** “Solid Organic Deposition from a Gas Condensate Field”  
Simon I. Andersen and Klaus Potsch  
**(Paper for AIChE National Spring Meeting, March 14-18, 1999, Houston, Texas) (Proceedings)**
- SEP 9908** “Application of the Two-Film Theory to the Determination of Mass Transfer Coefficients for Bovine Serum Albumin on Anion-Exchange Columns”  
Ernst Hansen and Jørgen Mollerup  
**(Journal of Chromatography A, 827 (1998) 259-267)**
- SEP 9909** “Overall Mass-Transfer Coefficients in Non-Linear Chromatography”  
Jørgen Mollerup and Ernst Hansen  
**(Journal of Chromatography A, 827 (1998) 235-239)**
- SEP 9910** “Factorization of Transport Coefficients in Macroporous Media”  
Alexander A. Shapiro and Erling H. Stenby  
**(Transport in Porous Media 41 (2000) 305-323)**

- SEP 9911** “Thermodynamics of the Multicomponent Vapor-liquid Equilibrium under Capillary Pressure Difference”  
Alexander A. Shapiro and Erling H. Stenby  
**(Fluid Phase Equilibria, 178 (2001) 17-32)**
- SEP 9912** “Vapor-Liquid-Solid Equilibria of Sulfur Dioxide in Aqueous Electrolyte Solutions”  
S. Pereda, K. Thomsen and P. Rasmussen  
**(Chemical Engineering Science, 55 (2000) 2663-2671)**
- SEP 9913** “Extended UNIQUAC model for correlation and prediction of vapour-liquid-solid equilibria in aqueous salt systems containing non-electrolytes. Part A. Methanol - water - salt systems  
Maria Iliuta, Kaj Thomsen and Peter Rasmussen  
**(Chemical Engineering Science, 55(14) (2000) 2673-2686)**
- SEP 9914** “Prediction of Activity Coefficients in Aqueous Mixed Electrolyte Solutions”  
Jørgen Peter Jensen and Peter Rasmussen (“Steam Water and Hydrothermal Systems: Physics and Chemistry Meeting the Needs of Industry”)  
**(Proceedings of the 13<sup>th</sup> International Conference on the Properties of Water and Steam, Editors P.G. Hill, P. Tremaine, D. Irish, and P.V. Balakrishnan, NRC Press, Ottawa (2000) 645-652)**
- SEP 9915** “Thermodynamic Model for the Ammonia-Water System”  
K. Thomsen and P. Rasmussen (“Steam Water and Hydrothermal Systems: Physics and Chemistry Meeting the Needs of Industry”)  
**(Proceedings of the 13<sup>th</sup> International Conference on the Properties of Water and Steam, Editors P.G. Hill, P. Tremaine, D. Irish, and P.V. Balakrishnan, NRC Press, Ottawa (2000) 118-125)**
- SEP 9916** “Correlation and Prediction of Vapour-Liquid-Solid Equilibria in Mixed Solvent-Electrolyte Systems Using the Extended UNIQUAC”.  
Maria C. Iliuta, Kaj Thomsen and Peter Rasmussen  
**(Presented at the 11<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering, September 30 - October 2, 1999, Bucharest, Romania)**
- SEP 9917** “Solid Organic Deposition During Gas Injection Studies - Part II”  
Abhijit Y. Dandekar, Simon I Andersen and Erling H. Stenby.  
**(Presented at the 20<sup>th</sup> Annual Workshop and Symposium on Collaborative Project and Enhanced Oil Recovery. International Energy Agency, September 21 - 24, 1999, Paris, France)**
- SEP 9918** “Fast, Approximate Solutions for 1D Multicomponent Gas Injection Problems”  
Kristian Jessen, Yun Wang, Pavel Ermakov, Jichun Zhu, and Franklin M. Orr Jr.  
**(SPE Journal, 6 (4) (2001) 442-451)**  
**(Presented at the 20<sup>th</sup> Annual Workshop and Symposium on Collaborative Project and Enhanced Oil Recovery. International Energy Agency, September 21 - 24, 1999, Paris, France)**

- SEP 9919** “Vapor-Liquid Equilibria of Systems Containing Dichloromethane and Gaseous Components”  
Ari Jónasson, Ole Persson and Peter Rasmussen  
**(Journal of Chemical and Engineering Data 45 (2000) 642-646)**
- SEP 9920** “The Friction Theory (*f-theory*) for Viscosity Modeling”  
Sergio E. Quiñones-Cisneros, Claus K. Zéberg-Mikkelsen and Erling H. Stenby  
**(Fluid Phase Equilibria 169(2) (2000) 249-276)**
- SEP 9921** “Phase equilibria of long-chain polyunsaturated fish oil fatty acid ethyl esters and carbon dioxide, ethane, or ethylene at reduced gas temperatures of 1.03 and 1.13”  
Christina Borch-Jensen and Jørgen Møllerup.  
**(Fluid Phase Equilibria 161 (1999) 169-189)**
- SEP 9922** “Modeling of Salt Solubilities in Mixed Solvents”  
O. Chiavone-Filho and P. Rasmussen  
**(Brazilian Journal of Chemical Engineering, 17 (2000) 117-131)**
- SEP 9923** “The Extended UNIQUAC Model and its Application to SLE and VLE of Aqueous Electrolyte Solutions”  
Kaj Thomsen and Peter Rasmussen.  
**(Presented at the 11<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering, September 30 - October 2, 1999, Bucharest, Romania)**
- SEP 9924** “Determination of methyl tertiary butyl ether (MTBE) in gasoline by Raman spectroscopy”  
S. Brunsgaard Hansen, R.W. Berg, E.H. Stenby  
**(Asian Chem. Letters, 4, (2000) 65-74)**
- SEP 9925** “General Form of the Cross-Energy Parameter of Equations of State”  
Joao A.P. Coutinho, Panayiotis M. Vlamos and Georgios M. Kontogeorgis  
**(Industrial & Engineering Chemistry Research 39 (2000) 3076-3082)**

- SEP 0001** “Isothermal gravitational segregation: Algorithms and Specification”  
Snorri Halldórsson and Erling H. Stenby  
**(Fluid Phase Equilibria, 175 (2000) 175-183)**
- SEP 0002** “Models for Surfactant Systems”  
H.Y. Cheng, G.M. Kontogeorgis and E.H. Stenby  
**(Internal Report)**
- SEP 0003** “Modeling and Simulation of Nitrogen Injection in a Naturally Fractured Reservoir”  
Sigurd í Jákupsstovu, Sergio E. Quiñones-Cisneros and Erling H. Stenby  
**(Presented at the 2000 SPE International Petroleum Conference and Exhibition in Mexico, Villahermosa, Mexico, February 1-3 2000)**  
**(SPE 59008)**
- SEP 0004** “Recommended Viscosity Data and Models: n-Alkanes”  
Claus Zeberg-Mikkelsen, Sergio E. Quiñones-Cisneros and Erling H. Stenby  
**(EVIDENT report)**
- SEP 0005** “One Parameter Friction Theory Models for Viscosity”  
Sergio E. Quiñones-Cisneros, Claus K. Zeberg-Mikkelsen and Erling H. Stenby  
**(Fluid Phase Equilibria 178(1-2) (2001) 1-16)**
- SEP 0006** “Accurate Density and Viscosity Modeling of Nonpolar Fluids Based on the “*f-theory*” and Noncubic Equation of State”  
Sergio E. Quiñones-Cisneros, Claus K. Zeberg-Mikkelsen and Erling H. Stenby  
**(Presented at the 14<sup>th</sup> Symposium on Thermophysical Properties, Boulder, Colorado, USA, June 25-30, 2000)**  
**(Int. J. of Thermophys. 23(1) (2002) 41-55)**
- SEP 0007** “Compositional Analysis of North Sea Oils”  
Abhijit Y. Dandekar, Simon I. Andersen and Erling H. Stenby  
**(Petroleum Science and Technology, 18(7&8) (2000) 975-988)**
- SEP 0008** “Measurement of Phase Boundaries of Hydrocarbon Mixtures Using Fiber Optical Detection Techniques”  
Abhijit Y. Dandekar and Erling H. Stenby  
**(Industrial & Engineering Chemistry Research, 39(7) (2000) 2586-2591)**
- SEP 0009** “Solid Organic Deposition During Gas Injection Studies”  
Abhijit Y. Dandekar, Simon I. Andersen and Erling H. Stenby  
**(Petroleum Science and Technology, 18(9-10) (2000) 1209-1229)**



- SEP 0010** “Application of Group Contribution Models to the Calculation of the Octanol-Water Partition Coefficient”  
Samer O. Derawi, Georgios M. Kontogeorgis, Erling H. Stenby  
**(Industrial & Engineering Chemistry Research, 40 (2001) 434-443)**
- SEP 0011** “The Mystery of the Van der Waals Equation”  
Kontogeorgis, G.M., and Coutsikos, Ph.  
**(Internal Report)**
- SEP 0012** “Heat Treatment in the Manufacture of Pitch Produced from Blends of Tars of Petroleum and Coal Origin”  
B.E. Hansen, O. Malmros, N.R. Turner, E.H. Stenby, Simon I. Andersen  
**(Presented at the EUROCARBON 2000, 1<sup>st</sup> World Conference on Carbon, 9-13 July 2000)**
- SEP 0013** “High-Pressure Measuring Cell for Raman Spectroscopic Studies of Natural Gas”  
S. Brunsgaard Hansen, R.W. Berg and E.H. Stenby  
**(Appl. Spectrosc., 55(1) (2001) 55-60)**
- SEP 0014** “Multicomponent Adsorption. Approaches to Modeling Adsorption Equilibria”  
Alexander A. Shapiro and Erling H. Stenby  
**(Encyclopedia of Surface and Colloid Science, Second Edition; Taylor & Francis: New York, 5, (2006) 4180-4189)**
- SEP 0015** “Raman Spectroscopic Studies of Methane-Ethane Mixtures as a Function of Pressure”  
S. Brunsgaard Hansen, R.W. Berg and E.H. Stenby  
**(Appl. Spectrosc. 55(6) (2001) 745-749)**
- SEP 0016** “Effect of Low Permeable Porous Media on Behavior of Gas Condensates”  
A.A. Shapiro, K. Potsch, J.G. Kristensen, E.H. Stenby  
**(Presented at the SPE European Petroleum Conference in Paris, France, October 24-25, 2000)**  
**(SPE 65182)**
- SEP 0017** “Modeling of Characterized Oils Viscosity with the One Parameter Friction Theory Models”  
S.E. Quiñones-Cisneros, C.K. Zéberg-Mikkelsen and E.H. Stenby  
**(Presented at the 21<sup>st</sup> Annual Workshop and Symposium, Collaborative Project on Enhanced Oil Recovery, International Energy Agency, 19-22 September 2000, Edinburgh, Scotland)**
- SEP 0018** “Analysis of Infinite Dilution Activity Coefficients of Solutes in Hydrocarbons from UNIFAC”  
J. Abildskov, R. Gani, P. Rasmussen, J.P. O’Connell  
**(Fluid Phase Equilibria 181 (2001) 163-186)**

- SEP 0019** “Diagonal Non-equilibrium Thermodynamics and Modeling Transport Coefficients”  
A.A. Shapiro and E.H. Stenby  
**(Presented at the IMT4 meeting, Bayreuth, Germany, September 11-16, 2000)**  
**(Lecture Notes on Physics 584, W. Köhler and S. Wiegand (Eds.), Springer-Verlag, Heidelberg, 2001 61-74)**
- SEP 0020** “High-Pressure Vapor-Liquid Equilibria in the Systems: nitrogen + dimethyl ether, methanol + dimethyl ether, carbon dioxide + dimethyl ether + methanol, and nitrogen + dimethyl ether + methanol”  
M. Teodorescu and P. Rasmussen  
**(Journal of Chemical and Engineering Data, 46(3) (2001) 640-646)**
- SEP 0021** “Three-Dimensional Compositional Simulation: Streamline Methods and Analytical Solutions for One-Dimensional Flow”  
P. Ermakov, K. Jessen, J. Zhu and F.M. Orr, Jr.  
**(Presented at the 21<sup>st</sup> Annual Workshop & Symposium, Collaborative Project on Enhanced Oil Recovery, International Energy Agency, Edinburgh, Scotland, September 19-22, 2000)**
- SEP 0022** “Effects of Numerical Dispersion in FD Simulation of 1D Gas Injection Problems”  
K. Jessen and E.H. Stenby  
**(Presented at the 21<sup>st</sup> Annual Workshop & Symposium, Collaborative Project on Enhanced Oil Recovery, International Energy Agency, Edinburgh, Scotland, September 19-22, 2000)**
- SEP 0023** “Physical Properties from Association Models”  
Michael L. Michelsen and Eric M. Hendriks  
**(Fluid Phase Equilibria, 180 (2001) 165-174)**
- SEP 0024** “Low Temperature Treatment of Petroleum Tar in the Production of Anode Binder Pitch”  
B.E. Hansen, O. Malmros, N.R. Turner, E.H. Stenby and S.I. Andersen  
**(Presented at the 2<sup>nd</sup> International Conference on Petroleum and Gas Phase Behaviour, Copenhagen, August 28-31, 2000)**
- SEP 0025** “Thermodynamics of Paint Related Systems with Engineering Models”  
Thomas Lindvig, Michael L. Michelsen and Georgios Kontogeorgis  
**(AIChE J. 47 (11) (2001) 2573-2584)**
- SEP 0026** “A Thermodynamic Model for Gas Hydrates in the Presence of Salts and Methanol”  
Julian Youxiang Zuo, Dan Zhang and Erling H. Stenby  
**(Chem. Eng. Comm 184, (2001) 175-192)**
- SEP 0027** “Viscosity Prediction of Natural Gas Using the Friction Theory”  
Claus K. Zēberg-Mikkelsen, Sergio E. Quiñones-Cisneros and Erling H. Stenby  
**(Int. Journal of Thermophys. 23(2) (2002) 437-454)**

- SEP 0028** “The Friction Theory for Viscosity Modeling: Extension to Crude Oil Systems”  
Sergio E. Quiñones-Cisneros, Claus K. Zéberg-Mikkelsen and Erling H. Stenby  
**(Chemical Engineering Science 56(24), (2001) 7007-7015)**
- SEP 0029** “Dielectric Studies of Asphaltenes in Toluene Solutions”  
Carsten Pedersen and Simon I. Andersen  
**(Presented at the 2<sup>nd</sup> International Conference on Petroleum and Gas Phase Behaviour, Copenhagen, August 28-31, 2000) (Proceedings)**
- SEP 0030** “Estimation of Solubility Parameters of Complex Crude Oil Mixtures Using Sound Velocity”  
Carsten Pedersen and Simon I. Andersen  
**(Presented at the 2<sup>nd</sup> International Conference on Petroleum and Gas Phase Behaviour, Copenhagen, August 28-31, 2000) (Proceedings)**
- SEP 0031** “Investigations of Inhibition of Asphaltene Precipitation at High Pressure Using Bottomhole Samples”  
M.A. Aquino-Olivos, E. Buenrostro-Gonzalez, S.I. Andersen and C. Lira-Galeana  
**(Energy and Fuels, 15(1) (2001) 236-240)**
- SEP 0032** “Comparisons between Asphaltenes from the Dead and Live-Oil Samples of the Same Crude Oils”  
M.A. Aquino-Olivos, S.I. Andersen and C. Lira-Galeana  
**(Petroleum Science and Technology, 21(5&6) (2003) 1017-1041)**
- SEP 0033** “On the Mass Balance of Asphaltene Precipitation”  
Simon I. Andersen, Carlos Lira-Galeana and Erling H. Stenby  
**(Petroleum Science and Technology, 19 (2001) 457-467)**
- SEP 0034** “Characterization of Asphaltenes and Resins from Problematic Mexican Crude Oils”  
Eduardo Buenrostro-Gonzalez, Marcela Espinosa-Peña, Simon I. Andersen and Carlos Lira-Galeana  
**(Petroleum Science and Technology, 19(3&4) (2001) 299-316)**
- SEP 0035** “Changes in Asphaltene Chemistry and Stability during Hydrotreating”  
Simon I. Andersen, Morten Mejlholm, Jesper Bartholdy and Ryan Lauridsen  
**(Proceedings at the 4<sup>th</sup> International Conference on Chemistry in Industry, Bahrain, October, 2000)**
- SEP 0036** “Organic Precipitates in Oil Production of a Venezuelan Oil Field”  
S.I. Andersen, Th. Hofsäss, W. Kleinitz and I. Rahimian  
**(Presented at IS COP’99, Huatulco, Mexico, november 1999)  
(Petroleum Science & Technology, 19(1&2) (2001) 55-74)**

- SEP 0037** “Petroleum Resins: Separation, Character, and Role in Petroleum”  
Simon I. Andersen and James G. Speight  
**(Petroleum Science and Technology, 19 (2001) 1-34)**
- SEP 0038** “Interaction and Solubilization of Water by Petroleum Asphaltenes in Organic Solution”  
Simon I. Andersen, Jose Manuel del Rio-Garcia, Daria Khvostitchenko, Sarmad Shakir, Carlos Lira-Galeana  
**(Langmuir, 17(2) (2001) 307-313)**
- SEP 0039** “Stimulation of Asphaltene Deposits in Oil Producing Wells”  
Wolfram Kleinitz and Simon I. Andersen  
**(Presented at the 2<sup>nd</sup> International Conference on Petroleum and Gas Phase Behaviour, Copenhagen, August 28-31, 2000) (Proceedings)**
- SEP 0040** “Prediction of Micelle Formation for Aqueous Polyoxyethylene Alcohol Solutions with the UNIFAC Method”  
Hongyuan Cheng, Georgios M. Kontogeorgis and Erling H. Stenby  
**(Ind. Eng. Chem. Research, 41(5) (2002), 892-898)**
- SEP 0041** “Viscosity Prediction of Hydrocarbon Mixtures Based on the Friction Theory”  
Claus K. Zéberg-Mikkelsen, Sergio E. Quiñones-Cisneros and Erling H. Stenby  
**(Petroleum Science and Technology, 19(7-8) (2001) 899-910)**
- SEP 0042** “Estimation of VLE Phase Compositions of Binary Systems Containing Gaseous Components, from the Feed Composition and the Cell Volume”  
Giorgio Soave, Sara Colussi and Erling H. Stenby  
**(Fluid Phase Equilibria 187-188 (2001) 373-389)**
- SEP 0043** “Crude Oil Model Emulsion Characterised by means of Near Infrared Spectroscopy and Multivariate Techniques”  
H. Kallevik, S. Brunsgaard Hansen, Ø. Sæther, J. Sjöblom and O.M. Kvalheim  
**(J. Dispersion Sci. Technol., 21 (2000) 245-262)**

- SEP 0101** “Viscosity Modeling of Light Gases at Supercritical Conditions Using the Friction Theory”  
Claus K. Zéberg-Mikkelsen, Sergio E. Quiñones-Cisneros and Erling H. Stenby  
**(I&EC Research 40(17) (2001) 3848-3854)**
- SEP 0102** “Viscosity Prediction of Hydrogen + Natural Gas Mixtures (Hythane)”  
Claus K. Zéberg-Mikkelsen, Sergio E. Quiñones-Cisneros and Erling H. Stenby  
**(I&EC Research 40(13) (2001) 2966-2970)**
- SEP 0103** “Viscosity Prediction of Carbon Dioxide + Hydrocarbon Mixtures. Using the Friction Theory”  
Claus K. Zéberg-Mikkelsen, Sergio E. Quiñones-Cisneros and Erling H. Stenby  
**(Petroleum Science and Technology 20(1-2) (2002) 27-42)**
- SEP 0104** “Rate Effects on Centrifuge Drainage Relative Permeability”  
Arne Skauge and Susanne Poulsen  
**(SPE 63145)**  
**(Presented at the 2000 SPE Annual Technical Conference and Exhibition, Dallas, Texas, 1- 4 October 2000)**
- SEP 0105** “Including Capillary Pressure in Simulations of Steady State Relative Permeability Experiments”  
S. Poulsen, T. Skauge, S.O. Dyrhol, E.H. Stenby and A. Skauge  
**(Presented at the 2000 International Symposium on the Society of Core Analysts, 18-22 October, Abu Dhabi, United Arab Emirates. Conference Proceedings no. ”SCA 2000-14”)**
- SEP 0106** “High Pressure Viscosity and Density Behaviour of Ternary Mixtures: 1-Methylnaphthalene + n-Tridecane + 2,2,4,4,6,8,8-Heptamethylnonane”  
C.K. Zéberg-Mikkelsen, X. Canet, A. Baylaucq, S.E. Quiñones-Cisneros, C. Boned and E.H. Stenby  
**(Int. J. Thermophys. 22(6) (2001) 1691-1726)**
- SEP 0107** “Size Exclusion Chromatography in the Analysis of Pitch”  
Birgit E. Hansen, Olof Malmros, Nigel R. Turner, Erling H. Stenby and Simon I. Andersen  
**(Light Metals 2001, Proceedings of the technical sessions presented by the TMS Alumium Committee at the 130<sup>th</sup> TMS Annual Meeting, New Orleans, Louisiana, 11-15 February, 2001, 559-564)**
- SEP 0108** “Development of Petroleum Enhanced Coal Tar Pitch in Europe”  
Nigel R. Turner, Stewart H. Alsop, Olof Malmros, David Whittle, Birgit E. Hansen, Erling H. Stenby and Simon I. Andersen  
**(Light Metals 2001, Proceedings of the technical sessions presented by the TMS Alumium Committee at the 130<sup>th</sup> TMS Annual Meeting, New Orleans, Louisiana, 11-15 February, 2001, 565-572)**

- SEP 0109** “Viscosity Modeling of Associating Fluids Based on the Friction Theory: Pure Alcohols”  
Claus K. Zéberg-Mikkelsen, Sergio E. Quiñones-Cisneros and Erling H. Stenby  
**(Presented at PPEPPD 2001, Ninth International Conference on Properties and Phase Equilibria for Product and Process Design, 20 - 25 May, 2001, Kurashiki, Japan)**  
**(Fluid Phase Equilibria, 194-197 (2002) 1191-1203)**
- SEP 0110** “Multicomponent Adsorption: Principles and Models”  
Alexander A. Shapiro and Erling H. Stenby  
**(Chapter of the book: Adsorption: Theory, Analysis and Modeling, J. Tóth (ed.), Marcel Dekker, NJ, 2002)**
- SEP 0111** “Phase Equilibria for Complex Polymer Solutions”  
Thomas Lindvig, Line L. Hestkjær, Anders F. Hansen, Michael L. Michelsen and Georgios Kontogeorgis  
**(Presented at PPEPPD 2001, Ninth International Conference on Properties and Phase Equilibria for Product and Process Design, 20 - 25 May, 2001, Kurashiki, Japan)**  
**(Fluid Phase Equilibria, 194-197 (2002), 663-673)**
- SEP 0112** “Novel Applications of Thermodynamics with Classical Models”  
Thomas Lindvig, Samer Derawi, Hong Yuan Cheng, Michael L. Michelsen, Erling H. Stenby and Georgios M. Kontogeorgis  
**(Presented at the 3. Greek Scientific Conference of Chemical Engineering, Athens, May 31. - June 2, 2001)**
- SEP 0113** “A Flory-Huggins Model based on the Hansen Solubility Parameters”  
Thomas Lindvig, Michael L. Michelsen and Georgios Kontogeorgis  
**(Fluid Phase Equilibria, 203(1-2) (2002) 247-260)**
- SEP 0114** “Thermodynamics, Impurities, and Kinetics in the Process of Sucrose Crystallisation”  
Angélique Grønberg Rasmussen, Peter Rasmussen, and Lars Bo Jørgensen  
**(Presented at AIChE 2000 Annual Meeting, Los Angeles, Nov. 12-17, 2000)**
- SEP 0115** “Sodium Chloride Dihydrate - A Potential Cause of Slippery Accidents”  
Morten Mejlholm, Kaj Thomsen, Peter Rasmussen, Jørgen Vergod, Freddy Knudsen and Hugo Høyer  
**(Presented at the XIth PIARC International Winter Road Congress, Sapporo, Japan, January 28-31, 2002. Proceedings of the Xith PIARC International Winter Road Congress, Sapporo, Japan (2002))**
- SEP 0116** “Prediction of Solid-Gas Equilibria with the Peng-Robinson Equation of State”  
Philippos Coutsikos, Kostis Magoulas and Georgios M. Kontogeorgis  
**(Journal of Supercritical Fluids, 25(3) (2003) 197-212)**

- SEP 0117** “Chemical Product Engineering - A Cross-centre Activity at Institut for Kemiteknik”  
Søren Kiil, Georgios M. Kontogeorgis, Jens Abildskov, Martin E. Vigild, Tue Johannessen and Kim Dam-Johansen  
**(Presented at the *Refocusing Chemical Engineering* Conference in Barga, Italy, May 27 - June 1, 2001)**
- SEP 0118** “Prediction of the Surface Tension of Hydrocarbons and Their Mixtures”  
António J. Queimada, João A.P. Coutinho, Isabel M. Marrucho, Georgios M. Kontogeorgis and Erling H. Stenby  
**(Proceedings of the Chempor 2001 - 8<sup>th</sup> International Conference in Chemical Engineering, September 12-14, Aveiro, Portugal)**
- SEP 0119** “Liquid-Liquid Equilibria for Glycols + Hydrocarbons: Data and Correlation”  
Samer O. Derawi, Georgios M. Kontogeorgis, Erling H. Stenby, Toril Haugum and Arne O. Fredheim  
**(Journal of Chemical and Engineering Data, 47(2) (2002), 169-173)**
- SEP 0120** “A Wax Inhibition Solution to Problematic Fields: A Chemical Remediation Process”  
D. Groffe, P. Groffe, S. Takhar, S.I. Andersen, E.H. Stenby, N. Lindeloff and M. Lundgren  
**(Petroleum Science and Technology, 19(1&2) (2001) 205-217)**
- SEP 0121** “Solid-Liquid Equilibria for the Binary Mixtures 1,4-Xylene + Ethylbenzene and 1,4-Xylene + Toluene”  
Raphaël Huyghe, Peter Rasmussen and Kaj Thomsen  
**(Chemical Engineering Communications, 191 (2004) 1017)**
- SEP 0122** “How to determine the pressure of a methane-containing gas mixture by means of two weak Raman bands,  $\nu_3$  and  $\nu_2'$ ”  
S. Brunsgaard Hansen, R.W. Berg and E.H. Stenby  
**(Journal of Raman Spectroscopy, 33 (2002) 160-164)**
- SEP 0123** “Effect of Geothermal Gradients on Fluid Distribution in Petroleum Reservoirs”  
Alexander A. Shapiro and Erling H. Stenby  
**(Chapter in the book “Encyclopedia of Petroleum Engineering”, J. Speight (ed.), Marcel Dekker, NY, 2002)**
- SEP 0124** “Increasing Computational Speed of Flash Calculations with Applications for Compositional, Transient Simulations”  
Claus P. Rasmussen, Kristian Krejbjerg, Michael L. Michelsen and Kersti E. Bjurstrøm  
**(SPE 84181)**

- SEP 0125** “Viscosity Modeling of the Ternary System 1-Methylnaphthalene+n-Tridecane+2,2,4,4,6,8,8-Heptamethylnonane up to 100 MPa”  
Claus K. Zéberg-Mikkelsen, X.Canet, S.E. Quiñones-Cisneros, A. Baylaucq, A. Allal, C. Boned and E.H. Stenby  
**(High Pressure Research, 21 (2001) 281-303)**
- SEP 0126** “Produktion af gødningssalte”  
Søren Gregers Christensen and Kaj Thomsen  
**(Dansk Kemi 83(2) (2002) 18-19)**
- SEP 0127** “Modeling of heavy metal salt solubility using the Extended UNIQUAC model”  
Maria C. Iliuta, Kaj Thomsen and Peter Rasmussen  
**(AIChE Journal, 48(11) (2002), 2664-2689)**
- SEP 0128** “Determination of the activity coefficients of glycylglycine and glycyl- L -alanine in sodium chloride solutions by an electrochemical cell with ion-selective electrodes: Experimental measurements and thermodynamic theory”  
M.P. Breil, J.M. Mollerup, E.S.J. Rudolph, M. Ottes and L.A.M. van der Wielen  
**(Fluid Phase Equilibria 191 (2001) 127-140)**
- SEP 0129** “Measurement and modeling of the solubility of CO<sub>2</sub> and N<sub>2</sub> in a model resin system based on resin from spruce wood (Picea abies (L))”  
Torben Laursen, Simon I. Andersen, Søren Dahl and Ole Henriksen  
**(Journal of Supercritical Fluids 19 (2001) 239-250)**
- SEP 0130** “Density and Viscosity of the 1-Methylnaphthalene + 2,2,4,4,6,8,8-Heptamethylnonane System up to 100 MPa”  
X. Canet, P. Daugé, A. Baylaucq, C. Boned, C.K. Zéberg-Mikkelsen, S.E. Quiñones-Cisneros and E.H. Stenby  
**(Int. J. Thermophys. 22(6) (2001) 1669-1689)**
- SEP 0131** “VLE and VLLE measurements of dimethyl ether containing systems”  
T. Laursen, P. Rasmussen and S.I. Andersen  
**(Journal of Chemical Engineering Data, 2002, 47, 198-202)**
- SEP 0132** “High-Pressure Vapor-Liquid Equilibrium for Nitrogen + Methanol”  
T. Laursen and S.I. Andersen  
**(Journal of Chemical Engineering Data, 2002, 47, 1173-1174)**
- SEP 0133** “Studies of waterflooding in low-permeable chalk by use of X-ray CT scanning”  
Kristian Mogensen, Erling H. Stenby and Dengen Zhou  
**(Journal of Petroleum Science and Engineering 32 (2001) 1-10)**



- SEP 0201** “Free-Volume Activity Coefficient Models for Dendrimer Solutions”  
Irene A. Kouskoumvekaki, Ralph Giesen, Michael L. Michelsen and Georgios M. Kontogeorgis  
**(Industrial & Engineering Chemistry Research, 41(19) (2002), 4848-4853)**
- SEP 0202** “An Improved Entropic Expression for Polymer Solutions”  
Irene A. Kouskoumvekaki, Michael L. Michelsen and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 202(2) (2002), 325-335)**
- SEP 0203** “Screening Vapor Pressure Data”  
Erik Olsen and Georgios M. Kontogeorgis  
**(Internal Report)**
- SEP 0204** “Thermodynamics of Polymer Solutions”  
Georgios M. Kontogeorgis  
**(Handbook of Surface & Colloid Chemistry, 2<sup>nd</sup> ed., Chapter 16)**
- SEP 0205** “Interplay of Phase Behavior and Numerical Dispersion in Finite Difference Compositional Simulation”  
K. Jessen, E.H. Stenby and F.M. Orr, Jr.  
**(SPE 75134)**
- SEP 0206** “A Comment on Guggenheim-like Hard-Core Volume Expressions”  
G.M. Kontogeorgis, I. Kouskoumvekaki and M.L. Michelsen  
**(Industrial & Engineering Chemistry Research, 41(18) (2002), 4686-4688)**
- SEP 0207** “Scale Formation in Geothermal Plants”  
“Ada Villfáfila García, Kaj Thomsen and Erling H. Stenby  
**(Internal Report)**
- SEP 0208** “Application of the CPA Equation of State to Glycol/Hydrocarbons Liquid-Liquid Equilibria”  
Samer O. Derawi, Michael L. Michelsen, Georgios M. Kontogeorgis, and Erling H. Stenby  
**(Fluid Phase Equilibria, 209 (2003) 163-184)**
- SEP 0209** “Diffusion in Multicomponent Mixtures”  
Alexander A. Shapiro, Peter K. Davis and J.L. Duda  
**(Chapter of the book “Computer Aided Property Estimation”, R. Gani and G. Kontogeorgis, ed5., Elsevier, 2002)**
- SEP 0210** “Extension of the Cubic-Plus-Association Equation of State to Glycol-Water Cross-Associating Systems”  
Samer O. Derawi, Georgios M. Kontogeorgis, Michael L. Michelsen and Erling H. Stenby  
**(Industrial & Engineering Chemistry Research, 42(7), 1470-1477, (2003))**

- SEP 0211** “Prediction of gas solubilities in elastomeric polymers for the design of thermopane windows”  
Peter Thorlaksen, Jens Abildskov and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 211(1) (2003) 17-33)**
- SEP 0212** “Evaluation of Diffusion Coefficients in Multicomponent Mixtures by Means of the Fluctuation Theory”  
Alexander A. Shapiro  
**(Physica A, 320, (2003) 211-234)**
- SEP 0213** “Friction theory prediction of crude oil viscosity at reservoir conditions based on dead oil properties”  
Sergio E. Quiñones-Cisneros, Claus K. Zéberg-Mikkelsen and Erling H. Stenby  
**(Article presented at: The Sixteenth European Conference on Thermophysical Properties (ECTP 2002), Imperial College, London September 1-4, 2002)**  
**(Fluid Phase Equilibria 212 (1-2), (2003) 233-243)**
- SEP 0214** “Viscosity modelling of four polar fluids based on the friction theory and the free-volume theory”  
M.J.P. Comuñas, A. Baylaucq, S.E. Quiñones-Cisneros, C. Zéberg-Mikkelsen, C. Boned, J. Fernández  
**(Presented at : VI Iberoamerican Conference on Phase Equilibria for Process Design, Fos de Iguazú (Brazil), October 12-16, 2002)**
- SEP 0215** “General one-parameter friction theory viscosity model for the Patel-Teja EOS”  
Sergio E. Quiñones-Cisneros, Claus K. Zéberg-Mikkelsen and Erling H. Stenby  
**(Presented at VI Iberoamerican Conference on Phase Equilibria for Process Design (EQUIFASE 2002), Foz de Iguazú (Brazil), October 12-16, 2002)**  
**(Submitted to Fluid Phase Equilibria)**
- SEP 0216** “Sequential algorithm for calculating ordinary critical points”  
S. Quiñones-Cisneros, L. Valle-Arizmendi, F. Barragán-Aroche, E. Bazúa-Rueda  
**(Presented at VI Iberoamerican Conference on Phase Equilibria for Process Design (EQUIFASE 2002), Foz de Iguazú (Brazil), October 12-16, 2002)**
- SEP 0217** “Computational and Physical Performance of a Modified PC-SAFT Equation of State for Highly Asymmetric and Associating Mixtures”  
Nicolas von Solms, Michael L. Michelsen and Georgios M. Kontogeorgis  
**(Industrial & Engineering Chemistry Research, 42 (2003) 1098-1105)**

- SEP 0218** “Evaluation of the Thermodynamic Models for the Thermal Diffusion Factor”  
Mariana G. Gonzalez-Bagnoli, Alexander A. Shapiro and Erling H. Stenby  
**(Presented at the Fifth International Meeting on Thermodiffusion, IMT4, Lyngby, Denmark, 5-9 August 2002; Philosophical Magazine, 83 (2003), 2171-2183)**
- SEP 0219** “Modelling the Acid Restimulation of Carbonate Fractured Injection Wells in a North Sea”  
R.A. Berenblyum, J.H. Hansen, M.L. Michelsen, A.A. Shapiro, E.H. Stenby  
**(Presented at the 23rd Annual Workshop and Symposium on Collaborative Project on Enhanced Oil Recovery by International Energy Agency, 8-11 September in Caracas, Venezuela)**
- SEP 0220** “Detection of Occupancy Differences in Methane Gas Hydrates by Raman Spectroscopy”  
S. Brunsgaard Hansen, R.W. Berg and E.H. Stenby  
**(Proceedings of the XVIIIth Int. Conference on Raman Spectroscopy, Budapest, Hungary, 25-30 August 2002, 157-158)**
- SEP 0221** “Direct Measurement of Gas Solubilities in Polymers with a High-Pressure Microbalance”  
N. von Solms, J.K. Nielsen, O. Hassager, A. Rubin, A.Y. Dandekar, S.I. Andersen and E.H. Stenby  
**(Journal of Applied Polymer Science, 91 (2004) 1476)**
- SEP 0222** “Mass Transfer Properties of Monoliths”  
R. Hahn, M. Panzer, E. Hansen, J. Mollerup and A. Jungbauer  
**(Separation Science and Technology, 37(7), 1545-1565 (2002))**
- SEP 0223** “Study on the Self-Association of Asphaltenes and Their Interaction with Resins by Calorimetry”  
Daniel Merino-Garcia and Simon I. Andersen.  
**(Proceedings of 3<sup>rd</sup> International Conference on Petroleum Phase Behavior and Fouling) (I.A. Wiehe (Editor). AIChE, New York, p. 269)**
- SEP 0224** “Isothermal Titration Calorimetry and Fluorescence Spectroscopy Study of Asphaltene Self-Association in Toluene and Interaction with a Model Resin”  
Daniel Merino-Garcia and Simon I. Andersen.  
**(Petroleum Science and Technology, 21 (3&4) (2003) 507-525)**
- SEP 0225** “Molecular Mechanics and Microcalorimetric Investigations of the Effects of Molecular Water on the Aggregation of Asphaltenes in Solutions”  
Murgich J., Lira-Galeana C., Merino-Garcia D., Andersen S.I. and del Rio-Garcia J.M.  
**(Langmuir, 18 (2002) 9080-9086)**

