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SEP 8710  “A New Method for Estimation of Cubic Equation of State Parameters for C7+ 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  
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| SEP 8713 | “Surface Tension of Petroleum Mixtures”  
               Karen Schou Pedersen, Torgeir Lund and Aage Fredenslund  
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| SEP 8714 | “Phase Equilibria in Aqueous Polymer Solutions”  
               D. Rasmussen and P. Rasmussen  
| 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  
| SEP 8717 | “Prediction of Relative Permeability Curves by a Model Based on Percolation Invasion”  
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SEP 8801  "PVT-Calculations on Oils and Gas Condensates"
Aage Fredenslund
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SEP 8802  "Calculation of Multiphase Equilibrium"
Michael Michelsen

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SEP 8804  "Characterization of Gas Condensate Mixtures"
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Marcelo Castier, Peter Rasmussen and Aage Fredenslund
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SEP 8806  "Phase Equilibria in Aqueous Polymer solutions" Second Version
Dorte Rasmussen and Peter Rasmussen

SEP 8807  "On the Possibility of Predicting Phase Equilibria from Molecular Structure"
Aage Fredenslund and Peter Rasmussen

SEP 8808  "Detection of High-Pressure Dew and Bubble Points Using a Microwave Technique"
Folmer Fogh and Peter Rasmussen

Jürgen Schmelzer
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SEP 8810  "Prediction of Gas Solubility and Vapor-Liquid Equilibria by Group-Contribution"
Rafiqul Gani, N. Tzouvaras, Peter Rasmussen and Aage Fredenslund
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SEP 8811  "A Knowledge based System for the Selection of Thermodynamic Models"
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SEP 8812  "Simultaneous Steady State and Dynamic Simulation of Chemical Processes"
Rafiqul Gani and Ganka Toneva
SEP 8813  "Extension of Dynamic Models of Distillation Columns to Steady State Simulation"
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SEP 8814  "Vapor-Liquid Equilibrium for the Binary Systems: Water-Ethylene Glycol, Water-Ethylene Glycol Methyl Ether and Water-Ethylene Glycol Monoethyl Ether"
Patricio Proust
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SEP 8815  "Prediction of Viscosities of Liquid Mixtures by the UNIFAC Method"
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SEP 8816  "An Apparatus for Studies of Near-Critical Hydrocarbon Fluids"
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Mikael Dan Frørup
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SEP 8818  "Immiscible Displacement in a Porous Medium Simulated by a Statistical Model"
Dengen Zhou and Erling H. Stenby

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Eugénia A. Macedo, Per Skovborg and Peter Rasmussen

"A New Three-Parameter Cubic Equation of State and Its Application to Reservoir Fluids"
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"Development of a Databank for Polymer and Polymer-Containing System"
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Peter Naylor and Mikael Frørup
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SEP 9001  "Prediction of Thermodynamic Properties of Oil and Gas Condensate Mixtures"
Kim Aasberg-Petersen and Erling Stenby
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SEP 9002  "Computer Aided Molecular Design by Group Contribution Method"
Bjarne Nielsen, Rafiqul Gani and Aage Fredenslund

SEP 9003  "A Computer Program Package for Phase Equilibria"
Jens M. Sørensen, Rafiqul Gani and Aage Fredenslund

SEP 9004  "A Dynamic Simulator for Design and Analysis of Chemical Processes"
Esben Lauge Sørensen, Henrik Johansen, Rafiqul Gani and Aage Fredenslund

Supplement to 9004  "Process Flowsheeting using Complex Thermodynamic Models and a Structured Process Simulation strategy"
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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
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SEP 9009  "Calculation of Hydrate Fugacities"
Michael L. Michelsen

SEP 9010  "UNIFAC Prediction of Vapor-Liquid Equilibria in Mixed Solvent/Salt Systems"
Ireneo Kikic, Maurizio Fermeglia and Peter Rasmussen
"A 3-D Network Model Simulating Two Phase Immiscible Displacements in Porous Media"
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"Simulation Strategies for Design and Analysis of Complex Chemical Processes"
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"Group Contribution Estimation Methods"
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"The MHV2 Model: Application of a New UNIFAC Parameter Table for Prediction of Vapor-Liquid Equilibria at High Pressure and Gas Solubilities"
Jürgen Schmelzer
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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

SEP 9202  "Phase Equilibrium Calculation in Compositional Reservoir Simulation"
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Marco Savoia, Ole Persson and Aage Fredenslund
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SEP 9224 "Vapor-Liquid Equilibria in Nonpolar/Weakly Polar Systems with Different Types of Mixing Rules"
Nikos Voros and D.P. Tassios
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SEP 9225 "Modelling the Influence of Pressure on the Phase Behavior of Systems Containing Water, Oil, and Nonionic Surfactants"
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Ana Saraiva, Ole Persson and Aage Fredenslund
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Peng Wang, Erling H. Stenby, Gary A. Pope and Kamy Sepehrnoori
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SEP 9304  "Prediction of Phase Diagrams for CO₂/Hydrocarbon - Mixtures"
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René Petersen, Aage Fredenslund and Peter Rasmussen
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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
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(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
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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
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Georgios M. Kontogeorgis, Vassilis I. Harismiadis, Aage Fredenslund and Dimitrios P. Tassios
(Fluid Phase Equilibria, 96 (1994) 65-92)

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Georgios M. Kontogeorgis, Aage Fredenslund, Ioannis G. Economou, and Dimitrios P. Tassios
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SEP 9316 "Non-iterative Phase Equilibrium Calculation in Compositional Reservoir Simulation"
Erling H. Stenby and Peng Wang
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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
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SEP 9318 "Free-Volume Activity Coefficient Models for Phase Equilibrium Calculations in Polymer Solutions"
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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 Phenylsulfonlated 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

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Linda Sendrup, Niels Stentoft, Kaare L. Rasmussen, Uffe Rahbek and Erling Stenby
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R. Vukovic, G. Bogdanic, V. Kuresevic, V. Scrica, F.E. Karasz, W.J. MacKnight and Aa. Fredenslund
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R. Vukovic, G. Bogdanic, V. Kuresevic, F.E. Karasz, W.J. MacKnight and Aa. Fredenslund
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G. Bogdanic, L. Jakab and Aa. Fredenslund
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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)

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SEP 9330 "UNIQUAC-parameters determined by Molecular Mechanics"
Svava Ósk Jónsdóttir, Kjeld Rasmussen and Aage Fredenslund
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S.V. Nikolova, N.D. Kozarev and Rafiqul Gani
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Vassilis I. Harismiadis, Georgios M. Kontogeorgis, Ana Saraiva, Aage Fredenslund and Dimitrios P. Tassios
(Fluid Phase Equilibria, 100 (1994) 63-102)

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Grozdana Bogdanic and Aage Fredenslund
(I&EC Research, 34 (1995) 324-331)

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Bjarne S. Bossen, Lars J. Christiansen*, Jørgen E. Jarvan* and Rafiqul Gani
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B. Rumpf, H. Nicolaisen and G. Maurer  
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Georgios M. Kontogeorgis, Philipposoutsikos, Vassilis I. Harismiadis, Aage Fredenslund and Dimitrios P. Tassios
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*(In “Innovations in Supercritical Fluids”, Editors: K.W. Hutchenson and N.R. Foster, ACS Symposium Series 608, Ch. 9 (1995) 140-153)* |
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You-Xiang Zuo and Erling H. Stenby
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(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 Osk 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