- SEP 0226** “Asphaltene Self-Association: Modelling and Effect of Fractionation with a Polar Solvent”  
Daniel Merino-Garcia and Simon I. Andersen  
**(Proceedings 2002 Heavy Organic Deposition International Conference, Puerto Vallarta, Mexico, 17-21 November 2002. Editor C. Lira-Galeana)**
- SEP 0227** “Interaction of Asphaltenes with Nonylphenol by Microcalorimetry”  
Daniel Merino-Garcia and Simon I. Andersen  
**(Proceedings 2002 Heavy Organic Deposition International Conference, Puerto Vallarta, Mexico, 17-21 November 2002. Editor C. Lira-Galeana)**  
**(Langmuir, 20(4) (2004) 1473-1480)**
- SEP 0228** “Modelling of Multicomponent Vapor-Liquid Equilibria for Polymer-Solvent Systems”  
Thomas Lindvig, Ioannis G. Economou, Ronald P. Danner, Michael L. Michelsen and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 220(1) (2004) 11-20)**
- SEP 0229** “Determination of Isobaric Thermal Expansivity of Organic Compounds from 0.1 to 30 MPa at 30 °C with an Isothermal Pressure Scanning Microcalorimeter”  
Sylvain Verdier and Simon Ivar Andersen  
**(Journal of Chemical Engineering and Data, 48, 892 - 897 (2003))**
- SEP 0230** “Molecular Size of Asphaltene Fractions Obtained from Residuum Hydrotreatment”  
Louise Buch, Henning Groenzin, Eduardo Buenrostro-Gonzalez, Simon I. Andersen, Carlos Lira-Galeana, Oliver C. Mullins  
**(Fuel, 82 (2003) 1075-1084)**
- SEP 0231** “Investigation of Wax Crystallisation by FT-IR and Deuterated Trace Molecules”  
Niels Lindeloff and Simon Ivar Andersen  
**(Proceedings of 3<sup>rd</sup> International Conference on Petroleum Phase Behavior and Fouling)**  
**(I.A. Wiehe (Editor). AIChE, New York, p. 186-192)**
- SEP 0232** “X-Ray Diffraction of Asphaltenes: What can it tell us?”  
Carsten Pedersen, Simon Ivar Andersen, J. Oluf Jensen, James Speight  
**(Proceedings of 3<sup>rd</sup> International Conference on Petroleum Phase Behavior and Fouling)**  
**(I.A. Wiehe (Editor). AIChE, New York, p. 13-19)**
- SEP 0233** “Trace Water-Asphaltene Interaction in Organic Solvents”  
Daria S. Khvostichenko, Alexey I. Victorov and Simon I. Andersen  
**(Presented at the 2002 Heavy Organic Deposition International Conference, Puerto Vallarta, Mexico, 17-21 November 2002)**

- SEP 0234** “VLE and VLLE Measurements of Dimethyl Ether Containing Systems. II”  
Torben Laursen and Simon Ivar Andersen  
**(J. Chem. Eng. Data, 48 (2003) 1085-1087)**
- SEP 0235** “Effects of Trace Water on the State of Petroleum Asphaltenes in Solution”  
S.I. Andersen, D.S. Kvostichenko, D. Merino-Garcia  
**(Proceedings ECTP 2002 16th European Conf. on Thermophysical Properties)**
- SEP 0236** “Fractionation of Asphaltenes for Optical Analysis”  
Birgit Elkjær Ascanius and Simon Ivar Andersen  
**(2002 International Conference on Heavy Organics Depositions (HOD 2002), November 17-21, 2002 in Puerto Vallarta, Jalisco, Mexico)**
- SEP 0237** “Prediction of Octanol-Water Partition Coefficients of Surfactants with Engineering Methods”  
Cheng, H.Y., G.M. Kontogeorgis and E.H. Stenby  
**(Internal Report)**
- SEP 0238** “Verifying reciprocal relations for experimental diffusion coefficients in multicomponent mixtures”  
Oleg O. Medvedev and Alexander A. Shapiro  
**(Fluid Phase Equilibria, 208, (2003), 291-301)**
- SEP 0239** “Determination of the Pseudocritical Parameters for Refrigerant/Oil Solutions”  
P.V. Zhelezny, V.P. Zhelezny and P.V. Scripov  
**(Fluid Phase Equilibria, 212 (2003) 285-302)**
- SEP 0240** “Prediction of Phase Equilibria and Thermodynamic Properties of Refrigerant/Oil Solutions”  
Oleg O. Medvedev, Petr V. Zhelezny and Vitaly P. Zhelezny  
**(Fluid Phase Equilibria, 215 (2004) 29-38)**
- SEP 0241** “Surface Tension of Heptane, Decane, Hexadecane, Eicosane, and some of their Binary Mixtures”  
Lara I. Rolo, Ana I. Caço, António J. Queimada, Isabel M. Marrucho and João A. P. Coutinho  
**(J. Chem. Eng. Data, 47 (2002), 1442-1445)**
- SEP 0242** “A New Corresponding States Model for the Estimation of Thermophysical Properties of Long Chain n-alkanes”  
António J. Queimada, Erling H. Stenby, Isabel M. Marrucho and João A. P. Coutinho  
**(Presented at the Sixteenth European Conference on Thermo-physical Properties (ECTP 2002), Imperial College, London, September 1-4, 2002)**  
**(Fluid Phase Equilibria, 212(1-2) (2003) 303-314)**

- SEP 0243** “Viscosity and Liquid Density of Asymmetric Hydrocarbon Mixtures”  
A. J. Queimada, S. E. Quiñones-Cisneros, I. M. Marrucho, J. A. P. Coutinho  
and Erling H. Stenby  
**(Presented at the Sixteenth European Conference on Thermo-physical  
Properties (ECTP 2002), Imperial College, London, September 1-4,  
2002)**  
**(International Journal of Thermophysics, 24(5) (2003) 1221-1240)**
- SEP 0244** “Viscosity modeling and prediction of crude oils”  
S.E. Quiñones-Cisneros and Erling H. Stenby  
**(Presented at VI Iberoamerican Conference on Phase Equilibria for  
Process Design (EQUIFASE 2002), Foz de Iguazú (Brazil), October 12-  
16, 2002)**

- SEP 0301** “Viscosity Measurements and Correlations for 1,1,1,2-tetrafluoroethane (HFC-134a) up to 140 MPa”  
M.J.P. Comuñas, A. Baylaucq, S.E. Quiñones-Cisneros, C.K. Zéberg-Mikkelsen, C. Boned, J. Fernández  
**(Fluid Phase Equilibria, 210 (2003) 21-32)**
- SEP 0302** “Phase and Viscosity Behavior of Refrigerant-Lubricant Mixtures”  
S.E. Quiñones-Cisneros, J. García, J. Fernández and M.A. Monsalvo  
**(Eurotherm Seminar No. 72, Thermodynamics, Heat and Mass Transfer of Refrigeration Machines and Heat Pumps Valencia, Spain, March 31 to April 2, 2003)**
- SEP 0303** “Analytical Integral Equation Theory for a Restricted Primitive Model of Polyelectrolytes and Counterions within the Mean Spherical Approximation. II. Radial Distribution Functions”  
N. von Solms and Y.C. Chiew  
**(J. Chem. Phys., 118 (2003) 4321)**
- SEP 0304** “Modeling of Vapor-Liquid-Solid Equilibria in Acidic Aqueous Solutions”  
Søren Gregers Christensen and Kaj Thomsen  
**(Ind. & Eng. Chem. Res. 42 (18), (2003) 4260-4268)**
- SEP 0305** “Supercritical Fluid Extraction of  $\alpha$ -Methylene- $\gamma$ -Butyrolactone from Alstroemeria: Optimization by Statistical Experimental Design”  
Keith W. Hutchenson, Ole F. Jensen, Chien Ping Kao, and Erling H. Stenby  
**(Presented at the 6<sup>th</sup> International Symposium on Supercritical Fluids, Versailles, 28-30 April 2003)**
- SEP 0306** “Wax Precipitation Modeled with Many Mixed Solid Phases”  
Robert A Heidemann, Jesper Madsen, Erling H. Stenby and Simon I. Andersen  
**(Presented at the 2003 AIChE Spring National Meeting, New Orleans, La., 30 March to 3 April, 2003)**  
**(AIChE Journal, 51(1) (2005) 298-308)**
- SEP 0307** “Viscosity Modeling and Prediction of Reservoir Fluids: from Natural Gas to Heavy Oils”  
Sergio E. Quiñones-Cisneros, Claus K. Zéberg-Mikkelsen, Antoine Baylaucq, Christian Boned and Erling H. Stenby  
**(15th Symposium on Thermophysical Properties (Boulder, Colorado, June 22-27, 2003))**
- SEP 0308** “Comparative Study of Viscosity Models on the Ternary System Methylcyclohexane + cis-Decalin + 2,2,4,4,6,8,8-Heptamethylnonane up to 100 MPa”  
C.K. Zéberg-Mikkelsen, A. Baylaucq, M. Barrouhou, S.E. Quiñones-Cisneros, C. Boned  
**(Presented at 15th Symposium on Thermophysical Properties (Boulder, Colorado, June 22-27, 2003)**  
**(Fluid Phase Equilibria, 222-223 (2004) 135-148)**

- SEP 0309** “Application of the Perturbed Chain SAFT Equation of State to Complex Polymer Systems using simplified mixing rules”  
Irene A. Kouskoumvekaki, Nicolas von Solms, Michael L. Michelsen and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 215 (2004) 71-78)**
- SEP 0310** “On the Process of Gas Liberation on Porous Media”  
P.V. Zhelezny, A.A. Shapiro, D.T. Vu, E.H. Stenby  
**(Journal of Porous Media, 9(6) (2006) 503-521)**
- SEP 0311** “Asphaltene Self-Association: Modelling and Effect of Fractionation with a Polar Solvent”  
D. Merino-Garcia and S.I. Andersen  
**(Petroleum Science and Technology, 22(7&8) 735-758 (2004)**
- SEP 0312** “Interaction of Asphaltenes with Model and Native Resins in Toluene Solutions”  
D. Merino-Garcia and S.I. Andersen  
**(4<sup>th</sup> International Conference on Petroleum Phase Behaviour and Fouling, Trondheim, Norway, June 2003)**
- SEP 0313** “PVT Characterization and Viscosity Modeling and Prediction of Crude Oils”  
Sergio E. Quiñones-Cisneros, Anders Dalberg and Erling H. Stenby  
**(Petroleum Science and Technology, 22(9&10) (2004) 1309-1325)**
- SEP 0314** “Process Engineering vs. Product Engineering: A Case Study on Volatile Organic Compounds Removal”  
João A.P. Coutinho, T. Vilela, P. Pereira, P. Pessa, M.M.M. Santos and Georgios M. Kontogeorgis  
**(Chem. Eng. Res. Des., 83(A4) (2005) 352-356)**
- SEP 0315** “Whey Proteins as a Model System for Chromatographic Separation of Proteins”  
L. Pedersen, J. Mollerup, E. Hansen and A. Jungbauer  
**(Journal of Chromatography B, 790(1) (2003) 161-173)**
- SEP 0316** “Black Oil Streamline Simulator with Capillary Effects”  
Roman A. Berenblyum, Alexander A. Shapiro, Kristian Jessen, Erling H. Stenby, Franklin M. Orr, Jr.  
**(SPE 84037)**  
**(Presented at the SPE Annual Technical Conference and Exhibition held in Denver, Colorado, USA, 5-8 October 2003)**
- SEP 0317** "Modeling of Vapor-Liquid Equilibria in the Manufacturing Process of Nylon-6 with the Modified PC-SAFT Equation of State"  
Irene A. Kouskoumvekaki, Gerard Krooshof, Michael L. Michelsen, Georgios M. Kontogeorgis  
**(ESAT 2003, Germany, October 9-12, 2003, Proceedings p. 345-348)**



- SEP 0318** "Application of the Simplified PC-SAFT Equation of State to the Vapor Liquid Equilibria of Binary Mixtures of Polyamide 6 with Several Solvent"  
Irene A. Kouskoumvekaki, Gerard Krooshof, Michael L. Michelsen,  
Georgios M. Kontogeorgis  
**(Ind. Eng. Chem. Res., 43(3) (2004) 826-834)**
- SEP 0319** "Application of the CPA Equation of State to Industrially Important Systems"  
Samer O. Derawi, Michael L. Michelsen, Georgios M. Kontogeorgis and  
Erling H. Stenby  
**(ESAT 2003, Germany, October 9-12, 2003, Proceedings p. 477-480)**
- SEP 0320** "Applications of Association Models to Problems of the Oil, Chemical and Polymer Industries"  
Georgios M. Kontogeorgis, Samer Derawi, Jacob Zeuthen, Erling H. Stenby, Nicolas von Solms, Thomas Lindvig, Irene A. Kouskoumvekaki, and Michael L. Michelsen  
**(Invited lecture at ESAT Germany, October 9-12, 2003, Proceedings p. 93-96)**
- SEP 0321** "Recent Developments and New Applications of Free-Volume Activity Coefficient Models"  
Irene A. Kouskoumvekaki, Michael L. Michelsen and Georgios M. Kontogeorgis  
**(Presented as poster at the 19th European Symposium on Applied Thermodynamics, Santorini, Greece, September 6-10, 2002, Proceedings p. 215-218)**
- SEP 0322** "A Corresponding States Model for the Estimation of Thermophysical Properties of Asymmetric Mixtures"  
António J. Queimada, Isabel M. Marrucho, Erling H. Stenby, and João A.P. Coutinho  
**(ESAT 2003, Germany, October 9-12, 2003, Proceedings p. 383-386)**
- SEP 0323** "Modeling of the Water-Hydrocarbon Interface: Coupling the CPA EOS with the Gradient Theory"  
António J. Queimada, Isabel M. Marrucho, Erling H. Stenby, Georgios M. Kontogeorgis, Christelle Miqueu, and João A.P. Coutinho  
**(ESAT 2003, Germany, October 9-12, 2003, Proceedings p. 391-394)**
- SEP 0324** "Viscosity and Liquid Density of Asymmetric n-Alkane Mixtures: Measurement and Modelling"  
António J. Queimada, Isabel M. Marrucho, João A.P. Coutinho, and Erling H. Stenby  
**(15th Symposium on Thermophysical Properties (Boulder, Colorado, June 22-27, 2003))**  
**(International Journal of Thermophysics, 26(1) (2005) 47-61)**

- SEP 0325** "Generalized Relation Between Surface Tension and Viscosity: a Study on Pure and Mixed n-Alkanes"  
 António J. Queimada, Isabel M. Marrucho, Erling H. Stenby, and João A.P. Coutinho  
**(Fluid Phase Equilibria, 222-223 (2004) 161-168)**  
**(15th Symposium on Thermophysical Properties (Boulder, Colorado, June 22-27, 2003))**
- SEP 0326** "Measurement and Modeling of Surface Tensions of Asymmetric Systems: Heptane, Eicosane, Docosane, Tetracosane and their Mixtures"  
 António J. Queimada, Filipa A.E. Silva, Ana I. Caco, Isabel M. Marrucho, and João A.P. Coutinho  
**(Fluid Phase Equilibria, 214(2) (2003) 211-221)**
- SEP 0327** "A novel approach to liquid-liquid equilibrium in polymer systems with applications to simplified PC-SAFT"  
 Nicolas von Solms, Irene A. Kouskoumvekaki, Thomas Lindvig, Michael L. Michelsen, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 222-223 (2004) 87-93)**
- SEP 0328** "A Simplified PC-SAFT Equation of State: Multicomponent Liquid-Liquid Equilibrium in Polymer and Associating Systems"  
 Nicolas von Solms, Thomas Lindvig, Irene A. Kouskoumvekaki, Michael L. Michelsen, and Georgios M. Kontogeorgis  
**(ESAT 2003, Germany, October 9-12, 2003, Proceedings 379-382)**
- SEP 0329** "Direct Measurement of High Temperature/High Pressure Solubility of Methane and Carbon Dioxide in Polyamide (PA-11) using a High-Pressure Microbalance"  
 Nicolas von Solms, A. Rubin, S. I. Andersen, and E. H. Stenby  
**(International Journal of Thermophysics, 26(1) (2005) 115-125)**
- SEP 0330** "Fluctuation Theory for Transport Properties in Multicomponent Mixtures: Thermodiffusion and Heat Conductivity"  
 Alexander A. Shapiro  
**(Physica A, 332 (2004) 151-175)**
- SEP 0331** "Thermodynamics of Electrolyte Systems of Industry"  
 Kaj Thomsen  
**(Chapter in "Chemical Thermodynamics for Industry", RSC Books (2004) 219-229 ed. T. M. Letcher)**
- SEP 0332** "Densities and Solubilities of Glycylglycine and Glycyl-L-alanine in Aqueous Electrolyte Solutions"  
 Martin P. Breil, Jørgen M. Møllerup, E. Susanne J. Rudolph, Marcel Ottens, and Luuk A.M. van der Wielen  
**(Fluid Phase Equilibria, 215 (2004) 221-225)**
- SEP 0333** "Analysis of Asphaltenes Sub-fractionated by N-methyl-2-pyrrolydinone"  
 Birgit E. Ascanius, Daniel M. Garcia and Simon I. Andersen  
**(Energy & Fuels, 18 (2004) 1827-1831)**

- SEP 0334** “Upgrade of a Raman Spectrometer”  
S. Brunsgaard Hansen, R.W. Berg and E.H. Stenby  
**(Applied Spectroscopy Reviews, 39(3) (2004) 385-397)**
- SEP 0335** “Modelling of Activity and Solubility of Amino Acids in Salt Solutions”  
Martin P. Breil and Jørgen M. Møllerup  
**(Presented at ESAT 2003, Germany, October 8-12, 2003, Proceedings p. 375-378)**
- SEP 0336** “Modelling of the Adsorptive Properties of Whey Proteins on Anion Exchangers”  
S. Frederiksen, L. Pedersen and J.M. Møllerup  
**(Presented at ESAT 2003, Germany, October 8-12, 2003, Proceedings p. 101-104)**
- SEP 0337** “Interaction of Asphaltenes with Nonylphenol By Microcalorimetry”  
Daniel Merino-Garcia and Simon I. Andersen  
**(Langmuir, 20 (2004) 1473-1480)**
- SEP 0338** “Phase Envelope Calculations for Hydrocarbon-Water Mixtures”  
Niels Lindeloff and Michael L. Michelsen  
**(SPE 77770 (2003))**
- SEP 0339** “Dynamic Viscosity Modeling of Methane + n-Decane and Methane + Toluene Mixtures: Comparative Study of Some Representative Models”  
Antoine Baylaucq, Christian Boned, Xavier Canet, Claus K. Zéberg-Mikkelsen, Sergio E. Quiñones-Cisneros and Honggang Zhou  
**(Petroleum Science and Technology, 23(2) (2005) 143-157)**
- SEP 0340** “Phase and Viscosity Behavior of Refrigerant-Lubricant Mixtures”  
S.E. Quiñones-Cisneros, J. Garcia, J. Fernández and M.A. Monsalvo  
**(Presented at the 21<sup>st</sup> IIR International Congress of Refrigeration, Washington D.C., USA, August 17-22, 2003)**  
**(International Journal of Refrigeration-Revue Internationale Du Froid, 28 (5) (2005) 714-724)**
- SEP 0341** “Viscosity and Density Modeling and Prediction of Reservoir Fluids: From Natural Gas to Heavy Oils”  
S.E. Quiñones-Cisneros, C.K. Zéberg-Mikkelsen, A. Baylaucq, C. Boned and E.H. Stenby  
**(ESAT 2003, Germany, October 9-12, 2003, Proceedings p. 395-398)**
- SEP 0342** “Phase Behaviour of Refrigerant-Lubricant Mixtures”  
S.E. Quiñones-Cisneros, M.A. Monsalvo, J. Garcia and J. Fernández  
**(ESAT 2003, Germany, October 9-12, 2003, Proceedings p. 223-226)**
- SEP 0343** “Short Course on PC-SAFT”  
Nicolas von Solms  
**(Internal Report)**

- SEP 0344** “Novel Method for Estimating Pure-Component Parameters for Polymers: Application to the PC-SAFT Equation of State”  
I.A. Kouskoumvekaki, N. von Solms, T. Lindvig, M.L. Michelsen and G.M. Kontogeorgis  
**(Ind. Eng. Chem. Res., 43(11) (2004) 2830 - 2838)**
- SEP 0345** “AFM Characterization of Organic Deposits on Metal Substrates from Mexican Crude Oils”  
N. Batina, J.C. Manzano-Martinez, S.I. Andersen and C. Lira-Galeana  
**(Energy & Fuels, 17 (2003) 532-542)**

- SEP 0401** “Simultaneous Free-Volume Modeling of Self-Diffusion Coefficient and Dynamic Viscosity at High-Pressure”  
C. Boned, A. Allal, A. Baylaucq, C.K. Zéberg-Mikkelsen, D. Bessieres and S.E. Quiñones-Cisneros  
**(Physical Review E, 69 (2004) 031203/1-031203/6)**
- SEP 0402** “Phase and Viscosity Behaviour of Refrigerant-Lubricant Mixtures”  
S.E. Quiñones-Cisneros, J. Garcia, J. Fernández and M.A. Monsalvo  
**(International Journal of Refrigeration, 28 (2005) 714-724)**
- SEP 0403** “Extended UNIQUAC Model for Correlation and Prediction of Vapor-Liquid-Liquid-Solid Equilibria in Aqueous Salt Systems Containing Non-Electrolytes. Part B. Alcohol (Ethanol, Propanols, Butanols) – Water – Salt Systems”  
Kaj Thomsen, Maria Iliuta and Peter Rasmussen  
**(Chemical Engineering Science, 59(17) (2004) 3631-3647)**
- SEP 0404** “Three-phase Compositional Streamline Simulation and Its Application to WAG”  
Wei Yan, Michael L. Michelsen, Erling H. Stenby, Roman A. Berenblyum and Alexander A. Shapiro  
**(SPE 89440)**  
**(Presented at the 2004 SPE/DOE Fourteenth Symposium on Improved Oil Recovery, Tulsa, Oklahoma, USA, 17-21 April 2004)**
- SEP 0405** “Analytical Model for 1-D Gas Flooding: Splitting between Hydrodynamics and Thermodynamics”  
A.P. Pires, P.G. Bedrikovetsky and A.A. Shapiro  
**(SPE 89441)**  
**(Presented at the 2004 SPE/DOE Fourteenth Symposium on Improved Oil Recovery, Tulsa, Oklahoma, USA, 17-21 April 2004)**
- SEP 0406** “Modeling Diffusion Coefficients in Binary Mixtures”  
Oleg O. Medvedev and Alexander A. Shapiro  
**(Fluid Phase Equilibria, 225 (2004) 13-22)**
- SEP 0407** “Prediction of Mineral Scale formation in Geothermal and Oilfield Operations using the Extended UNIQUAC Model. Part I: Sulphate Scaling Minerals”  
Ada Villafáfila García, Kaj Thomsen and Erling H. Stenby  
**(Geothermics, 34(1) (2005) 61-97)**
- SEP 0408** “Internal pressure and solubility parameters as a function of pressure”  
Sylvain Verdier and Simon Ivar Andersen  
**(Fluid Phase Equilibria, 231(2) (2005) 125-137)**
- SEP 0409** “Direct Measurement of Gas Solubility and Diffusivity in Poly(vinylidene fluoride) with a High-Pressure Microbalance”  
Nicolas von Solms, Nicoletta Zecchin, Adam Rubin, Simon Ivar Andersen and Erling H. Stenby  
**(European Polymer Journal, 41 (2005) 341-348)**

- SEP 0410** “Applying Association Theories to Polar Fluids”  
Nicolas von Solms, Michael L. Michelsen and Georgios Kontogeorgis  
**(Ind. Eng. Chem. Res., 43 (2004) 1803-1806)**
- SEP 0411** “Theoretical and Experimental Comparison of the Soret Coefficient for Water-Methanol and Water-Ethanol Binary Mixtures”  
M.Z. Saghir, C.G. Jiang, S.O. Derawi, E.H. Stenby and M. Kawaji  
**(The European Physical Journal E, 15 (2004) 241-247)**  
**(Presented at International Conference on Thermal Engineering, Beirut, Libanon, June, 2004)**
- SEP 0412** “Application of the CPA equation of state to organic acids”  
S.O. Derawi, J. Zeuthen, M.L. Michelsen, E.H. Stenby, G.M. Kontogeorgis  
**(Fluid Phase Equilibria, 225(1-2) (2004) 107-113)**
- SEP 0413** “Modeling Vapor-Liquid Interfaces With the Gradient Theory in Combination with the CPA Equation of State”  
António J. Queimada, Christelle Miqueu, Isabel M. Marrucho, Georgios M. Kontogeorgis and João A.P. Coutinho  
**(Fluid Phase Equilibria, 228-229 (2005) 479-485)**
- SEP 0414** “Experimental measurement and modeling of the distribution of solvent and ions between an aqueous phase and an ion exchange resin”  
Søren Gregers Christensen and Kaj Thomsen  
**(Fluid Phase Equilibria, 228-229 (2005) 247-260)**
- SEP 0415** “Barotropic Phenomena in Complex Phase Behaviour”  
S.E. Quiñones-Cisneros  
**(Phys. Chem. Chem. Phys., 6 (2004) 2307-2313)**
- SEP 0416** “Liquid-Liquid Equilibria for Binary and Ternary Polymer Solutions with PC-SAFT”  
Thomas Lindvig, Michael L. Michelsen and Georgios M. Kontogeorgis  
**Ind. Eng. Chem. Res., 43 (2004) 1125-1132)**
- SEP 0417** “Van der Waals-based Cubic Equations of State for Asymmetric Systems using a Simple Mixing Rule”  
Georgios M. Kontogeorgis and Philippos Coutsikos  
**(Internal Report)**
- SEP 0418** “Carbon Dioxide and Hydrogen Sulfide Absorption Into Aqueous Solutions of Alkanolamines”  
Athanasios Vrachnos and Georgios M. Kontogeorgis  
**(Internal Report)**

- SEP 0419** “Chemical Product Design: A New Challenge of Applied Thermodynamics”  
Jens Abildskov and Georgios M. Kontogeorgis  
**(Chemical Engineering Research and Design, Special issue on design and engineering of chemical products, 82(A11) (2004) 1505-1510)**
- SEP 0420** “Part I. Introduction to Computer Aided Property Estimation”  
Rafiqul Gani and Georgios M. Kontogeorgis  
**(Chapter 1 in the book “Computer Aided Property Estimation for Process and Product Design”, Edited by Georgios M. Kontogeorgis and Rafiqul Gani, Vol. 19 in ser. Computer-Aided Chemical Engineering, Elsevier, 2004)**
- SEP 0421** “Application of Property Models in Chemical Product Design”  
Rafiqul Gani, Jens Abildskov and Georgios M. Kontogeorgis  
**(Chapter 14 in the book “Computer Aided Property Estimation for Process and Product Design”, Edited by Georgios M. Kontogeorgis and Rafiqul Gani, Vol. 19 in ser. Computer-Aided Chemical Engineering, Elsevier, 2004)**
- SEP 0422** “Equations of State with Emphasis on Excess Gibbs Energy Mixing Rules”  
Epaminondas C. Voutsas, Philippos Coutoskos and Georgios M. Kontogeorgis  
**(Chapter 5 in the book “Computer Aided Property Estimation for Process and Product Design”, Edited by Georgios M. Kontogeorgis and Rafiqul Gani, Vol. 19 in ser. Computer-Aided Chemical Engineering, Elsevier, 2004)**
- SEP 0423** “Part IV: Challenges and Opportunities”  
Georgios M. Kontogeorgis and Rafiqul Gani  
**(Chapter 16 in the book “Computer Aided Property Estimation for Process and Product Design”, Edited by Georgios M. Kontogeorgis and Rafiqul Gani, Vol. 19 in ser. Computer-Aided Chemical Engineering, Elsevier, 2004)**
- SEP 0424** “Models for Polymer Solutions”  
Georgios M. Kontogeorgis  
**(Chapter 7 in the book “Computer Aided Property Estimation for Process and Product Design”, Edited by Georgios M. Kontogeorgis and Rafiqul Gani, Vol. 19 in ser. Computer-Aided Chemical Engineering, Elsevier, 2004)**
- SEP 0425** “Part II: Models for Properties”  
Jens Abildskov, Georgios M. Kontogeorgis and Rafiqul Gani  
**(Chapter 4 in the book “Computer Aided Property Estimation for Process and Product Design”, Edited by Georgios M. Kontogeorgis and Rafiqul Gani, Vol. 19 in ser. Computer-Aided Chemical Engineering, Elsevier, 2004)**

- SEP 0426** “Modeling Electrolyte Solutions with the extended universal quasichemical (UNIQUAC) Model”  
Kaj Thomsen  
**(Presented at the 11<sup>th</sup> ISSP in Aveiro, Portugal, 2004)**  
**(Journal of Pure and Applied Chemistry, 77 (2005) 531-542)**
- SEP 0427** “Liquid-Liquid Equilibrium of Binary Polymer Solutions using a Free-Volume UNIQUAC-NRF Model  
H.R. Radfarnia, C. Ghotbi, V. Taghikhani and Georgios M. Kontogeorgis  
**(Replaced by SEP 0606)**
- SEP 0428** “Correlation and Prediction of Environmental Properties of Alcohol Ethoxylate Surfactants Using the UNIFAC Method”  
Hongyuan Chen, Georgios M. Kontogeorgis and Erling H. Stenby  
**(Industrial & Engineering Chemistry Research, 44(18) (2005) 7255-7261)**
- SEP 0429** “Representation of Volumetric Data of Electrolyte Solutions at Varying Concentrations and Temperatures”  
Søren Gregers Christensen and Kaj Thomsen  
**(Internal Report)**
- SEP 0430** “Recent Applications of the Cubic-Plus-Association (CPA) Equation of State to Industrially Important Systems”  
Georgios K. Folas, Samer O. Derawi, Michael L. Michelsen, Erling H. Stenby and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 228-229 (2005) 121-126)**
- SEP 0431** “Experimental Determination of Solubility Parameters of Oils as a Function of Pressure”  
Sylvain Verdier, Diep Duong and Simon I. Andersen  
**(Energy and Fuels, 19(4) (2005) 1225-1229)**
- SEP 0432** **Replaced by 0411**
- SEP 0433** “Rescaling of Three-Parameter Equations of State: PC-SAFT and SPHCT”  
Martin Cismondi, Esteban A. Brignole and Jørgen Møllerup  
**(Fluid Phase Equilibria, 234 (2005) 108-121)**
- SEP 0434** “Fluid Characterization for Miscible EOR Projects and CO<sub>2</sub> Sequestration”  
Erling H. Stenby and Kristian Jessen  
**(SPE Reservoir Evaluation and Engineering, 10(5) (2007) 482-488)**
- SEP 0435** “Compositional Evolution of the Emplaced Fuel Source in the Vadose Zone Field Experiment at Airbase Værløse, Denmark”  
Mette M. Broholm, Mette Christophersen, Uli Maier, Erling H. Stenby and Peter Kjeldsen  
**(Environ. Sci. Technol., 39 (2005) 8251-8263)**



- SEP 0436** “Viscosity Measurements and Correlations of Binary Mixtures: 1,1,1,2-tetrafluoroethane (HFC-134a) + tetraethylene glycol dimethylether (TEGDME)”  
M.A. Monsalvo, A. Baylaucq, P. Reghem, S.E. Quiñones-Cisneros and C. Boned  
**(Fluid Phase Equilibria, 233 (2005) 1-8)**
- SEP 0437** “Modelling of salt activities in aqueous amino acid solutions I. The UNIQUAC model”  
Martin P. Breil and Jørgen M. Mollerup  
**(Internal Report)**
- SEP 0438** “Modelling of salt activities in aqueous amino acid solutions II. The Kirkwood theory”  
Martin P. Breil and Jørgen M. Mollerup  
**(Internal Report)**
- SEP 0439** “Comments to: “Generalized Procedure for Estimating the Fractions of Nonbonded Associating Molecules and Their Derivatives in Thermodynamic Perturbation Theory”  
Michael L. Michelsen  
**(Industrial & Engineering Chemistry Research 43(19) (2004) 6262-6263)**
- SEP 0440** “Development and Application of a Three-Parameter RK-PR Equation of State”  
Martín Cismondi and Jørgen Mollerup  
**(Fluid Phase Equilibria, 232 (2005) 74-89)**
- SEP 0441** “The Influence of Retention on the Plate Height in Ion-Exchange Chromatography”  
Ernst Hansen and Jørgen Mollerup  
**(Separation Science and Technology, 39(9) (2004) 2011-2030)**

- SEP 0501** “Density Measurements under Pressure for the Binary System Ethanol + Methylcyclohexane”  
Claus K. Zéberg-Mikkelsen, Luis Lugo and Josefa Fernández  
**(Journal of Chemical Thermodynamics, 37 (12) (2005) 1294-1304)**
- SEP 0502** “A Model for Estimating CO<sub>2</sub> Solubility in Aqueous Alkanolamines”  
Jostein Gabrielsen, Michael L. Michelsen, Erling H. Stenby and Georgios M. Kontogeorgis  
**(Ind. Eng. Chem. Res. , 44 (2005) 3348-3354)**  
**(Presented as poster at the 21<sup>st</sup> ESAT Conference, 1-5 June, 2005, Jurata, Poland)**
- SEP 0503** “Extension of the Cubic-Plus-Association (CPA) Equation of State to Amines”  
Mads Kaarsholm, Samer O. Derawi, Michael L. Michelsen and Georgios M. Kontogeorgis  
**(Industrial and Engineering Chemistry Research, 44(12) (2005) 4406-4413)**
- SEP 0504** “Applied thermodynamics in chemical engineering in the 20<sup>th</sup> and 21<sup>st</sup> centuries”  
Erling H. Stenby and Georgios M. Kontogeorgis  
**(From the book "BRIDGING from technology to society" published on occasion of the 175 years' anniversary of DTU)**
- SEP 0505** “Prediction and Correlation of High-Pressure Gas Solubility in Polymers with Simplified PC-SAFT”  
N. von Solms, M. L. Michelsen and G. M. Kontogeorgis  
**(Ind. Eng. Chem. Res., 44 (2005) 3330-3335)**
- SEP 0506** “Effect of Asphaltenes on Crude Oil Wax Crystallization”  
Pavel Kriz and Simon I. Andersen  
**(Energy & Fuels, 19(3) (2005) 948-953)**
- SEP 0507** “Density Measurements under Pressure for the Binary System 1-Propanol + Toluene”  
Claus K. Zéberg-Mikkelsen and Simon I. Andersen  
**(Journal of Chemical & Engineering Data, 50(2) (2005) 524-528)**
- SEP 0508** “A Stochastic Model for Filtration of Particulate Suspensions with Incomplete Pore Plugging”  
A. A. Shapiro, P. G. Bedrikovetsky, A. Santos and O. O. Medvedev  
**(Transport in Porous Media, 67 (2007) 135-164)**
- SEP 0509** “Prediction of Mineral Scale Formation in Geothermal and Oilfield Operations Using the Extended UNIQUAC Model. Part II: Carbonate Scaling Minerals”  
Ada Villafáfila Garcia, Kaj Thomsen and Erling H. Stenby  
**(Geothermics, 35(3) (2006) 239-284)**

- SEP 0510** “Modeling diffusion coefficients in binary mixtures of polar and non-polar compounds”  
Oleg O. Medvedev and Alexander A. Shapiro  
**(Fluid Phase Equilibria, 236 (2005) 111-124)**
- SEP 0511** “Molecular dynamics simulations of the penetration lengths: application within the fluctuation theory for diffusion coefficients”  
Guillaume Galliero, Oleg O. Medvedev and Alexander A. Shapiro  
**(Physica A 350 (2005) 315-337)**
- SEP 0512** “Comments on “Predictions of Activity Coefficients of Nearly Athermal Binary Mixtures Using Cubic Equations of State”  
Georgios M. Kontogeorgis and Philippos Coutosikos  
**(Industrial & Engineering Chemistry Research, 44(9) (2005) 3374-3375)**
- SEP 0513** “Investigating Equations of State for Associating Fluids Using Spectroscopy”  
Nicolas von Solms, Jonas L. Kofod, Lars Jensen, Claudia Pereira Passos, Samer O. Derawi, Simon I. Andersen, Michael L. Michelsen and Georgios M. Kontogeorgis  
**(Presented as an oral presentation at the 21st ESAT Conference, 1-5 June, 2005, Jurata, Poland)**
- SEP 0514** “Modeling of Aqueous Electrolyte Solutions with Perturbed-Chain Statistical Associated Fluid Theory”  
Luca F. Cameretti and Gabriele Sadowski and Jørgen Møllerup  
**(Ind. Eng. Chem. Res. ,44 (2005) 3355-3362)**
- SEP 0515** “Volumetric Properties under Pressure for the Binary System Ethanol + Toluene”  
Claus K. Zéberg-Mikkelsen, Luis Lugo, Josefa García and Josefa Fernández  
**(Fluid Phase Equilibria, 235 (2005) 139-151)**
- SEP 0516** “Effect on Molecular Interactions of Chemical Alteration of Petroleum Asphaltenes I”  
P. Juyal, D. Merino-Garcia and S.I. Andersen  
**(Energy & Fuels, 19(4) (2005) 1272-1281)**
- SEP 0517** “Predicting enhanced absorption of light gases in polyethylene using simplified PC-SAFT and SAFT-VR”  
Andrew J. Haslam, Nicolas von Solms, Claire S. Adjiman, Amparo Galindo, George Jackson, Patrice Paricaud, Michael L. Michelsen and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 243 (2006) 74-91)**
- SEP 0518** “A Splitting Technique for Analytical Modelling of Two-Phase Multicomponent Flow in Porous Media”  
Adolfo P. Pires, Pavel G. Bedrikovetsky and Alexander A. Shapiro  
**(Journal of Petroleum Science and Engineering, 51 (2006) 54-67)**

- SEP 0519** “Application of the Cubic-Plus-Association (CPA) Equation of State to Cross-Associating Systems”  
Georgios K. Folas, Jostein Gabrielsen, Michael L. Michelsen, Erling H. Stenby and Georgios M. Kontogeorgis  
**(Ind. Eng. Chem. Res., 44 (2005) 3823-3833)**
- SEP 0520** “Experimental Investigation of the Diffusion Coefficients in Porous Media by Application of X-Ray Computer Tomography”  
P.V. Zhelezny and A.A. Shapiro  
**(Journal of Porous Media, 9(3) (2006) 1-14)**
- SEP 0521** “Scale-up of Chromatographic Ion Exchange Processes in Biotechnology”  
Sattar Al-Jibbouri and Jørgen Mollerup  
**(Replaced by SEP 0618)**
- SEP 0522** “Investigating Models for Associating Fluids Using Spectroscopy”  
Nicolas von Solms, Michael L. Michelsen, Claudia Pereira Passos, Samer O. Derawi and Georgios M. Kontogeorgis  
**(Ind. Eng. Chem. Res., 45(15) (2006) 5368-5374)**
- SEP 0523** “Biothermodynamics – a Tool for a More Efficient Process Development”  
J. M. Mollerup  
**(BIOforum Europe no. 6 (2005) 56-57)**
- SEP 0524** “Towards Asphaltenes Characterization by Simple Measurements”  
Sylvain Verdier, Frédéric Plantier, David Bessières, Simon Ivar Andersen and Hervé Carrier  
**(Presented at The Seventeenth European Conference on Thermophysical Properties, Bratislava, September 2005)**
- SEP 0525** “Precipitation Caused by CO<sub>2</sub> Injection: Experiments and Modelling”  
Sylvain Verdier, Simon I. Andersen, Hervé Carrier, Jean-Luc Daridon and Honggang Zhou  
**Presented at the 6th International Symposium on Petroleum Phase Behaviour and Fouling, Amsterdam, June 2005)**
- SEP 0526** “Application of Advanced Thermodynamic Models for Complex Fluids and Reservoirs”  
Wei Yan, Georgios M. Kontogeorgis and Erling H. Stenby  
**(Presented at the 26<sup>th</sup> IEA Annual Workshop & Symposium on Enhanced Oil Recovery, Japan, September 25-29, 2005)**
- SEP 0527** “Leaching of Nutrient Salts from Fly Ash from Biomass Combustion”  
Kaj Thomsen, Duc Thoung Vu, Mette Stenby, Jørgen Peter Jensen, Peter Simonsen and Bo Sander  
**(Proceedings from 14<sup>th</sup> European Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection, October 2005, p. 1273-1276)**

- SEP 0528** “High-pressure viscosity measurements for the ethanol plus toluene binary system”  
C.K. Zeberg-Mikkelsen, A. Baylaucq, G. Watson, C. Boned  
**(International Journal of Thermophysics, 26(5) (2005) 1289-1302)**
- SEP 0529** ”Qualitative analysis of thin films of crude oil deposits on the metallic substrate by Fourier transform infrared (FTIR) microscopy”  
N. Batina, A. Reyna-Cordova, Y. Trinidad, M. Quintana-Garcia, E. Buenrostro-Gonzalez, C. Lira-Galeana, S.I. Andersen  
**(Energy & Fuels, 19(5) (2005) 2001-2005)**
- SEP 0530** “Calorimetric Evidence about the Application of the Concept of CMC to Asphaltene Self-Association”  
Daniel Merino-Garcia and Simon I. Andersen  
**(Journal of Dispersion Science and Technology, 26 (2005) 217-225)**
- SEP 0531** “A modified free-volume-based model for predicting vapor-liquid and solid-liquid equilibria for size asymmetric systems”  
H.R. Radfarnia, C. Ghotbi, V. Taghikhani, G.M. Kontogeorgis  
**(Fluid Phase Equilibria, 234(1-2) (2005) 94-100)**
- SEP 0532** “Density and viscosity behavior of a North Sea crude oil, natural gas liquid, and their mixtures”  
K.A.G. Schmidt, S.E. Quinones-Cisneros, B. Kvamme  
**(Energy & Fuels, 19(4) (2005) 1303-1313)**
- SEP 0533** “Density and viscosity modeling and characterization of heavy oils”  
S.E. Quinones-Cisneros, S.I. Andersen  
**(Energy & Fuels, 19(4) (2005) 1314-1318)**

- SEP 0601** “Prediction of viscosities and surface tensions of fuels using a new corresponding states model”  
A.J. Queimada, L.I. Rolo, A.I. Caco, I.M. Marrucho, E.H. Stenby and J.A.P. Coutinho  
**(Fuel, 85 (2006) 874-877)**
- SEP 0602** “Robust and efficient solution procedures for association models”  
Michael L. Michelsen  
**(Industrial & Engineering Chemistry Research, 45 (25) (2006) 8449-8453)**
- SEP 0603** “Evaluation of the Truncated Perturbed Chain-Polar Statistical Associating Fluid Theory for Complex Mixture Fluid Phase Equilibria”  
Eirini K. Karakatsani, Georgios M. Kontogeorgis and Ioannis G. Economou  
**(Ind. Eng. Chem. Res., 45(17) (2006) 6063-6074)**
- SEP 0604** “Correlations; Approach Suitable for Screening Estimation Methods for Critical Properties of Heavy Compounds”  
Ana Zbogar, Filipe Vidal Da Silva Lopes and Georgios M. Kontogeorgis  
**(Ind. Eng. Chem. Res., 45 (2006) 476-480)**
- SEP 0605** “Thermodynamic Modeling of Acid Gas Solubility in Aqueous Solutions of MEA, MDEA and MEA-MDEA blends”  
Athanasios Vrachnos, Georgios M. Kontogeorgis and Epanonondas Voutsas  
**(Ind. Eng. Chem. Res., 45(14) (2006) 5148-5154)**
- SEP 0606** “(Liquid – liquid) equilibria of binary polymer solutions using a free-volume UNIQUAC-NRF model”  
H.R. Radfarnia, C. Ghotbi, V. Taghikhani and G.M. Kontogeorgis  
**(Journal of Chemical Thermodynamics, 38(7) (2006) 923-928)**
- SEP 0607** “Capabilities, limitations and challenges of a simplified PC-SAFT equation of state”  
Nicolas von Solms, Irene A. Kouskoumvekaki, Michael L. Michelsen and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 241 (2006) 344-353)**
- SEP 0608** “Application of the Cubic-Plus-Association (CPA) Equation of State to Complex Mixtures with Aromatic Hydrocarbons”  
Georgios K. Folas, Georgios M. Kontogeorgis, Michael L. Michelsen and Erling H. Stenby  
**(Ind. Eng. Chem. Res., 45 (2006) 1527-1538)**
- SEP 0609** “Application of the Cubic-Plus-Association Equation of State to Mixtures with Polar Chemicals and High Pressures”  
Georgios K. Folas, Georgios M. Kontogeorgis, Michael L. Michelsen and Erling H. Stenby  
**(Ind. Eng. Chem. Res., 45 (2006) 1516-1526)**

- SEP 0610** “Liquid-liquid equilibria for binary and ternary systems containing glycols, aromatic hydrocarbons and water. Experimental measurements and modeling with the CPA EoS”  
Georgios K. Folas, Georgios M. Kontogeorgis, Michael L. Michelsen, Erling H. Stenby and Even Solbraa  
**(Journal of Chem. Eng. Data, 51(3) (2006) 977-983)**
- SEP 0611** “Ten years with the CPA (Cubic-Plus-Association) equation of state. Part I. Pure compounds and Self-associating system”  
G.M. Kontogeorgis, M.L. Michelsen, G.K. Folas, S.O. Derawi, N. von Solms and E.H. Stenby  
**(Ind. Eng. Chem. Res., 45(14) (2006) 4855-4868)**
- SEP 0612** “Ten years with the CPA (Cubic-Plus-Association” equation of state. Part II. Cross-associating and multicomponent systems”  
G.M. Kontogeorgis, M.L. Michelsen, G.K. Folas, S.O. Derawi, N. von Solms and E.H. Stenby  
**(Ind. Eng. Chem. Res., 45(14) (2006) 4869-4878)**
- SEP 0613** “Global Phase Equilibrium Calculations: Critical Lines, Critical End Points and Liquid-Liquid-Vapour Equilibrium in Binary Mixtures”  
Martín Cismondi and Michael L. Michelsen  
**(Replaced by SEP 0704)**
- SEP 0614** “Increasing the Computational Speed of Flash Calculations With Applications for Compositional, Transient Simulations”  
Claus P. Rasmussen, Kristian Krejbjerg, Michael L. Michelsen and Kersti E. Bjurstrøm  
**(SPE 84181 (2006) 32-38)**
- SEP 0615** ”Applied thermodynamics: A new frontier for biotechnology”  
Jørgen Mollerup  
**(Fluid Phase Equilibria, 241 (2006) 205-215)**
- SEP 0616** “The McMillan-Mayer framework and the theory of electrolyte solutions”  
Martin P. Breil and Jørgen M. Mollerup  
**(Fluid Phase Equilibria, 242 (2006) 129-135)**
- SEP 0617** “Comparison of two association models (ESD and simplified PC-SAFT) for complex phase equilibria of hydrocarbon-water and amine-containing mixtures”  
Andreas Grenner, Jürgen Schmelzer, Nicolas von Solms and Georgios M. Kontogeorgis  
**(Industrial & Engineering Chemical Research, 45(24) (2006) 8170-8179)**
- SEP 0618** “Scale-up the chromatographic ion-exchange processes in biotechnology”  
Sattar Al-Jibbouri  
**(Journal of Chromatography A, 1116 (2006) 135-142)**

- SEP 0619** “Diffusion Measurements in Binary Liquid Mixtures by Raman Spectroscopy”  
Rolf W. Berg, Susanne Brunsgaard Hansen, Alexander A. Shapiro and Erling H. Stenby  
**(Applied Spectroscopy, 61(4) (2007) 367-373)**
- SEP 0620** “Elliptic equation for random walks. Application to Transport in Microporous Media”  
Alexander A. Shapiro  
**(Physica A, 375 (2007) 81-96)**
- SEP 0621** “Modeling of CO<sub>2</sub> Absorber Using an AMP Solution”  
Jostein Gabrielsen, Michael L. Michelsen, Erling H. Stenby and Georgios M. Kontogeorgis  
**(AIChE Journal, 52(10) (2006) 3443-3451)**
- SEP 0622** “Comparison of the SRK and CPA equations of state for physical properties of water and methanol”  
Carsten Lundstrøm, Michael L. Michelsen, Georgios M. Kontogeorgis, Karen S. Pedersen and Henrik Sørensen  
**(Fluid Phase Equilibria, 247 (2006) 149-157)**
- SEP 0623** “Applications of the simplified perturbed-chain SAFT equation of state using an extended parameter table”  
Amra Tihic, Georgios M. Kontogeorgis, Nicolas von Solms and Michael L. Michelsen  
**(Fluid Phase Equilibria, 248 (2006) 29-43)**
- SEP 0624** “Modeling the Liquid-Liquid Equilibria of Water + Fluorocarbons with the Cubic-Plus-Association Equation of State”  
Mariana B. Oliveira, Mara G. Freire, Isabel M. Marrucho, Georgios M. Kontogeorgis, António J. Queimada, João A.P. Coutinho  
**(Ind. Eng. Chem. Res., 46 (2007) 1415-1420)**
- SEP 0625** “Study of Pressure and Temperature Effects on Asphaltene Stability in Presence of CO<sub>2</sub>”  
Sylvain Verdier, Hervé Carrier, Simon I. Andersen and Jean-Luc Daridon  
**(Energy & Fuels, 20 (2006) 1584-1590)**
- SEP 0626** “Efficient Reaction Integration for In-Situ Combustion Simulation”  
Morten R. Kristensen, Margot Gerritsen, Per G. Thomsen, Michael L. Michelsen and Erling H. Stenby  
**(Proceedings, 27<sup>th</sup> IEA Enhanced Oil Recovery Symposium and Workshop, Paris, France, 19-22 September)**
- SEP 0627** “Modeling Adsorption of Binary and Ternary Mixtures on Microporous Media”  
Matias A. Monsalvo and Alexander A. Shapiro  
**(Fluid Phase Equilibria, 254 (2007) 91-100)**



- SEP 0628** “The Influence of Salt Type on the Retention of Bovine Serum Albumin in Ion-Exchange Chromatography”  
Sattar Al-Jibbouri  
**(Journal of Chromatography A, 1139 (2007) 57-62)**
- SEP 0629** “Vapor-liquid, liquid-liquid and vapor-liquid-liquid equilibrium of binary and multicomponent systems with MEG modeling with the CPA EoS and an EoS/G(E) model”  
Georgios K. Folas, Georgios Kontogeorgis, Michael L. Michelsen and Erling H. Stenby  
**(Fluid Phase Equilibria, 249(1-2) (2006) 67-74)**

- SEP 0701** “High-pressure Vapor-liquid Equilibria of Systems Containing Ethylene Glycol, Water and Methane. Experimental Measurements and Modeling”  
Georgios K. Folas, Ole J. Berg, Even Solbraa, Arne O. Fredheim, Georgios K. Kontogeorgis, Michael L. Michelsen and Erling H. Stenby  
**(Fluid Phase Equilibria, 251 (2007) 52-58)**
- SEP 0702** “Data and Prediction of Water Content of High Pressure Nitrogen, Methane and Natural Gas”  
Georgios K. Folas, Einar W. Froyna, Jørgen Løvland, Georgios M. Kontogeorgis and Even Solbraa  
**(Fluid Phase Equilibria, 252 (2007) 162-174)**
- SEP 0703** “CAPE-Open: An international standard”  
Martin P. Breil, Georgios M. Kontogeorgis, Nicolas von Solms and Erling H. Stenby  
**(Chemical Engineering, 114 (2007) 52-55)**
- SEP 0704** “Global Phase Equilibrium Calculations: Critical Lines, Critical End Points and Liquid-Liquid-Vapour Equilibrium in Binary Mixtures”  
Martin Cismondi and Michael L. Michelsen  
**(Journal of Supercritical Fluids, 39 (3) (2007) 287-295)**
- SEP 0705** “Multi Component Equations of State for Electrolytes”  
Yi Lin, Kaj Thomsen and Jean-Charles de Hemptinne  
**(AIChE Journal, 53(4) (2007) 989-1005)**
- SEP 0706** “Solubility of Gases and Solvents in Silicon Polymers: Molecular Simulation and Equation of State Modeling”  
Ioannis Economou, Z.A. Makrodimitri, Georgios M. Kontogeorgis, Amra Tihic  
**(Journal of Molecular Simulation, 33 (2007) 851-860)**
- SEP 0707** “Calculation of the Effect of Macromolecular Architecture on Structure and Thermodynamic Properties of Linear – Tri-Arm Polyethylene Blends from Monte Carlo Simulation”  
Anatassia n. Rissanou, loukas D. Peristeras and Ioannis G. Economou  
**(Polymer, 48 (2007) 3883-3892)**
- SEP 0708** “Application of the CPA Equation of State to Reservoir Fluids in Presence of Water and Polar Chemicals”  
Wei Yan, Georgios M. Kontogeorgis and Erling H. Stenby  
**(Fluid Phase Equilibria, 276(1) (2009) 75-85)**
- SEP 0709** “Application of PC-SAFT to Glycol Containing Systems – PC-SAFT Towards a Group Contribution Method”  
Andreas Grenner, Georgios M. Kontogeorgis, Nicolas von Solms and Michael L. Michelsen  
**(Fluid Phase Equilibria, 261(1-2) (2007) 248-257)**

- SEP 0710** “Hybridization of the Probability Perturbation Method with Gradient Information”  
Kent Johansen, Jef Caers, and Satomi Suzuki  
**(Journal of Computational Geosciences, 11 (2007) 319-331)**
- SEP 0711** “On the Estimation of Water Pure Compound Parameters in Association Theories”  
A. Grenner, G. M. Kontogeorgis, M. L. Michelsen and G. K. Folas  
**(Molecular Physics, 105(13-14) (2007) 1737-1801)**
- SEP 0712** “Modeling Phase Equilibria of Alkanols with the Simplified PC-SAFT Equation of State and Generalized Pure Compound Parameters”  
A. Grenner, G. M. Kontogeorgis, N. v. Solms and M. L. Michelsen  
**(Fluid Phase Equilibria, 258(1) (2007) 83-94)**
- SEP 0713** “Modelling of Associating Mixtures for Applications in the Oil & Gas and Chemical Industries”  
Georgios M. Kontogeorgis, Georgios K. Folas, Núria Muro-Suñe, Nicolas von Solms, Michael L. Michelsen and Erling H. Stenby  
**(Fluid Phase Equilibria, 261 (2007) 205-211)**
- SEP 0714** Letter to the editor. Comments on “Measurement and Modeling of the Solubility of Water in Supercritical Methane and Ethane from 310 to 477 K and Pressures from 3.4 to 110 MPa”  
Georgios M. Kontogeorgis and Wei Yan  
**(Industrial and Engineering Chemistry Research, 46(12) (2007) 4347-4348)**
- SEP 0715** “Measurement and Modelling of Hydrogen Bonding in 1-alkanol + *n*-alkane Binary Mixtures”  
Nicolas von Solms, Lars Jensen, Jonas L. Kofod, Micheal L. Michelsen and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 261(1-2) (2007) 272-280)**
- SEP 0716** “Experimental Validation of a Rate-based Model for CO<sub>2</sub> Capture Using an AMP Solution”  
J. Gabrielsen, H. F. Svendsen, M. L. Michelsen, E. H. Stenby and G. M. Kontogeorgis  
**(Chem. Eng. Sci., 62 (2007) 2397-2413)**
- SEP 0717** ”Experimental Investigation of Liquid Chromatography Columns by Means of Computed Tomography”  
Dirk-Uwe Astrath, Florian Lottes, Duc Thoung Vu, Wolfgang Arlt, and Erling H. Stenby  
**(Adsorption, 13 (2007) 9-19)**

- SEP 0718** “Refrigeration Plants Using Carbon Dioxide as Refrigerant: Measuring and Modelling the Solubility and Diffusion of Carbon Dioxide in Polymers used as Sealing Materials”  
Nicolas von Solms, and Jakob Kristensen  
**(International Journal of Refrigeration, 33 (2010) 19-25)**
- SEP 0719** “Adsorption of Amylase Enzyme on Ultrafiltration Membranes”  
Søren Prip Beier, Ann Dorrit Enevoldsen, Georgios M. Kontogeorgis, Ernst B. Hansen, and Gunnar Jonsson  
**(Langmuir, 23(18) (2007) 9341-9351)**
- SEP 0720** “The Hansen Solubility Parameters (HSP) in Thermodynamic Models for Polymer Solutions”  
Georgios M. Kontogeorgis  
**(Chapter in the book “Hansen Solubility Parameters – A user’s handbook” by Charles Hansen, CRC Press, 2<sup>nd</sup> edition, 75-94)**
- SEP 0721** “A Splitting Technique for Analytical Modelling of Two Phase Multicomponent Flow in Porous Media”  
A. P. Pires, P. G. Bedrikovetsky, and A. A. Shapiro  
**(Journal of Petroleum Science and Engineering, 51 (2006) 54-67)**
- SEP 0722** “Study of the Solubility of a Modified *Bacillus licheniformis*  $\alpha$ -Amylase around the Isoelectric Point”  
Cornelius Faber, Timothy J. hobley, Jørgen Mollerup, Owen R. T. Thomas, and Svend G. Kaasgaard  
**(J. Chem. Eng. Data, 52 (2007) 707-713)**
- SEP 0723** “Adhesion between coating layers based on epoxy and silicone”  
Jacob R. Svendsen, Georgios M. Kontogeorgis, Søren Kiil, Claus E. Weinell, and Martin Grønlund  
**(Journal of Colloid and Interface Science, 316 (2007) 678-686)**
- SEP 0724** “Coupling Chemical Kinetics and Flashes in Reactive, Thermal and Compositional Reservoir Simulation”  
M. R. Kristensen, M. G. Gerritsen, P. G. Thomsen, M. L. Michelsen, and E. H. Stenby  
**(SPE 106218, In Proceedings of the SPE Reservoir Simulation Symposium, Houston, Texas, USA, February 26-28, 2007)**
- SEP 0725** “Gas Transport in Tight Porous Media. Gas Kinetic Approach”  
A. A. Shapiro, and J. A. Wesselingh  
**(Chemical Engineering Journal, 142 (2008) 14-22)**
- SEP 0726** “Prediction of Adsorption from Liquid Mixtures in Microporous Media by the Potential Theory”  
Matias A. Monsalvo, and Alexander A. Shapiro  
**(Fluid Phase Equilibria, 261 (2007) 292-299)**

- SEP 0727** “Influence of Structured Packing on Gas Holdup in a Three-Phase Bubble Column”  
Matías Monsalvo, and Ursula Böhm  
**(Chemical Engineering Science, 62 (2007) 6595-6603)**
- SEP 0728** “High-pressure Viscosity Behavior of x 1,1,1,2-tetrafluoroethane (HFC-134a) + (1-x) Triethylene Glycol Dimethylether (TriEGDME) Mixtures: Measurements and Modeling”  
Matías A. Monsalvo, Antoine Baylaucq, Sergio E. Quiñones-Cisneros, and Christian Boned  
**(Fluid Phase Equilibria, 247 (2006) 70-79)**
- SEP 0729** “Corrigendum to “High-pressure Viscosity Behavior of x 1,1,1,2-tetrafluoroethane (HFC-134a) + (1-x) Triethylene Glycol Dimethylether (TriEGDME) Mixtures: Measurements and Modeling” [Fluid Phase Equilibria 247 (2006) 70-79]”  
Matías A. Monsalvo, Antoine Baylaucq, Sergio E. Quiñones-Cisneros, and Christian Boned  
**(Fluid Phase Equilibria, 258 (2007) 95-97)**
- SEP 0730** “Efficient Integration of Stiff Kinetics with Phase Change Detection for Reactive Reservoir Processes”  
Morten R. Kristensen, Margot G. Gerritsen, Per G. Thomsen, Michael L. Michelsen, and Erling H. Stenby  
**(Transport in Porous Media, 69 (2007) 383-409)**
- SEP 0731** “A Predictive Group-Contribution Simplified PC-SAFT Equation of State: Application to Polymer Systems”  
Amra Tihic, Georgios M. Kontogeorgis, Nicolas von Solms, and Michael L. Michelsen  
**(Industrial & Engineering Chemistry Research, 47(15) (2008) 5092-5101)**
- SEP 0732** “Measurement and Modelling of the Mixed Solvent Electrolyte System Na<sub>2</sub>CO<sub>3</sub>-NaHCO<sub>3</sub>-Mono Ethylene Glycol-Water”  
Philip L. Fosbøl, Kaj Thomsen, and Erling H. Stenby  
**(Replaced by SEP 0901, 0903 and 0910)**
- SEP 0733** “Predictions of Flavonoid Solubility in Ionic Liquids by COSMO-RS: Experimental Verification, Structural Elucidation, and Solvation Characterization”  
Zheng Guo, Bena-Marie Lue, Kaj Thomsen, Anne Boye Strunge Meyer, and Xuebing Xu  
**(Green Chemistry, 9 (2007) 1362-1373)**
- SEP 0734** “Review and Recommended Thermodynamic Properties of FeCO<sub>3</sub>”  
Philip L. Fosbøl, Kaj Thomsen, and Erling H. Stenby  
**(Corrosion Engineering, Science and Technology, 45(2) (2010) 115-135)**

- SEP 0735** “Automated Calculation of Complete Pxy and Txy Diagrams for Binary Systems”  
Martín Cismondi, and Michael L. Michelsen  
**(Fluid Phase Equilibria, 259 (2007) 228-234)**
- SEP 0736** “Evaluation of the Non-Random Hydrogen Bonding (NRHB) Theory and the Simplified Perturbed-Chain-Statistical Associating Fluid Theory (sPC-SAFT) 1. Vapor-Liquid Equilibria”  
Andreas Grenner, Ioannis Tsivintzelis, Georgios M. Kontogeorgis, Ioannis G. Economou, and Costas Panayiotou  
**(Industrial and Engineering Chemistry Research, 47(15) (2008) 5636-5650)**
- SEP 0737** “Evaluation of the Non-Random Hydrogen Bonding (NRHB) Theory and the Simplified Perturbed-Chain-Statistical Associating Fluid Theory (sPC-SAFT) 2. Liquid – Liquid Equilibria and Prediction of Monomer Fraction in Hydrogen Bonding Systems”  
Ioannis Tsivintzelis, Andreas Grenner, Ioannis G. Economou, and Georgios M. Kontogeorgis  
**(Industrial and Engineering Chemistry Research, 47(15) (2008) 5651-5659)**
- SEP 0738** “Propane Hydrate Nucleation: Experimental Investigation and Correlation”  
Lars Jensen, Kaj Thomsen, and Nicolas von Solms  
**(Chemical Engineering Science, 63 (2008) 3069-3080)**
- SEP 0739** “Development, Modeling, Optimization and Scale-up of Chromatographic Purification of a Therapeutic Protein”  
Jørgen M. Møllerup, Thomas Budde Hansen, Steffen Kidal, Lars Sejergaard, and Arne Staby  
**(Fluid Phase Equilibria, 261 (2007) 133-139)**
- SEP 0740** “The Thermodynamic Principles of Ligand Binding in Chromatography and Biology”  
Jørgen M. Møllerup  
**(Journal of Biotechnology, 132 (2007) 187-195)**
- SEP 0741** “CO<sub>2</sub> Capture and Storage”  
Amit Garg, Lars R. Appelquist, and Erling H. Stenby  
**(Risø Energy Report, 6 (2007) 25-29)**
- SEP 0742** “Study of Asphaltene Precipitation by Calorimetry”  
Sylvain Verdier, Frédéric Plantier, David Bessières, Simon I. Andersen, Erling H. Stenby, and Hervé Carrier  
**(Energy & Fuels, 21 (2007) 3583-3587)**
- SEP 0743** “Estimation of Migration and Diffusion Coefficients of Monoglycerides in Polyvinyl Chloride, especially GRINDSTED® SOFT-N-SAFE”  
Rasmus Lundsgaard, Georgios M. Kontogeorgis, Jørgen K. Kristiansen, and Torkil F. Jensen  
**(Replaced by SEP 0905)**

- SEP 0744** “Calculation of the Interfacial Tension of the Methane-Water System with the Linear Gradient Theory”  
Kurt A. G. Schmidt, Georgios K. Folas, and Bjørn Kvamme  
**(Fluid Phase Equilibria, 261 (2007) 230-237)**
- SEP 0745** “A Computational Efficient and Robust Implementation of the Continuous-Discrete Extended Kalman Filter”  
John Bagterp Jørgensen, Per Grove Thomsen, Henrik Madsen, and Morten Rode Kristensen  
**(Proceeding of the American Control Conference, New York City, USA, 11-13 July, 20078)**
- SEP 0746** “Equilibria in the Mixed Solvent System Glycol-NaOH-CO<sub>2</sub>-Water Applied to Corrosion Modelling”  
Philip Loldrup Fosbøl, Kaj Thomsen, and Erling H. Stenby  
**(ECCE6 proceedings, vol. 1 (2007) 137)**
- SEP 0747** “Classical and Recent Free-Volume Models for Polymer Solutions: A Comparative Evaluation”  
Hamid Reza Radfarnia, Georgios M. Kontogeorgis, Cyrus Ghotbi, Vahid Taghikhani  
**(Fluid Phase Equilibria, 257 (2007) 63-69)**
- SEP 0748** “Solvent Phenomena in Association Theories with Applications to Oil & Gas and Chemical Industries”  
Georgios M. Kontogeorgis, Georgios K. Folas, Nuria Muro-Sune, Ferran Roca Leon, and Michael L. Michelsen  
**(Oil & Gas Science and Technology-Revue De L Institut Francais Du Petrole, 63(3) 305-319)**
- SEP 0749** “Phase Equilibrium Calculations for Multi-Component Polar Fluid Mixtures with tPC-PSAFT”  
Eirini K. Karakatsani, and Ioannis G. Economou  
**(Fluid Phase Equilibria, 261 (2007) 265-271)**

- SEP 0801** “Quality by design – Thermodynamic Modelling of Chromatographic Separation of Proteins”  
Jørgen M. Møllerup, Thomas Budde Hansen, Steffen Kidal, and Arne Staby  
**(Journal of Chromatography A, 1177 (2008) 200-206)**
- SEP 0802** ”Modeling Systems Containing Alkanolamines with the CPA Equation of State”  
Ane S. Avlund, Georgios M. Kontogeorgis, and Michael L. Michelsen  
**(Internal Report)**
- SEP 0803** “Fractional Flow Model for Suspension Transport in Porous Media (for Petroleum and Environmental Engineering)  
Pavel Bedrikovetsky and Alexander Shapiro  
**(Oral presentation at the 10<sup>th</sup> World Filtration Congress, Leipzig, Germany, 14-18 April, 2008, Conference proceedings)**
- SEP 0804** “Phase Equilibrium Modelling for Mixtures with Acetic Acid using an Association Equation of State”  
Núria Muro-Suñe, Georgios M. Kontogeorgis, Nicolas von Solms, and Michael L. Michelsen  
**( Industrial & Engineering Chemistry Research,47 (2008) 5660-5668)**
- SEP 0805** “Modelling of Phase Equilibria of Surfactant Mixtures using an Association Model”  
Nuno M. F. Garrido, Georgios K. Folas and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 273 (1-2) (2008) 11-20)**
- SEP 0806** “Challenges in teaching “Colloid and Surface Chemistry” – A Danish Experience”  
Georgios M. Kontogeorgis, and Martin E. Vigild  
**(Chemical Engineering Education, 43(2) (2009) 137-142)**
- SEP 0807** “Multi-Scale Modeling of Structure, Dynamic and Thermodynamic Properties of Imidazolium-Based Ionic Liquids: Ab Initio DFT Calculations, Molecular Simulation and Equation of State Predictions”  
I. G. Economou, E. K. Karakatsani, G. –E. Logotheti, J. Ramos, and A. Vanin  
**(Oil & Gas Science and Technology, 63(3) (2008) 283-293)**
- SEP 0808** “Hydrolysis of Cellulose Using Mono-Component Enzymes Shows Synergy during Hydrolysis of Phosphoric Acid Swollen Cellulose (PASC), but Competition on Avicel”  
Natalija Andersen, Katja S. Johansen, Michael L. Michelsen, Erling H. Stenby, Kristian B.R.M. Krogh, and Lisbeth Olsson  
**(Enzyme and Microbial Technology, 42 (2008) 362-370)**
- SEP 0809** “Random-Walk Description of Suspension Transport in Porous Media”  
Pavel Bedrikovetsky, and Alexander Shapiro  
**(Submitted for presentation at ICTAM 2008)**



- SEP 0810** “Modeling the Solid-Liquid Equilibrium in Pharmaceutical-Solvent Mixtures: Systems with Complex Hydrogen Bonding Behavior”  
Ioannis Tsivintzelis, Ioannis G. Economou, and Georgios K. Kontogeorgis  
**(AIChE Journal, 55(3) (2009) 756-770)**
- SEP 0811** “Modeling Adsorption of Liquid Mixtures on Porous Materials”  
Matias A. Monsalvo and Alexander A. Shapiro  
**(Journal of Colloid and Interface Science, 333(1) (2009) 310-316)**
- SEP 0812** “Permeability, Diffusivity and Solubility of Carbon Dioxide in Fluoropolymers: An Experimental and Modeling Study”  
Vasu Neela, and Nicolas von Solms  
**(Journal of Polymer Research, 21 (2014) 401-)**
- SEP 0813** “Elliptic Random-Walk Equation for Suspension and Tracer Transport in Porous Media”  
A.A. Shapiro, and P.G. Bedrikovetsky  
**(Physica A, 387 (2008) 5963-5978)**
- SEP 0814** ”The Chilled Ammonia Process - Evaluation of the Energy Requirements”  
Philip Loldrup Fosbøl, Erling H. Stenby, and Kaj Thomsen  
**(Internal Report)**
- SEP 0815** “Chilled Ammonia Process for CO<sub>2</sub> Capture”  
Victor Darde, Kaj Thomsen, and Erling H. Stenby  
**(Internal Report)**
- SEP 0816** “Modelling the Phase Behavior in Mixtures of Pharmaceuticals with Liquid or Supercritical Solvents”  
Ioannis Tsivintzelis, Ioannis G. Economou, and Georgios K. Kontogeorgis  
**(Journal of Physical Chemistry B, 113(18) (2009) 6446-6458)**
- SEP 0817** “A Review of the Thermodynamics of Protein Association to Ligands, Protein Adsorption, and Adsorption Isotherms”  
Jørgen M. Møllerup  
**(Chem. Eng. Technol, 31(6) (2008) 864-874)**
- SEP 0818** “Study of High-Pressure Adsorption from Supercritical Fluids by the Potential Theory”  
Matias A. Monsalvo, and Alexander A. Shapiro  
**(Fluid Phase Equilibria, 283(1-2) (2009) 56-64)**
- SEP 0819** “Analysis and Applications of a Group Contribution sPC-SAFT Equation of State”  
Amra Tihic, Nicolas von Solms, Michael L. Michelsen, Georgios M. Kontogeorgis, and Leonidas Constantinou  
**(Fluid Phase Equilibria, 281(1) (2009) 60-69)**