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E.H. Stenby, J.R. Christensen, K. Knudsen and C. Leibovici  
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SEP 9626  “Effect of Wettability on the Electrical Properties of Reservoir Rocks”  
Dengen Zhou, Sephr 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  
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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  
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SEP 9629  “A Simplified Confined-Chain Model for AB Diblock Copolymers”  
Eduardo Pretel, Angélique Rasmussen, Peter Rasmussen and John Holten-Andersen  
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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

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
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SEP 9633  “Modelling and Simulation of Reactive Distillation Operations”
P.A. Pilavachi, M. Schenk, E. Perez-Cisneros and R. Gani
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SEP 9634  “An Integrated Computer Aided System for Integrated Design of Chemical Processes”
Rafiqul Gani, Glen Hytoft, Cecilia Jaksland and Anne K. Jensen
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SEP 9635  “An Efficient Initialisation Procedure for Large Distillation Simulation Problems”
Pierre Rabeau, Rafiqul Gani and Claude Leibovici
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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”
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SEP 9702  “Experimental Determination of Refractive Index of Gas Hydrates”
Martin Bylov and Peter Rasmussen
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SEP 9703  “An Efficient Initialization Procedure for Simulation and Optimization of
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SEP 9704  “An Integrated Computer-Aided Approach for Environmental Studies”
Rafiqul Gani, Fei Chen, Cecilia Jaksland, Peter Harper and Martin Hostrup
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SEP 9705  “Vapor-liquid equilibria of polymer solutions determined by molecular
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SEP 9707  “Investigation of Asphaltene Precipitation at Elevated Temperature”
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SEP 9708  “Asphaltene Precipitates in Oil Production Wells”
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SEP 9710  “Measurement of Phase Behavior of Hydrocarbon Mixtures Using Fiber
Optical Detection Techniques”
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SEP 9711  “A Thermodynamic Mixed-Solid Asphaltene Precipitation Model”
Niels Lindeloff, Robert A. Heidemann, Simon I. Andersen and Erling H. Stenby
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"Phase equilibria of microemulsion forming system n-decyl-β-D-glucopyranoside/ water/ n-octane/ 1-butanol”
Heike Kahl, Konrad Quitzsch and Erling H. Stenby
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"Modeling, simulation and optimization of membrane-based gas separation systems”
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SEP 9723 
“Analysis of Seed Oil from Ricinus communis and Dimorphotheca pluvialis by Gas and Supercritical Fluid Chromatography” 
Christina Borch-Jensen, Benny Jensen, Kim Mathiasen and Jørgen Mollerup 
(JAOCS, 74(3) (1997) 277-284)
SEP 9801  “Review of WAG Field Experience”
J.R. Christensen, E.H. Stenby and A. Skauge
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SEP 9803  “Calculation of Minimum Miscibility Pressure (MMP) with a Combined Mechanism. Final Report.”
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M.L. Michelsen
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SEP 9807  “Phase equilibria of carbohydrates in polar solvents”
Svava Osk Jónsdóttir and Peter Rasmussen
(Fluid Phase Equilibria, 158-160 (1999) 411-418)

SEP 9808  “Asphaltene Analysis by Flocculation Titration-Fundamental Relations and Applications”
Simon I. Andersen
SEP 9809  “Unification of the Two-Parameter Equation of State and the Principle of Corresponding States”
Jørgen Mollerup
(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
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Kristian Jessen, Michael L. Michelsen and Erling H. Stenby
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SEP 9812  “A Dynamic Pore-Scale Model of Imbibition”
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SEP 9815  “Beyond Basic UNIFAC”
Jens Abildskov, Rafiqul Gani and Peter Rasmussen
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SEP 9816  “Prediction of Hydrate Equilibrium Conditions in the Presence of Methanol and Salts Simultaneously”
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SEP 9817  “Asphaltene Precipitates in Oil Production Wells”
W. Kleinitz and S.I. Andersen
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SEP 9818  “The critical role of force-fields in property prediction”
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SEP 9819  “Effective Algorithm for Calculation of Minimum Miscibility Pressure”
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SEP 9820  “Statistical Thermodynamics of a Spontaneously Cooled Granular Medium”
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SEP 9821  “Modeling of vapor-liquid-solid equilibrium in gas-aqueous electrolyte systems”
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SEP 9823  “Predicting the Melting Points and the Enthalpies of Fusion of Saturated Triglycerides by a Group Contribution Method”
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Niels Lindeloff, Robert A. Heidemann, Simon I. Andersen and Erling H. Stenby
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SEP 9901  “Changes in Asphaltene Stability During Hydrotreating”  
Jesper Bartholdy and Simon I. Andersen  

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)  

SEP 9904  “The Critical Micelle Concentration of Asphaltenes as Measured by Calorimetry”  
Simon I. Andersen and Steen D. Christensen  
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N. Lindeloff, J. Pauly, S.I. Andersen, J-L. Daridon and E.H. Stenby  
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Simon I. Andersen and Klaus Potsch  
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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  

SEP 9909  “Overall Mass-Transfer Coefficients in Non-Linear Chromatography”  
Jørgen Mollerup and Ernst Hansen  

SEP 9910  “Factorization of Transport Coefficients in Macroporous Media”  
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SEP 9911  “Thermodynamics of the Multicomponent Vapor-liquid Equilibrium under Capillary Pressure Difference”
Alexander A. Shapiro and Erling H. Stenby
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SEP 9912  “Vapor-Liquid-Solid Equilibria of Sulfur Dioxide in Aqueous Electrolyte Solutions”
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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
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Maria C. Iliuta, Kaj Thomsen and Peter Rasmussen
(Presented at the 11th 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.

SEP 9918  “Fast, Approximate Solutions for 1D Multicomponent Gas Injection Problems”
Kristian Jessen, Yun Wang, Pavel Ermakov, Jichun Zhu, and Franklin M. Orr Jr.
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(Fluid Phase Equilibria 169(2) (2000) 249-276)

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Christina Borch-Jensen and Jørgen Mollerup.
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O. Chiavone-Filho and P. Rasmussen
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SEP 9924  “Determination of methyl tertiary butyl ether (MTBE) in gasoline by Raman spectroscopy”
S. Brunsgaard Hansen, R.W. Berg, E.H. Stenby

SEP 9925  “General Form of the Cross-Energy Parameter of Equations of State”
Joao A.P. Coutinho, Panayiotis M. Vlamos and Georgios M. Kontogeorgis
SEP 0001  “Isothermal gravitational segregation: Algorithms and Specification”
Snorri Halldórsson and Erling H. Stenby
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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, Villahemosa, Mexico, February 1-3 2000)
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SEP 0004  “Recommended Viscosity Data and Models: n-Alkanes”
Claus Zeberg-Mikkelsen, Sergio E. Quiñones-Cisneros and Erling H. Stenby
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SEP 0005  “One Parameter Friction Theory Models for Viscosity”
Sergio E. Quiñones-Cisneros, Claus K. Zèberg-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
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SEP 0007  “Compositional Analysis of North Sea Oils”
Anhijit Y. Dandekar, Simon I. Andersen and Erling H. Stenby

SEP 0008  “Measurement of Phase Boundaries of Hydrocarbon Mixtures Using Fiber Optical Detection Techniques”
Abhijit Y. Dandekar and Erling H. Stenby

SEP 0009  “Solid Organic Deposition During Gas Injection Studies”
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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

SEP 0011  “The Mystery of the Van der Waals Equation”
Kontogeorgis, G.M., and Coutsikos, Ph.
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SEP 0012  “Heat Treatment in the Manufacture of Pitch Produced from Blends of Tars of Petroleum and Coal Origin”
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SEP 0013  “High-Pressure Measuring Cell for Raman Spectroscopic Studies of Natural Gas”
S. Brunsgaard Hansen, R.W. Berg and E.H. Stenby

SEP 0014  “Multicomponent Adsorption. Approaches to Modeling Adsorption Equilibria”
Alexander A. Shapiro and Erling H. Stenby

SEP 0015  “Raman Spectroscopic Studies of Methane-Ethane Mixtures as a Function of Pressure”
S. Brunsgaard Hansen, R.W. Berg and E.H. Stenby
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SEP 0016  “Effect of Low Permeable Porous Media on Behavior of Gas Condensates”
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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

SEP 0018  “Analysis of Infinite Dilution Activity Coefficients of Solutes in Hydrocarbons from UNIFAC”
J. Abildskov, R. Gani, P. Rasmussen, J.P. O’Connell
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“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
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“Three-Dimensional Compositional Simulation: Streamline Methods and Analytical Solutions for One-Dimensional Flow”
P. Ermakov, K. Jessen, J. Zhu and F.M. Orr, Jr.

“Effects of Numerical Dispersion in FD Simulation of 1D Gas Injection Problems”
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“Physical Properties from Association Models”
Michael L. Michelsen and Eric M. Hendriks
(Fluid Phase Equilibria, 180 (2001) 165-174)

“Low Temperature Treatment of Petroleum Tar in the Production of Anode Binder Pitch”
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Thomas Lindvig, Michael L. Michelsen and Georgios Kontogeorgis
(AIChe J. 47 (11) (2001) 2573-2584)

“A Thermodynamic Model for Gas Hydrates in the Presence of Salts and Methanol”
Julian Youxiang Zuo, Dan Zhang and Erling H. Stenby

“Viscosity Prediction of Natural Gas Using the Friction Theory”
Claus K. Zëberg-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
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SEP 0029  “Dielectric Studies of Asphaltenes in Toluene Solutions”
Carsten Pedersen and Simon I. Andersen
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SEP 0030  “Estimation of Solubility Parameters of Complex Crude Oil Mixtures Using Sound Velocity”
Carsten Pedersen and Simon I. Andersen
(Presented at the 2nd 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

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

SEP 0033  “On the Mass Balance of Asphaltene Precipitation”
Simon I. Andersen, Carlos Lira-Galeana and Erling H. Stenby
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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)

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Simon I. Andersen, Morten Mejlholm, Jesper Bartholdy and Ryan Lauridsen
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SEP 0036  “Organic Precipitates in Oil Production of a Venezuelan Oil Field”
S.I. Andersen, Th. Hofšäss, W. Kleinitz and I. Rahimian
(Presented at ISCOP’99, Huatulco, Mexico, november 1999)
SEP 0037  “Petroleum Resins: Separation, Character, and Role in Petroleum”  
Simon I. Andersen and James G. Speight  
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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  

SEP 0039  “Stimulation of Asphaltenic Deposits in Oil Producing Wells”  
Wolfram Kleinitz and Simon I. Andersen  
(Presented at the 2nd 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  

SEP 0041  “Viscosity Prediction of Hydrocarbon Mixtures Based on the Friction Theory”  
Claus K. Zéberg-Mikkelsen, Sergio E. Quiñones-Cisneros and Erling H. Stenby  

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  
**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  

**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  

**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  

**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 Aluminium Committee at the 130th TMS Annual Meeting, New Orleans, Louisiana, 11-15 February, 2001, 559-564*)

**SEP 0108** “Development of Petroleum Enhanced Coal Tar Pitch in Europe”  
“Viscosity Modeling of Associating Fluids Based on the Friction Theory: Pure Alcohols”
Claus K. Zéberg-Mikkelsen, Sergio E. Quiñones-Cisneros and Erling H. Stenby
(Fluid Phase Equilibria, 194-197 (2002) 1191-1203)

“Multicomponent Adsorption: Principles and Models”
Alexander A. Shapiro and Erling H. Stenby

“Phase Equilibria for Complex Polymer Solutions”
Thomas Lindvig, Line L. Hestkjaer, Anders F. Hansen, Michael L. Michelsen and Georgios Kontogeorgis
(Fluid Phase Equilibria, 194-197 (2002), 663-673)

“Novel Applications of Thermodynamics with Classical Models”
Thomas Lindvig, Samer Derawi, Hong Yuan Cheng, Michael L. Michelsen, Erling H. Stenby and Georgios M. Kontogeorgis

“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)

“Thermodynamics, Impurities, and Kinetics in the Process of Sucrose Crystallisation”
Angélique Gronborg Rasmussen, Peter Rasmussen, and Lars Bo Jørgensen
(Presented at AIChE 2000 Annual Meeting, Los Angeles, Nov. 12-17, 2000)

“Sodium Chloride Dihydrate - A Potential Cause of Slippery Accidents”
Morten Mejlholm, Kaj Thomsen, Peter Rasmussen, Jørgen Vergod, Freddy Knudsen and Hugo Høyer

“Prediction of Solid-Gas Equilibria with the Peng-Robinson Equation of State”
Philipppos 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 - 8th 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”
(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, v3 and v2”
S. Brunsgaard Hansen, R.W. Berg and E.H. Stenby

SEP 0123  “Effect of Geothermal Gradients on Fluid Distribution in Petroleum Reservoirs”
Alexander A. Shapiro and Erling H. Stenby

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. Bjurstrom
(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 

SEP 0128 “Determination of the activity coefficients of glycylglycine and glycy- 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 CO₂ and N₂ 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. Daugè, 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, 2nd ed., Chapter 16)

SEP 0205 “Interplay of Phase Behavior and Numerical Dispersion in Finite Difference Compositional Simulation”
(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 Villáfila 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

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

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  

SEP 0221 “Direct Measurement of Gas Solubilities in Polymers with a High-Pressure Microbalance”  

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 3rd 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 Asphaltenes 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”  
SEP 0226 “Asphaltene Self-Association: Modelling and Effect of Fractionation with a Polar Solvent”
Daniel Merino-García and Simon I. Andersen

SEP 0227 “Interaction of Asphaltenes with Nonylphenol by Microcalorimetry”
Daniel Merino-García and Simon I. Andersen

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 3rd 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 3rd 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

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

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. Quinõnes-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)*


**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)*
“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)

“Phase and Viscosity Behavior of Refrigerant-Lubricant Mixtures“
S.E. Quiñones-Cisneros, J. Garcia, 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)

“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

“Modeling of Vapor-Liquid-Solid Equilibria in Acidic Aqueous Solutions”
Søren Gregers Christensen and Kaj Thomsen

“Supercritical Fluid Extraction of α-Methylene-γ-Butyrolactone from Alstroemeria: Optimization by Statistical Experimental Design”
Keith W. Hutchenson, Ole F. Jensen, Chien Ping Kao, and Erling H. Stenby
(Presented at the 6th International Symposium on Supercritical Fluids, Versailles, 28-30 April 2003)