- SEP 0820** “Application of sPC-SAFT and Group Contribution sPC-SAFT to Polymer Systems – Capabilities and Limitations”  
Amra Tihic, Nicolas von Solms, Michael L. Michelsen, Georgios M. Kontogeorgis, and Leonidas Constantinou  
**(Fluid Phase Equilibria, 281(1) (2009) 70-77)**
- SEP 0821** “Thermodynamics of Triethylene Glycol and Tetraethylene Glycol Containing Systems Described by the CPA Equation of State”  
Martin Breil, Georgios M. Kontogeorgis  
**(Industrial and Engineering Chemistry Research, 48(11) (2009) 5472-5480)**
- SEP 0822** “Modeling of Biopharmaceutical Processes: II Process Chromatography Unit Operation”  
Oliver Kaltenbrunner, Justin McCue, Philip Engel, Jørgen Mollerup, and Anurag S. Rathore  
**(BioPharm International, 21(8) (2008) 28)**
- SEP 0823** “Thermodynamic Modeling of the Solubility of CO<sub>2</sub> in Aqueous Alkanolamine Solutions using the Extended UNIQUAC Model Application to Monoethanolamine and Methyldiethanolamine”  
Leila Faramarzi, Georgios M. Kontogeorgis, Kaj Thomsen, and Erling H. Stenby  
**(Presented at GHGT 9, Washington, November 2008)**  
**(Greenhouse Gas Control Technologies 9 Book Series: Energy Procedia, 1(1) (2009) 861-867)**
- SEP 0824** “On the Thermodynamics of the McMillan – Mayer State Function”  
Jørgen M. Mollerup, and Martin P. Breil  
**(Fluid Phase Equilibria, 276 (2009) 18-23)**
- SEP 0825** “Chilled Ammonia Process for CO<sub>2</sub> Capture”  
Victor Darde, Kaj Thomsen, Willy van Well, and Erling H. Stenby  
**(Proceedings, ICPWS XV, Berlin 2008)**  
**(Energy Procedia, 1 (2009) 1035-1042)**
- SEP 0826** “Thermodynamic Modelling of Several Aqueous Alkanol Solutions Containing Amino Acids with the PC-SAFT Equation of State”  
Luísa A. Ferreira, Martin P. Breil, Simão P. Pinho, Eugénia A. Macedo, and Jørgen M. Mollerup  
**(Industrial and Engineering Chemistry Research, 48(11) (2009) 5498-5505)**
- SEP 0827** “Extended UNIQUAC Model for Simultaneous Correlation of Vapor-Liquid and Solid-Liquid Equilibria as well as Excess Enthalpy of Aqueous Alkanolamine Systems and Aqueous CO<sub>2</sub>, Alkanolamine(s) Systems. Applications to Monoethanolamine (MEA) and Methyldiethanolamine (MDEA)”  
Leila Faramarzi, Georgios M. Kontogeorgis, Kaj Thomsen, and Erling H. Stenby  
**(Internal report)**

- SEP 0828**      “The Influence of CO<sub>2</sub> Solubility in Brine on CO<sub>2</sub> Flooding Simulation”  
Wei Yan, and Erling H. Stenby  
**(Presented at the International Energy Agency (IEA) 29<sup>th</sup> Annual  
Workshop & Symposium , Beijing, China, November 3-5, 2008)**
- SEP 0829**      “Interactions Between Asphaltenes and Water in Solutions in Toluene”  
D. S. Khvostichenko, and S. I. Andersen  
**(Energy and Fuels, 22(5) (2008) 3096-3103)**

- SEP 0901** “Reverse Schreinemakers Method for Experimental Analysis of Mixed-Solvent Electrolyte Systems”  
Philip L. Fosbøl, Kaj Thomsen, and Erling H. Stenby  
**(Journal of Solution Chemistry, 38(1) (2009) 1)**
- SEP 0902** “Reaction Kinetics of Acetone Peroxide Formation and Structure Investigations Using Raman Spectroscopy and X-ray Diffraction”  
L. Jensen, P. M. Mortensen, R. Trane, P. Harris, and R. W. Berg  
**(Applied Spectroscopy, 63(1) (2009) 92-97)**
- SEP 0903** “Solubility Measurements in the Mixed Solvent Electrolyte System Na<sub>2</sub>CO<sub>3</sub>-NaHCO<sub>3</sub>-Monoethylene Glycol-Water”  
Philip L. Fosbøl, Kaj Thomsen, and Erling H. Stenby  
**(Industrial & Engineering Chemistry Research., 48 (2009) 2218-2228)**
- SEP 0904** “Modeling the Vapor - Liquid equilibria of Polymer – Solvent Mixtures: Systems with Complex – Hydrogen Bonding Behavior”  
Ioannis Tsivintzelis, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 280(1-2) (2009) 100-109)**
- SEP 0905** “Modeling of the Migration of Glycerol Monoester Plasticizers in Highly Plasticized Poly(vinyl Chloride)”  
Rasmus Lundsgaard, Georgios M. Kontogeorgis, Jørgen K. Kristiansen, and Torkil F. Jensen  
**(Journal of Vinyl and Additive Technology, 15 (2009) 147-158)**
- SEP 0906** “Improving Mechanistic CO<sub>2</sub> Corrosion Models”  
Philip L. Fosbøl, Kaj Thomsen, and Erling H. Stenby  
**(Presented at the CORROSION 2009 . Atlanta, Georgia, USA , 2009 Proceedings CORROSION/09 ; Paper no. 09561)**
- SEP 0907** “Inhibition of Methane Hydrate Formation by Ice-Structuring Proteins”  
Lars Jensen, Hans Ramløv, Kaj Thomsen, and Nicolas von Solms  
**(Ind. Eng. Chem. Res. 49 (2010) 1486-1492)**
- SEP 0908** “Addition of Malodorants to Lighter Gas – The Phase Equilibrium properties of Mixtures og Lighter Gas and Selected Substances”  
Vasu Neela, and Nicolas von Solms  
**(Chemical Engineering Research and Design, 92 (2014) 2851-2860)**
- SEP 0909** “A Stochastic Theory for Deep Bed Filtration Accounting for Dispersion and Size Distributions”  
A. A. Shapiro and P. G. Bedrikovetsky  
**(Physica A, 389 (2010) 2473-2494)**
- SEP 0910** ”Modeling of the Mixed Solvent Electrolyte System CO<sub>2</sub> – Na<sub>2</sub>CO<sub>3</sub> - NaHCO<sub>3</sub> - Monoethylene Glycol – Water  
Philip L. Fosbøl, Kaj Thomsen, and Erling H. Stenby  
**(Ind. Eng. Chem. Res. 48 (2009) 4565-4578)**

- SEP 0911** “Phase Equilibria of Mixtures Containing Glycols and the n-Alkanes: Experimental Study of Infinite Dilution Activity Coefficients and Modeling using the Cubic-Plus-Association Equation of State”  
Waheed Afzal, Martin P. Breil, Pascal Théveneau, Amir H. Mohammadi, Georgios M. Kontogeorgis, and Dominique Richon  
**(Industrial & Engineering Chemistry Research, 48(24) (2009) 11202-11210)**
- SEP 0912** “Electrodeposition of Asphaltenes. 1. Preliminary Studies on Electrodeposition from Oil-Heptane Mixtures”  
D. S. Khvostichenko, and S. I. Andersen  
**(Energy and Fuels, 23(2) (2009) 811-819)**
- SEP 0913** “Phase Equilibria Modeling of Methanol-Containing Systems with the CPA and PC-SAFT Equations of State”  
Peter Chr. V. Tybjerg, Georgios M. Kontogeorgis, Michael L. Michelsen, and Erling H. Stenby  
**(Fluid Phase Equilibria, 288(1-2) (2010) 128-138)**
- SEP 0914** “Preparation and Structural Characterisation of Novel and Versatile Amphiphilic Octenyl Succinic Anhydride-Modified Hyaluronic Acid Derivatives”  
Corinne Eenschooten, Fanny Guillaumie, Georgios M. Kontogeorgis, Erling H. Stenby, Khadija Schwach-Abdellaoui  
**(Carbohydrate Polymers, 79 (2010) 597-605)**
- SEP 0915** “Errata: “Evaluation of the Nonrandom Hydrogen Bonding (NRHB) Theory and the Simplified Perturbed-Chain-Statistical Association Fluid Theory (sPC-SAFT). 2. Liquid-Liquid Equilibria and Prediction of Monomer Fraction in Hydrogen Bonding Systems”  
Ioannis Tsvintzelis, Andreas Grenner, Ioannis G. Economou, and Georgios M. Kontogeorgis  
**(Industrial and Engineering Chemistry Research, 48(16) (2009) 7860)**
- SEP 0916** “Modelling of Phase Equilibria with CPA using the Homomorph Approach”  
Martin P. Breil, Ioannis Tsvintzelis, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 301 (2011) 1-12)**
- SEP 0917** “Extended UNIQUAC Model for Thermodynamic Modeling of CO<sub>2</sub> Absorption in Aqueous Alkanolamine Solutions”  
**(Fluid Phase Equilibria, 282(2) (2009) 121-132)**
- SEP 0918** “Estimation of the Impact of Sulfur Species on Glycol Dehydration”  
Waheed Afzal, Martin P. Breil, Amir H. Mohammadi, Georgios M. Kontogeorgis, and Dominique Richon  
**(Presented at EQUIFASE 2009, Porto, Portugal)**

- SEP 0919** “Experimental Study and Phase Equilibrium Modeling of Systems Containing Acid Gases and Glycols using the Cubic-Plus-Association EoS”  
Waheed Afzal, Martin P. Breil, Ioannis Tsivintzelis, Amir H. Mohammadi, Georgios M. Kontogeorgis, and Dominique Richon  
**(Replaced by CERE 1118)**
- SEP 0920** “Modeling Phase Equilibria for Acid Gas Mixtures using the CPA Equation of State. Part I. Mixtures with H<sub>2</sub>S”  
Ioannis Tsivintzelis, Georgios M. Kontogeorgis, Michael L. Michelsen, and Erling H. Stenby  
**(AIChE Journal, 56(11) (2010) 2965-2982)**
- SEP 0921** “Absorber Model for CO<sub>2</sub> Capture by Monoethanolamine”  
Leila Faramarzi, Georgios M. Kontogeorgis, Michael L. Michelsen, Kaj Thomsen, and Erling H. Stenby  
**(Industrial and Engineering Chemistry Research, 49(8) (2010) 3751-3759)**
- SEP 0922** “Teaching Chemical Engineering Thermodynamics at Three Levels”  
Georgios M. Kontogeorgis, Michael L. Michelsen, and Karsten H. Clement  
**(Chemical Engineering Education, (2009) 70-78)**
- SEP 0923** “The Effects of Possible Contamination on the Radiocarbon Dating of the Dead Sea Scrolls II: Empirical Methods to Remove Castor Oil and Suggestions for Redating”  
Kaare Lund Rasmussen, Johannes van der Plicht, Gregory Doudna, Frederik Nielsen, Peter Højrup, Erling Halfdan Stenby, and Carl Th Pedersen  
**(Radiocarbon, 51(3) (2009) 1005-1022)**
- SEP 0924** “CO<sub>2</sub> Capture from Flue Gas using Amino Acid Salt Solutions”  
Benedicte Mai Lerche, Erling H. Stenby, and Kaj Thomsen  
**(Risø International Energy Conference, 2009 Energy solutions for CO<sub>2</sub> Emission Peak and subsequent decline. Proceedings)**
- SEP 0925** “Thermodynamic Modeling of Water-Acid Gases-Alkanolamine Systems”  
Negar Sadegh, Kaj Thomsen, Erling H. Stenby, and Georgios Kontogeorgis  
**(Presented at the 9<sup>th</sup> AIChE Annual Meeting 2009, Nashville, TN, USA)**
- SEP 0926** “Thermodynamics of Irreversible Processes Enhanced by Mixed Solvent Electrolyte Activity Coefficient Models”  
Philip L. Fosbøl, Kaj Thomsen, and Erling H. Stenby  
**(Poster presentation and proceedings from JETC10, (2009) Copenhagen, Denmark)**
- SEP 0927** “Energy Demand for CO<sub>2</sub> Solvent Regeneration”  
Philip L. Fosbøl, Kaj Thomsen, and Erling H. Stenby  
**(Oral presentation and proceedings from Risø International Energy Conference, (2009) 242-252, Roskilde, Denmark)**

- SEP 0928** “Chilled Ammonia Process for CO<sub>2</sub> Capture”  
Victor Darde, Kaj Thomsen, Willy J.M. van Well, and Erling H. Stenby  
**(International Journal of Greenhouse Gas Control, 4(2) (2010) 131-136)**
- SEP 0929** “1D Simulations for Microbial Enhanced Oil Recovery with Metabolite  
partitioning”  
Sidsel M. Nielsen, Alexander A. Shapiro, Michael L. Michelsen, and Erling  
H. Stenby  
**(Transport in Porous Media, 2010, 85, 785-802)**

- CERE 1001** “Vapor-Liquid Equilibrium Measurements and Modeling of the Propyl Mercaptan + Methane + Water System”  
Javeed A. Awan, Kaj Thomsen, Christophe Coquelet, Philip L. Fosbøl, and Dominique Richon  
**(Journal of Chemical Engineering Data, 55, (2010) 842-846)**
- CERE 1002** “Biot’s Coefficient as an Indicator of Strength and Porosity Reduction: Calcareous Sediments from Kerguelen Plateau”  
Mohammad Monzurul Alam, Mai Kristine Borre, Ida Lykke Fabricius, Kathrine Hedegaard, Birte Røgen, Zakir Hossain, Anette Susanne Krogsbøll  
**(Journal of Petroleum Science and Engineering, 70 (2010) 282-297)**
- CERE 1003** “Use of Monomer Fraction Data in the Parametrization of Association Theories”  
Georgios M. Kontogeorgis, Ioannis Tsivintzelis, Nicolas von Solms, Andreas Grenner, David Bøgh, Michael Frost, Anders Knage-Rasmussen, and Ioannis G. Economou  
**(Fluid Phase Equilibria, 296(2) (2010) 219-229)**
- CERE 1004** “Improved Oil Recovery in Chalk: Wettability Alteration or Something Else?”  
Adeel Zahid, Erling H. Stenby, and Alexander A. Shapiro  
**(SPE 131300, prepared for presented at the SPE EUROPEC/EAGE Annual Conference and Exhibition held in Barcelona, Spain, 14-17 June, 2010)**
- CERE 1005** “Comparison of Activity Coefficient Models for Electrolyte Systems”  
Yi Lin, Antoon ten Kate, Miranda Mooijer, Javier Delgado, Philip Loldrup Fosbøl, and Kaj Thomsen  
**(AIChE Journal, 56(5) (2010) 1334-1352)**
- CERE 1006** “Evaluation of the CO<sub>2</sub> Behavior in Binary Mixtures with Alkanes, Alcohols, Acids and Esters Using the Cubic-Plus-Association Equation of State”  
Mariana B. Oliveira, António José Queimada, Isabel M. Marrucho, Georgios M. Kontogeorgis, and João A.P. Coutinho  
**(Journal of Supercritical Fluids, 55 (2011) 876-892)**
- CERE 1007** “Upscaling of Two-Phase Immiscible Flows in Communicating Stratified Reservoirs”  
Xuan Zhang, Alexander Shapiro, and Erling H. Stenby  
**(Transport in Porous Media, 87 (2011) 739-764 – DOI: 10.1007/s11242-011-9713-1)**
- CERE 1008** “Modeling Non-Fickian Transport and Hyperexponential Deposition for Deep Bed Filtration”  
Hao Yuan, and Alexander A. Shapiro  
**(Chemical Engineering Journal, 162 (2010) 974-988)**



- CERE 1009** “In-Situ Phase Identification and Saturation Determination in Carbon Dioxide Flooding of Water Flooded Chalk Using X-ray Computed Tomography”  
Ben Niu, Wei Yan, Alexander A. Shapiro, and Erling H. Stenby  
**(SPE 129760 – paper presented at the 17th SPE Improved Oil Recovery Symposium, Oklahoma, USA, April, 2010)**
- CERE 1010** “Coupling Miscible Flow and Geochemistry for Carbon Dioxide Flooding into North Sea Chalk Reservoir”  
Ben Niu, Wei Yan, Alexander A. Shapiro, and Erling H. Stenby  
**(Paper presented at COMSOL conference 2009, Milan, Italy, October 2009)**
- CERE 1011** “Phase Identification and Saturation Determination in Carbon Dioxide Flooding of Water Flooded Chalk Using X-Ray Computed Tomography”  
Ben Niu, Wei Yan, Alexander A. Shapiro, and Erling H. Stenby  
**(Paper presented at the International Symposium of the Society of Core Analysts, Noordwijk aan Zee, The Netherlands, September, 2009)**
- CERE 1012** “Microbial Enhanced Oil Recovery: 3D Simulation with Gravity Effects”  
S. M. Nielsen, K. Jessen, A. A. Shapiro, M. L. Michelsen, and E. H. Stenby  
**(SPE 131048, presented at the SPE EUROPEC/EAGE Annual Conference and Exhibition held in Barcelona, Spain, 14-17 June, 2010)**
- CERE 1013** “Compositional Simulation of In-Situ Combustion EOR: A Study of Process Characteristics”  
Priyanka Jain, Erling H. Stenby, and Nicolas von Solms  
**(SPE 129869, presented at the 2010 SPE Improved Oil Recovery Symposium , Tulsa, Oklahoma, USA, 24-28 April, 2010)**
- CERE 1014** “Calculation of Liquid Water-Hydrate-Methane Vapor Phase Equilibria from Molecular  
Lars Jensen, Kaj Thomsen, Nicolas von Solms, Scott Wierzchowski, Matthew R. Walsh, Carolyn A. Koh, E. Dendy Sloan, David T. Wu, and Amadeu K. Sum  
**(J. Phys. Chem. B, 114, (2010) 5775-5782)**
- CERE 1015** “Towards Predictive Association Theories”  
Georgios M. Kontogeorgis, Ioannis Tsvintzelis, Michael L. Michelsen, and Erling H. Stenby  
**(Fluid Phase Equilibria, 301 (2011) 244-256)**
- CERE 1016** “Elastic Moduli of Dry and Water- Saturated Carbonates – Effect of Depositional Texture, Porosity, and Permeability”  
Ida L. Fabricius, Gregor T. Bächle, and Gregor P. Eberli  
**(Geophysics, 75(3) (2010) N65-N78)**

- CERE 1017** “Industrial Requirements for Thermodynamics and Transport Properties”  
Eric Hendriks, Georgios M. Kontogeorgis, Ralf Dohrn, Jean-Charles de Hemptinne, Ioannis G. Economou, Ljudmila Fele Zilnik, and Velisa Vesovic  
**(Industrial and Engineering Chemistry Research, 49(22) (2010) 11131-11141)**
- CERE 1018** “Analysis and Application of GC<sup>Plus</sup> Models for Property Prediction of Organic Chemical Systems”  
Azizul Azri Mustaffa, Georgios M. Kontogeorgis, and Rafiqul Gani  
**(Fluid Phase Equilibria, 302 (2011) 274-283)**
- CERE 1019** “Equations of State: From the Ideas of van der Waals to Association Theories”  
Georgios M. Kontogeorgis, and Ioannis G. Economou  
**(Journal of Supercritical Fluids, 55 (2010) 421-437)**
- CERE 1020** “High-Pressure Fluid-Phase Equilibria: Experimental Methods and Systems Investigated (2000-2004)”  
Ralf Dohrn, Stephanie Peper, and José M.S. Fonseca  
**(Fluid Phase Equilibria, 288 (2010) 1-54)**
- CERE 1021** “An Explanation of the Selective Plating of Laser Machined Surfaces using Surface Tension Components”  
Yang Zhang, Georgios M. Kontogeorgis, and Hans Nørgaard Hansen  
**(Journal of Adhesion Science and Technology, 25 (2011) 2101-2111)**
- CERE 1022** “Phase Equilibria of Mixtures Containing Organic Sulfur Species (OSS) and Water/Hydrocarbons: VLE Measurements and Modeling Using the Cubic-Plus-Association Equation of State”  
Javeed A. Awan, Ioannis Tsivintzelis, Martin P. Breil, Christophe Coquelet, Dominique Richon, and Georgios M. Kontogeorgis  
**(Industrial & Engineering Chemistry Research, 49 (2010) 12718-12725)**
- CERE 1023** “Experimental Determination and Modeling of the Phase Behavior for the Selective Oxidation of Benzyl Alcohol in Supercritical CO<sub>2</sub>”  
Ioannis Tsivintzelis, Matthias Josef Beier, Jan-Dierk Grunwaldt, Alfons Baiker, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 302 (2011)83-92)**
- CERE 1024** “Mutual Solubility of MEG, Water and Reservoir Fluid: Experimental Measurements and Modeling Using the CPA Equation of State”  
Muhammad Riaz, Georgios M. Kontogeorgis, Erling H. Stenby, Wei Yan, Toril Haugum, Kjersti O. Christensen, Even Solbraa, and Torbjørn V. Løkken  
**(Fluid Phase Equilibria, 300 (2011) 172-181)**
- CERE 1025** “Partition Coefficients of Organic Molecules in Squalane and Water/Ethanol Mixtures by Molecular Dynamics Simulations”  
Rasmus Lundsgaard, Georgios M. Kontogeorgis, and Ioannis G. Economou  
**(Fluid Phase Equilibria, 306(2) (2011) 162-170)**

- CERE 1026** “Design of a Eutectic Freeze Crystallization Process for Multicomponent Waste Water Stream”  
A.E. Lewis, J. Nathoo, K. Thomsen, H.J. Kramer, C.J. Witkamp, S.T. Reddy, and D.G. Randall  
**(Chemical Engineering Research and Design, 88 (2010) 1290-1296)**
- CERE 1027** “Application of Association Models to Mixtures Containing Alkanolamines”  
Ane S. Avlund, Daniel K. Eriksen, Georgios M. Kontogeorgis, and Michael L. Michelsen  
**(Fluid Phase Equilibria, 306(1) (2011)31-37)**
- CERE 1028** “Modelling of the Thermodynamics of the Acetic Acid-Water Mixture using the CPA Equation of State”  
Martin P. Breil, Georgios M. Kontogeorgis, Paul K. Behrens, and Michael L. Michelsen  
**(Industrial & Engineering Chemistry Research, 50(9) (2011)5795-5805)**
- CERE 1029** “Comparing Ignitability for In Situ Burning of Oil Spills for an Asphaltenic, a Waxy and a Light Crude Oil as a Function of Weathering Conditions under Arctic Conditions  
J. Fritt-Rasmussen, P.J. Brandvik, A. Villumsen, and E.H. Stenby  
**(Cold Region Science and Technology, 72 (2012) 1-6)**
- CERE 1030** “Composition of In Situ Burn Residue as a Function of Weathering Conditions  
J. Fritt-Rasmussen, B.E. Ascanius, P.J. Brandvik, A. Villumsen, and E.H. Stenby  
**(Marine Pollution Bulletin, 67 (2013) 75-81)**
- CERE 1031** “Modeling Phase Equilibria for Acid Gas Mixtures using the CPA Equation of State. Part II. Binary Mixtures with CO<sub>2</sub>”  
Ioannis Tsvintzelis, Georgios M. Kontogeorgis, Michael L. Michelsen, and Erling H. Stenby  
**(Fluid Phase Equilibria, 306 (2011) 38-56)**
- CERE 1032** “Solid-liquid Equilibria for Binary and Ternary Systems with the Cubic-Plus-Association (CPA) Equations of State”  
André Fettouhi, and Kaj Thomsen  
**(Fluid Phase Equilibria, 293 (2010) 121-129)**
- CERE 1033** “Biot Critical Frequency Applied to Description of Failure and Yield of Highly Porous Chalk with Different pore Fluids”  
Katrine Alling Andreassen, and Ida Lykke Fabricius  
**(Geophysics, 75(6) (2010) E205-E213)**
- CERE 1034** “Rock Physics Model of Glauconitic Greensand from the North Sea”  
Z. Hossain, T. Mukerji, J. Dvorkin, and I.L. Fabricius  
**(Geophysics, 76 (2011) E199-E209)**

- CERE 1035** “Biot Critical Frequency Applied as Common Friction Factor for Chalk with Different Pore Fluids and Temperatures”  
K.A. Andreassen, and I.L. Fabricius  
**(Presented at the 44<sup>th</sup> US Rock Mechanics Symposium and 5<sup>th</sup> U.S. Canada Rock Mechanics Symposium, Salt Lake City, UT, June 2010, ARMA, American Rock Mechanics Association (2010) 453)**
- CERE 1036** “Water Weakening of Chalk Explained from a Fluid-Solid Friction Factor”  
K.A. Andreassen, and I.L. Fabricius  
**(Rock Mechanics in the Nordic Countries, (2010) 26-35)**
- CERE 1037** “Geostatistical Inference using Crosshole Ground-Penetrating Radar”  
Majken C. Looms, Thomas M. Hansen, Knud S. Cordua, Lars Nielsen, Karsten H. Jensen, and Andrew Binley  
**(Geophysics, 75(6) (2010) J29-J41, DOI: 10.1190/1.3496001)**
- CERE 1038** “Kriging Interpolation in Seismic Attribute Space Applied to the South Arne Field, North Sea  
T.M. Hansen, K. Mosegaard, and C.R. Schioett  
**(Geophysics, 75(6) (2010) P31-P41, DOI: 10.1190/1.3494280)**
- CERE 1039** “A Mathematical Model for Non-monotonic Deposition Profiles in Deep Bed Filtration Systems”  
Hao Yuan, and Alexander Shapiro  
**(Chemical Engineering Journal, 166 (2011) 105-115)**
- CERE 1040** “Densification and Grain Growth during Early-stage Sintering of Ce<sub>0.9</sub>Gd<sub>0.1</sub>O<sub>1.95-δ</sub> in Reducing Atmosphere”  
Zeming He, Hao Yuan, Julie Glasscock, Christodoulos Chatzichristodoulou, John Phair, Andreas Kaiser, Severine Ramousse  
**(Acta Materialia, 58(11) (2010) 3860-3866 (ISSN: 1359-6454) (DOI: 10.1016/j.actamat.2010.03.046), Pergamon)**
- CERE 1041** “Uncertainty and Sensitivity Analysis of Filtration Models for Non-Fickian Transport and Hyperexponential Deposition”  
Yuan Hao, Gürkan Sin  
**(Chemical Engineering Journal, 168(2) (2011) 635-648)**
- CERE 1042** “Inhibition of Structure I and II Gas Hydrates using Synthetic and Biological Kinetic Inhibitors”  
Lars Jensen, Kaj Thomsen, and Nicolas von Solms  
**(Energy Fuels, 25 (2011) 17-23)**
- CERE 1043** “Sampling Informative/Complex a Priori Probability Distributions using Gibbs Sampling Assisted by Sequential Simulation”  
T.M. Hansen, K. Mosegaard, and K.S. Cordua  
**(Presented at the 14th International Conference of the International Association for Mathematical Geosciences 29. August - 2. September 2010, Budapest, Hungary, Proceedings, 8 pp in IAMG Extended Abstract)**

- CERE 1044** “Kriging in High Dimensional Attribute Space using Principal Component Analysis”  
K. Lange, T.M. Hansen, J.L. Fernández-Martínez, J. Frydendall, and K. Mosegaard  
**(The 14th International Conference of the International Association for Mathematical Geosciences 29. August - 2. September 2010, Budapest, Hungary, Proceedings 10 pp in IAMG Extended Abstract)**
- CERE 1045** “Nonlinear AVO inversion using Geostatistical a Priori Information”  
K.S. Cordua, T.M. Hansen, K. Mosegaard  
**(The 14th International Conference of the International Association for Mathematical Geosciences 29 August - 2 September 2010, Budapest, Hungary, Proceedings, 12 pp in IAMG Extended Abstract)**
- CERE 1046** “Monte Carlo Full Waveform Inversion of Tomographic Crosshole Data using Complex Geostatistical a Priori Information”  
Knud S. Cordua, Thomas M. Hansen, and Klaus Mosegaard  
**(Geophysics, 77(2) (2012) H19-H-31)**
- CERE 1047** “Measurement and Modeling of CO<sub>2</sub> Solubility in NaCl Brine and CO<sub>2</sub>-Saturated NaCl Brine Density”  
Wei Yan, Sheng-Li Huang, and Erling H. Stenby  
**(International Journal of Greenhouse Gas Control, 5 (2011) 1460-1477)**
- CERE 1048** “Modeling of Carbon Dioxide Absorption by Aqueous Ammonia Solutions Using the Extended UNIQUAC Model”  
Victor Darde, Willy J. van Well, Erling H. Stenby, and Kaj Thomsen  
**(Ind. Eng. Chem. Res., 49 (2010) 12663-12674(24))**

- CERE 1101** “Cryobrines on Mars”  
D. Möhlmann, and K. Thomsen  
**(Icarus, 212 (2011) 123-130)**
- CERE 1102** “Novel Self-Associative and Multiphase Nanostructured Soft Carriers based on Amphiphilic Hyaluronic Acid Derivatives”  
Corinne Eenschooten, Andrea Vaccoro, Florence Delie, Fanny Guillaumie, Kristoffer Tømmeraas, Georgios M. Kontogeorgis, Khadija Schwach-Abdellaoui, Michal Borkovec, and Robert Gurny  
**(Carbohydrate Polymers, 87(1) (2011) 444-451)**
- CERE 1103** “High-Pressure Fluid-Phase Equilibria: Experimental Methods and Systems Investigated (2005-2008)”  
José M.S. Fonseca, Ralf Dohrn, and Stephanie Peper  
**(Fluid Phase Equilibria, 300 (2011) 1-69)**
- CERE 1104** “Intramolecular Association within the SAFT Framework”  
Ane S. Avlund, Georgios M. Kontogeorgis, and Walter G. Chapman  
**(Molecular Physics, 109(12) (2011) 1759-1769)**
- CERE 1105** “Competitive Adsorption of Nitrogen Compounds in the Hydrodesulfurization of 4,6-Dimethyldibenzothiophene”  
Rasmus R. Boesen, Nicolas S. von Solms, Michael L. Michelsen, Rasmus G. Egebjerg, and Kim G. Knudsen  
**(Internal Report)**
- CERE 1106** “Measurement of Liquid-Liquid Equilibria for Condensate + Glycol and Condensate + Glycol + Water Systems”  
Muhammad Riaz, Georgios Kontogeorgis, Erling H. Stenby, Wei Yan, Toril Haugum, Kjersti Christensen, Torbjørn Løkken, Evan Solbraa  
**(Journal of Chemical & Engineering Data, 56 (2011) 4342-4351)**
- CERE 1107** “Freezing Point Depressions of Aqueous MEA, MDEA, and MEA – MDEA Measured with a New Apparatus”  
Philip Loldrup Fosbøl, Mikkel Gielsager Pedersen, and Kaj Thomsen  
**(Journal of Chemical Engineering Data, 56 (2011) 995-1000)**
- CERE 1108** “Induced Migration of Fines during Waterflooding in Communicating Layer-cake Reservoirs”  
Hao Yuan and Alexander Shapiro  
**(Journal of Petroleum Science and Engineering, 78 (2011) 618-626)**
- CERE 1109** “Tilting Oil-Water contact in the Chalk of Tyra Field as interpreted from Capillary Pressure Data”  
I.L. Fabricius, and M.A. Rana  
**(Petroleum Geology Conference series, 7 (2011) 463-472)**
- CERE 1110** “Petrophysical Properties of Greensand as Predicted from NMR Measurements”  
Z. Hossain, C.A. Grattoni, M. Solymar, and I.L. Fabricius  
**(Petroleum Geoscience, 17 (2011) 111-125)**

- CERE 1111** “Biot Critical Frequency Applied as Common Friction Factor for Pore collapse and Failure of Chalk with Different Pore Fluids and Temperatures”  
K.A. Andreassen, I.L. Fabricius, I.L., and N.N. Foged  
(**SPE 130447-PA, SPE Journal**)
- CERE 1112** “Permeability Prediction in Chalks”  
M.M. Alam, I.L. Fabricius, and M. Prasad  
(**AAPG Bulletin, 11 (2011) 1991-2014**)
- CERE 1113** “V<sub>p</sub>-V<sub>s</sub> Relationship and Amplitude Variation with Offset Modelling of Glauconitic Greensand”  
Z. Hossain, T. Mukerji, and I.L. Fabricius  
(**Geophysical Prospecting, 60 (2012) 117-137**)
- CERE 1114** “Application of stochastic approaches to modeling suspension flow in porous media”  
Alexander A. Shapiro, and Hao Yuan  
(**Chapter in the book “Random Walks: Principles, Processes and Application”**)
- CERE 1115** “Application of sPC-SAFT to glycol ethers”  
Ane S. Avlund, Georgios M. Kontogeorgis, and Michael L. Michelsen  
(**Industrial & Engineering Chemistry Research, 51(1) (2012) 547-555**)
- CERE 1116** “Advanced Waterflooding in Chalk Reservoirs: Understanding of Underlying Mechanisms”  
Adeel Zahid, Sara B. Sandersen, Alexander Shapiro, Nicolas von Solms, and Erling H. Stenby  
(**Journal of Colloids and Surfaces A: Physicochemical and Engineering Aspects, 389 (2011) 281-290**)
- CERE 1117** **Replaced by 1227**
- CERE 1118** “Experimental Study and Phase Equilibrium Modeling of Systems Containing Acid Gas and Glycol”  
Waheed Afzal, Martin P. Breil, Ioannis Tsivintzelis, Amir H. Mohammadi, Georgios M. Kontogeorgis, and Dominique Richon  
(**Fluid Phase Equilibria, 318 (2012) 40-50**)
- CERE 1119** “Crossflow and Water Banks in Viscous Dominant Regimes of Waterflooding”  
Hao Yuan, Xuan Zhang, Alexander Shapiro, and Erling Stenby  
(**Petroleum Science and Technology, 32(10) (2014) 1227-1232**)
- CERE 1120** “Thermodynamically based Solvent Design for Enzymatic Saccharide Acylation with Hydroxycinnamates in Non-conventional Media  
Birgitte Zeuner, Georgios M. Kontogeorgis, Anders Riisager, and Anne S. Meyer  
(**New Biotechnology, 29(3) (2012) 255-270**)

- CERE 1121** “30 Years with EoS/G<sup>E</sup> Models – what have we learnt?”  
Georgios M. Kontogeorgis, and Philippos Coutsikos  
**(Industrial & Engineering Chemistry Research, 51(11) (2012) 4119-4142)**
- CERE 1122** “Experimental measurement and modeling of the rate of absorption of carbon dioxide by aqueous ammonia”  
Victor Darde, Willy J.M. van Well, Philip L. Fosbøl, Erling H. Stenby, and Kaj Thomsen  
**(International Journal of Greenhouse Gas Control, 5 (2011) 1149-1162)**
- CERE 1123** “Gravity Effect on Two-Phase Immiscible Flows in Communicating Layered Reservoirs”  
Xuan Zhang, Alexander Shapiro, and Erling H. Stenby  
**(Transport in Porous Media, 92 (2012) 767-788)**
- CERE 1124** “Sampling informative/complex a priori probability distributions using Gibbs sampling assisted by sequential simulation”  
Thomas Mejer Hansen, Klaus Mosegaard, and Knud Skou Cordua  
**(Presented at IAMG 2010, Budapest, Ungarn)**
- CERE 1125** “CO<sub>2</sub> capture using aqueous ammonia: kinetic study and process simulation”  
Victor Darde, Willy J.M. van Well, Erling H. Stenby, and Kaj Thomsen  
**(Journal Energy Procedia, 4 (2011) 1443-1450)**
- CERE 1126** “Selective oxidation of benzyl alcohol in dense CO<sub>2</sub>: insight by phase behavior modeling”  
Matthias Josef Beier, Jan-Dierk Grunwaldt, Ioannis Tsivintzelis, Anker D. Jensen, Georgios M. Kontogeorgis, and Alfons Baiker  
**(Journal of Supercritical Fluids, 63 (2012) 199-207)**
- CERE 1127** “Estimation of Chromatographic Columns Performances using Computer Tomography and CFD Simulations”  
Irma Schmidt, Florian Lottes, Mirjana Minceva, Wolfgang Arlt, and Erling H. Stenby  
**(Chemie Ingenieur Technik, 83 (1-2) (2011) 130-142)**
- CERE 1128** “Phase Equilibria of Three Binary Mixtures; Methyl mercaptan + Methane, Methyl mercaptan + Nitrogen and Methyl mercaptan + Carbon dioxide; Experimental data & Modeling”  
Javeed Awan, Ioannis Tsivintzelis, Christophe Coquelet, and Georgios M. Kontogeorgis  
**(Journal of Chemical & Engineering Data, 57 (2012) 896-901)**
- CERE 1129** “Implementation of Extended UNIQUAC for Electrolyte Systems as a User Model in Aspen Plus”  
Bjørn Maribo-Mogensen, Victor Darde, Philip Loldrup Fosbøl, Kaj Thomsen, and Georgios M. Kontogeorgis  
**(Internal Report)**