“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)

“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))

“Comparative Study of Viscosity Models on the Ternary System Methylecyclohexane + 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)
| 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  
| 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  
| 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”  
| SEP 0315 | “Whey Proteins as a Model System for Chromatographic Separation of Proteins”  
L. Pedersen, J. Møllerup, E. Hansen and A. Jungbauer  
| 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

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 Denisty 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))
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))

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  

SEP 0330  “Fluctuation Theory for Transport Properties in Multicomponent Mixtures: Thermodiffusion and Heat Conductivity”  
Alexander A. Shapiro  

SEP 0331  “Thermodynamics of Electrolyte Systems of Industry”  
Kaj Thomsen  

SEP 0332  “Densities and Solubilities of Glycylglycine and Glycyl-L-alanine in Aqueous Electrolyte Solutions”  
Martin P. Breil, Jørgen M. Mollerup, 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-pyrroldinone”  
Birgit E. Ascanius, Daniel M. Garcia and Simon I. Andersen  
SEP 0334  “Upgrade of a Raman Spectrometer”  
S. Brunsgaard Hansen, R.W. Berg and E.H. Stenby  

SEP 0335  “Modelling of Activity and Solubility of Amino Acids in Salt Solutions”  
Martin P. Breil and Jørgen M. Mollerup  
(*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. Mollerup  
(*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  

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. García, J. Fernández and M.A. Monsalvo  
(*Presented at the 21st 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. García 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*)
I.A. Kouskoumvekaki, N. von Solms, T. Lindvig, M.L. Michelsen and G.M. Kontogeorgis

SEP 0345  “AFM Characterization of Organic Deposits on Metal Substrates from Mexican Crude Oils”
(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

SEP 0402 “Phase and Viscosity Behaviour of Refrigerant-Lubricant Mixtures”
S.E. Quiñones-Cisneros, J. Garcia, J. Fernández and M.A. Monsalvo

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)

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

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
(Presented at International Conference on Thermal Engineering,
Beirut, Lebanon, 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. Marruco, 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

SEP 0416  “Liquid-Liquid Equilibria for Binary and Ternary Polymer Solutions with
PC-SAFT”
Thomas Lindvig, Michael L. Michelsen and Georgios M. Kontogeorgis

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)
“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)

“Part I. Introduction to Computer Aided Property Estimation”
Rafiqul Gani and Georgios M. Kontogeorgis

“Application of Property Models in Chemical Product Design”
Rafiqul Gani, Jens Abildskov and Georgios M. Kontogeorgis

Epaminondas C. Voutsas, Philippos Coutsikos and Georgios M. Kontogeorgis

“Part IV: Challenges and Opportunities”
Georgios M. Kontogeorgis and Rafiqul Gani

“Models for Polymer Solutions”
Georgios M. Kontogeorgis

“Part II: Models for Properties”
Jens Abildskov, Georgios M. Kontogeorgis and Rafiqul Gani
SEP 0426 “Modeling Electrolyte Solutions with the extended universal quasichemical (UNIQUAC) Model”
Kaj Thomsen
(Presented at the 11th ISSP in Aveiro, Portugal, 2004)

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 Mollerup
(Fluid Phase Equilibria, 234 (2005) 108-121)

SEP 0434 “Fluid Characterization for Miscible EOR Projects and CO₂ 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 Christoffersen, Uli Maier, Erling H. Stenby and Peter Kjeldsen
“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)

“Modelling of salt activities in aqueous amino acid solutions I. The
UNIQUAC model”
Martin P. Breil and Jørgen M. Mollerup
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“Modelling of salt activities in aqueous amino acid solutions II. The
Kirkwood theory”
Martin P. Breil and Jørgen M. Mollerup
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“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)

“Development and Application of a Three-Parameter RK-PR Equation of
State”
Martín Cismondi and Jørgen Mollerup
(Fluid Phase Equilibria, 232 (2005) 74-89)

“The Influence of Retention on the Plate Height in Ion-Exchange
Chromatography”
Ernst Hansen and Jørgen Mollerup
“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)

“A Model for Estimating CO2 Solubility in Aqueous Alkanolamines”
Jostein Gabrielsen, Michael L. Michelsen, Erling H. Stenby and Georgios M. Kontogeorgis
(Presented as poster at the 21st ESAT Conference, 1-5 June, 2005, Jurata, Poland)

“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)

“Applied thermodynamics in chemical engineering in the 20th and 21st 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)

“Prediction and Correlation of High-Pressure Gas Solubility in Polymers with Simplified PC-SAFT”
N. von Solms, M. L. Michelsen and G. M. Kontogeorgis

“Effect of Asphaltenes on Crude Oil Wax Crystallization”
Pavel Kriz and Simon I. Andersen
(Energy & Fuels, 19(3) (2005) 948-953)

“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)

“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)

“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

SEP 0512  “Comments on “Predictions of Activity Coefficients of Nearly Athermal Binary Mixtures Using Cubic Equations of State”
Georgios M. Kontogeorgis and Philippos Coutsikos
(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 Mollerup

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
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

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

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 CO2 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 26th 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 Tho Hung Vu, Mette Stenby, Jørgen Peter Jensen, Peter Simonsen and Bo Sander
SEP 0528  “High-pressure viscosity measurements for the ethanol plus toluene binary system”  
C.K. Zeberg-Mikkelsen, A. Baylaucq, G. Watson, C. Boned  

SEP 0529  “Qualitative analysis of thin films of crude oil deposits on the metallic substrate by Fourier transform infrared (FTIR) microscopy”  

SEP 0530  “Calorimetric Evidence about the Application of the Concept of CMC to Asphaltene Self-Association”  
Daniel Merino-Garcia and Simon I. Andersen  

SEP 0531  “A modified free-volume-based model for predicting vapor-liquid and solid-liquid equilibria for size asymmetrical 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  
| 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  
| SEP 0604 | “Correlations; Approach Suitable for Screeing Estimation Methods for Critical Properties of Heavy Compunds”
Ana Zbogar, Filipe Vidal Da Silva Lopes and Georgios M. Kontogeorgis  
| SEP 0605 | “Thermodynamic Modeling of Acid Gas Solubility in Aqueous Solutions of MEA, MDEA and MEA-MDEA blends”
Athanassios Vrachnos, Georgios M. Kontogeorgis and Epamonondas Voutsas  
| 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  
| 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  
“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

“Ten years with the CPA (Cubic-Plus-Association) equation of state. Part I. Pure compounds and Self-associating system”

“Ten years with the CPA (Cubic-Plus-Association) equation of state. Part II. Cross-associating and multicomponent systems”

“Global Phase Equilibrium Calculations: Critical Lines, Critical End Points and Liquid-Liquid-Vapour Equilibrium in Binary Mixtures”
Martin Cismondi and Michael L. Michelsen
(Replaced by SEP 0704)

“Increasing the Computational Speed of Flash Calculations With Applications for Compositional, Transient Simulations”
Claus P. Rasmussen, Kristian Krejbjerg, Michael L. Michelsen and Kersti E. Bjurstrom
(SPE 84181 (2006) 32-38)

”Applied thermodynamics: A new frontier for biotechnology”
Jørgen Mollerup
(Fluid Phase Equilibria, 241 (2006) 205-215)

“The McMillan-Mayer framework and the theory of electrolyte solutions”
Martin P. Breil and Jørgen M. Mollerup
(Fluid Phase Equilibria, 242 (2006) 129-135)

“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

“Scale-up the chromatographic ion-exchange processes in biotechnology”
Sattar Al-Jibbouri
SEP 0619  “Diffusion Measurements in Binary Liquid Mixtures by Raman Spectroscopy”
Rolf W. Berg, Susanne Brunsgaard Hansen, Alexander A. Shapiro and Erling H. Stenby

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 CO2 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

SEP 0625  “Study of Pressure and Temperature Effects on Asphaltene Stability in Presence of CO2”
Sylvain Verdier, Hervé Carrier, Simon I. Andersen and Jean-Luc Daridon

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, 27th 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

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)
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 Calculatuins: 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

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

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

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 CO2 Capture Using an AMP Solution”
J. Gabrielsen, H. F. Svendsen, M. L. Michelsen, E. H. Stenby and G. M. Kontogeorgis

SEP 0717  “Experimental Investigation of Liquid Chromatography Columns by Means of Computed Tomography”
Dirk-Uwe Astrath, Florian Lottes, Duc Thoang Vu, Wolfgang Arlt, and Erling H. Stenby
(Adsorption, 13 (2007) 9-19)

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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

SEP 0719  “Adsorption of Amylase Enzyme on Ultrafiltration Membranes”
Søren Prip Beier, Ann Dorrit Enevoldsen, Georgios M. Kontogeorgis, Ernst B. Hansen, and Gunnar Jonsson

SEP 0720  “The Hansen Solubility Parameters (HSP) in Thermodynamic Models for Polymer Solutions”
Georgios M. Kontogeorgis

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

SEP 0722  “Study of the Solubility of a Modified Bacillus licheniformis α-Amylase around the Isoelectric Point”
Cornelius Faber, Timothy J. hobley, Jørgen Mollerup, Owen R. T. Thomas, and Svend G. Kaasgaard

SEP 0723  “Adhesion between coating layers based on epoxy and silicone”
Jacob R. Svendsen, Georgios M. Kontogeorgis, Søren Kiil, Claus E. Weinell, and Martin Gronlund

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

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 Theorogy”
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

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

SEP 0732  “Measurement and Modelling of the Mixed Solvent Electrolyte System Na2CO3-NaHCO3-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 FeCO3”
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”  
Martin Cismondi, and Michael L. Michelsen  
(Fluid Phase Equilibria, 259 (2007) 228-234) |
Andreas Grenner, Ioannis Tsivintzelis, Georgios M. Kontogeorgis, Ioannis G. Economou, and Costas Panayiotou  
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| 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. Mollerup, 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. Mollerup  
| SEP 0741 | “CO₂ Capture and Storage”  
Amit Garg, Lars R. Appelquist, and Erling H. Stenby  
| 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) |
“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)

“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, 2007)

Philip Loldrup Fosbøl, Kaj Thomsen, and Erling H. Stenby
(ECCE6 proceedings, vol. 1 (2007) 137)

“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)

“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)

“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. Mollerup, Thomas Budde Hansen, Steffen Kidal, and Arne Staby  
| SEP 0802 | “Modeling Systems Containing Alkanolamines with the CPA Equation of State”  
Ane S. Avlund, Georgios M. Kontogeorgis, and Michael L. Michelsen  
| 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 10th 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  
| SEP 0805 | “Modelling of Phase Equilibria of Surfactant Mixtures using an Association Model”  
Nuno M. F. Garrido, Georgios K. Folas and Georgios M. Kontogeorgis  
| 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”  
(*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 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 0815  “Chilled Ammonia Process for CO2 Capture” Victor Darde, Kaj Thomsen, and Erling H. Stenby (Internal Report)


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 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  
| SEP 0822 | “Modeling of Biopharmaceutical Processes: II Process Chromatography Unit Operation”  
Oliver Kaltenbrunner, Justin McCue, Philip Engel, Jørgen Mollerup, and Anurag S. Rathore  
| SEP 0823 | “Thermodynamic Modeling of the Solubility of CO₂ 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)  
| 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 CO₂ 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, Eugênia A. Macedo, and Jørgen M. Mollerup  
| 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 CO₂, 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$_2$ Solubility in Brine on CO$_2$ Flooding Simulation”
Wei Yan, and Erling H. Stenby
(Presented at the International Energy Agency (IEA) 29th 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
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)

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 Na₂CO₃-NaHCO₃-Monoethylene Glycol-Water”
Philip L. Fosbøl, Kaj Thomsen, and Erling H. Stenby

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

SEP 0906  “Improving Mechanistic CO₂ 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 Ramlov, Kaj Thomsen, and Nicolas von Solms

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

Philip L. Fosbøl, Kaj Thomsen, and Erling H. Stenby
“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

“Electrodeposition of Asphaltenes. 1. Preliminary Studies on Electrodeposition from Oil-Heptane Mixtures”
D. S. Khvostichenko, and S. I. Andersen
(Enery and Fuels, 23(2) (2009) 811-819)

“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)

“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)

Ioannis Tsivintzelis, Andreas Grenner, Ioannis G. Economou, and Georgios M. Kontogeorgis

“Modelling of Phase Equilibria with CPA using the Homomorph Approach”
Martin P. Breil, Ioannis Tsivintzelis, and Georgios M. Kontogeorgis
(Fluid Phase Equilibria, 301 (2011) 1-12)

“Extended UNIQUAC Model for Thermodynamic Modeling of CO2 Absorption in Aqueous Alkanolamine Solutions”
(Fluid Phase Equilibria, 282(2) (2009) 121-132)

“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)
“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 Tsviintzelis, Amir H. Mohammadi, Georgios M. Kontogeorgis, and Dominique Richon
(Replaced by CERE 1118)

“Modeling Phase Equilibria for Acid Gas Mixtures using the CPA Equation of State. Part I. Mixtures with H2S”
Ioannis Tsviintzelis, Georgios M. Kontogeorgis, Michael L. Michelsen, and Erling H. Stenby

“Absorber Model for CO2 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)

“Teaching Chemical Engineering Thermodynamics at Three Levels”
Georgios M. Kontogeorgis, Michael L. Michelsen, and Karsten H. Clement
(Chemical Engineering Education, (2009) 70-78)

“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)

“CO2 Capture from Flue Gas using Amino Acid Salt Solutions”
Benedicte Mai Lerche, Erling H. Stenby, and Kaj Thomsen

Thermodynamic Modeling of Water-Acid Gases-Alkanolamine Systems”
Negar Sadegh, Kaj Thomsen, Erling H. Stenby, and Georgios Kontogeorgis
(Presented at the 9th AIChE Annual Meeting 2009, Nashville, TN, USA)

“Thermodynamics of Irreversible Processes Enhanced by Mixed Solvent Electrolyte Activity Coefficient Models”
Philip L. Fosbol, Kaj Thomsen, and Erling H. Stenby
(Poster presentation and proceedings from JETC10, (2009) Copenhagen, Denmark)

“Energy Demand for CO2 Solvent Regeneration”
Philip L. Fosbol, Kaj Thomsen, and Erling H. Stenby
SEP 0928  “Chilled Ammonia Process for CO₂ Capture”
Victor Darde, Kaj Thomsen, Willy J.M. van Well, and Erling H. Stenby

SEP 0929  “1D Simulations for Microbial Enhanced Oil Recovery with Metabolite Partitioning”
Sidse 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  