- CERE 1130** “Colloid Transport and Retention: Recent Advances in Colloids Filtration Theory”  
Hao Yuan, and Alexander A. Shapiro  
**(Chapter for the book “Colloids: Classification, Properties and Applications”, Nova Science Publishers, NY, USA, 2012)**
- CERE 1131** “Corrigendum to “VISIM: Sequential simulation for linear inverse problems”  
Thomas Mejer Hansen, and Klaus Mosegaard  
**(Computers & Geosciences, 37(7) (2011) 973-974)**
- CERE 1132** “Review of the Upper Jurassic-Lower Cretaceous Stratigraphy in Western Cameros Basin, Northern Spain”  
P. Clemente  
**(Revista de la Sociedad Geológica de España, 23 (2010) 101-143)**
- CERE 1133** “Integrated seismic analysis of the Chalk Group in eastern Denmark - Implications for estimates of maximum palaeo-burial in southwest Scandinavia”  
Lars Nielsen, Lars Ole Boldreel, Thomas Mejer Hansen, Holger Lykke-Andersen, Lars Stemmerik, Finn Surlyk, and Hans Thybo  
**Tectonophysics - 2011, 511(1-2), (2011) 14-26)**
- CERE 1134** “Aqueous Solubility of Piperazine and 2-Amino-2-methyl-1-propanol plus Their Mixtures Using an Improved Freezing-Point Depression Method”  
Philip Loldrup Fosbøl, Randi Neerup, Muhammad Waseem Arshad, Zacarias Teele, and Kaj Thomsen  
**(J. Chem. Eng. Data, 56 (2011) 5088-5093)**
- CERE 1135** “Lipid Processing Technology: Building a Multilevel Modeling Network”  
Carlos A. Diaz-Tovar, Azizul A. Mustaffa, Amol Hukkerikar, Alberto Quaglia, Guerkan Sin, Georgios Kontogeorgis, Bent Sarup, and Rafiqul Gani  
**(Presented at 21<sup>st</sup> European Symposium on Computer Aided Process Engineering Book Series: Computer-Aided Chemical Engineering, 29 (2011) 256-260)**
- CERE 1136** “Oil Reservoir Production Optimization using Optimal Control”  
Carsten Völcker, John Bagterp Jørgensen, and Erling H. Stenby  
**(Presented at the 50<sup>th</sup> IEEE Conference on Decision and Control and European Control Conference (CDC-ECC), Orlando, FL. USA, December 12-15, 2011, 978-1-61284-799-3/11)**
- CERE 1137** “Comparison of the Debye-Hückel and the Mean Spherical Approximation Theories for Electrolyte Solutions”  
Bjørn Maribo-Mogensen, Georgios M. Kontogeorgis, and Kaj Thomsen  
**(Industrial and Engineering Chemistry Research, 51 (2012) 5353-5363)**

- CERE 1138** “Limits to Nonlinear Inversion. In: Kristján Jónasson (ed.)”  
K. Mosegaard  
**(Applied Parallel and Scientific Computing, 10<sup>th</sup> International Conference, PARA 2110, Reykjavik, Iceland, June 6-9, 2010: Revised Selected Papers, Part 1. Springer, 2012 11-21 (Lecture Notes in Computer Science; No. Part 1, Vol 7133))**
- CERE 1139** “Quest for consistency, symmetry, and simplicity – The legacy of Albert Tarantola”  
K. Mosegaard  
**(Geophysics 76, W51 (2011); doi: 10.1190/geo2010-0328.1)**
- CERE 1140** “Inverse problems with non-trivial priors: Efficient solution through Sequential Gibbs Sampling”  
Thomas Mejer Hansen, Klaus Mosegaard, and Knud Skou Cordua  
**(Computational Geosciences, 16(3) (2012) 593-611)**

- CERE 1201** “A New Comprehensive Approach for Predicting Injectivity Decline during Waterflooding”  
H. Yuan, S. M. Nielsen, and A. A. Shapiro  
**(SPE 154509, 2012)**
- CERE 1202** “A Systematic Methodology for Design of Emulsion Based Chemical Products”  
Michele Mattei, Georgios M. Kontogeorgis, and Rafiqul Gani  
**(Proceedings of the 11<sup>th</sup> International Symposium on Process Systems Engineering. 15-19 July 2012, Singapore Ed./I.A. Karimi; rajagopalan Srinivasan. Elsevier BV, Computer Aided Chemical Engineering 31 (2012) 220-224)**
- CERE 1203** “Equation of State Modelling of Systems with Ionic Liquids: Literature Review and Application with the Cubic Plus Association (CPA) model”  
Filipa M. Maia, Ioannis Tsvintzelis, Oscar Rodriguez, Eugénia A. Macedo, Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 332 (2012) 128-143)**
- CERE 1204** “Vapor-Liquid-Liquid-Equilibrium Measurements and Modeling of the Methanethiol + Methane + Water ternary System at 304, 334 and 364 K”  
Javeed A. Awan, Ioannis Tsvintzelis, Alain Valtz, Christophe Coquelet, and Georgios M. Kontogeorgis  
**(Industrial and Engineering Chemistry Research, 51 (2012) 11561-11564)**
- CERE 1205** “Kinetics of Absorption of Carbon Dioxide into Aqueous Potassium Salt of Proline”  
Subham Paul, and Kaj Thomsen  
**(International Journal of Greenhouse Gas Control, 8 (2012) 169-179)**
- CERE 1206** “Comparison of Two Electrolyte Models for the Carbon Capture with Aqueous Ammonia”  
Victor Darde, Kaj Thomsen, Willy J.M. van Well, Davide Bonalumi, Gianluca Valenti, and Ennio Macchi  
**(International Journal of Greenhouse Gas Control, 8 (2012) 61-72)**
- CERE 1207** “Phase Equilibrium modeling of gas hydrate systems for CO<sub>2</sub> Capture”  
Peter Jørgensen Herslund, Kaj Thomsen, Jens Abildskov, and Nicolas von Solms  
**(Journal of Chemical Thermodynamics, 48 (2012) 13-27)**
- CERE 1208** “Evaluation of the PC-SAFT, SAFT and CPA equations of state in predicting derivative properties of selected non-polar and hydrogen-bonding compounds”  
A.J. de Villiers, C.E. Schwarz, A.J. Burger, and G.M. Kontogeorgis  
**(Fluid Phase Equilibria, 338 (2013) 1-15)**
- CERE 1209** “Static and Dynamic Effective Stress Coefficient of Chalk”  
M.M. Alam, I.L. Fabricius, and H.F. Christensen  
**(Geophysics, 77(2) (2012) L1-L11)**

- CERE 1210** “Thermally Induced Permeability Reduction due to Particle Migration in Sandstones: The effect of Temperature on Kaolinite Mobilisation and Aggregation”  
R. Rosenbrand, I.L. Fabricius and H. Yuan  
**(Thirty-Seventh Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, California, January 30 – February 1, 2012 SGP-TR-194)**
- CERE 1211** “A Frequency Matching Method for Generation of a Priori Sample Models from Training Images”  
Katrine Lange, Knud Skou Cordua, Jan Frydendall, Thomas Mejer Hansen, and Klaus Mosegaard  
**(Proceedings from Annual Conference of the International Association for Mathematical Geosciences, IAMG 2011, Salzburg, Austria)**
- CERE 1212** “Transport Properties of Natural Gas through Polyethylene Nanocomposites at High Temperature and Pressure”  
Jimoh K. Adewole, Lars Jensen, Usamah A. Al-Mubaiyedh, Nicolas von Solms, and Ibelwaleed A. Hussein  
**(Journal of Polymer Research 19(2) (2012) 9814)**
- CERE 1213** “A New Pilot Absorber for CO<sub>2</sub> Capture from Flue Gases: Measuring and Modelling Capture with MEA Solution”  
Tim L. Sønderby, Kim B. Carlsen, Philip L. Fosbøl, Lars G. Kiørboe, and Nicolas von Solms  
**(International Journal of Greenhouse Gas Control, 12 (2013) 181-192)**
- CERE 1214** “Mechanisms of Advanced Waterflooding in Chalk Reservoirs: Role of Seawater-Crude Oil Interactions”  
Sara Bülow Sandersen, Adeel Zahid, Erling H. Stenby, Nicolas von Solms, and Alexander Shapiro  
**(Internal Report)**
- CERE 1215** “The Effect of Pressure on the Phase Behavior of Surfactant Systems: An Experimental Study”  
Sara Bülow Sandersen, Erling H. Stenby, and Nicolas von Solms  
**(Colloids and Surfaces A: Physicochemical and Engineering Aspects, 415 (2012) 159-166)**
- CERE 1216** “Reaction Kinetics for the Desorption of CO<sub>2</sub> from Aqueous MEA – Experiments and Modelling”  
Niels V. Bagger, Peter Lützen, Lars G. Kiørboe, and Nicolas von Solms  
**(Internal Report)**
- CERE 1217** “Development and Testing of a New Apparatus for the Measurement of High-Pressure Low-Temperature Phase Equilibria”  
José M. Fonseca, and Nicolas von Solms  
**(Fluid Phase Equilibria, 329 (2012) 55-62)**

- CERE 1218** “Modeling Solubility and Swelling in Supercritical Carbon Dioxide – Polymer Systems”  
Rasmus Lundsgaard, Christian Wang, Adam Rubin, and Nicolas von Solms  
**(Internal Report)**
- CERE 1219** “Calculation of Minimum Miscibility Pressure using Fast Slimtube Simulation”  
Wei Yan, Michael L. Michelsen, and Erling H. Stenby  
**(SPE 153758 – presented at the 18<sup>th</sup> SPE Improved Oil Recovery Symposium held in Tulsa, Oklahoma, USA, April, 2012)**
- CERE 1220** “A Comparative Study of Reduced Variables Based Flash and Conventional Flash”  
Michael L. Michelsen, Wei Yan, and Erling H. Stenby  
**(SPE 154477)  
Presented at the EAGE Annual Conference and Exhibition incorporating SPE Europec, Copenhagen, Denmark, June 2012)**
- CERE 1221** “On Multiphase Negative Flash for Ideal Solutions”  
Wei Yan, and Erling H. Stenby  
**(Fluid Phase Equilibria, 322-323 (2012) 41-47)**
- CERE 1222** “On Application of Non-cubic EoS to Compositional Reservoir Simulation”  
Wei Yan, Michael L. Michelsen, and Erling H. Stenby  
**(SPE 142995 – presented at the SPE EUROPEC/EAGE Annual Conference and Exhibition, Vienna, Austria, May, 2011)**
- CERE 1223** “Study on the Application of the Tie-Line-Table-Look-Up-Based methods to Flash Calculations in Compositional Simulations”  
Wei Yan, Abdelkrim Belkadi, Michael L. Michelsen, and Erling H. Stenby  
**(SPE 142132)  
(Presented at the SPE Reservoir Simulation Symposium, The Woodlands, Texas, USA, February, 2011)**
- CERE 1224** “Distribution of MEG and Methanol in Well-defined Hydrocarbon and Water Systems: Experimental Measurement and Modeling using the CPA EoS”  
Muhammad Riaz, Mustafe A. Yussuf, Georgios M. Kontogeorgis, Erling H. Stenby, Wei Yan, and Even Solbraa  
**(Fluid Phase Equilibria, 337 (2013) 298-310)**
- CERE 1225** “Fluid Phase Equilibira of the Reaction Mixture during the Selective Hydrogeneration of 2-butanal in Dense Carbon Dioxide”  
Nikolai E. Musko, Anker Degn Jensen, Alfons Baiker, Georgios M. Kontogeorgis, and Jan-Dierk Grunwaldt  
**(Applied Catalysis A: General, 443-444 (2012) 67-75)**

- CERE 1226** “Fluid Phase Equilibria during Propylene Carbonate Synthesis from Propylene Oxide in Carbon Dioxide Medium”  
Loubna Gharnarti, Nikolai E. Musko, Anker Degn Jensen, Georgios M. Kontogeorgis, and Jan-Dierk Grunwaldt  
**(J. of Supercritical Fluids, 82 (2013) 106-115)**
- CERE 1227** ”Managing Injected Water Composition To Improve Oil Recovery: A Case Study of North Sea Chalk Reservoirs”  
Adeel Zahid, Alexander Shapiro, Erling H. Stenby, and Wei Yan  
**(Energy Fuels, 26 (2012) 3407-3415)**
- CERE 1228** “Estimating Filtration Coefficients for Straining from Percolation and Random Walk Theories”  
Hao Yuan, Alexander Shapiro, Zhenjiang You, and Alexander Badalyan)  
**(Chemical Engineering Journal, 210 (2012) 63-73)**
- CERE 1229** ”Approach to Improve Speed of Sound Calculation within PC-SAFT Framework”  
Xiaodong Liang, Bjørn Maribo-Mogensen, Kaj Thomsen, Wei Yan, and Georgios M. Kontogeorgis  
**(Industrial and Engineering Chemistry Research, 51(45) (2012) 14903-14914)**
- CERE 1230** “Potential Theory of Adsorption for Associating Mixtures: Possibilities and Limitations”  
Martin G. Bjørner, Alexander A. Shapiro, and Georgios M. Kontogeorgis  
**(Industrial & Engineering Chemistry Research, 52(7) (2013) 2672-2684)**
- CERE 1231** “Wettability Improvement with Enzymes: Application to Enhanced Oil Recovery under Conditions of the North Sea Reservoirs”  
Alsu Khusainova, Alexander A. Shapiro, Erling H. Stenby, and John M. Woodley  
**(Presentation for the 33<sup>rd</sup>. IEA EOR Symposium, Saskatchewan, Canada, August 26-30, 2012)**
- CERE 1232** “Capabilities and Limitations of an Association Theory for Chemicals”  
Ioannis Tsivintzelis, and Georgios M. Kontogeorgis  
**(Industrial & Engineering Chemistry Research, 51(41) (2012) 13496-13517)**
- CERE 1233** “Thermodynamic Modelling of Natural Gas Systems Containing Water”  
Eirini K. Karakatsani, and Georgios M. Kontogeorgis  
**(Industrial & Engineering Chemistry Research, 52 (2013) 3499-3513)**
- CERE 1234** “Modeling of Dielectric Properties of Complex Fluids with an Equation of State”  
Bjørn Maribo-Mogensen, Georgios M. Kontogeorgis, and Kaj Thomsen  
**(J. Chem. Phys. B, 117(12) (2013) 3389-3397)**

- CERE 1235** “GC-PPC-SAFT Equation of State for VLE and LLE of Hydrocarbons and Oxygenated Compounds. Sensitivity Analysis.”  
Thanh-Binh Nguyen, Jean-Charles de Hemptinne, Benoit Creton, and Georgios M. Kontogeorgis  
**(I&EC Research, 52 (2013) 7014-7029)**
- CERE 1236** “Conversion of Cardiovascular Conference Abstracts to Publications”  
Emil L. Fosbøl, Philip L. Fosbøl, Robert A. Harrington, Eapen Zubin, and Eric D. Peterson  
**(Circulation, 126(24), (2012) 2819-2825)**
- CERE 1237** “Prediction of Thermo-Physical Properties of Liquid Formulated Products”  
Michele Mattei, Elisa Conte, Georgios M. Kontogeorgis, and Rafiqul Gani  
**(In Product Design and Engineering – Formulation of Gels and Pastes Edited by Ulrich Brockel, Willi Meier and Gerhard Wagner © 2013 Wiley-VCH Verlag GmbH & Co. KGaA, Boschstr.12, 69469 Weinheim, Germany)**
- CERE 1238** “Thermodynamic Properties and Models for Engineering Applications”  
Georgios M. Kontogeorgis  
**(Chemical Engineering and Chemical Process Technology, [Eds. UNESCO-EOLSS Joint Committee], in Encyclopedia of Life Support Systems (EOLSS), Developed under the Auspices of the UNESCO, Eolss Publishers, Oxford, UK)**
- CERE 1239** “A Frequency Matching Method: Solving Inverse Problems by Use of Geologically Realistic Prior Information”  
Katrine Lange, Jan Frydendall, Knud Skou Cordua, Thomas Mejer Hansen, Yulia Melnikova, and Klaus Mosegaard  
**(Mathematical Geosciences, 44(7), (2012) 783-803)**
- CERE 1240** “Effects of Everyday Life Events on Glucose, Insulin, and Glucagon Dynamics in Continuous Subcutaneous Insulin Infusion – Treated Type 1 Diabetes: Collection of Clinical Data for Glucose Modeling”  
Signe Schmidt, Daniel Aaron Finan; Anne Katrine Duun-Henriksen, John Bagterp Jørgensen, Henrik Madsen, Henrik Bengtsson, Jen Juul Holst, Sten Madsbad and Kirsten Nørgaard  
**(Diabetes Technology & Therapeutics, 14(3), (2012) 210-217)**
- CERE 1241** “Model Predictive Control Technologies for Efficient and Flexible Power Consumption in Refrigeration Systems”  
Tobias Gybel Hovgaard, Lars F.S. Larsen, Kristian Edlund, and John Bagterp Jørgensen  
**(Energy, 44(1) (2012) 105-116)**
- CERE 1242** “Optimal Energy Consumption in Refrigeration Systems – Modelling and Non-Convex Optimisation”  
Tobias Gybel Hovgaard, Lars F.S. Larsen, Morten J. Skovrup, and John Bagterp Jørgensen  
**(Canadian Journal of Chemical Engineering, 90(6), (2012) 1426-1433)**

- CERE 1243** “Tuning SISO Offset-free Model Predictive Control Based on ARX Models”  
Jakob Kjøbsted Huusum, Niels Kjølstad Poulsen, Sten Bay Jørgensen, and John Bagterp Jørgensen  
**(Journal of Process Control, 22(10), (2012) 1997-2007)**
- CERE 1244** ”Nonconvex Model Predictive Control for Commercial Refrigeration”  
Tobias Gybel Hovgaard, Lars F.S. Larsen, John Bagterp Jørgensen, Stephen Boyd  
**(Nonlinear Model Predictive Control Conference, 4 International Federation of Automatic Control, (2012) 514-521)**
- CERE 1245** “Process Simulation of CO<sub>2</sub> Capture with Aqueous Ammonia Using the Extended UNIQUAC Model”  
Victor Darde, Bjørn Maribo-Mogensen, Willy J.M. van Well, Erling H. Stenby, and Kaj Thomsen  
**(International journal of Greenhouse Gas Control, 10 (2012) 74-87)**
- CERE 1246** “Evaluating the Impact of an Ammonia-Based Post-Combustion CO<sub>2</sub> Capture Process on a Steam Power Plant with Different Cooling Water Temperatures”  
Sebastian Linnenberg, Victor Darde, Jochen Oexmann, Alfons Kather, Willy J.M. van Well, and Kaj Thomsen  
**(International Journal of Greenhouse Gas Control, 10 (2012) 1-14)**
- CERE 1247** “Effect of Hot Water Injection on Sandstone Permeability: An Analysis of Experimental Literature”  
Esther Rosenbrand  
**(SPE 154489, (2012))**
- CERE 1248** “Erratum to: Transport Properties of Natural Gas Through Polyethylene Nanocomposites at High Temperature and Pressure”  
Jimoh K. Adewole, Lars Jensen, Usamah A. Al-Mubaiyedh, Nicolas von Solms, Ibnelwaleed A Hussein  
**(Journal of Polymer Research, 19 (2012) 9885)**
- CERE 1249** “Experimental Studies of Low Salinity Water Flooding in Carbonate Reservoirs: A New Promising Approach”  
Adeel Zahid, Alexander Shapiro, Arne Skauge  
**(Proceedings of the SPE EOR Conference at Oil and Gas West Asia 2012)**  
**SPE 155625, (2012) 835-848)**
- CERE 1250** "Effect of impurities during CO<sub>2</sub> compression"  
Shahid Ali, and Philip L. Fosbøl  
**(Internal Report, 2012)**



- CERE 1301** “Solids Modelling and Capture Simulation of Piperazine in Potassium Solvents”  
Philip Loldrup Fosbøl, Bjørn Maribo-Mogensen, and Kaj Thomsen  
**(Presented at the International Conference on Greenhouse Gas Technologies (GHGT-11), Kyoto, Japan, 18-22 November 2012)**  
**(Energy Procedia, 37 (2013) 844-859)**
- CERE 1302** “Alternative Layouts for the Carbon Capture with the Chilled Ammonia Process”  
Gianluca Valenti, Davide Bonalumi, Philip Fosbøl, Ennio Macchi, Kaj Thomsen, and Domenico Gatti  
**(Presented at the International Conference on Greenhouse Gas Technologies (GHGT-11), Kyoto, Japan, 18-22 November 2012)**  
**(Energy Procedia, 37 (2013) 2076-2083)**
- CERE 1303** “Improved Population Balance Model for Straining-dominant Deep Bed Filtration using Network Calculations”  
Hao Yuan, Zhenjiang You, Alexander Shapiro, and Pavel Bedrikovetsky  
**(Chemical Engineering Journal, 226 (2013) 227-237)**
- CERE 1304** “Association Models for Petroleum Applications”  
G.M. Kontogeorgis  
**(Vestnik (Herald) of St. Petersburg State University, Ser. 4 (Physics, Chemistry), Issue 1, March 2013, pp. 63-79)**
- CERE 1305** “Liquid-Liquid Equilibria for Reservoir Fluids + Monoethylene Glycol and Reservoir Fluids + Monoethylene Glycol + Water: Experimental Measurements and Modeling using the CPA EoS”  
Michael Frost, Georgios M. Kontogeorgis, Erling H. Stenby, Mustafe A. Yussuf, Toril Haugum, Kjersti O. Christensen, Even Solbraa, and Torbjørn V. Løkken  
**(Fluid Phase Equilibria, 340 (2013) 1-6)**
- CERe 1306** “Capabilities and Limitations of Predictive Engineering Theories for Multicomponent Adsorption”  
Sofie Bartholdy, Martin G. Bjørner, Even Solbraa, Alexander Shapiro, and Georgios M. Kontogeorgis  
**(Industrial and Engineering Chemistry Research, 52 (33) (2013) 11552-11563)**
- CERE 1307** “Vapor-Liquid-Liquid Equilibrium Measurements and Modeling of Ethanethiol + Methane + Water, 1-propanethiol + Methane + Water and 1-butanethiol + Methane + Water Ternary Systems at 303, 335 and 365 K and Pressure up to 9 MPa”  
Javeed Awan, Georgios M. Kontogeorgis, Ioannis Tsivintzelis, and Christophe Coquelet  
**(Ind. Eng. Chem. Res., 52(41) (2013) 14698-14705)**

- CERE 1308** “Ionic Networks Derived from the Protonation of Dendritic Amines with Carboxylic Acid End-Functionalized PEGs”  
Lidia González, Anne Ladegaard Skov, and Søren Hvilsted  
**(Journal of Polymer Science, Part A: Polymer Chemistry, 51 (2013) 1359-1371)**
- CERE 1309** “A Theoretical Analysis of Colloid Attachment and Straining in Chemically Heterogeneous Porous Media”  
Scott A. Bradford, Saeed Torkzaban, and Alexander Shapiro  
**(Langmuir, 29 (2013) 6944-6952)**
- CERE 1310** “Modeling of Dielectric Properties of Aqueous Salt Solutions with an Equation of State”  
Bjørn Maribo-Mogensen, Georgios M. Kontogeorgis, and Kaj Thomsen  
**(The Journal of Physical Chemistry, 117 (2013) 10523-10533)**
- CERE 1311** “Experimental Study of Bacterial Penetration into Chalk Rock: Mechanisms and Effect on Permeability”  
Amalia Halim, Alexander Shapiro, Anna Eliasson Lantz, and Sidsel Marie Nielsen  
**(Transport in Porous Media Journal, 101(1) (2014) 1-15)**
- CERE 1312** “Modeling of the Critical Micelle Concentration (CMC) of Nonionic Surfactants with an Extended Group-Contribution Method”  
Michele Mattei, Georgios M. Kontogeorgis, and Rafiqul Gani  
**(Industrial & Engineering Chemistry Research, 52 (2013) 12236-12246)**
- CERE 1313** “Synergistic Inhibition of Natural Gas Hydrate Formation”  
Nagu Daraboina, Christine Malmos, and Nicolas von Solms  
**(Fuel, 108 (2013) 749-757)**
- CERE 1314** “SIPPI: A Matlab Toolbox for Sampling the Solution to Inverse Problems with Complex Prior Information – Part I”  
Thomas Mejer Hansen, Knud Skou Cordua, Majken Caroline Looms, and Klaus Mosegaard  
**(Computers & Geosciences, 52 (2013) 470-480)**
- CERE 1315** “SIPPI: A Matlab Toolbox for Sampling the Solution to Inverse Problems with Complex Prior Information – Part II”  
Thomas Mejer Hansen, Knud Skou Cordua, Majken Caroline Looms, and Klaus Mosegaard  
**(Computers & Geosciences, 52 (2013) 481-492)**
- CERE 1316** “Improving Multi-point-based a Priori Models for Inverse Problems by Combining Sequential Simulation with the Frequency Matching Method”  
Knud S. Cordua, Thomas M. Hansen, Katrine Lange, Jan Frydendall, and Klaus Mosegaard  
**(Presented at 82th Annual Meeting for the Society of Exploration Geophysicists (SEG 2012), Las Vegas, 2012)**

- CERE 1317** “Multiple Scenario Inversion of Reflection Seismic Prestack Data”  
Thomas Mejer Hansen, Knud Skou Cordua, and Klaus Mosegaard  
**(Presented at 74<sup>th</sup> EAGE Conference & Exhibition incorporation SPE EUROPEC 2012, Copenhagen, Denmark, 4-7 June, 2012)**
- CERE 1318** “Heat of Absorption of CO<sub>2</sub> in Aqueous Solutions of DEEA, MAPA and their Mixture”  
Muhammad Waseem Arshad, Nicolas von Solms, Kaj Thomsen, and Hallvard Fjøsne Svendsen  
**(Energy Procedia, 37 (2013) 1532-1542)**  
**(Presented at the 11<sup>th</sup> International Conference on Greenhouse Gas Technologies (GHGT-11), Kyoto, Japan, 18-22 November, 2012)**
- CERE 1319** “Freezing Point Depressions of Phase Change CO<sub>2</sub> Solvents”  
Muhammad Waseem Arshad, Philip Loldrup Fosbøl, Nicolas von Solms, and Kaj Thomsen  
**(Journal of Chemical & Engineering Data, 58 (2013) 1918-1926)**
- CERE 1320** “Heat of Absorption of CO<sub>2</sub> in Phase Change Solvents: DEEA and MAPA”  
Muhammad Waseem Arshad, Philip Loldrup Fosbøl, Nicolas von Solms, Hallvard Fjøsne Svendsen, and Kaj Thomsen  
**(Journal of Chemical & Engineering Data, 58 (2013) 1974-1988)**
- CERE 1321** “Binary and Ternary VLE of the 2-(diethylamino)-ethanol (DEEA)/3-(Methylamino)-propylamine (MAPA)/Water System”  
Ardi Harono, Fahad Saleem, Muhammad Waseem Arshad, Muhammad Usman, and Hallvard Fjøsne Svendsen  
**(Chemical Engineering Science, 101 (2013) 401-411)**
- CERE 1322** “Synthesis Methods in Phase Equilibria: A New Apparatus and Error Analysis of the Method”  
José M.S. Fonseca, and Nicolas von Solms  
**(Journal of Supercritical Fluids, 86 (2014) 49-56)**
- CERE 1323** “Inhibition of Gas Hydrate Nucleation and Growth: Efficacy of an Antifreeze Protein from the Longhorn Beetle *Rhagium Mordax*”  
Christine Malmos Perfeldt, Pei Cheng Chua, Nagu Daraboina, Dennis Friis, Erlend Kristiansen, Hans Ramløv, John Woodley Malcolm A. Kelland, and Nicolas von Solms  
**(Energy & Fuel, 28 (2014) 3666-3672)**
- CERE 1324** “Investigation of Kinetic Hydrate Inhibition using a High Pressure Micro Differential Scanning Calorimeter”  
Nagu Daraboina, Christine Malmos, and Nicolas von Solms  
**(Energy & Fuels, 27 (2013) 5779-5786)**

- CERE 1325** “Thermodynamic Promotion of Carbon Dioxide Clathrate Hydrate Formation – An Experimental Study”  
Peter Jørgensen Herslund, Kaj Thomsen, Jens Abildskov, Nicolas von Solms, Aurélie Galfré, Pedro Brântuas, Matthias Kwaterski, Jean-Michel Herri  
**(International Journal of Greenhouse Gas Control, 17 (2013) 397-410)**
- CERE 1326** “Application of the Cubic-Plus-Association (CPA) Equation of State to Model the Fluid Phase Behaviour of Binary Mixtures of Water and Tetrahydrofuran”  
Peter Jørgensen Herslund, Kaj Thomsen, Jens Abildskov, and Nicolas von Solms  
**(Fluid Phase Equilibria, 356 (2013) 209-222)**
- CERE 1327** “Simulations of Microbial Enhanced Oil Recovery: Adsorption and Filtration”  
Sidsel M. Nielsen, Igor Nesterov, and Alexander A. Shapiro  
**(Transport in Porous Media, 102 (2014) 227-259)**
- CERE 1328** “Study of Wettability of Calcite Surfaces using Oil-Brine-Enzyme Systems for Enhanced Oil Recovery Applications”  
Alsu Khusainova, Sidsel Marie Nielsen, Hanne Høst Pedersen, John M. Woodley, and Alexander Shapiro  
**(Journal of Petroleum Science and Engineering, 127 (2015) 53-64)**
- CERE 1329** “Prediction of Vapor-liquid Equilibria and Speed of Sound in Binary Systems of 1-alkanols and n-alkanes with the Simplified PC-SAFT Equation of State”  
Xiaodong Liang, Kaj Thomsen, Wei Yan, and Georgios Kontogeorgis  
**(Fluid Phase Equilibria, 360 (2013) 222-232)**
- CERE 1330** “Comparing the CAPCO<sub>2</sub> Software to CASTOR pilot plant data Advanced thermodynamic models in rate based modeling”  
Philip Loldrup Fosbøl  
**(Internal report)**
- CERE 1331** “Experimental Determination and Modeling of the Phase Behaviour for the Direct Synthesis of Dimethyl Carbonate from Methanol and Carbon Dioxide”  
Ioannis Tsivintzelis, Nikolai E. Musko, Alfons Baiker, Jan-Dierk Grunwaldt, and Georgios M. Kontogeorgis  
**(Journal of Supercritical Fluids, 84 (2013) 155-163)**
- CERE 1332** “Poroelasticity of High Porosity Chalk under Depletion”  
Katrine Alling Andreassen, Ida Lykke Fabricius  
**(Poromechanics V: Proceedings of the Fifth Biot Conference on Poromechanics, American Society of Civil Engineers, 2013, 2423-2430)**

- CERE 1333** “Development and Analysis of the Original UNIFAC-CI Model for Prediction of Vapor-Liquid and Solid-Liquid Equilibria”  
Azizul Azri Bin Mustaffa, Rafiqul Gani, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 366 (2014) 24-44)**
- CERE 1334** “A Comprehensive Framework for Surfactant Selection and Design for Emulsion Based Chemical Product Design”  
Michele Mattei, Georgios M. Kontogeorgis, and Rafiqul Gani  
**(Fluid Phase Equilibria, 362 (2014) 288-299)**
- CERE 1335** “The Role of Monomer Fraction Data in Association Theories – can we improve the Performance for Phase Equilibria Calculations?”  
Ioannis Tsivintzelis, David Bøgh, Eirini Karakatsani, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 365 (2014) 112-122)**
- CERE 1336** “Negative Flash for Calculating the Intersecting Key Tielines in Multicomponent Gas Injection”  
Wei Yan, Michael L. Michelsen, and Erling H. Stenby  
**(I&EC Research, 53 (2014) 14094-14112)**
- CERE 1337** “Waterflooding Optimization in Uncertain Geological Scenarios”  
Andrea Capolei, Eka Suwartadi, Bjarne Foss, and John Bagterp Jørgensen  
**(Computational Geosciences, 17(6) (2013) 1255-1264)**
- CERE 1338** “On the Predictive Capabilities of CPA for Applications in the Chemical Industry: Multicomponent Mixtures Containing Methyl-methacrylate, Dimethyl-ether or Acetic Acid”  
Ioannis Tsivintzelis, and Georgios M. Kontogeorgis  
**(Chemical Engineering Research and Design, 92(12) (2014) 2947-2969)**
- CERE 1339** “Vapor-Liquid Equilibrium of Methane with Water and Methanol. Measurements and Modeling”  
Michael Frost, Eirini Karakatsani, Nicolas von Solms, Dominique Richon, and Georgios M. Kontogeorgis  
**(Journal of Chemical & Engineering Data, 59 (2014) 961-967)**
- CERE 1340** “The Effect of Hot Water Injection on Sandstone Permeability”  
Esther Rosenbrand, Christian Haugwitz, Peter Sally Munch Jacobsen, Claus Kjøller, Ida Lykke Fabricius  
**(Geothermics, 50 (2013) 155-166)**
- CERE 1341** “Rate and Predictors of the Conversion of Abstracts Presented at the Canadian Cardiovascular Congress Scientific Meetings to Full Peer-Reviewed Publications”  
Wael Abuzeid, Emil L. Fosbøl, Philip L. Fosbøl, Marie Fosbøl, Sanaz Zarinehbab, Heather Ross, Dennis T. Ko, Maria C. Bennell, and Harindra C. Wijeyesundera  
**(Canadian Journal of Cardiology, 29 (2013) 1520-1523)**

- CERE 1342** “Improving GC-PPC-SAFT Equation of State for LLE of Hydrocarbons and Oxygenated Compounds with Water”  
Thanh-Binh Nguyen, Jean-Charles de Hemptinne, Benoit Creton, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 372 (2014) 113-125)**
- CERE 1343** “On Solving the Rachford-Rice Equation with Higher Order Methods”  
Wei Yan, and Erling H. Stenby  
**(Fluid Phase Equilibria, 363 (2014) 290-292)**
- CERE 1344** “Design of an Emulsion Based Personal Detergent through a Model Based Chemical Product Design Methodology”  
M. Mattei, M. Hill, G.M. Kontogeorgis, R. Gani  
**(Computer Aided Chemical Engineering, 32 (2013) 817-822)**
- CERE 1345** “Kaolinite Mobilisation in Sandstone: Pore Plugging vs Suspended Particles”  
Esther Rosenbrand, Ida Lykke Fabricius, Frans Kets  
**(Proceedings, Thirty-Eighth Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, California)**
- CERE 1346** “Equivalent Pore Radius and Velocity of Elastic Waves in Shale. Skjold Flank-1 Well, Danish North Sea”  
Ernest N. Mbia, Ida L. Fabricius, and Collins O. Oji  
**(Journal of Petroleum and Engineering, 109 (2013) 280-290)**
- CERE 1347** “Permeability, Compressibility and Porosity of Jurassic Shale from the Norwegian-Danish Basin”  
Ernest N. Mbia, Ida L. Fabricius, Anette Krogsbøll, Peter Frykman, and Finn Dalhoff  
**(Petroleum Geoscience, 20 (2014) 257-281)**
- CERE 1348** “Caprock Compressibility and Permeability and the Consequences for Pressure Development in CO<sub>2</sub> storage sites”  
Ernest N. Mbia, Peter Frykman, Carsten B. Nielsen, Ida L. Fabricius, Gillian E. Pickup, and Christian Bernstone  
**(International Journal of Greenhouse Gas Control, 22 (2014) 139-153)**
- CERE 1349** “Equilibrium Total Pressure and CO<sub>2</sub> Solubility in Binary and Ternary Aqueous Solutions of 2-(Diethylamino)ethanol (DEEA) and 3-(Methylamino)propylamine (MAPA)”  
Muhammad Waseem Arshad, hallvard Frøsne Svendsen, Philip Loldrup Fosbøl, Nicolas von Solms, and Kaj Thomsen  
**(Journal of Chemical & Engineering Data, 59 (2014) 764-774)**
- CERE 1350** “Equilibrium Solubility of CO<sub>2</sub> in Alkanolamines”  
Muhammad Waseem Arshad, Philip Loldrup Fosbøl, Nicolas von Solms, Hallvard Fjøsne Svendsen, and Kaj Thomsen  
**(Energy Procedia, 51 (2014) 217-223)**

- CERE 1351** “Fluid Phase Equilibria during Propylene Carbonate Synthesis from Propylene Oxide in Carbon Dioxide Medium”  
L. Gharnati, N. E. Musko, A. D. Jensen, G. M. Kontogeorgis, and J. D. Grunwaldt  
**(J. Super. Fluids, 82 (2013) 106-115)**
- CERE 1352** “Association Theories for Complex Thermodynamics”  
G. M. Kontogeorgis  
**(Chem. Eng. Res. Des. 91(10) (2013) 1840-1858)**
- CERE 1353** “Workshop on Industrial Use of Molecular Thermodynamics (InMoTher)”  
G. M. Kontogeorgis, J. N. Jaubert, J. C. Hemptinne  
**(Oil & Gas Science and Technology-Revue d. IFP Energies Nouvelles, 68(2) (2013) 203-215)**
- CERE 1354** “Development of a New Comprehensive Framework for Surfactant Selection and Design for Emulsion Based Chemical Product Design”  
Michele Mattei, Georgios M. Kontogeorgis, and Rafiqul Gani  
**(Presented at PPEPPD 2013, Iguazu Falls, Argentina-Brazil, 26-30 May, 2013)**
- CERE 1355** “Speeding Up Compositional Reservoir Simulation through an Efficient Implementation of Phase Equilibrium Calculation”  
Abdelkrim Belkadi, Wei Yan, Elsa Moggia, Michael L. Michelsen, Erling H. Stenby, Ivar Aavatsmark, Emanuele Vignati, and Alberto Cominelli  
**(SPE 163589)**  
**(Presented at the SPE Reservoir Symposium, The Woodlands, Texas, USA, 18-20 February, 2013)**