CERE 1003  “Use of Monomer Fraction Data in the Parametrization of Association Theories”  
Georgios M. Kontogeorgis, Ioannis Tsivintzelis, Nicolas von Solms, Andreas Grenner, David Bogh, 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  

CERE 1006  “Evaluation of the CO2 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  

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 Libraries”
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

CERE 1015  “Towards Predictive Association Theories”
Georgios M. Kontogeorgis, Ioannis Tsiplakopoulos, 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)

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 CO2”
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. Løkke
(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)
(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 CO2”
Ioannis Tsivintzelis, 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)
“Biot Critical Frequency Applied as Common Friction Factor for Chalk with Different Pore Fluids and Temperatures”
K.A. Andreassen, and I.L. Fabricius

“Water Weakening of Chalk Explained from a Fluid-Solid Friction Factor”
K.A. Andreassen, and I.L. Fabricius

“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)

“Kriging Interpolation in Seismic Attribut 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)

“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)

“Densification and Grain Growth during Early-stage Sintering of Ce0.9Gd0.1O1.95-δ in Reducing Atmosphere”
Zeming He, Hao Yuan, Julie Glasscock, Christodoulos Chatzichristodoulou, John Phair, Andreas Kaiser, Severine Ramousse

“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)

“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)

“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  “Krigeing in High Dimensional Attribute Space using Principal Component Analysis”
K. Lange, T.M. Hansen, J.L. Fernández-Martínez, J. Frydendall, and K. Mosegaard

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 CO2 Solubility in NaC1 Brine and CO2-Saturated NaC1 Brine Density”
Wei Yan, Sheng-Li Huang, and Erling H. Stenby

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
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 Tommeraas, Georgios M. Kontogeorgis, Khadija Schwach-Abdellauoi, 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-Dimethyl dibenzothiophene”  
Rasmus R. Boesen, Nicolas S. von Solms, Michael L. Michelsen, Rasmus G. Egebjerg, and Kim G. Knudsen  
(Internal Report)

Muhammad Riaz, Georgios Kontogeorgis, Erling H. Stenby, Wei Yan, Toril Haugeum, 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, Mikkels 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  

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)
“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)

“Permeability Prediction in Chalks”
M.M. Alam, I.L. Fabricius, and M. Prasad

“Vp-Vs Relationship and Amplitude Variation with Offset Modelling of Glaucnitic Greensand”
Z. Hossain, T. Mukerji, and I.L. Fabricius
(Geophysical Prospecting, 60 (2012) 117-137)

“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”)

“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)

“Advanced Waterflooding in Chalk Reservoirs: Understanding of Underlying Mechanisms”
Adeel Zahid, Sara B. Sandersen, Alexander Shapiro, Nicolas von Solms, and Erling H. Stenby

“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)

“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)

“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/GE 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

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  ”CO₂ capture using aqueous ammonia: kinetic study and process simulation”
Victor Darde, Willy J.M. van Well, Erling H. Stenby, and Kaj Thomsen

CERE 1126  ”Selective oxidation of benzyl alcohol in dense CO₂: 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 Mineva, 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  
| 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 Surløyk, 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 Tecle, and Kaj Thomsen  
| 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  
| CERE 1136 | “Oil Reservoir Production Optimization using Optimal Control”  
Carsten Völcker, John Bagterp Jørgensen, and Erling H. Stenby  
| 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  

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)*
“A New Comprehensive Approach for Predicting Injectivity Decline during Waterflooding”
H. Yuan, S. M. Nielsen, and A. A. Shapiro
(SPE 154509, 2012)

“A Systematic Methodology for Design of Emulsion Based Chemical Products”
Michele Mattei, Georgios M. Kontogeorgis, and Rafiqul Gani

“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)

Javeed A. Awan, Ioannis Tsvintzelis, Alain Valtz, Christophe Coquelet, and Georgios M. Kontogeorgis
(Industrial and Engineering Chemistry Research, 51 (2012) 11561-11564)

“Kinetics of Absorption of Carbon Dioxide into Aqueous Potassium Salt of Proline”
Subham Paul, and Kaj Thomsen

“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

“Phase Equilibrium modeling of gas hydrate systems for CO2 Capture”
Peter Jørgensen Herslund, Kaj Thomsen, Jens Abildskov, and Nicolas von Solms
(Journal of Chemical Thermodynamics, 48 (2012) 13-27)

“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)

“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 Ibnelwaleed A. Hussein
(Journal of Polymer Research 19(2) (2012) 9814)

CERE 1213  “A New Pilot Absorber for CO2 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

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 CO2 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 18th 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 Equilibria 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)
“Fluid Phase Equilibria during Propylene Carbonate Synthesis from Propylene Oxide in Carbon Dioxide Medium”
Loubna Gharmarti, Nikolai E. Musko, Anker Degen Jensen, Georgios M. Kontogeorgis, and Jan-Dierk Grunwaldt
(J. of Supercritical Fluids, 82 (2013) 106-115)

"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
(Enery Fuels, 26 (2012) 3407-3415)

“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)

"Approach to Improve Speed of Sound Calculation within PC-SAFT Framework”
Xiaodong Liang, Bjørn Maribo-Mogens, Kaj Thomsen, Wei Yan, and Georgios M. Kontogeorgis
(Industrial and Engineering Chemistry Research, 51(45) (2012) 14903-14914)

“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)

“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 33rd. IEA EOR Symposium, Saskatchewan, Canada, August 26-30, 2012)

“Capabilities and Limitations of an Association Theory for Chemicals”
Ioannis Tsivintzelis, and Georgios M. Kontogeorgis
(Industrial & Engineering Chemistry Research, 51(41) (2012) 13496-13517)

“Thermodynamic Modelling of Natural Gas Systems Containing Water”
Eirini K. Karakatsani, and Georgios M. Kontogeorgis
(Industrial & Engineering Chemistry Research, 52 (2013) 3499-3513)

“Modeling of Dielectric Properties of Complex Fluids with an Equation of State”
Bjorn Maribo-Mogensen, Georgios M. Kontogeorgis, and Kaj Thomsen
“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)

“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)

“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)

“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)

“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)

“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)

“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)

“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)
“Tuning SISO Offset-free Model Predictive Control Based on ARX Models”
Jakob Kjøbsted Huusum, Niels Kjølstad Poulsen, Sten Bay Jørgensen, and John Bagterp Jørgensen

"Nonconvex Model Predictive Control for Commercial Refrigeration”
Tobias Gybel Hovgaard, Lars F.S. Larsen, John Bagterp Jørgensen, Stephen Boyd

“Process Simulation of CO$_2$ 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)

“Evaluating the Impact of an Ammonia-Based Post-Combustion CO$_2$ 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)

“Effect of Hot Water Injection on Sandstone Permeability: An Analysis of Experimental Literature”
Esther Rosenbrand
(SPE 154489, (2012)

“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)

“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)

"Effect of impurities during CO2 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), Kyoto, Japan, 18-22 November 2012)
(Submitted for publication)

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), Kyoto, Japan, 18-22 November 2012)
(Submitted for publication)

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)

Javeed Awan, Georgios M. Kontogeorgis, Ioannis Tsivintzelis, and Christophe Coquelet
“Ionic Networks Derived from the Protonation of Dendritic Amines with Carboxylic Acid End-Functionalized PEGs”
Lidia González, Anne Ladegaard Skov, and Søren Hvilsted