- CERE 1401** “The Virtual Product-Process Design Laboratory for Structured Chemical Product Analysis and Design and Analysis”  
M. Mattei, N.A. Yunus, S. Kakakul, G.M. Kontogeorgis, J.M. Woodley, K.V. Gernaey, and R. Gani  
**(Computer Aided Chemical Engineering, 33 (2014) 61-66)**
- CERE 1402** “History Matching with Geostatistical Prior: A Smooth Formulation”  
Y. Melnikova, K. Lange, A. Zunino, K.S. Cordua, and K. Mosegaard  
**(Mathematics of Planet Earth, Springer Berlin Heidelberg, 703-707)**
- CERE 1403** “Process Design of Industrial Triethylene Glycol Processes using the Cubic-Plus-Association (CPA) Equation of State”  
Alay Arya, Bjørn Maribo-Mogensen, Ioannis Tsivintzelis, and Georgios M. Kontogeorgis  
**(I&EC Research, 53 (2014) 11766-11778)**
- CERE 1404** “The Role of Chemical Engineering in Medicinal Research including Alzheimer’s”  
Georgios M. Kontogeorgis  
**(P.Vlamos, A. Alexiou (eds.), GeNeDis 2014, Advances in Experimental Medicine and Biology 821, 57-62)**
- CERE 1405** “Modeling Water Containing Systems with the Simplified PC-SAFT and CPA Equations of State”  
Xiaodong Liang, Ioannis Tsivintzelis, and Georgios M. Kontogeorgis  
**(Ind.Eng.Chem.Res., 53(37) (2014) 14493-14507)**
- CERE 1406** “Modelling of Tetrahydrofuran Promoted Gas Hydrate Systems for Carbon Dioxide Capture Processes”  
Peter Jørgensen Herslund, Kaj Thomsen, Jens Abildskov, and Nicolas von Solms  
**(Fluid Phase Equilibria, 375 (2014) 45-65)**
- CERE 1407** “Modelling of Cyclopentane Promoted Gas Hydrate Systems for Carbon Dioxide Capture”  
Peter Jørgensen Herslund, Kaj Thomsen, Jens Abildskov, and Nicolas von Solms  
**(Fluid Phase Equilibria, 375 (2014) 89-103)**
- CERE 1408** “Antifreeze Activity Enhancement by Site Directed Mutagenesis on an Antifreeze Protein from the Beetle *Rhagium Mordax*”  
Dennis Steven Friis, Erlend Kristiansen, Nicolas von Solms, and Hans Ramløv  
**(FEBS Letters, 588 (2014) 1767-1772)**
- CERE 1409** “Porosity and Sonic Velocity Depth Trends of Eocene Chalk in Atlantic Ocean: Influence of Effective Stress and Temperature”  
Ahmed Awadalkarim, and Ida L. Fabricius  
**(Journal of Petroleum Science and Engineering, 122 (2014) 216-229)**



- CERE 1410** “Modeling of the Pressure Propagation due to CO<sub>2</sub> Injection and the Effect of Fault Permeability in a Case Study of the Vedsted Structure, Northern Denmark”  
Ernest N. Mbia, Peter Frykman, Carsten M. Nielsen, Ida L. Fabricius, Gillian E. Pickup, and Ann T. Sørensen  
**(International Journal of Greenhouse Gas Control, 28 (2014) 1-10)**
- CERE 1411** “Different Effects of Temperature and Salinity on Permeability Reduction by Fines Migration in Berea Sandstone”  
Esther Rosenbrand, Claus Kjøller, Jacob Fabricius Riis, Frans Kets, and Ida Lykke Fabricius  
**(Geothermics, 53 (2015) 225-235)**
- CERE 1412** “Petrophysical and Rock-Mechanics Effects of CO<sub>2</sub> Injection for Enhanced Oil Recovery: Experimental Study of Chalk from South Arne Field, North Sea”  
M. Monzurul Alam, Morten Leth Hjuler, Helle Foged Christensen, and Ida Lykke Fabricius  
**(Journal of Petroleum Science & Engineering, 122 (2014) 468-487)**
- CERE 1413** “Petrophysical Analysis of Siliceous Ooze Sediments, Møre Basin, Norwegian Sea”  
Ahmed Awadalkarim, Morten Kanne Sørensen, and Ida Lykke Fabricius  
**(Petrophysics, 55(4) (2014))**
- CERE 1414** ”Petroleum Geology of the Campos and Santos Basins, Lower Cretaceous Brazilian Sector of the South Atlantic Margin”  
Pilar Clemente  
**(Internal Report)**
- CERE 1415** “Crystallization Kinetics within a Generic Modeling Framework”  
Kresten T. Meisler, Nicolas von Solms, Krist V. Gernaey, and Rafiqul Gani  
**(Chemical Engineering Technology, 37(8) (2014) 1383-1392)**
- CERE 1416** “Measuring and Modelling of the Combined Thermodynamic Promoting Effect of Tetrahydrofuran and Cyclopentane on Carbon Dioxide Hydrates”  
Peter Jørgensen Herslund, Nagu Daraboina, Kaj Thomsen, Jens Abildskov, and Nicolas von Solms  
**(Fluid Phase Equilibria, 381 (2014) 20-27)**
- CERE 1417** ”Experimental Validation of Kinetic Inhibitor Strength on Natural Gas Hydrate Nucleation”  
Nagu Daraboina, Stylianos Pachitsas, and Nicolas von Solms  
**(Fuel, 139 (2015) 554-560)**
- CERE 1418** “The Combined Effect of Thermodynamic Promoters Tetrahydrofuran and Cyclopentane on the Kinetics of Flue Gas Hydrate Formation”  
Nagu Daraboina, and Nicolas von Solms  
**(J. Chem. Eng. Data, 60 (2015) 247-251)**

- CERE 1419** “Burial Stress and Elastic Strain of Carbonate Rocks”  
Ida Lykke Fabricius  
**(Geophysical prospecting, 62 (2014) 1327-1336)**
- CERE 1420** “Determination of Matrix Pore Size Distribution in Fractured Clayey Till and Assessment of Matrix Migration of Dechlorinating Bacteria”  
Cong Lu, Mette M. Broholm, Ida L. Fabricius, and Poul L. Bjerg  
**(Bioremediation Journal, 18 (2014) 295-308)**
- CERE 1421** “On Petroleum Fluid Characterization with the PC-SAFT Equation of State”  
Xiaodong Liang, Wei Yan, Kaj Thomsen, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 375 (2014) 254-268)**
- CERE 1422** “New Variant of the Universal Constants in the Perturbed Chain-Statistical Association Fluid Theory Equation of State”  
Xiaodong Liang, and Georgios M. Kontogeorgis  
**(Industrial & Engineering Chemistry Research, 54(4) (2015) 1373-1384)**
- CERE 1423** “Modeling Phase Equilibria for Acid Gas Mixtures using the Cubic-Plus-Association Equation of State. 3. Applications Relevant to Liquid or Supercritical CO<sub>2</sub> Transport”  
Ioannis Tsivintzelis, Shahid Ali, and Georgios M. Kontogeorgis  
**(Journal of Chemical & Engineering Data, 59(10) (2014) 2955-2972)**
- CERE 1424** “Modeling Water Saturation Points in Natural Gas Streams Containing CO<sub>2</sub> and H<sub>2</sub>S – Comparisons with different Equations of State”  
Letícia C. dos Santos, Samir S. Abunahman, Frederico W. Tavares, Victor R. R. Ahón, and Georgios M. Kontogeorgis  
**(Industrial & Engineering Chemistry Research, 54(2) (2015) 743-757)**
- CERE1425** “Two-Phase Immiscible Flows in Porous Media: The Mesoscopic Maxwell-Stefan Approach”  
Alexander A. Shapiro  
**(Transport in Porous Media, 107(2) (2015) 335-363)**
- CERE 1426** “Modeling of Dissolution Effects on Waterflooding”  
Artem Alexeev, Alexander Shapiro, and Kaj Thomsen  
**(Transport in Porous Media, 106(3) (2015) 545-562)**
- CERE 1427** “A Mean-Variance Objective for Robust Production Optimization in Uncertain Geological Scenarios”  
Andrea Capolei, Eka Suwartadi, Bjarne Foss, and John Bagterp Jørgensen  
**(Journal of Petroleum Science and Engineering, 2014)**

- CERE 1428** “Distribution of Gas Hydrate Inhibitor Monoethylene Glycol in Condensate and Water Systems: Experimental Measurement and Thermodynamic Modeling Using the Cubic-Plus-Association Equation of State”  
Muhammad Riaz, Mustafe A. Yussuf, Michael Frost, Georgios M. Kontogeorgis, Erling H. Stenby, Wei Yan, and Even Solbraa  
**(Energy Fuels, 28 (2014) 3530-3538)**
- CERE 1429** “An Electrolyte CPA Equation of State for Mixed Solvent Electrolytes”  
Bjørn Maribo-Mogensen, Kaj Thomsen, and Georgios M. Kontogeorgis  
**(AIChE Journal, 61 (2015) 2933-2950)**
- CERE 1430** “Modeling MEA with the CPA Equation of State: A Parameter Estimation Study Adding Local Search to PSO Algorithm”  
Leticia Cotia dos Santos, Frederico Wanderley Tavares, Victor Rolando Ruiz Ahón, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 400 (2015) 76-86)**
- CERE 1431** “Thermodynamic Modeling of CO<sub>2</sub> Absorption in Aqueous N-Methyldiethanolamine using Extended UNIQUAC Model”  
Negar Sadegh, Erling H. Stenby, and Kaj Thomsen  
**(Fuel, 144 (2015) 295-306)**
- CERE 1432** “Testing Antifreeze Protein from the Longhorn Beetle Rhagium Mordax as Kinetic Gas Hydrate Inhibitor using a High Pressure Micro Differential Scanning Calorimeter”  
Nagu Daraboina, Christine Malmos, and Nicolas von Solms  
**(Can. J. Chem., 93 (2015) 1025-1030)**
- CERE 1433** “Natural Gas Hydrate Formation and Inhibition in Gas/Crude Oil/Aqueous Systems”  
Nagu Daraboina, Stylianos Pachitsas, and Nicolas von Solms  
**(Fuel, 148 (2015) 186-190)**
- CERE 1434** “Thermodynamics of Polymer Solutions”  
G.M. Kontogeorgis, N. von Solms  
**(Chapter for the 4<sup>th</sup> ed. of the Handbook of Colloid and Surface Chemistry, CRC Press, Editor: K. Birdi)**
- CERE 1435** “Modeling Phase Equilibria for Acid Gas Mixtures using the CPA Equation of State. Part IV. Applications to mixtures of CO<sub>2</sub> with alkanes”  
Ioannis Tsvintzelis, Shahid Ali, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 397 (2015) 1-17)**
- CERE 1436** “Benchmarking and Comparing First and Second Generation Post Combustion CO<sub>2</sub> Capture Technologies”  
Philip Loldrup Fosbøl, Jozsef Gaspar, Søren Ehlers, Alfons Kather, Patrick Briot, Michiel Nienoord, Purvil Khakharia, Yann Le Moullec, Olaf T. Berglihn, and Hanne Kvamsdal  
**(Energy Procedia, 63 (2014) 27-44)**

- CERE 1437** “A Low Energy Aqueous Ammonia CO<sub>2</sub> Capture Process”  
Jozsef Gaspar, Muhammad Waseem Arshad, Eirik Ask Blaker, Birger Langseth, Tord Hansen, Kaj Thomsen, Nicolas von Solms, and Philip Loldrup Fosbøl  
**(Energy Procedia, 63 (2014) 614-623)**
- CERE 1438** “Solid Formation in Piperazine Rate-based Simulation”  
Jozsef Gaspar, Kaj Thomsen, Nicolas von Solms, and Philip Loldrup Fosbøl  
**(Energy Procedia, 63 (2014) 1074-1083)**
- CERE 1439** “From Abstract to Peer-reviewed Publication: Country Matters”  
Lauge Østergaard, Philip L. Fosbøl, Robert A. Harrington, Zubin J. Eapen, Eric D. Peterson, and Emil L. Fosbøl  
**(International Journal of Cardiology 174(3), 830-832, 2014)**
- CERE 1440** “Aqueous Ammonia CO<sub>2</sub> Capture Process – Modeling and Simulation Study”  
Muhammad Waseem Arshad, Jozsef Gaspar, Philip Fosbøl, Birger Langseth, Tord Hansen, and Eirik Ask Blaker  
**(Internal Report)**
- CERE 1441** “Wet Gas Flow Metering”  
Martin Gamel Bjørner, and Philip Loldrup Fosbøl  
**(Internal Report)**
- CERE 1442** “Microbial Enhanced Oil Recovery – A Mathematical Study of the Potential of Spore-forming Bacteria”  
S.M. Nielsen, I. Nesterov, A.A. Shapiro  
**(Transport in Porous Media, 102(2) (2014) 227-259)**
- CERE 1443** “Petrobras Process Simulator and Cubic Plus Association (CPA) Equation of State: A Tool for Flow Assurance Projects”  
Leticia C. Santos, Samir S. Abunahman, Frederico Wanderley Tavares, Victor Ahón, and Georgios Kontogeorgis  
**(Internal Report)**
- CERE 1444** “Profiling of Indigenous Microbial Community Dynamics and Metabolic Activity during Enrichment in Molasses-Supplemented Crude Oil-Brine Mixtures for Improved Understanding of Microbial Enhanced Oil Recovery”  
Amalia Yunita Halim, Dorthe Skou Pedersen, Sidsel Marie Nielsen, and Anna Eliasson Lantz  
**(Appl Biochem 176 (2015) 1012-1028)**
- CERE 1445** “Enzymatically Assisted CO<sub>2</sub> Removal from Flue-Gas”  
Maria T. Gundersen, Nicolas von Solms, and John M. Woodley  
**(Energy Procedia, 62 (2014) 624-632)**

**CERE 1446** Editorial “Advances in Thermodynamics for Chemical Process and Product Design”  
Ioannis Economou, Georgios Kontogeorgis, Ralf Dohrn, and Jean-Charles de Hemptinne  
**(Chemical Engineering Research & Design, 92 (2014) 2793-2794)**

- CERE 1501** “PVT modeling of reservoir fluids using PC-SAFT EoS and Soave-BWR EoS”  
Wei Yan, Farhad Varzandeh, and Erling H. Stenby  
**(Fluid Phase Equilibria, 386 (2015) 96-124)**
- CERE 1502** “Multicomponent Adsorption Model for Polar and Associating Mixtures”  
Igor Nesterov, Alexander Shapiro, and Georgios M. Kontogeorgis  
**(Ind. Eng. Chem. Res., 54 (2015) 3039-3050)**
- CERE 1503** “Hydrate Equilibrium Data for the CO<sub>2</sub>-N<sub>2</sub> System with the use of Tetra-n-butylammonium Bromide (TBAB), Cyclopentane (CP) and their Mixture”  
Fragkiskos Tzirakis, Paolo Stringari, Nicolas von Solms, Christophe Coquelet, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 408 (2016) 240-247)**
- CERE 1504** “Modeling Phase Equilibria for Acid Gas Mixtures using the CPA Equation of State. Part V. Multicomponent Mixtures Containing CO<sub>2</sub> and Alcohols”  
Ioannis Tsivintzelis, and Georgios M. Kontogeorgis  
**(J. of Supercritical Fluids, 104 (2015) 29-30)**
- CERE 1505** “A Comment on Water’s Structure using Monomer Fraction Data and Theories”  
Xiaodong Liang, Bjørn Maribo-Mogensen, Ioannis Tsivintzelis, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 407 (2016) 2-6)**
- CERE 1506** “Phase Equilibrium Measurements and Modeling of 1-Propanethiol+1-Butanethiol + CH<sub>4</sub> in Methane Ternary System at 303, 336, and 368 K and Pressure Up to to 9 MPa”  
Javeed A. Awan, Christophe Coquelet, Ioannis Tsivintzelis, and Georgios M. Kontogeorgis  
**(Journal of Chemical & Engineering Data, 61 (2016) 41-44)**
- CERE 1507** “Determination of Asphaltene Onset Conditions using the Cubic Plus Association Equation of State”  
Alay Arya, Nicolas von Solms, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 400 (2015) 8-19)**
- CERE 1508** “Permeability in Rotliegend Gas Sandstones to Gas and Brine as Predicted from NMR, Mercury Injection and Image Analysis”  
Esther Rosenbrand, Ida Lykke Fabricius, Quentin Fisher, and Carlos Grattoni  
**(Marine and Petroleum Geology, 64 (2015) 189-202)**

- CERE 1509** “Solubility of Hydrogen Sulfide in Aqueous Solutions of N-Methyldiethanolamine at High Pressures”  
Negar Sadegh, Kaj Thomsen, Even Solbraa, Eivind Johannessen, Gunn I Rudolfsen, and Ole J. Berg  
**(Fluid Phase Equilibria, 393 (2015) 33-39)**
- CERE 1510** “Modelling Phase Equilibria for Acid Gas Mixtures using the CPA Equation of State. Part VI. Multicomponent Mixtures with Glycols Relevant to Oil & Gas and Liquid or Supercritical CO<sub>2</sub> Transport Applications”  
Ioannis Tsivintzelis, and Georgios M. Kontogeorgis  
**(Journal of Chemical Thermodynamics, 93 (2016) 305-319)**
- CERE 1511** “A Collocation Method for Surface Tension Calculation with the Density Gradient Theory”  
Peter Mahler Larsen, Bjørn Maribo-Mogensen, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 408 (2016) 170-179)**
- CERE 1512** ”Thermodynamic Modeling of Hydrogen Sulfide Absorption by Aqueous N-Methyldiethanolamine using the Extended UNIQUAC Model”  
Negar Sadegh, Erling H. Stenby, and Kaj Thomsen  
**(Fluid Phase Equilibria, 392 (2015) 24-32)**
- CERE 1513** “Characterization Scheme for Property Prediction of Fluids Originating from Biomass”  
Thanh-Binh Nguyen, Jean-Charles de Hemptinne, Benoit Creton, and Georgios M. Kontogeorgis  
**(Energy Fuels, 29 (2015) 7230-7241)**
- CERE 1514** “Measurement of Vapor-Liquid-Liquid Phase Equilibrium – Equipment and Results”  
Michael Frost, Nicolas von Solms, Dominique Richon, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 405 (2015) 88-95)**
- CERE 1515** “Mathematical Model for Enhanced Oil Recovery by Wettability Alteration Accounting for Oil Ganglia”  
Artem Alexeev, Alexander Shapiro, and Kaj Thomsen  
**(Internal Report)**
- CERE 1516** “Investigation of Spore Forming Bacteria Flooding for Enhanced Oil Recovery in North Sea Chalk Reservoir”  
Amalia Yunita Halim, Sidsel Marie Nielsen, Anna Eliasson Lantz, Vural Sander Suicmez, Niels Lindeloff, and Alexander Shapiro  
**(Journal of Petroleum Science and Engineering, 133 (2015) 444-454)**

- CERE 1517** “Modeling Derivative Properties and Binary Mixtures with CO<sub>2</sub> using the CPA and the Quadrupolar CPA Equations of State”  
Martin Gamél Bjørner, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 408 (2016) 151-169)**
- CERE 1518** “Modeling the Liquid-Liquid equilibrium of Petroleum Fluid and Polar Compounds Containing Systems with the PC-SAFT Equation of State”  
Xiaodong Liang, Wei Yan, Kaj Thomsen, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 406 (2015) 147-155)**
- CERE 1519** “Importance of Fines in Smart Water Enhanced Oil Recovery “SmW-EOR) for Chalk Outcrops”  
Krishna Hara Chakravarty, Philip Loldrup Fosbøl, and Kaj Thomsen  
**(SPE 174334-MS (2015))**
- CERE 1520** “Modeling the Binary System Mn(NO<sub>3</sub>)<sub>2</sub> – H<sub>2</sub>O with the Extended Universal Quasichemical (UNIQUAC) model”  
Mouad Arrad, Mohammed Kaddami, Jaafar Maous, and Kaj Thomsen  
**(Fluid Phase Equilibria, 397 (2015) 126-130)**
- CERE 1521** “Risk Associated with the Decompression of High Pressure High Temperature (HP/HT) Fluids – Study on Pure Liquid Water”  
D.C. Figueroa, P.L. Fosbøl, K. Thomsen  
**(SPE-173846-MS. 2015)**
- CERE 1522** “Phase Equilibrium of North Sea Oils with Polar Chemicals: Experiments and CPA Modeling”  
Michael Frost, Georgios M. Kontogeorgis, Nicolas von Solms, Toril Haugum, and Even Solbraa  
**(Fluid Phase Equilibria, 424 (2016) 122-136)**
- CERE 1523** “Mechanics of the Separating Surface for a Two-phase Co-current Flot in a Porous Medium”  
Alexander A. Shapiro  
**(Transport in Porous Media, 112 (2016) 489-517)**
- CERE 1524** “Modeling of Phase Equilibrium of North Sea Oils with Water and MEG”  
Michael Frost, Georgios M. Kontogeorgis, Nicolas von Solms, and Even Solbraa  
**(Fluid Phase Equilibria, 424 (2016) 79-89)**
- CERE 1525** “Investigation of the Gas Injection Effect on Asphaltene Onset Precipitation Using the Cubic-Plus-Association Equation of State”  
Alay Arya, Nicolas von Solms, and Georgios M. Kontogeorgis  
**(Energy & Fuels, 30 (2016) 3560-3574)**



- CERE 1526** “A General Enhancement Factor Model for Absorption and Desorption Systems: A CO<sub>2</sub> Capture Case-study”  
Jozsef Gaspar, and Philip Loldrup Fosbøl  
**(Chemical Engineering Science, 138 (2015) 203-215)**
- CERE 1527** “Microbial Enhanced Oil Recovery – A Modeling Study of the Potential of Spore-forming Bacteria”  
S. M. Nielsen, I. Nesterov, and A. A. Shapiro  
**(Computational Geosciences, 20 (2016) 567-580)**
- CERE 1528** ”Rate Dependence of Dry, Oil- or Water-saturated Chalk”  
K. A. Andreassen, and A. Al-Alwan  
**(Presented at 49<sup>th</sup> US Rock Mechanics/Geomechanics Symposium, San Francisco, USA, June, 2015)**
- CERE 1529** “Oil and Gas Pipelines with Hydrophobic Surfaces better Equipped to Deal with Gas Hydrate Flow Assurance Issues”  
Christine Malmos Perfeldt, Hassan Sharifi, Nicolas von Solms, and Peter Englezos  
**(Journal of Natural Gas Science and Engineering, 27 (2015) 852-861)**
- CERE 1530** “The Phase Envelope of Multicomponent Mixtures in the Presence of a Capillary Pressure Difference”  
Diego Sandoval, Wei Yan, Michael L. Michelsen, Erling H. Stenby  
**(Ind. Eng. Chem. Res., 55 (2016) 6530-6538)**
- CERE 1531** “Risk Associated With The Decompression Of High Pressure High Temperature Fluids – Study On Black Oil”  
D.C. Figueroa, P.L. Fosbøl, and K. Thomsen  
**(SPE-173846-MS (2015))**
- CERE 1532** “Uncertainty Analysis of the CPA and a Quadrupolar CPA Equation of State – With emphasis on CO<sub>2</sub>”  
Martin Gamél Bjørner, Gürkan Sin, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 414 (2016) 29-47)**
- CERE 1533** “Nonlinear Multigrid for Reservoir Simulation”  
Max la Cour Christensen, Klaus Langgren Eskildsen, Allan Peter Ensig-Karup, Mark Wakefield  
**(SPE 178428 (2015))**
- CERE 1534** “Qualification of Polymer Materials for High Pressure CO<sub>2</sub> Flexible Pipe Structures”  
C. Wang, A. Rubin, N. Von Solms  
**(SPE-FOTC-24468-MS (2013)) (Fluid Phase Equilibria, 372 (2014) 113-125)**

- CERE 1535** “On the Viscosity of Two 1-butyl-1-methylpyrrolidinium Ionic Liquids: Effect of the Temperature and Pressure”  
Félix M. Gaciño, María J.P. Comuñas, Teresa Regueira, José J. Segovia, and Josefa Fernández  
**(J. Chem. Thermodynamics, 87 (2015) 43-51)**
- CERE 1536** “Densities of the Binary Systems *n*-hexane + *n*-decane and *n*-hexane + *n*-hexadecane Up to 60 MPa and 463 K”  
Teresa Regueira, Wei Yan, and Erling H. Stenby  
**(Journal of Chemical & Engineering Data, 60 (2015) 3631-3645)**
- CERE 1537** “Pressure Dependence of the Solubility of Light Fullerenes in 1-hexanol from 298.15 K to 363.15 K”  
Konstantin N. Semenov, Teresa Regueira, Josefa Fernández, Nikolay A. Charykov, and Igor V. Murin  
**(Journal of Molecular Liquids, 209 (2015) 71-76)**
- CERE 1538** “Time-Explicit Methods for Joint Economical and Geological Risk Mitigation in Production Optimization”  
Lasse H. Christiansen, Andrea Capolei, and John Bagterp Jørgensen  
**(Journal of Petroleum Science and Engineering, 146 (2016) 158-169)**
- CERE 1539** “Methods and Modelling for Post-combustion CO<sub>2</sub> Capture”  
Philip Fosbøl, Nicolas von Solms, Arne Gladis, Kaj Thomsen, and Georgios M. Kontogeorgis  
**(Process Systems and Materials for CO<sub>2</sub> Capture: Modelling, Design, Control and Integration, First Edition. Edited by Athanasios I. Papadopoulos and Panos Seferlis. Published 2017 by John Wiley & Sons Ltd.)**
- CERE 1540** “Monte Carlo Reservoir Analysis Combining Seismic Reflection Data and Informed Priors”  
Andrea Zunino, Klaus Mosegaard, Katrine Lange, Yulia Melnikova, and Thomas Mejer Hansen  
**(Geophysics, 80(1) (2015) 31-41)**
- CERE 1541** “Dynamic Operation and Simulation of Post-Combustion CO<sub>2</sub> Capture”  
Jozsef Gaspar, Arne Gladis, John Bagterp Jørgensen, Kaj Thomsen, Nicolas von Solms, and Philip Loldrup Fosbøl  
**(Energy Procedia, 86 (2016) 205-214)**
- CERE 1542** “Control of a Post-Combustion CO<sub>2</sub> Capture Plant during Process Start-up and Load Variations”  
Jozsef Gaspar, John Bagterp Jørgensen, and Philip Loldrup Fosbøl  
**(IFAC-PapersOnLine 48-8 (2015) 580-585)**

- CERE 1543** "Multivariable Optimization of the Piperazine CO<sub>2</sub> Post-Combustion Capture Process"  
Jozsef Gaspar, Nicolas von Solms, Kaj Thomsen, and Philip Loldrup Fosbøl  
**(Energy Procedia, 86 (2016) 229-238)**
- CERE 1544** "Pitfalls of using the Geometric-mean Combining Rule in the Density Gradient Theory"  
Xiaodong Liang, Michael Loch Michelsen, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 415 (2016) 75-83)**
- CERE 1545** "Modelling the Phase Equilibria of Multicomponent Mixtures Containing CO<sub>2</sub>, Alkanes, Water and/or Alcohols using the Quadrupolar CPA Equation of State"  
Martin G. Bjørner, and Georgios M. Kontogeorgis  
**(Molecular Physics, 114 (2016) 2641-2654)**
- CERE 1546** "A Dynamic Mathematical Model for Packed Columns in Carbon Capture Plants"  
Jozsef Gaspar, John Bagterp Jørgensen, and Philip Loldrup Fosbøl  
**(Proceedings from 2015 European Control Conference, (ECC), July 15-17, 2015, Linz, Austria)**
- CERE 1547** "Profit and Risk Measures in Oil Production Optimization"  
A. Capolei, B. Foss, and J.B. Jørgensen  
**(IFAC-PapersOnLine, 48-6 (2015) 214-220)**
- CERE 1548** "Extracurricular scientific production among medical students has increased in the past decade"  
S.B. Andersen, L. Østergaard, and P.L. Fosbøl  
**(Danish medical journal, 62 (2015) 1-5)**
- CERE 1549** "Fine formation during Brine-Crude oil-calcite interaction in Smart Water Enhanced Oil Recovery for Caspian carbonates"  
Krishna Hara Chakravarty, Philip Loldrup Fosbøl, and Kaj Thomsen  
**(SPE 177379-MS (2015))**
- CERE 1550** "Formation of anhydrite due to interaction between water soluble CO<sub>2</sub> (aq) and calcite mineral during enhanced oil recovery"  
Krishna Hara Chakravarty, and Kaj Thomsen  
**(SPE-178129-MS (2015))**
- CERE 1551** "Significance of Fines and their Correlation to Reported Oil Recovery"  
Krishna Hara Chakravarty, Philip Loldrup Fosbøl, and Kaj Thomsen  
**(SPE-177711-MS (2015))**
- CERE 1552** "Interactions of Fines with Oil and its Implication in Smart Water Flooding"  
Krishna Hara Chakravarty, Philip Loldrup Fosbøl, and Kaj Thomsen  
**(SPE-173855-MS (2015))**

- CERE 1553** "Interactions of fines with base fractions of oil and its implication in smart water flooding"  
Krishna Hara Chakravarty, Philip Loldrup Fosbøl, and Kaj Thomsen  
**SPE-174335-MS (2015))**
- CERE 1554** "Brine crude oil interactions at the oil-water interface."  
Krishna Hara Chakravarty, Philip Loldrup Fosbøl, and Kaj Thomsen  
**SPE-174685-MS (2015))**

- CERE 1601** “Solubility Modeling of the Binary Systems  $\text{Fe}(\text{NO}_3)_3\text{-H}_2\text{O}$ ,  $\text{Co}(\text{NO}_3)_2\text{-H}_2\text{O}$  and the Ternary  $\text{Fe}(\text{NO}_3)_3\text{-Co}(\text{NO}_3)_2\text{-H}_2\text{O}$  with the Extended Universal Quasichemical (UNIQUAC) Model”  
Mouad Arrad, Mohammed Kaddami, Bahija El Goundali, and Kaj Thomsen  
**(Journal of Solution Chemistry, 45 (2016) 534-545)**
- CERE 1602** “Thermodynamic Modeling of Liquid-Liquid Phase Change Solvents for  $\text{CO}_2$  Capture”  
Muhammad Waseem Arshad, Nicolas von Solms, and Kaj Thomsen  
**(Greenhouse Gas Control, 53 (2016) 401-424)**
- CERE 1603** ”Application of Various Water Soluble Polymers in Gas Hydrate Inhibition”  
Muhammad Shahzad Kamal, Ibnelwaleed A. Hussein, Abdullah S. Sultan, and Nicolas von Solms  
**(Renewable and Sustainable Energy Reviews, 60 (2016) 206-225)**
- CERE 1604** “Robust and Efficient Isenthalpic Flash Algorithms for Thermal Recovery of Heavy Oil”  
Duncan Paterson, Wei Yan, Michael L. Michelsen, and Erling H. Stenby  
**(SPE-179652-MS (2016))**
- CERE 1605** “Simulation and Multivariable Optimization of Post-Combustion Capture using Piperazine”  
Jozsef Gaspar, and Philip Loldrup Fosbøl  
**(International Journal of Greenhouse Gas Control, 49 (2016) 227-238)**
- CERE 1606** “A Stabilised Nodal Spectral Element Method for Fully Nonlinear Water Waves”  
A. P. Ensig-Karup, C. Eskilsson, and D. Bigoni  
**(Journal of Computational Physics, 318 (2016) 1-21)**
- CERE 1607** “Evaluation of Equations of State for Simultaneous Representation of Phase Equilibrium and Critical Phenomena”  
Andre P.C.M. Vinhal, Wei Yan, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 437 (2017) 140-154)**
- CERE 1608** “A Predictive Approach of using the CPA Equation of State”  
Tobias A. Hansen, Anders Schlaikjer, and Georgios M. Kontogeorgis  
**(Internal report)**
- CERE 1609** “Density and Isothermal Compressibility for two Trialkylimidazolium-based ionic Liquids at Temperatures from (278 to 398) K and up to 120 MPa”  
Félix M. Gaciño, Teresa Muñoz Regueira, María J.P. Comuñas, Luis Lugo, Josefa Fernández  
**(Journal of Chemical Thermodynamics, 81 (2015) 124-130)**

- CERE 1610** “Volumetric Behavior of Six Ionic Liquids from T=(278 to 398)K and up to 120MPa”  
Félix M. Gaciño, Teresa Muñiz Regueira, Alexander V. Bolotov, Artur Sharipov, Luis Lugo, María J.P. Fernández, and Josefa Fernández  
**(Journal of Chemical Thermodynamics, 93 (2016) 24-33)**
- CERE 1611** “Density and Phase Equilibrium of the Binary System Methane + n-decane under High Temperatures and Pressures”  
Teresa Regueira, Georgia Pantelide, Wei Yan, and Erling H. Stenby  
**(Fluid Phase Equilibria, 428 (2016) 48-61)**
- CERE 1612** “A Least Squares Approach for Efficient and Reliable Short-term Versus Long-term Optimization”  
Lasse Hjuler Christiansen, Andrea Capolei, and John Bagterp Jørgensen  
**(Computational and Geosciences, 21 (2017) 411-426)**
- CERE 1613** “Modeling Systems Relevant to the Biodiesel Production Using the CPA Equation of State. Part 1. Pure compounds and binary systems”  
Ioannis Tsivintzelis, Shahid Ali, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 430 (2016) 75-92)**
- CERE 1614** “Modeling Systems Relevant to the Biodiesel Production Using the CPA Equation of State. Part 1. Pure compounds and binary systems.  
Supplementary Material  
Ioannis Tsivintzelis, Shahid Ali, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 430 (2016) 75-92)**
- CERE 1615** “Simultaneous Description of Activity Coefficients and Solubility with eCPA”  
Anders Schlaikjer, Kaj Thomsen, and Georgios M. Kontogeorgis  
**(I&EC Research, 56 (2017) 1074-1089)**
- CERE 1616** “Modeling of Asphaltene Onset Precipitation Conditions with Cubic Plus Association (CPA) and Perturbed Chain Statistical Associating Fluid Theory (PC-SAFT) Equation of States”  
Alay Arya, Xiaodong Liang, Nicolas von Solms, and Georgios Kontogeorgis  
**(Energy & Fuels, 30 (2016) 6835-6852)**
- CERE 1617** “Risk Minimization in Life-cycle Oil Production Optimization”  
Andrea Capolei, Lasse Hjuler Christiansen, and John Bagterp Jørgensen  
**(Submitted for publication)**
- CERE 1618** “A Density Gradient Theory Based Method for Surface Tension Calculations”  
Xiaodong Liang, Michael Loch Michelsen, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 428 (2016) 153-163)**

- CERE 1619** “Release of Crude Oil from Silica and Calcium Carbonate Surfaces: On the Alternation of Surface and Molecular Forces by High- and Low-Salinity Aqueous Salt Solutions”  
Xiaoyan Liu, Wei Yan, Erling H. Stenby, and Esben Thormann  
**(Energy & Fuels, 30 (2016) 3986-3993)**
- CERE 1620** “Evaluation of CPA EoS (cubic-plus-association equation of state) for ternary, quaternary and multicomponent systems in the presence of monoethylene glycol (MEG))  
Fragkiskos Tzirakis, Eirini Karakatsani, and Georgios M. Kontogeorgis  
**(Industrial & Engineering Chemistry Research, 55 (2016) 11371-11382)**
- CERE 1621** “Unstructured Mesh Generation by Wavelets for Multiscale Methods”  
Hani Akbari, Nathan Quadrio, Allan P. Engsig-Karup  
**(Submitted for publication)**
- CERE 1622** ”Methane Production and Carbon Capture by Hydrate Swapping”  
Liang Mu, and Nicolas von Solms  
**(Energy Fuels, 31 (2017) 3338-3347)**
- CERE 1623** “Influence of Temperature and Solvent Concentration on the Kinetics of the Enzyme Carbonic Anhydrase in Carbon Capture Technology”  
Arne Gladis, Maria T. Gundersen, Philip L. Fosbøl, John M. Woodley, and Nicolas von Solms  
**(Chemical Engineering Journal, 309 (2017) 772-786)**
- CERE 1624** “Unstructured Spectral Element Model for Dispersive and Nonlinear Wave Propagation”  
Allan P. Engsig-Karup, Claes Eskilsson, Daniele Bigoni  
**(In Proceedings of The 26<sup>th</sup> International Ocean and Polar Engineering Conference (ISOPE), 26 June – 2 July, 2016, Society of Petroleum Engineers, 2016 661-668 ISOPE-I-16-455)**
- CERE 1625** “Modeling of Asphaltene Precipitation from Crude Oil with the Cubic Plus Association Equation of State”  
Alay Arya, Xiaodong Liang, Nicolas von Solms, and Georgios M. Kontogeorgis  
**(Energy and Fuels, 31 (2017) 2063-2075)**
- CERE 1626** “Predictive Screening of Ionic Liquids for Dissolving Cellulose and Experimental Verification”  
Yan-Rong Liu, Kaj Thomsen, Yi Nie, Suo-Jiang Zhang, and Anne S. Meyer  
**(Green Chemistry, 18 (2016) 6147-6398)**
- CERE 1627** “On the Dimerization of Carboxylic Acids: An Equation of State Approach”  
Ioannis Tsvintzelis, Georgios Kontogeorgis, and Costas Panayiotou  
**(Journal of Physical Chemistry Part B: Condensed Matter, Materials, Surfaces, Interfaces & Biophysical, 121 (2017) 2153-2163)**

- CERE 1628** “A Layout for the Carbon Capture with Aqueous Ammonia without Salt Precipitation”  
Davide Bonalumi, Gianluca Valenti, Stefano Lillia, Philip L. Fosbøl, and Kaj Thomsen  
**(Energy Procedia, 86 (2016) 134-143)**
- CERE 1629** “Controllability and Flexibility Analysis of CO<sub>2</sub> Post-combustion Capture using Piperazine and MEA”  
Jozsef Gaspar, Luis Ricardez-Sandoval, John Bagterp Jørgensen, and Philip L. Fosbøl  
**(International Journal of Greenhouse Gas Control, 51 (2016) 276-289)**
- CERE 1630** “Determining Optimum Aging time using Novel Core Flooding Equipment”  
Mehrdad Ahkami, Krishna Hara Chakravarty, Ioannis Xiarchos, Kaj Thomsen, Philip L. Fosbøl  
**(Proceedings of the 23<sup>rd</sup> International SPE Bergen One Day Seminar, Society of Petroleum Engineers, SPE-180054-MS (2016) 1-16)**
- CERE 1631** “Hydrate Equilibrium Data for CO<sub>2</sub>+N<sub>2</sub> System in the Presence of Tetra-n-butylammonium Fluoride (TBAF) and Mixture of TBAF and Cyclopentane (CP)  
Fragkiskos Tzirakis, Paolo Stringari, Christophe Coquelet, Nicolas von Solms, and Georgios Kontogeorgis  
**(Journal of Chemical and Engineering Data, 61 (2016) 1007-1011)**
- CERE 1632** “Irreversible Change of the Pore Structure of ZIF-8 in Carbon Dioxide Capture with Water Coexistence”  
Huang Liu, Ping Guo, Teresa Regueira Muñiz, Zhouhua Wang, Jianfen Du, and Guangjin Chen  
**(Journal of Physical Chemistry C, 120 (2016) 13287-13294)**
- CERE 1633** “Wettability of chalk and argillaceous sandstones assessed from T<sub>1</sub>/T<sub>2</sub> ratio”  
Konstantina Katika, Milad Saidian, and Ida Lykke Fabricius  
**(Paper presented at 78<sup>th</sup> EAGE Conference & Exhibition 2016, Vienna, Austria)**
- CERE 1634** “CO<sub>2</sub> Capture with Liquid-Liquid Phase Change Solvents: A Thermodynamic Study”  
Muhammad Waseem Arshad, Philip Loldrup Fosbøl, Nicolas von Solms, and Kaj Thomsen  
**(Energy Procedia, 114 (2017) 1671-1681)**
- CERE 1635** “Heat capacity and Joule-Thomson coefficient of selected n-alkanes at 0.1 and 10 MPa in broad temperature ranges”  
Teresa Regueira, Farhad Varzandeh, Erling H. Stenby, and Wei Yan  
**(J. Chem. Thermodynamics, 111 (2017) 250-264)**



- CERE 1636** “Model comparison for high-pressure adsorption in shale and its influence on phase equilibria”  
Diego Sandoval, Wei Yan, Michael L. Michelsen, and Erling H. Stenby  
**(Presented at ECMOR XV – 15<sup>th</sup> European Conference on the Mathematics of Oil Recovery, 29 August – 1 September 2016, Amsterdam, The Netherlands, Conference paper)**
- CERE 1637** “Comparative analysis of experimental methods for quantification of small amounts of oil in water”  
Katika, K., Ahkami, M., Fosbøl, P.L., Halim, A.Y., Shapiro, A., Thomsen, K., Xiarchos, I. & Fabricius, I.L.  
**(Journal of Petroleum Science and Engineering, 147 (2016) 459–467)**
- CERE 1638** “New insight into the microtexture of chalks from NMR analysis”  
O. Fay, J. Soete, K. Katika, S. Galaup, B. Caline, F. Descamps, E. Lasseur, I.L. Fabricius, J. Saïag, R. Swennen, and S. Vandycke  
**(Marine and Petroleum Geology, 75 (2016) 252-271)**
- CERE 1639** “Effective stresses and shear failure pressure from in situ Biot’s coefficient, Hejre Field, North Sea”  
J.B. Regel, I. Orozova-Bekkevold, K.A. Andreassen, N.C. Høegh van Gilse, and I.L. Fabricius  
**(Geophysical Prospecting, 65 (2017) 808-822)**
- CERE 1640** “Optimizing integrated reference cases in the OCTAVIUS project”  
H.M. Kvamsdala, S. Ehlers, A. Kather, P. Khakharia, M. Nienoord, and P.L. Fosbøl  
**(International Journal of Greenhouse Gas Control, 50 (2016)23-36)**
- CERE 1641** “Low immediate scientific yield of the PhD among medical doctors”  
E.L. Fosbøl, P.L. Fosbøl, S. Rerup, L. Østergaard, M.H. Ahmed, J. Butt, J. Davidsen, N. Shanmuganathan, S. Juul, and C. Lewinter  
**(BMC Medical Education, 16 (2016) 189-195)**

- CERE 1701** “Clay-squirt: Local flow dispersion in shale bearing sandstones”  
M.K. Sørensen, and I.L. Fabricius  
**(Geophysics, 82 (2017) MR51–MR63)**
- CERE 1702** “Determination of Zinc Sulfide Solubility to High Temperatures”  
Diana Carolina Figueroa Murcia, Philip L. Fosbøl, Kaj Thomsen, and  
Erling H. Stenby  
**(Journal of Solution Chemistry, 46 (2017) 1805-1817)**
- CERE 1703** “Recycling Ionic Liquids from Water by Freeze Crystallization”  
Yanrong Liu, Anne S. Meyer, Yi Nie, Suojiang Zhang, Yongsheng Zhao,  
Philip L. Fosbøl, and Kaj Thomsen  
**(Submitted for publication)**
- CERE 1704** “Towards the understanding of microbial metabolism in relation to  
microbial enhanced oil recovery”  
Amalia Yunity Halim, Sidsel Marie Nielsen, Kristian Fog Nielsen, and  
Anna Eliasson Lantz  
**(Journal of Petroleum Science and Engineering, 149 /2017) 151-160)**
- CERE 1705** “A least squares approach for efficient and reliable short-term versus long-  
term optimization”  
Lasse Hjuler Christiansen, Andrea Capolei, and John Bagterp Jørgensen  
**(Computational Geoscience, 21 (2017) 411-426)**
- CERE 1706** “Practical enhancement factor model based on GM for multiple parallel  
reactions: Piperazine (PZ) CO<sub>2</sub> capture”  
(J. Gaspar, and P.L. Fosbøl)  
**(Chemical Engineering Science, 158 (2017) 257-266)**
- CERE 1707** “Data requirements and modeling for gas hydrate related mixtures and a  
comparison of two association models”  
Xiaodong Liang, Georgios Aloupis, and Georgios M. Kontogeorgis  
**(Journal of Chemical and Engineering Data, 62 (2017) 2592-2605)**
- CERE 1708** “Multiple shooting applied to robust reservoir control optimization  
including output constraints on coherent risk measures”  
Andrés Codas, Kristian G. Hanssen, Bjarne Foss, Andrea Capolei, and John  
Bagterp Jørgensen  
**(Computational Geosciences, 21 (2017) 479-497)**
- CERE 1709** “A massively scalable distributed multigrid framework for nonlinear marine  
hydrodynamics”  
S.L. Glimberg, A.P. Ensigt-Karup, and Luke N. Olson  
**(International Journal of High Performance Computing Applications,  
33, (2019) 855-868)**
- CERE 1710** “General approach for solving the density gradient theory in the interfacial  
tension calculation”  
Xiaodong Liang, and Michael Loch Michelsen  
**(Fluid Phase Equilibria, 451 (2017) 79-90)**

- CERE 1711** “Prediction of Gas injection effect on asphaltene precipitation onset using the Cubic and Cubic-Plus-Association Equations of State”  
Alay Arya, Xiaodong Liang, Nicolas von Solms, and Georgios M. Kontogeorgis  
**(Energy & Fuels, 31 (2017) 3313-3328)**
- CERE 1712** “Prospects of the use of nanofluids as working fluids for organic Rankine cycle power systems”  
Maria E. Mondejar, Jesper G. Andreasen, Maria Regidor, Stefano Riva, Georgios Kontogeorgis, Giacomo Persico, and Frederik Haglind  
**(Energy Procedia, 129 (2017) 160-167)**
- CERE 1713** “Thermodynamic modeling of acid gas removal from natural gas using the Extended UNIQUAC model”  
Negar Sadegh, Erling H. Stenby, and Kaj Thomsen  
**(Fluids Phase Equilibria, 442 (2017) 38-43)**
- CERE 1714** “High pressure phase equilibrium of ternary and multicomponent alkane mixtures in the temperature range from (283 to 473) K”  
Teresa Requeira, Yiqun Liu, Ahmad A. Wibowo, Mehrshad Ashrafi, Farhad Varzandeh, Georgia Pantelide, Erling H. Stenby, and Wei Yan  
**(Fluid Phase Equilibria, 449 (2017) 186-196)**
- CERE 1715** “17<sup>th</sup> International conference on petroleum phase behavior and fouling”  
Nicolas von Solms, Wei Yan, and Simon Andersen  
**(Energy & Fuels, 31 (2017) 3329-3329)**
- CERE 1716** “Heat capacity and Joule-Thomson coefficient of selected n-alkanes at 0.1 and 10 MPa in broad temperature ranges”  
Teresa Regueira, Farhad Varzandeh, Erling H. Stenby, and Wei Yan  
**(J. Chem. Thermodynamics, 111 (2017) 250-264)**
- CERE 1717** Freezing point determination of water-ionic liquid mixtures”  
Yanrong Liu, Anne S. Meyer, Yi Nie, Suojiang Zhang, Yongsheng Zhao, Philip L. Fosbøl, and Kaj Thomsen  
**(Journal of Chemical and Engineering Data, 62 (2017) 2374-2383)**
- CERE 1718** “A three-dimensional model of two-phase flows in a porous medium accounting for motion of the separating surface”  
Alexander A. Shapiro  
**(Transport in Porous Media, 122 (2018) 1-32)**
- CERE 1719** “New association schemes for mono-ethylene glycol: Cubic-Plus-Association parameterization and uncertainty analysis”  
Francois Kruger, Georgios Kontogeorgis, and Nicolas von Solms  
**(Fluid Phase Equilibria, 458 (2018) 211-233)**

- CERE 1720** “Measurement of iron and lead sulfide solubility below 100°C”  
Diana Carolina Figueroa Murcia, Petter Lomsøy, Philip L. Fosbøl, Erling H. Stenby, and Kaj Thomsen  
**(Fluid Phase Equilibria, 475 (2018) 118-126)**
- CERE 1721** “Application of a crossover equation of state to describe phase equilibrium and critical properties of n-Alkanes and Methane/n-alkane mixtures”  
Andre P.C.M. Vinhal, Wei Yan, and Georgios M. Kontogeorgis  
**(J. Chem. Eng. Data, 63 (4) (2018) 981-993)**
- CERE 1722** “eCPA: An ion-specific approach to parametrization”  
Anders Schlaikjer, Kaj Thomsen, and Georgios Kontogeorgis  
**(Fluid Phase Equilibria (2017), <https://doi.org/10.1016/j.fluid.2017.12.008>)**
- CERE 1723** “The Debye-Hückel theory and its importance in modeling electrolyte solutions”  
Georgios M. Kontogeorgis, Bjørn Maribo-Mogensen, and Kaj Thomsen  
**(Fluid Phase Equilibria, 462 (2018) 130-152)**
- CERE 1724** “A fast and memory-efficient spectral Galerkin scheme for distributed elliptic optimal control problems”  
Lasse H. Christiansen, and John B. Jørgensen  
**(Submitted for publication)**
- CERE 1725** “An algorithm for gradient-based dynamic optimization of UV flash processes”  
Tobias K.S. Ritschel, Andrea Capolei, Jozsef Gaspar, and John Bagterp Jørgensen  
**(Computers and Chemical Engineering, 114 (2018) 281-295)**
- CERE 1726** “Density and compressibility of multicomponent n-alkane mixtures up to 463 K and 140 MPa”  
Teresa Regueira, Maria-Lito Glykioti, Erling H. Stenby, and Wei Yan  
**(J. Chem. Eng. Data 63, 4, 1072-1080)**
- CERE 1727** “Thermodynamic modeling of relevance to natural gas processing”  
Georgios M. Kontogeorgis, and Eirini Karakatsani  
**(Chapter in the book “Natural Gas Processing from Midstream to Downstream”, Edited by Namir Elbashir, Mahmoud El-Halwagi, Ioannis Economou, and Ken Hall)**
- CERE 1728** “Near-wellbore modeling of a horizontal well with Computational Fluid Dynamics”  
Márton L. Szanyi, Casper S. Hemmingsen, Wei Yan, Jens H. Walther, and Stefan L. Glimberg  
**(Journal of Petroleum Science and Engineering, 160 (2018) 119-128)**

- CERE 1729** “Antifreeze proteins and gas hydrate inhibition”  
Nicolas von Solms  
**((2020) Antifreeze Proteins and Gas Hydrate Inhibition. In: Ramløv H., Friis D. (eds) Antifreeze Proteins Volume 2. Springer, Cham.)**
- CERE 1730** “Hydrate thermal dissociation behavior and dissociation enthalpies in methane-carbon dioxide swapping process”  
Liang Mu, and Nicolas von Solms  
**(J. Chem. Thermodynamics 117 (2018) 33-42)**
- CERE 1731** “CO<sub>2</sub> mass transfer model for carbonic anhydrase-enhanced aqueous MDEA solutions”  
Arne Gladis, Maria T. Gundersen, Randi Neerup, Philip L. Fosbøl, John M. Woodley, and Nicolas von Solms  
**(Chemical Engineering Journal, 335 (2018)197-208)**
- CERE 1732** “Design and simulation of rate-based CO<sub>2</sub> capture processes using carbonic anhydrase (CA) applied to biogas”  
Philip Loldrup Fosbøl, Jozsef Gaspar, Bjartur Jacobsen, Jens Glibstrup, Arne Gladis, Kevin Milla Diaz, Kaj Thomsen, John M. Woodley, and Nicolas von Solms  
**(Energy Procedia, 114 (2017) 1434-1443)**
- CERE 1733** “Pilot absorption experiments with carbonic anhydrase enhanced MDEA”  
Arne Gladis, Niels F. Lomholdt, Philip L. Fosbøl, John M. Woodley, and Nicolas von Solms  
**(Energy Procedia, 114 (2017) 1158-1165)**
- CERE 1734** “Operating considerations of ultrafiltration in enzyme enhanced carbon capture”  
Maria T. Gundersen, Arne Gladis, Philip Loldrup Fosbøl, Nicolas von Solms, and John M. Woodley  
**(Energy Procedia, 114 (2017) 735-743)**
- CERE 1735** “Comparison of the kinetic promoters piperazine and carbonic anhydrase for CO<sub>2</sub> absorption”  
Arne Gladis, Maria T. Gundersen, Kaj Thomsen, Philip L. Fosbøl, John M. Woodley, and Nicolas von Solms  
**(Energy Procedia, 114 (2017) 719-725)**
- CERE 1736** “Rate-based modelling and validation of a pilot absorber using MDEA enhanced with carbonic anhydrase (CA)”  
Jozsef Gaspar, Arne Gladis, John M. Woodley, Kaj Thomsen, Nicolas von Solms, and Philip L. Fosbøl  
**(Energy Procedia, 114 (2017) 707-718)**
- CERE 1737** “A least squares method for ensemble-based multi-objective oil production optimization”  
Lasse Hjuler Christiansen, Steen Hørsholt, and John Bagterp Jørgensen  
**(IFAC PapersOnLine, 51 (2018) 7-12)**

- CERE 1738** “Production optimization of a rigorous thermal and compositional reservoir flow model”  
Tobias K.S. Ritschel, and John Bagterp Jørgensen  
**(Proceedings of the 3<sup>rd</sup> IFAC Workshop on Automatic Control in Offshore Oil and Gas Production , May 30 - June 1, Esbjerg, Denmark)**
- CERE 1739** “Oil production optimization of black-oil models by integration of Matlab and Eclipse E300”  
S. Hørsholt, H.M. Nick, and J.B. Jørgensen  
**(Submitted for 3<sup>rd</sup> IFAC Workshop on Automatic Control in Offshore Oil and Gas Production, May 30 – June 1, Esbjerg, Denmark)**
- CERE 1740** “Solubility modeling of the systems Ni(NO<sub>3</sub>)<sub>2</sub>-H<sub>2</sub>O and Fe(NO<sub>3</sub>)<sub>3</sub>-Ni(NO<sub>3</sub>)<sub>2</sub>H<sub>2</sub>O with the extended Universal Quasichemical (UNIQUAC) model”  
Mouad Arrad, Mohammed Kaddami, Bahija El Goundali, and Kaj Thomsen  
**(J. Solution Chem., 46 (2017) 1220-1229)**
- CERE 1741** “First study of poly(3-methylene-2-pyrrolidone) as a kinetic hydrate inhibitor”  
Eirin Abrahamsen, Ingrid Marie Heyns, Nicolas von Solms, Rueben Pfukwa, Bert Klumperman, and Malcolm A. Kelland  
**(Energy & Fuels, 31 (2017) 13572-13577)**
- CERE 1742** “Water-oil emulsions with fines in smart water enhanced oil recovery”  
Muhammad Waseem Arshad, Philip Loldrup Fosbøl, Alexander Shapiro, and Kaj Thomsen  
**(SPE-187620-MS, (2017))**
- CERE 1743** “Electrical double-layer and ion bridging forces between symmetric and asymmetric charged surfaces in the presence of mono- and divalent ions”  
Xiaoyan Liu, Karen L. Feilberg, Wei Yan, Erling H. Stenby, and Esben Thormann  
**(Langmuir, 33 (2017) 4426-4434)**
- CERE 1744** “Low field NMR surface relaxivity studies of chalk and argillaceous sandstones”  
Konstantina Katika, Henrik Fordsmand, and Ida L. Fabricius  
**(Microporous and Mesoporous Materials, 269 (2018) 122-124)**
- CERE 1745** “Low-field NMR spectrometry of chalk and argillaceous sandstones: Rock-fluid affinity assessed from T<sub>1</sub>/T<sub>2</sub> ratio”  
Konstantina Katika, Milad Saidian, Manika Prasad, and Ida L. Fabricius  
**(Petrophysics, 58(2) (2017) 126-140)**

- CERE 1746** “Complex conductivity of soils”  
A. Revil, A Coperey, Z. Zhao, N. Florsch, I. L. Fabricius, Y. Deng, J. R. Delsman, P. S. Pauw, M. Karaoulis, P. G. B. de Louw, E. S. van Baaren, W. Dabekaussen, A. Menkovic, and J. L. Gunnink  
**(Water Resources Research, 53 (2017) 7121-7147)**
- CERE 1747** “Core flooding experiments and reactive transport modelling of seasonal heat storage in the hot deep Gassum sandstone formation”  
Hanne Dahl Holmslykke, Claus Kjøller, and Ida L. Fabricius  
**(Earth and Space Chemistry, 1 (2017) 251-260)**
- CERE 1748** “Rock physics”  
Ida Lykke Fabricius  
**(Skjæveland, S. M. and Siqveland, O. K. eds: “JCR-7 Monograph North Sea Chalk”, University of Stavanger, First Web version JCR 7 October, 2017, 39-46)**
- CERE 1749** “Rock properties”  
Ida Lykke Fabricius  
**(Skjæveland, S. M. and Siqveland, O. K. eds: “JCR-7 Monograph North Sea Chalk”, University of Stavanger, First Web version JCR 7 October, 2017, 89-104)**
- CERE 1750** “Formation evaluation”  
I. L. Fabricius, and F. Engstrøm  
**(Skjæveland, S. M. and Siqveland, O. K. eds: “JCR-7 Monograph North Sea Chalk”, University of Stavanger. First Web version JCR 7 October, 2017, 175-192)**
- CERE 1751** “Characterization and erosion modeling of a Nozzle-based inflow-control device”  
Jogvan J. Olsen, Casper S. Hemmingsen, Line Bergmann, Kenny K. Nielsen, Stefan L. Glimberg, and Jens H. Walther  
**(SPE Drilling & Completion, Vol. 32, No. 4, (2017) SPE-186090-PA)**
- CERE 1752** “Modeling of Shale Gas Adsorption and Its Influence on Phase Equilibrium”  
Diego R. Sandoval, Wei Yan, Michael L. Michelsen, and Erling H. Stenby  
**(Ind. Eng. Chem. Res., (2017) DOI: 10.1021/acs.iecr.7b04144)**
- CERE 1753** “Calculation of simultaneous chemical and phase equilibrium by the method of Lagrange multipliers”  
Christos Tsanas, Erling H. Stenby, and Wei Yan  
**(Chemical Engineering Science, 174 (2017) 112–126)**
- CERE 1754** “Calculation of multiphase chemical equilibrium by the modified RAND method”  
Christos Tsanas, Erling H. Stenby, and Wei Yan  
**(Industrial & Engineering Chemistry Research, 56 (2017) 11983–11995)**

- CERE 1755** “High pressure rheological behavior of 1-ethyl-3-methylimidazolium n-hexylsulfate and trihexyl(tetradecyl)phosphonium tris(pentafluoroethyl)trifluorophosphate”  
Teresa Regueira, Luis Lugo, Maria J.P. Comuñas, and Josefa Fernández  
**J. Chem. Eng. Data, 62 (2017) 2927-2936)**
- CERE 1756** “Controls on cementation in a chalk reservoir”  
L.T.P. Meireles, A. Hussein, M.J. Welch, and I.L. Fabricius  
**(Presented at 79<sup>th</sup> EAGE Conference & Exhibition, 2017, Paris, France)**
- CERE 1757** “Permeability estimation in chalk using NMR and a modified Kozeny equation”  
Leonardo T.P. Meireles, Mohammad M. Alam, and Ida L. Fabricius  
**(Poromechanics VI: Proceedings of the Sixth Biot Conference on Poromechanics. Ed. Matthieu Vandamme, Patrick Dangla, Jean-Michel Pereira, Siavash Ghabzloo. Americal Society of Civil Engineers, 2017 p. 1208-1215)**
- CERE 1758** “Water saturation and stiffness of chalk from Halfdan and Dan fields, Danish North Sea”  
Leonardo T.P. Meireles, Michael J. Welch, and Ida L. Fabricius  
**(Abstract from 4<sup>th</sup> International Workshop on Rock Physics, Trondheim, Norway)**
- CERE 1759** “Porosity effects of electrostatic forces in saturated mineral powders”  
Leonardo T.P. Meireles, Einar M. Storebø, and Ida L. Fabricius  
**(Submitted for publication)**
- CERE 1760** “New promoted concepts for reducing energy consumption in CO2 capture amine solutions”  
A. Rezazadeh, S. Almeida, and P.L. Føsbøl  
**(Accepted for presentation at Green House Gas Technology 14 Conference, 22-25 October 2018, Melbourne, Australia)**
- CERE 1761** “A recovery curve method based workflow for reserves estimation of naturally fractured reservoirs – A case study”  
J.B. Ferrell, G.M. Mettermeir, and G.F. Heinemann  
**(SPE-188418-MS (2017))**



- CERE 1801** “On the isobaric-isothermal flash calculations”  
Xiaodong Liang  
**(Internal report)**
- CERE 1801A** “Numerical aspects of phase equilibrium calculations with the cubic and association models”  
Xiaodong Liang  
**(Ind. Eng. Chem. Res., 57 (2018) 14273-14285)**
- CERE 1802** “Elasticity and electrical resistivity of chalk and greensand during water flooding with selective ions”  
K. Katika, M.M. Alam, A. Alexeev, K.H. chakravarty, P.L. Fosbøl, A. Revil, E. Stenby, I. Xiarchos, A. Yousefi, and I.L. Fabricius  
**(Journal of Petroleum Science and Engineering, 161 (2018) 204-218)**
- CERE 1803** “Extensive study of the capabilities and limitations of the CPA and sPC-SAFT equations of state in modeling a wide range of acetic acid properties”  
Rafael T.C.S. Ribeiro, André L. Alberton, Márcio L.L. Paredes, Georgios M. Kontogeorgis, and Xiaodong Liang  
**(Ind. Eng. Chem. Res., 57 (2018) 5690-5704)**
- CERE 1804** “Recent advances with association models for practical applications”  
Ioannis Tsivintzelis, Martin Gamel Bjørner, and Georgios M. Kontogeorgis  
**(Molecular Physics, 116 (2018) 1921-1944)**
- CERE 1805** “Draft: Nonlinear wave-body interaction using a mixed-eulerian-lagrangian spectral element model”  
Carlos Monteserin Sanchez, Allan P. Ensig-Karup, and Claes Eskilsson  
**(Proceedings of the 37<sup>th</sup> International Conference on Ocean, Offshore and Arctic Engineering, OMEA 2018, June 17-22, 2018, Madrid, Spain)**
- CERE 1806** “Multiphase coupling of a reservoir simulator and computational fluid dynamics for accurate near-well flow”  
Casper Schytte Hemmingsen, Stefan Lemvig Glimberg, Nathan Quadrio, Carsten Volcker, Kenny Krogh Nielsen, Jens Honore Walther, Michael Byrne, and Allan Peter Ensig-Karup  
**(Submitted for publication)**
- CERE 1807** “Influence of adsorption and capillary pressure on phase equilibria inside shale reservoirs”  
Diego R. Sandoval, Wei Yan, Michael L. Michelsen, and Erling H. Stenby  
**(Energy & Fuels, 32 (2018) 2819-2833)**
- CERE 1808** “Extension of modified RAND to multiphase flash specifications based on state functions other than (T,P)”  
Duncan Paterson, Michael L. Michelsen, Wei Yan, Erling H. Stenby  
**(Fluid Phase Equilibria, 458 (2018) 288-299)**

- CERE 1809** “RAND-based formulations for isothermal multiphase flash”  
Duncan Paterson, Michael L. Michelsen, Erling H. Stenby, and Wei Yan  
**(SPE 182706 (2018))**
- CERE 1810** “Improvement of the PR-CPA equation of state for modelling of acid gases solubilities in aqueous alkanolamine solutions”  
Tianyuan Wang, Elise El Ahmar, Christophe Coquelet, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 471 (2018) 74-87)**
- CERE 1811** “Ternary vapor-liquid equilibrium measurements and modeling of ethylene glycol (1) + water (2) + methane (3) systems at 6 and 12.5 MPa”  
Francois J. Kruger, Marie V. Danielsen, Georgios M. Kontogeorgis, Even Solbraa, and Nicolas von Solms  
**(J. Chem. Eng. Data, 63 (2018) 1789-1796)**
- CERE 1812** “Spectral/hp element methods: Recent developments, applications, and perspectives”  
Hui Xu, Chris D. Cantwell, Carlos Monteserin, Claes Eskilsson, Allan P. Ensig-Karup, and Spencer J. Sherwin  
**(Journal of Hydrodynamics, 30 (2018) 1-22)**
- CERE 1813** “A novel equipment-friendly and environment-friendly well stimulation fluid for carbonate reservoirs: Better wormholes and lower corrosion at reservoir conditions  
J. S. Pandey, N. Nazari, K. Thomsen, and R. Barati  
**(SPE 189496-MS (2018))**
- CERE 1814** “Experimental data of the aqueous NH<sub>3</sub> and CO<sub>2</sub> absorption at temperatures from 15 C to 35 C, NH<sub>3</sub> concentrations from 5% to 15% and CO<sub>2</sub> loadings from 0.2 to 0.6 measured with the Wetted Wall Column”  
Stafano Lillia, Davide Bonalumi, Philip L. Fosbøl, Kaj Thomsen, and Gianluca Valenti  
**(Data in Brief, 17 (2018) 1240-1244)**
- CERE 1815** “Experimental study of the aqueous CO<sub>2</sub>-NH<sub>3</sub> rate of reaction for temperatures from 15° C to 35° C, NH<sub>3</sub> concentrations from 5% to 15% and CO<sub>2</sub> loadings from 0.2 to 0.6.”  
Stafano Lillia, Davide Bonalumi, Philip L. Fosbøl, Kaj Thomsen, and Gianluca Valenti  
**(International Journal of Greenhouse Gas Control, 70 (2018) 117-127)**
- CERE 1816** “Low energy recycling of ionic liquids via freeze crystallization during cellulose spinning”  
Yanrong Liu, Anne S. Meyer, Yi Nie, Suojiang Zhang, and Kaj Thomsen  
**(Green Chemistry, 20 (2018) 493-501)**

- CERE 1817** “Kinetic study of a Layout for the Carbon Capture with Aqueous Ammonia without Salt Precipitation”  
Davide Bonalumi, Stefano Lillia, Gianluca Valenti, Philip L. Fosbøl, and Kaj Thomsen  
**(Energy Procedia, 114 (2017) 1352-1359)**
- CERE 1818** “Thermodynamic analysis of chalk-brine-oil interactions”  
Ali A. Eftekhari, Kaj Thomsen, Erling H. Stenby, and Hamidreza M. Nick  
**(Energy Fuels, 31 (2017) 11773-11782)**
- CERE 1819** “Fine formation during Brine-Crude oil-calcite interaction in Smart Water Enhanced Oil Recovery for Caspian carbonates”  
Krishna Hara Chakravarty, Philip Loldrup Fosbøl, and Kaj Thomsen  
**(SPE 177379-MS (2015))**
- CERE 1820** “An Open-source Thermodynamic Software Library”  
Tobias K.S. Ritschel, Jozsef Gaspar, Andrea Capolei, and John Bagterp Jørgensen  
**(DTU Compute Technical Report-2016-12, Department of Applied Mathematics and Computer Science, Technical University of Denmark)**
- CERE 1821** “Computation of Phase Equilibrium and Phase Envelopes”  
Tobias K.S. Ritschel and John Bagterp Jørgensen  
**(DTU Compute Technical Report-2017-11, Department of Applied Mathematics and Computer Science, Technical University of Denmark)**
- CERE 1822** “Dynamic Optimization of UV Flash Processes”  
Tobias K.S. Ritschel, Andrea Capolei, and John Bagterp Jørgensen  
**(Proceedings of Foundations of Computer Aided Process Operations / Chemical Process Control, January 8-12, 2017, Tucson, Arizona)**
- CERE 1823** “A Thermodynamic Library for Simulation and Optimization of Dynamic Processes”  
Tobias K.S. Ritschel, Jozsef Gaspar, and John Bagterp Jørgensen  
**(IFAC PapersOnLine, 50 (2017) 3542-3547)**  
**(Proceedings of the 20th World Congress of the International Federation of Automatic Control, July 9-14, 2017, Toulouse, France. DOI: <https://doi.org/10.1016/j.ifacol.2017.08.951>)**
- CERE 1824** “The Adjoint Method for Gradient-based Dynamic Optimization of UV Flash Processes”  
Tobias K.S. Ritschel, Andrea Capolei, and John Bagterp Jørgensen  
**(Proceedings of the 27th European Symposium on Computer Aided Process Engineering, October 1-5, 2017, Barcelona, Spain. DOI: <https://doi.org/10.1016/B978-0-444-63965-3.50347-0>)**

- CERE 1825** “The Extended Kalman Filter for State Estimation of Dynamic UV Flash Processes”  
Tobias K.S. Ritschel and John Bagterp Jørgensen  
**(IFAC PapersOnLine, 51-8 (2018) 164-169)**  
**(Proceedings of the 3rd IFAC Workshop on Automatic Control in Offshore Oil and Gas Production, May 30 - June 1, 2018, Esbjerg, Denmark)**
- CERE 1826** “Computation of Phase Equilibrium in Reservoir Simulation and Optimization”  
Tobias K.S. Ritschel and John Bagterp Jørgensen  
**(IFAC PapersOnLine, 51-8 (2018) 94-101)**  
**(Proceedings of the 3rd IFAC Workshop on Automatic Control in Offshore Oil and Gas Production, May 30 - June 1, 2018, Esbjerg, Denmark)**
- CERE 1827** “Nonlinear Filters for State Estimation of UV Flash Processes”  
Tobias K.S. Ritschel and John Bagterp Jørgensen  
**(Proceedings of the 2nd IEEE Conference on Control Technology and Applications, August 21-24, 2018, Copenhagen, Denmark)**
- CERE 1828** “Nonlinear Model Predictive Control for Disturbance Rejection in Isoenergetic-isochoric Flash Processes”  
Tobias K.S. Ritschel and John Bagterp Jørgensen  
**(Accepted by the 12th IFAC Symposium on Dynamics and Control of Process Systems, including Biosystems, April 23-26, 2019, Florianopolis, Brazil)**
- CERE 1829** “Production Optimization of Thermodynamically Rigorous Isothermal and Compositional Models”  
Tobias K.S. Ritschel and John Bagterp Jørgensen  
**(Presented at the 16th European Conference on the Mathematics of Oil Recovery, September 3-6, 2018, Barcelona, Spain)**
- CERE 1830** “Multicomponent vapor-liquid equilibrium measurement and modeling of ethylene glycol, water and natural gas mixtures at 6 and 12.5 MPa”  
Francois J. Kruger, Georgios M. Kontogeorgis, Even Solbraa, and Nicolas von Solms  
**(J. Chem. Eng. Data, 63 (2018) 3628-3639)**
- CERE 1831** “Estimation of reserves and production potential of newly discovered naturally fractured reservoirs”  
Justin Brand Ferrell  
**(Accepted by Croatiaan Oil & Gas Journal)**
- CERE 1832** “Experimental study on methane production from hydrate-bearing sandstone by flue gas swapping”  
Liang Mu, and Nicolas von Solms  
**(Energy Fuels, 32 (2018) 8167-8174)**

- CERE 1833** “Ionic liquids as bifunctional cosolvents enhanced CO<sub>2</sub> conversion catalyzed by NADH-dependent formate dehydrogenase”  
Zhibo Zhang, Bao-hua Xu, Jianquan Luo, Nicolas von Solms, Hongyan He, Yaqin Zhang, Manuel Pinelo, and Suojing Zhang  
**(Catalysts, 8 (2018) 304-)**
- CERE 1834** Efficient ionic liquid-based platform for multi-enzymatic conversion of carbon dioxide to methanol”  
Zhibo Zhang, Jan Muschiol, Yuhong Huang, Sigyn Björk Sigurdardóttir, Nicolas von Solms, Anders E. Daugaard, Jiang Wei, Jianquan Luo, Bao-Hua Xu, Suojing Zhang, and Manuel Pinelo  
**(Green Chemistry, 20 (2018) 4339-4348)**
- CERE 1835** “Characterization of emulsion formation with nanoparticles for enhanced oil recovery”  
Muhammad Waseem Arshad, Karen Louise Feilberg, Alexander Shapiro, and Kaj Thomsen  
**(SPE-192170-MS (2018))**
- CERE 1836** “Modeling hydrofluoroolefins with the CPA and PC-SAFT Equations of State”  
Kai Kang, Xiaopo Wang, Georgios M. Kontogeorgis, and Xiaodong Liang  
**(Ind. Eng. Chem. Res., (2018) 17289-17300)**
- CERE 1837** “Developing coarse-grained model for 1-alkyl-3-methyl-imidazolium chloride ionic liquids”  
Jiahuan Tong, Yandong Guo, Feng Huo, Xiaodong Xie, Hong-Yan He, Nicolas von Solms, Xiaodong Liang, and Suojing Zhang  
**(Industrial & Engineering Chemistry Research, 57 (2018) 15206-15215)**
- CERE 1838** “Modeling the phase behavior of bitumen/n-alkane systems with the cubic plus association (CPA) equation of state”  
Yechun Zhang, Alay Arya, Georgios Kontogeorgis, and Harvey Yarranton  
**(Submitted for publication)**
- CERE 1839** “Solubility of syngas components in water acetic acid and alcohol using new standard fugacity methodology”  
Mauro Torli, Luydmila Geer, Georgios Kontogeorgis, and Philip Fosbøl  
**(Ind. Eng. Chem. Res., 57 (2018) 16958-16977)**
- CERE 1840** “Application of uncertainty analysis in the design of subsea natural gas dehydration units”  
Francois J. Kruger, Georgios M. Kontogeorgis, and Nicolas von Solms  
**(SPE-192822-MS (2018))**
- CERE 1841** “Calculation of multiphase chemical equilibrium in electrolyte with non-stoichiometric methods”  
Christos Tsanas, Erling H. Stenby, and Wei Yan  
**(Fluid Phase Equilibria, 482 (2019) 81-98)**