“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)

“Modeling of Dielectric Properties of Aqueous Salt Solutions with an Equation of State”
Bjørn Maribo-Mogensen, Georgios M. Kontogeorgis, and Kaj Thomsen

“Experimental Study of Bacterial Penetration into Chalk Rock: Mechanisms and Effect on Permeability”
Amalia Halim, Alexander Shapiro, Anna Eliasson Lantz, and Sidsel Marie Nielsen

“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)

“Synergistic Inhibition of Natural Gas Hydrate Formation”
Nagu Daraboina, Christine Malmos, and Nicolas von Solms
(Fuel, 108 (2013) 749-757)

“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)

“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)

“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 74th EAGE Conference & Exhibition incorporation SPE EUROPEC 2012, Copenhagen, Denmark, 4-7 June, 2012)

CERE 1318  “Heat of Absorption of CO2 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 11th International Conference on Greenhouse Gas Technologies (GHGT-11), Kyoto, Japan, 18-22 November, 2012)

CERE 1319  “Freezing Point Depressions of Phase Change CO2 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 CO2 in Phase Change Solvents: DEEA and MAPA”
Muhammad Waseem Arshad, Philip Loldrup Fosbøl, Nicolas von Solms, Hallvard Fjøsne Svendsen, and Kaj Thomsen

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 Perfoldt, 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

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

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 CAPCO2 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  
(Submitted for publication)

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 Kjoller, 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 Zarinehbaft, 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  
| CERE 1347 | “Permeability, Compressibility and Porosity of Jurassic Shale from the Norwegian-Danish Basin”  
Ernest N. Mbia, Ida L. Fabricius, Anette Krogshøvl, Peter Frykman, and Finn Dalhoff  
| CERE 1348 | ”Caprock Compressibility and Permeability and the Consequences for Pressure Development in CO2 storage sites”  
Ernest N. Mbia, Peter Frykman, Carsten B. Nielsen, Ida L. Fabricius, Gillian E. Pickup, and Christian Bernstone  
| CERE 1349 | “Equilibrium Total Pressure and CO2 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 CO2 in Alkanolamines”  
Muhammad Waseem Arshad, Philip Loldrup Fosbøl, Nicolas von Solms, Hallvard Fjøsne Svendsen, and Kaj Thomsen  
(Energy Procedia, 51 (2014) 217-223) |
“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

“Association Theories for Complex Thermodynamics”
G. M. Kontogeorgis

“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)

“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)
(Submitted for publication)

“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”
(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 Tsvintzelis, 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 Tsvintzelis, and Georgios M. Kontogeorgis

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 Ramlov
(FEBS Letters, 588 (2014) 1767-1772)

CERE 1409  “Porosity and Sonic Velocity Depth Trends of Ecocene Chalk in Atlantic Ocean: Influence of Effective Stress and Temperature”
Ahmed Awadalkarim, and Ida L. Fabricius
CERE 1410  “Modeling of the Pressure Propagation due to CO2 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 CO2 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

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
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

CERE 1423  “Modeling Phase Equilibria for Acid Gas Mixtures using the Cubic-Plus-Association Equation of State. 3. Applications Relevant to Liquid or Supercritical CO2 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 CO2 and H2S – Comparisons with different Equations of State”
Letícia C. dos Santos, Samir S. Abunahman, Frederico W. Tavares, Victor R. R. Ahón, and Georgios M. Kontogeorgis

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 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 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 4th ed. of the Handbook of Colloid and Surface Chemistry, CRC Press, Editor: K. Birdi)


CERE 1437  “A Low Energy Aqueous Ammonia CO2 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 CO2 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)

Leticia C. Santos, Samir S. Abunahman, Frederico Wanderley Tavares, Victor Ahón, and Georgios Kontogeorgis  
(Submitted for publication)

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 CO2 Removal from Flue-Gas”  
Maria T. Gundersen, Nicolas von Solms, and John M. Woodley  
(Energy Procedia, 62 (2014) 624-632)
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  

CERE 1503  “Hydrate Equilibrium Data for the CO2-N2 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 CO2 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  “Vapor Liquid Equilibrium Measurements and Modeling of 1-propanethiol + 1-butanethiol + CH4 Ternary System at 303, 335 and 368 K with a Pressure Variation from 1 to 9 MPa”  
Javeed A. Awan, Ioannis Tsivintzelis, Christophe Coquelet, and Georgios M. Kontogeorgis  
(Submitted for publication)

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 CO₂ 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
(Submitted for publication)

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
CERE 1517  “Modeling Derivative Properties and Binary Mixtures with CO2 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
(Submitted for publication)

CERE 1520  “Modeling the Binary System Mn(NO3)2 – H2O 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
(Submitted for publication)

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\textsubscript{2} Capture Case-study”  
Jozsef Gaspar, and Philip Loldrup Fosbøl  
| --- | --- |
| 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  
| 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  
| 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  
| 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\textsubscript{2}”  
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*) |
| CERE 1534 | “Qualification of Polymer Materials for High Pressure CO\textsubscript{2} Flexible Pipe Structures”  
C. Wang, A. Rubin, N. Von Solms  
“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

“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)

“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)

“Time-Explicit Methods for Joint Economical and Geological Risk Mitigation in Production Optimization”
Lasse H. Christiansen, Andrea Capolei, and John Bagterp Jørgensen

“Methods and Modelling for Post-combustion CO2 Capture”
Philip Fosbøl, Nicolas von Solms, Arne Gladis, Kaj Thomsen, and Georgios M. Kontogeorgis
(Submitted for publication in “Materials and Process Systems for CO2 Capture: Modelling, Design, Control and Integration” edited by Dr. Athanasios Papadopoulos and Professor Panos Seferlis)

“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)

“Dynamic Operation and Simulation of Post-Combustion CO2 Capture”
Jozsef Gaspar, Arne Gladis, John Bagterp Jørgensen, Kaj Thomsen, Nicolas von Solms, and Philip Loldrup Fosbøl
(Energy Procedia, 86 (2016) 205-214)

“Control of a Post-Combustion CO2 Capture Plant during Process Start-up and Load Variations”
Jozsef Gaspar, John Bagterp Jørgensen, and Philip Loldrup Fosbøl

“Multivariable Optimization of the Piperazine CO2 Post-Combustion Capture Process”
Jozsef Gaspar, Nicolas von Solms, Kaj Thomsen, and Philip Loldrup Fosbøl
(Energy Procedia, 86 (2016) 229-238)
“Pitfalls of using the Geometric-mean Combining Rule in the Density Gradient Theory”
Xiaodong Liang, Michael Locht Michelsen, and Georgios M. Kontogeorgis
(Fluid Phase Equilibria, 415 (2016) 75-83)

“Modelling the Phase Equilibria of Multicomponent Mixtures Containing CO₂, 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)

“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)

“Profit and Risk Measures in Oil Production Optimization”
A. Capolei, B. Foss, and J.B. Jørgensen

“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 1601  “Solubility Modeling of the Binary Systems Fe(NO$_3$)$_3$-H$_2$O, Co(NO$_3$)$_2$-H$_2$O and the Ternary Fe(NO$_3$)$_3$-Co(NO$_3$)$_2$-H$_2$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 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)*

CERE 1605  “Simulation and Multivariable Optimization of Post-Combustion Capture using Piperazine”  
Jozsef Gaspar, and Philip Loldrup Fosbøl  