- CERE 1842** “Comparison of two crossover procedures for describing thermodynamic behavior from singular critical to regular classical regions”  
Asma Jamali, Andre P.C.M. Vinhal, Hassan Behnejad, Wei Yan, and Georgios M. Kontogeorgis  
**(Submitted for publication)**
- CERE 1843** Corrigendum to “Improvement of the PR-CPA equation of state for modelling of acid gases solubilities in aqueous alkanolamine solutions”  
Tianyuan Wang, Philippe Guittard, Christophe Coquelet, Elise El Ahmar, Oliver Bauduoin, and Georgios M. Kontogeorgis  
**(Submitted for publication)**
- CERE 1844** “Syngas biomethanation: State-of-the-art review and perspectives”  
Antonio Grimalt-Alemany, Ioannis V. Skiadas and Hariklia N. Gavala  
**(Biofuels, Bioprod Biorefining, 12 (2018) 139–158)**
- CERE 1845** “Enrichment of syngas-converting mixed microbial consortia for ethanol production and thermodynamics-based design of enrichment strategies”  
Antonio Grimalt-Alemany, Mateusz Łężyk, Lene Lange, Ioannis V. Skiadas and Hariklia N. Gavala  
**(Biotechnol Biofuels, 11 (2018) 1–22)**
- CERE 1846** “Interpretational challenges related to studies of the chalk particle surface in scanning and transmission electron microscope”  
I.L. Fabricius, M.L. Hjuler and V.F. Hansen.  
**(Bull. Geol. Soc. Denmark. 66 (2018) 151-165)**
- CERE 1847** “Elasticity and electrical resistivity of chalk and greensand during water flooding with selective ions”  
A. Alexeev, A. Revil, A. Yousefi, E. Stenby, I.L. Fabricius, I. Xiarchos, K.H. Chakravarty, K. Katika, M.M. Alam and P.L. Fosbøl.  
**(Journal of Petroleum Science and Engineering 161 (2018) 204-218)**
- CERE 1848** “Thermal conductivity of sandstones from Biot’s coefficient”  
A.A. Marczyński, E. Adamopoulou, H. Milsch, I.L. Fabricius, J.J. Asmussen, L. Pasquinelli and T. Orlander.  
**(Geophysics 83 (2018) D173-D185)**
- CERE 1849** “Incorporating electrostatic effects into the effective stress relation – insights from chalk experiments”  
A. Nerموen, E. Storm, I.L. Fabricius, M.V. Madland, R.I. Korsnes and T. Stodle.  
**(Geophysics 83 (2018) 123-135)**
- CERE 1850** “Temperature cycling and its effect on stress-strain relationships in high porosity chalks”  
A. Nerموen, I.L. Fabricius, R.I. Korsnes and T. Voake.  
**(Journal of Rock Mechanics and Geotechnical Engineering (2018))**

- CERE 1851** “Elasticity and Density of Paleozoic Shales from Bornholm”  
C. Haugwitz, I.L. Fabricius, N.H. Schovsbo and P.B. Larsen.  
(in *Poromechanics 2017 - Proceedings of the 6th Biot Conference on Poromechanics. American Society of Civil Engineers, July 9-13 2017, Paris, pp. 1299-1306. DOI: 10.1061/9780784480779.161*)
- CERE 1852** “Thermal Conductivity of Sedimentary Rocks as Function of Biot’s Coefficient”  
A.A. Marczyński, E. Adamopoulou, H. Milsch, I.L. Fabricius, J.J. Asmussen, L. Pasquinelli and T. Orlander.  
(in MV, PD, J-MP & SG (eds), *Poromechanics VI: Proceedings of the Sixth Biot Conference on Poromechanics. American Society of Civil Engineers July 9-13 2017, Paris, 1396-1404.*)
- CERE 1853** “How Pore Filling Shale Affects Elastic Wave Velocities in Fully and Partially Saturated Sandstone: Characterization, Measurement, and Modelling”  
I.L. Fabricius and M.K. Sørensen.  
(in MV, PD, J-MP & SG (eds), *Poromechanics VI: Proceedings of the Sixth Biot Conference on Poromechanics. American Society of Civil Engineers July 9-13 2017, Paris, 1714-1721. DOI: 10.1061/9780784480779.212.*)
- CERE 1854** “Failure characterization in geomechanical testing using Nuclear Magnetic Resonance spectroscopy”  
C. Ravnås, I.L. Fabricius, L.T.P. Meireles and M.J. Welch.  
(in Lawrence, Preene, Lawrence and Buckley (eds), *Engineering in Chalk September 17-18 2018, London. 541-547. ISBN 978-0-7277-6407-2 <https://doi.org/10.1680/eiccf.64072.541> ICE Publishing.*)
- CERE 1855** “Investigation of controlling parameters on geomechanical properties of the Southern Danish Central Graben chalk”  
E.M. Storebø, I.L. Fabricius, L.P. Meireles and M.J. Welch.  
(in Lawrence, Preene, Lawrence and Buckley (eds), *Engineering in Chalk September 17-18 2018, London. 681-686. ISBN 978-0-7277-6407-2 <https://doi.org/10.1680/eiccf.64072.541> ICE Publishing.*)
- CERE 1856** “How Pore Filling Shale Affects Elastic Wave Velocities in Fully and Partially Saturated Sandstone: Characterization, Measurement, and Modelling”  
A. Neramoen, I.L. Fabricius, R.I. Korsnes and T. Voake.  
(*IOR NORWAY 2017 – 19th European Symposium on Improved Oil Recovery 24-27 April 2017, Stavanger, Norway, Extended abstract 11p.*)
- CERE 1857** “Stiffening and strengthening by increased temperature of dry sandstones from the deep North Sea Basin”  
I.L. Fabricius, K.A. Andreassen and T. Orlander.  
(*80th EAGE Conference and Exhibition 11-14 June 2018, Copenhagen, Denmark, Extended abstract, 4p.*)

- CERE 1858** “Effective stress on deep sedimentary formations under non-isothermal conditions”  
I.L. Fabricius, K.A. Andreassen and T. Orlander.  
**(SEG 88th annual meeting, 14-19 October, 2018, Anaheim, CA, USA, Extended abstract DOI: 10.3997/2214-4609.201801607 , 3507-3511.)**
- CERE 1859** “Combined polyhydroxyalkanoates (PHA) and 1, 3-propanediol production from crude glycerol: Selective conversion of volatile fatty acids into PHA by mixed microbial consortia”  
Anna Burniol-Figols, Cristiano Varrone, Simone B. Lee, Ioannis V. Skiadas, Hariklia N. Gavala  
**(Water Research, 136 (2018), 180-191)**
- CERE 1860** “Polyhydroxyalkanoates (PHA) production from fermented crude glycerol: Study on the conversion of 1, 3-propanediol to PHA in mixed microbial consortia”  
Anna Burniol-Figols, Cristiano Varrone, Simone B. Lee, Ioannis V. Skiadas, Hariklia N. Gavala  
**(Water Research, 128 (2018), 255-266)**
- CERE 1861** “Biocarbonate Flooding of Homogeneous and Heterogeneous Cores from a Carbonaceous Petroleum reservoir”  
Samira Mohammadkhani, Alexander Shapiro, Hamidreza Shahverdi, Sidsel Marie Nielsen, and Mohsen Nasr Esfahny  
**(Submitted for publication)**
- CERE 1862** “Mechanisms of smart waterflooding in carbonate oil reservoirs – a review”  
Jiasheng Hao, Samira Mohammadkhani, Hamidreza Shahverdi, Mohsen Nasr Esfahny, and Alexander Shapiro  
**(Journal of Petroleum Science and Engineering, 179 (2019) 276-291)**
- CERE 1863** “Study of the Feasibility of the Carbon Dioxide Injection in a North Sea Petroleum Reservoir”  
Wael Al-Masri, Christos Papaspyrou, and Alexander Shapiro  
**(SPE-190783-MS (2018)) (Presented at the SPE Europec featured at 80th EAGE Conference and Exhibition, Copenhagen, Denmark, 11-14 June, 2018)**
- CERE 1864** “A Stabilised Mixed Eulerian Lagrangian Spectral Element Method for Nonlinear Wave Interaction with Fixed Structures”  
Allan Peter Ensig-Karup, Carlos Monteserin, and Claes Eskildsson  
**(Submitted for publication)**
- CERE 1865** “Spectral Element FPNF Simulation of Focused Wave Groups Impacting a Fixed FPSO”  
Allan P. Ensig-Karup, and Claes Eskilsson  
**(Proceedings of the 28th International Ocean and Polar Engineering Conference, Sapporo, Japan, 10-15 June 2018, pp. 1443-1450)**



- CERE 1866** “Numerical Simulations of Peregrine Breathers Using a Spectral Element Model”  
Dimitrios Koukounas, Claes Eskilsson, and Allan P. Ensig-Karup  
**(Proceedings of the 37<sup>th</sup> International Conference on Ocean, Offshore and Arctic Engineering, OMEA, 2018, Madrid, Spain, 17-22 June, 2018)**
- CERE 1867** “A spectral/hp element depth-integrated model for nonlinear wave-body interaction”  
Umberto Bosi, Allan P. Ensig-Karup, Claes Eskilsson, and Mario Ricchiuto  
**(Available online at [www.sciencedirect.com](http://www.sciencedirect.com). Comput. Methods Appl. Mech. Engrg. (2018) 1-15)**
- CERE 1868** “Numerical Multilevel Upscaling for Incompressible Flow in Reservoir Simulation: An Element-Based Algebraic Multigrid (AMGe) Approach”  
Max La Cour Christensen, Umberto Villa, Allan P. Ensig-Karup, and Panayot S. Vassilevski  
**(Siam J. Sci. Comput., 39 (1) (2017) B102-137)**
- CERE 1869** “Screening wells by multi-scale grids for multi-stage Markov Chain Monte Carlo simulation”  
Hani Akbari, and Allan P. Ensig-Karup  
**(Mathematics and Computers in Simulation, 151 (2018) 15-28)**
- CERE 1870** “A Multiscale Direct Solver for the Approximation of Flows in High Contrast Porous Media”  
Hani Akbari, Allan Ensig-Karup, Victor Ginting, and Felipe Pereira  
**(Journal of Computational and Applied Mathematics, 359 (2019) 88-101)**
- CERE 1871** “Efficient Physics-Based Model Order Reduction for Large Scale Reservoir Simulation”  
Hani Akbari, and Allan Peter Ensig-Karup  
**(Submitted for publication)**
- CERE 1872** “A Blind Comparative Study of Focused Wave Interactions with a Fixed FPSO-like Structure (CCP-WSI Blind Test Series 1)”  
N.E. Ransley, S. Yan, S. Brown, T. Mai, D. Graham, D. Greaves, Q. Ma, P.H. Musiedlak, A. P. Ensig-Karup, C. Eskilsson, Qian Li, J. Wang, Z. Xie, V. Sriram<sup>7</sup>, T. Stoesser, Y. Zhuang, Qi Li, D. Wan, G. Chen, H. Chen, L. Qian, Z. Ma, D. Causon, C. Mingham, I. Gatin, H. Jasak, V. Vukcevic, S. Downie, P. Higuera, E. Buldakov, D. Stagonas, Q. Cheng, J. Zang  
**(Submitted for publication)**
- CERE 1873** “Nonlinear Wave-Body Interaction Using a Mixed-Eulerian-Lagrangian Spectral Element Model”  
Carlos Monteserin Sanchez, Allan P. Ensig-Karup, and Claes Eskilsson  
**(Proceedings of the 37<sup>th</sup> International Conference on Ocean, Offshore and Arctic Engineering, OMAE 2018, Madrid, Spain, 17-22 June, 2018)**

- CERE 1874** “A High-Order Spectral Element Unified Boussinesq Model for Floating Point Absorbers”  
Umberto Bosi, Allan P. Ensig-Karup, Claes Eskilsson, Mario Ricchiuto, and Elie Solat  
**(Proceeding of the 36<sup>th</sup> International Conference for Coastal Engineering, ICCE 2018, Baltimore, Maryland, USA, 30 July - 3 August)**
- CERE 1875** “Determined Butanol Inhibition Kinetics on the Growth of Clostridium Pasteurianum Based on Continuous Operation and Pulse Substrate Additions”  
Stavros Kalafatakis, Ioannis V. Skiadas, and Hariklia N. Gavala  
**(DOI: <https://doi.org/10.1002/jctb.5919>)**
- CERE 1876** “Compositional Simulation with Capillary Pressure for Oil Production from Tight Formation”  
D.R. Sandoval, W. Yan, and E.H. Stenby  
**(Presented at the ECMOR XVI, 16<sup>th</sup> European Conference on the Mathematics of Oil Recovery, 3-6 September, 2018, Barcelona, Spain)**
- CERE 1877** “An offshore reservoir monitoring system based on fiber optic sensing of seabed strains”  
E. Levenberg, I. Orozova-Bekkevold, K. Nielsen  
**(DHRTC Report “Radical Innovation-Results of the Radical Innovation Sprint 2017”, p. 13-23. Published on the DHRTC website August 9<sup>th</sup>, 2018)**

- CERE 1901** “Accounting for cross association in non-self-associating species using a physically consistent SAFT-VR Mie approach”  
Jamie T. Cripwell, Francois J. Kruger, and Andries J. Burger  
**(Fluid Phase Equilibria, 482 (2019) 1-13)**
- CERE 1902** “Dynamic Optimization of Thermodynamically Rigorous Models of Multiphase Flow in Porous Subsurface Oil Reservoirs”  
Tobias K.S. Ritschel, and John Bagterp Jørgensen  
**(Journal of Process Control, 78 (2019) 45-56)**
- CERE 1903** “Enrichment of mesophilic and thermophilic mixed microbial consortia for syngas biomethanation: the role of kinetic and thermodynamic competition”  
Antonio Grimalt-Alemany, Mateusz Łężyk, David M. Kennes-Veiga, Ioannis V. Skiadas and Hariklia N. Gavala  
**(Waste and Biomass Valorization, doi.org/10.1007/s12649-019-00595-z)**
- CERE 1904** “Modeling Tetra-*n*-butyl Ammonium Halides Aqueous Solutions with the Electrolyte CPA Equation of State”  
Li Sun, Xiaodong Liang, Nicolas von Solms, Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 486 (2019) 37-47)**
- CERE 1905A** “P $\rho$ T Measurement and Modeling of *n*-decane+*m*-xylene Mixtures from 293.15 K to 363.15 K at Pressures up to 60 MPa”  
Kai Kang, Xiaodong Liang, Georgios M. Kontogeorgis, and Xiaopo Wang  
**(The Journal of Chemical Thermodynamics, 135 (2019) 107-115)**
- CERE 1905B** “Support information to” “P $\rho$ T Measurement and Modeling of *n*-decane+*m*-xylene Mixtures from 293.15 K to 363.15 K at Pressures up to 60 MPa”  
Kai Kang, Xiaodong Liang, Georgios M. Kontogeorgis, and Xiaopo Wang  
**(Submitted for publication)**
- CERE 1906** “Gas adsorption and Interfacial Tension with Classical Density Functional Theory”  
Edgar L. Camacho Vergara, Georgios M. Kontogeorgis, and Xiaodong Liang  
**(Industrial Chemical Research, 58 (2019) 5650-5664)**
- CERE 1907** “Modelling of Wave-structure Interaction for Cylindrical Structures using a Spectral Element Multigrid Method”  
Wojciech Laskowski, Harry B. Bingham, and Allan P. Ensig-Karup  
**(Presented at the 34<sup>th</sup> IWWFEB, Australia, 2019)**
- CERE 1908** “Application of response surface methodology for the optimization of aqueous ammonia soaking of wheat straw at ambient temperature for enhancing the methane yield”  
A. Lymperatou, H.N. Gavala, and I.V. Skiadas  
**(Submitted for publication)**

- CERE 1909** “Biomethanation of Syngas by Enriched Mixed Anaerobic Consortia in Trickle Bed Reactors, Waste and Biomass Valorization”  
K. Asimakopoulos, H.N. Gavala, and I.V. Skiadas  
**(Waste and Biomass Valorization, 11 (2020) 495-512)**
- CERE 1910** “Pilot Scale Absorption Experiments with Carbonic Anhydrase-enhanced MDEA-Benchmarking with 30 wt% MEA”  
Arne Gladis, Niels F. Lomholdt, Philip L. Fosbøl, John M. Woodley, and Nicolas von Solms  
**(International Journal of Greenhouse Gas Control, 82 (2019) 69-85)**
- CERE 1911** “Efficient transformation of CO<sub>2</sub> to cyclic carbonates using bifunctional protic ionic liquids under mild conditions”  
Xianglei Meng, Zhaoyang Ju, Suojiang Zhang, Xiaodong Liang, Nicolas von Solms, Xiaochun Zhang, and Xiangping Zhang  
**(Green Chem. 21 (2019) 3456-3463)**
- CERE 1912** “Challenges in the development of a database of thermophysical properties of nanofluids”  
M.E. Mondejar, M. Regidor, G. Kontogeorgis, and F. Haglind  
**(Presented at 1<sup>st</sup> International Conference on Nanofluids (ICNf2019), 2<sup>nd</sup> European Symposium on Nanofluids (ENSNf2019), 26-28 June, 2019, Castelló, Spain)**
- CERE 1913** “Equations of State in Three Centuries. Are we closer to arriving to a single model for all applications?”  
Georgios M. Kontogeorgis, Xiaodong Liang, Alay Arya, and Ioannis Tsivintzelis  
**(Submitted for publication)**
- CERE 1914** “Investigation of the growth kinetics of tetra-n-butylammonium bromide hydrate formation in small spaces”  
Meng Shi, Xuemei Lang, Yanhong Wang, Nicolas von Solms, and Shuanshi Fan  
**(American Chemical Society, 33 (2019) 3473-3482)**
- CERE 1915** “A computational tool for parameter estimation in EoS: New methodologies and natural gas phase equilibria calculations”  
Samir S. Abunahman, Leticia C. dos Santos, Frederico W. Tavares, and Georgios M. Kontogeorgis  
**(Chemical Engineering Science, 215 (2020) 115437-)**
- CERE 1916** “Modeling systems relevant to the biodiesel production using the CPA equation of state. Part 2. Systems with supercritical CO<sub>2</sub>”  
Ioannis Tsivintzelis, Shahid Ali, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 504 (2020) 112337-)**

- CERE 1917** “Multi-criteria optimization of process and refrigerant mixture for a small-scale natural gas liquefaction: enhancing energy efficiency, environmental benignness, and safety”  
Saeed Eini, Georgios M. Kontogeorgis, Davood Rashtchian, and Mahdi Sharifzadeh  
**(Submitted for publication)**
- CERE 1918** “Bicarbonate flooding of homogeneous and heterogeneous cores from a carbonaceous petroleum reservoir”  
Samira Mohammadkhani, Hamidreza Shahverdi, Sidsel Marie Nielsen, Mohsen Nasr Esfahany, and Alexander Shapiro  
**(Journal of Petroleum Science and Engineering, 178 (2019) 251-261)**
- CERE 1919** “Taking another look at the van der Waals equation of state – Almost 150 years later”  
Georgios M. Kontogeorgis, Romain Privat, and Jean-Noël Jaubert  
**(Journal of Chemical and Engineering Data, 64 (2019) 4619-4637)**
- CERE 1920** “Solid solubility in the aqueous 2-amino-2-methyl-propanol (AMP) plus piperazine (PZ) system”  
Randi Neerup, Kenny Ståhl, and Philip L. Fosbøl  
**(Journal of Chemical and Engineering Data, 64 (2019) 2423-2428)**
- CERE 1921** “High-pressure densities of *n*-decane+*o*-xylene mixtures: Measurement and modelling”  
Kai Kang, Shanshan Zhu, Xiaodong Liang, Georgios M. Kontogeorgis, and Xiaopo Wang  
**(Fluid Phase Equilibria, 498 (2019) 1-8)**
- CERE 1922** “Insights into the solvation and dynamic behaviors of a lithium salt in organic- and ionic liquid-based electrolytes”  
Jiahuan Tong, Xingqing Xiao, Xiaodong Liang, Nicolas von Solms, Feng Huo, Hongyan He, and Suojiang Zhang  
**(Physical Chemistry Chemical Physics, 21 (2019) 19216-19225)**
- CERE 1923** “Thermodynamic and kinetic properties of NH<sub>3</sub>-K<sub>2</sub>CO<sub>3</sub>-CO<sub>2</sub>-H<sub>2</sub>O system for carbon capture applications”  
Stefano Lillia, Davide Bonalumi, Philip L. Fosbøl, Kaj Thomsen, Indira Jayaweera, and Gianluca Valenti  
**(International Journal of Greenhouse Gas Control, 85 (2019) 121-131)**
- CERE 1924** “Experimental studies on hydrogen hydrate with tetrahydrofuran by differential scanning calorimeter and in-situ Raman”  
Jing Cai, Yuan-Qing Tao, Nicolas von Solms, Chun-Gang Xu, Zhao-Yang Chen, Xiao-Sen Li  
**(Applied Energy, 243 (2019) 1-9)**

- CERE 1925** “Modelling the critical and phase equilibrium properties of pure fluids and mixtures with the crossover Cubic-Plus-Association Equation of State” Andre P.C.M. Vinhal, Wei Yan, and Georgios M. Kontogeorgis  
**(Journal of Chemical and Engineering Data, (2019 DOI:10.1021/acs.jced.9b00492)**
- CERE 1926** “High-pressure experimental vapour-liquid-liquid equilibrium measurements and modelling for natural gas processing: Equipment validation, and the system  $\text{CH}_4+n\text{C}_6\text{H}_{14}+\text{H}_2\text{O}$ ” Francois Kruger, Athanasios A. Varsos, Georgios M. Kontogeorgis, and Nicolas von Solms  
**(Fluid Phase Equilibria, 501 (2019) 112276)**
- CERE 1927** “Hydrate stability and methane recovery from gas hydrate through  $\text{CH}_4\text{-CO}_2$  replacement in different mass transfer scenarios” Jyoti Shanker Pandey and Nicolas von Solms  
**(Energies, 12 (2019) 2309 -)**
- CERE 1928** “Experimental study of the phase behavior of hydrocarbon fluids in porous media at atmospheric and elevated pressures” Teresa Regueira, Diego R. Sandoval, Erling H. Stenby, and Wei Yan  
**(Presented at Unconventional Resources Technology Conference (URTeC), Denver, Colorado, USA, 22-24 July 2019, DOI: 10.15530/urtec-2019-534)**
- CERE 1929** “Modeling of gas solubility using the electrolyte Cubic-Plus-Association Equation of State” Li Sun, Georgios M. Kontogeorgis, Nicolas von Solms, and Xiaodong Liang  
**(Industrial and Engineering Chemistry Research, 58 (2019) 17555-17567)**
- CERE 1930** “Inhibition of methane hydrate nucleation and growth by an antifreeze protein” Liang Mu, Hans Ramløv, T. Max M. Sogaard, Thomas Jørgensen, Willem A. de Jongh, and Nicolas von Solms  
**(Journal of Petroleum Science and Engineering, 183 (2019) 106388)**
- CERE 1931** “A model-based solvent selection and design framework for organic coating formulations” Spardha Jhamb, Xiaodong Liang, Kim Dam-Johansen, and Georgios Kontogeorgis  
**(Progress in Organic Coatings, 140 (2020) 105471-)**
- CERE 1932** “Insights into kinetics of methane hydrate formation in the presence of surfactants” Jyoti Shanker Pandey, Yousef Jouljamal Daas, and Nicolas von Solms  
**(Processes, 7 (2019) 598; doi:10.3390/pr7090598)**

- CERE 1933** “Effect of compaction on oil recovery under low salinity flooding in homogeneous and heterogeneous chalk”  
Jiasheng Hao, and Alexander Shapiro  
**(SPE-195831-MS, 2019)**
- CERE 1934** “Density, compressibility and phase equilibrium of high pressure-high temperature reservoir fluids up to 473 K and 140 MPa”  
Teresa Regueira, Maria-Lito Glykioti, Nomiki Kottaki, Erling H. Stenby, and Wei Yan  
**(J. of Supercritical Fluids, 159 (2020) 104781-)**
- CERE 1935** “Phase Equilibrium in shale including porous media effects”  
Diego Rolando Sandoval Lemus, Wei Yan, and Erling H. Stenby  
**(Presented at Abu Dhabi International Petroleum Exhibition & Conference 2019, 11-14 November, 2019, United Arab Emirates)**
- CERE 1936** “Results of the fourth Technology Centre Mongstad campaign: LVC testing”  
Philip Loldrup Fosbøl, Randi Neerup, Susana Almeida, Amirali Rezazadeh, Jozsef Gaspar, Anette Beate Nesse Knarvik, and Nina Enaasen Flø  
**(International Journal of Greenhouse Gas Control, 89 (2019) 52-64)**
- CERE 1937** “Process variables data from the lean vapour compressor campaign at Technology Centre Mongstad”  
Philip Loldrup Fosbøl, Randi Neerup, Susana Almeida, Amirali Rezazadeh, Jozsef Gaspar, Anette Knarvik, and Nina Flø  
**(Data in Brief, 26 (2019) 104483-)**
- CERE 1938** “A group contribution-based prediction method for the electrical conductivity of ionic liquids”  
Yuqin Chen, Yingjun Cai, Kaj Thomsen, Georgios M. Kontogeorgis, John M. Woodley  
**(Fluid Phase Equilibria, 509 (2020) 112462-)**
- CERE 1939** “Cost optimization and flexibility analysis for the liquefaction of an associated natural gas stream”  
Saeed Eini, Georgios M. Kontogeorgis, and Davood Rashtchian  
**(Journal of Energy Resources Technology, 142 (2020) 062801-1-)**
- CERE 1940** “Supplementary Material – Cost optimization and flexibility analysis for the liquefaction of an associated natural gas stream”  
Saeed Eini, Georgios M. Kontogeorgis, and Davood Rashtchian  
**(Journal of Energy Resources Technology, 142 (2020) 062801-1-)**
- CERE 1941** “A review of computer-aided design of paints and coatings”  
Spardha Jhamb, Markus Enekvist, Xiaodong Liang, Xiangping Zhang, Kim Dam-Johansen, and Georgios Kontogeorgis  
**(Current Opinion in Chemical Engineering 2020, 27:107–120)**

- CERE 1942** “Modeling vapor-liquid-liquid-solid equilibrium for acetone-water-salt systems”  
Kaj Thomsen, Martin Olsen, Lucas Corrêa  
**(Pure Appl. Chem. 2020; aop**  
**<https://doi.org/101515/pac - 2019-1013>)**
- CERE 1943** “Development of nanoparticles as injection media in enhanced oil recovery”  
Muhammad Waseem Arshad, Karen Louise Feilberg, Alexander Shapiro,  
and Kaj Thomsen  
**(SPE-198548-MS, 2019)**
- CERE 1944** “Methane hydrate formation behavior in the presence of selected amino acids”  
Jyoti Shanker Pandey, Yousef Jouljamal Daas, and Nicolas von Solms  
**(Presented at the 8<sup>th</sup> International Conference on Chemical Science and Engineering (ICCSE 2019), Taipei, Taiwan, 18-20 November, 2019)**
- CERE 1945** “Comparison of two types of crossover Soave-Redlich-Kwong equations of state for derivative properties of n-alkanes”  
Andre P.C.M. Vinhal, Asma Jamali, Hassan Behnejad, Wei Yan, and Georgios M. Kontogeorgis  
**(Industrial and Engineering Chemistry Research, 59 (2020) 9265-9278)**
- CERE 1946** “A new study of associating inhomogeneous fluids with classical density functional theory”  
Edgar L. Camacho Vergara, Georgios M. Kontogeorgis, and Xiaodong Liang  
**(Molecular Physics, 118 (2020) DOI: 10.1080/00268976.2020.1725668)**
- CERE 1947** “A multi-layered view of chemical and biochemical engineering”  
Rafiqul Gani, Jerzy Baldyga, Béatrice Biscans, Elisabetta brunazzi, Jean-Claude Charpentier, Enrico Drioli, Hermann Feise, Andrew Furlong, Kevin M. Van Geem, Jean-Charles de Hemptinne, Antoon J.B. ten Kate, Georgios M. Kontogeorgis, Flavio Manenti, Guy B. Marin, Seyed Soheil Mansouri, Patrick M. Piccione, Ana Povoá, Manuel Andres Rodrigo, Bent Sarup, Eva Sorensen, Isuru A. Udugama, and John M. Woodley  
**(Chemical Engineering Research and Design, 155 (2020) 133-145)**
- CERE 1948** “Effect of compaction on oil recovery under low salinity flooding in homogeneous and heterogeneous chalk”  
Jiasheng Hao, and Alexander Shapiro  
**(SPE-195831-MS)**



- CERE 2001** “Insights into CO<sub>2</sub> capture by flue gas hydrate formation using selected amino acids”  
Jyoti Shanker Pandey, Yousef Jouljamaal Daas, and Nicolas von Solms  
**(SPE-200180-MS, prepared for presentation at The SPE Conference at Oman Petroleum & Energy Show, 9-11 March 2020)**
- CERE 2002** “Studies on temperature characteristics and initial formation interface during cyclopentane-methane hydrate formation in large-scale equipment with bubbling”  
Jing Cai, Tao Lv, Yu Zhang, Nicolas von Solms, Chun-Gang Xu, Zhao-Yang Chen, and Xiao-Sen Li  
**(Applied Energy, 258 (2020) 114076)**
- CERE 2003** “Process analysis of shea butter solvent fractionation using a generic systematic approach”  
Olivia Perederic, Seyed Mansouri, Sten Appel, Bent Sarup, Rafiqul Gani, John Woodley, and Georgios Kontogeorgis  
**(Industrial and Engineering Chemistry Research, 59 (2020) 9265-9278)**
- CERE 2004** “Screening of amino acids and surfactant as hydrate promoter for CO<sub>2</sub> capture from flue gas”  
Jyoti Shanker Pandey, Yousef Jouljamaal Daas, and Nicolas von Solms  
**(Processes, 8 (2020) 124-)**
- CERE 2005** “Inhibition of natural gas hydrate in the system containing salts and crude oil”  
Liang Mu, and Nicolas von Solms  
**(Journal of Petroleum Science and Engineering, 188 (2020) 106940-)**
- CERE 2006** “The effect of concentration of lithium salt on the structural and transport properties of ionic liquid-based electrolytes”  
Jiahuan Tong, Shengli Wu, Nicolas von Solms, Xiaodong Liang, Feng Huo, Qing Zhou, Hongyan He, and Suojiang Zhang  
**(Frontiers in Chemistry, 7 (2020) 1-)**
- CERE 2007** “Waste streams property characterization in biorefinery systems engineering using an ontology approach”  
Olivia A. Perederic, Franjo Cecelja, John M. Woodley, Georgios M. Kontogeorgis, and Antonis Kokossis  
**(Proceedings of the 3rd International Conference on Functional Materials and Chemical Engineering 15-17 December, 2019, Bangkok, Thailand. Mansouri, S. S., Mujtaba, I. M. & Gani, R. (eds.). The International Academy of Science and Engineering for Development, 6 p.)**
- CERE 2008** “The impacts of using a concentration dependent static permittivity in the Debye-Hückel theory”  
Qun Lei, Baoliang Peng, Li Sun, Jianhui Luo, Yuan Chen, Georgios M. Kontogeorgis, and Xiaodong Liang  
**(Submitted for publication)**

- CERE 2009** “Thermodynamic theory of diffusion and thermodiffusion coefficients in multicomponent mixtures”  
Alexander A. Shapiro  
**(Submitted for publication)**
- CERE 2010** “Coalescence of oil droplets in microchannels under brine flow”  
Tian Wang, Simon Ivar Andersen, and Alexander Shapiro  
**(Colloids and Surfaces A, 598 (2020) 124864-)**
- CERE 2011** “Kinetics of calcite dissolution and Ca-Mg ion exchange on the surfaces of North Sea chalk powders”  
Jiasheng Hao, Karen L. Feilberg, and Alexander Shapiro  
**(Submitted for publication)**
- CERE 2012** “Effect of flow diversion on oil recovery under smart waterflooding in homogenous and heterogeneous chalk and sandstone”  
Jiasheng Hao, Petro Nakutnyy, and Alexander Shapiro  
**(Submitted for publication)**
- CERE 2013** “Density, viscosity, and conductivity of [VAIM][TFSI] in mixtures for lithium-ion battery electrolytes”  
Yingjun Cai, Nicolas von Solms, Suojiang Zhang, and Kaj Thomsen  
**(Journal of Chemical & Engineering Data, 65 (2020) 495-502)**
- CERE 2014** “A model for relative permeabilities under gas liberation or condensate precipitation in porous media”  
Wael Al-Masri, and Alexander Shapiro  
**(Submitted for publication)**
- CERE 2015** “A deeper analysis of some electrolyte models: Effect of activity coefficients of individual ions and analysis of terms”  
Li Sun, Xiaodong Liang, Nicolas von Solms, and Georgios M. Kontogeorgis  
**(Submitted for publication)**
- CERE 2016** “Good reporting practice for thermo-physical and thermochemical property measurements (IUPAC Technical Report)”  
Ala Bazyleva, Jens Abildskov, Andrzej Anderko, Olivier Baudouin, Yury Chernyak, Jean-Charles de Hemptinne, Vladimir Diky, Ralf Dohrn, J. Richard Elliott, Johan Jacquemin, Jean-Noel Jaubert, Kevin G. Joback, Ursula R. Kattner, Georgios Kontogeorgis, Herbert Loria, Paul M. Mathias, John P. O’Connell, Wolfram Schröer, G. Jeffrey Smith, Ana Soto, Shu Wang, and Ronald D. Weir  
**(Submitted for publication)**
- CERE 2017** “Matching the critical point of associating fluids with the Cubic Plus Association equation of state”  
Xiaodong Liang, Baoling Peng, Yuan Chen, Jianhui Luo, Michael Locht Michelsen, and Georgios Kontogeorgis  
**(Submitted for publication)**

- CERE 2018** “Vibrational spectra and conformations for chiral opioids in changing solvents”  
Michael Bache, Karin Stibius, Rolf W. Berg, Nikolaj S. Blom, and Henrik Georg Bohr  
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Markus Enekvist, Xiaodong Liang, Xiangping Zhang, Kim Dam-Johansen, and Georgios M. Kontogeorgis  
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Tian Wang, Simon Ivar Andersen, and Alexander Shapiro  
**(Colloids and Surfaces A, 598 (2020) 124864)**
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**(Submitted for publication)**

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**(Energy Fuels, 34 (2020) 7329-7339)**
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Karen Stibius, Michael Bache, Rolf W. Berg, Nikolaj Blom, and Henrik G. Bohr  
**(Submitted for publication)**
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**(Chemical Engineering Journal, 396 (2020) 125266-)**

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**(Proceedings of the 30th European Symposium on Computer Aided Process Engineering, Computer Aided Chemical Engineering, 48, 607-612)**
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**(Submitted for publication)**
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**(Energies 2020, 13, 5238; doi:10.3390/en13205238)**
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(**Energies 2020, 13, 5661; doi:10.3390/en13215661**  
[www.mdpi.com/journal/energies](http://www.mdpi.com/journal/energies))
- CERE 2045** “On proton charge radius definition”  
Ole L. Trinhammer and Henrik G. Bohr  
(**EPL, 128 (2019) 21001**)
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Michael Bache, Karin Stibius, Rolf W. Berg, Nikolaj S. Blom, and Henrik G. Bohr  
(**Submitted for publication**)
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(**Accepted by Journal of Chemical & Engineering Data**)
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(**Submitted for publication**)