CERE 1606  “A Stabilised Nodal Spectral Element Method for Fully Nonlinear Water Waves”  
A. P. Ensig-Karup, C. Eskilsson, and D. Bigoni  
*(Accepted for publication)*

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 Muñiz Regueira, María J.P. Comuñas, Luis Lugo, Josefa Fernández  
*(Journal of Chemical Thermodynamics, 81 (2015) 124-130)*
“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)

“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)

“A Least Squares Approach for Efficient and Robust Short-term Versus Long-term Optimization”
Lasse Hjuler Christiansen, Andrea Capolei, and John Bagterp Jørgensen
(Submitted for publication)

“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)

“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)

“Simultaneous Description of Activity Coefficients and Solubility with eCPA”
Anders Schlaikjer, Kaj Thomsen, and Georgios M. Kontogeorgis
(I&EC Research, 56 (2017) 1074-1089)

“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)

“Risk Minimization in Life-cycle Oil Production Optimization”
Andrea Capolei, Lasse Hjuler Christiansen, and John Bagterp Jørgensen
(Submitted for publication)

“A Density Gradient Theory Based Method for Surface Tension Calculations”
Xiaodong Liang, Michael Locht 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 Science, 309 (2017) 772-786)

CERE 1624  “Unstructured Spectral Element Model for Dispersive and Nonlinear Wave Propagation”  
Allan P. Ensig-Karup, Claes Eskilsson, Daniele Bigoni  

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 Experimentel Verification”  
Yan-Rong Liu, Kaj Thomsen, Yi Nie, Suo-Jiang Zhang, and Anne S. Meyer  
(Green Chemistry, 18 (2016) 6147-6398)

Ioannis Tsivintzelis, Georgios Kontogeorgis, and Costas Panayiotou  
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 CO2 Post-combustion Capture using Piperazine and MEA”
Jozsef Gaspar, Luis Ricardez-Sandoval, John Bagterp Jørgensen, and Philip L. Fosbøl

CERE 1630  “Determining Optimum Aging time using Novel Core Flooding Equipment”
Mehrdad Ahkami, Krishna Hara Chakravarty, Ioannis Xiarchos, Kaj Thomsen, Philip L. Fosbøl

CERE 1631  “Hydrate Equilibrium Data for CO2+N-2 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 T1/T2 ratio”
Konstantina Katika, Milad Saidian, and Ida Lykke Fabricius
(Paper presented at 78th EAGE Conference & Exhibition 2016, Vienna, Austria)

CERE 1634  “CO2 Capture with Liquid-Liquid Phase Change Solvents: A Thermodynamic Study”
Muhammad Waseem Arshad, Philip Oldrup Fosbøl, Nicolas von Solms, and Kaj Thomsen
(Accepted by Energy Procedia)

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
(Submitted for publication)
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

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.

CERE 1638  “New insight into the microtexture of chalks from NMR analysis”
(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

CERE 1641  “Low immediate scientific yield of the PhD among medical doctors”
(BMC Medical Education, 16 (2016) 189-195)


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) CO₂ 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. Ensig-Karup, and Luke N. Olson (Submitted for publication)

CERE 1710 “General approach for solving the density gradient theory in the interfacial tension calculation” Xiaodong Liang, and Michael Locht Michelsen (Fluid Phase Equilibria, 451 (2017) 79-90)
“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)

“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
(Accepted by Energy Procedia)

“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)

“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)

“17th International conference on petroleum phase behavior and fouling”
Nicolas von Solms, Wei Yan, and Simon Andersen
(Energy & Fuels, 31 (2017) 3329-3329)

“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

Freezing point determination of water-ionic liquid mixtures”
Yanrong Liu, Anne S. Meyer, Yi Nie, Suojiang Zhang, Yongsheng Zhao, Philip L. Fosbol, and Kaj Thomsen
(Journal of Chemical and Engineering Data, 62 (2017) 2374-2383)

“A three-dimensional model of two-phase flows in a porous medium accounting for motion of the separating surface”
Alexander A. Shapiro
(Submitted for publication)

“New association schemes for mono-ethylene glycol: Cubic-Plus-Association parameterization and uncertainty analysis”
Francois Kruger, Nicolas von Solms, and Georgios Kontogeorgis
(Submitted for publication)

“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
(Submitted for publication)
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
(Submitted for publication)

CERE 1722  “eCPA: An ion-specific approach to parametrization”
Anders Schlaikjer, Kaj Thomsen, and Georgios Kontogeorgis
(Submitted for publication)

CERE 1723  “The Debye-Hückel theory and its importance in modeling electrolyte solutions”
Georgios M. Kontogeorgis, Bjørn Maribo-Mogensen, and Kaj Thomsen
(Submitted for publication)

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
(Published online (2017))

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
(Published online (2017))

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

CERE 1729  “Antifreeze proteins and gas hydrate inhibition”
Nicolas von Solms
(Chapter in the book “Antifreeze proteins, Volume II – Biochemistry, Molecular Biology, Physical-chemistry and Applications, Edited by Hans Ramløv and Dennis Friis, Springer Verlag)
CERE 1730  “Hydrate thermal dissociation behavior and dissociation enthalpies in methane-carbon dioxide swapping process”  
Liang Mu, and Nicolas von Solms  

CERE 1731  “CO₂ 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  
(In press, Chemical Engineering Journal, (2017))

CERE 1732  “Design and simulation of rate-based CO₂ 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 CO₂ 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  
(Submitted for 3rd IFAC Workshop on Automatic Control in Offshore Oil and Gas Production)
CERE 1738  “Production optimization of a rigorous thermal and compositional reservoir flow model”
Tobias K.S. Ritschel, and John Bagterp Jørgensen
(Submitted for 3rd IFAC Workshop on Automatic Control in Offshore Oil and Gas Production)

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 3rd IFAC Workshop on Automatic Control in Offshore Oil and Gas Production)

CERE 1740  “Solubility modeling of the systems Ni(NO₃)₂-H₂O and Fe(NO₃)₃-Ni(NO₃)₂H₂O 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
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CERE 1742  “Water-oil emulsions with fines in smart water enhanced oil recovery”
Muhammad Waseem Arshad, Philip Loldrup Fosbol, Alexander Shapiro, and Kaj Thomsen
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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”
Konstantina Katika, Henrik Fordsmand, and Ida L. Fabricius

CERE 1745  “Low-field NMR spectrometry of chalk and argillaceous sandstones: Rock-fluid affinity assessed from T₁/T₂ ratio”
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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
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CERE 1748  “Rock physics”
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CERE 1749  “Rock properties”
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(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
CERE 1801  “On the isobaric-isothermal flash calculations”  
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CERE 1802  “Elasticity and electrical resistivity of chalk and greensand during water flooding with selective ions”  

CERE 1803  “An extensive study of the capabilities and limitations of the CPA and PC-SAFT equations of state in modeling a wide range of acetic acid properties”  
Rafael T.C. Ribeiro, André L. Alberton, Márcio L.L. Paredes, Georgios M. Kontogeorgis, and Xiaodong Liang  
(Submitted for publication)  

CERE 1804  “Recent advances with association models for practical applications”  
Ioannis Tsivintzelis, Martin Gamel Björner, and Georgios M. Kontogeorgis  
(Submitted for publication)  

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  
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