

# **LIST OF PUBLICATIONS**

**1980 to January 2018**

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- SEP 8001** "Phase Equilibriums and Separation Processes"  
Aage Fredenslund, Jørgen Mollerup and Peter Rasmussen  
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- SEP 8002** "On the Combinatorial Part of the UNIFAC and UNIQUAC Models"  
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- SEP 8003** "Eine Übersicht zuer Berechnung von Phasengleichgewichte mit Hilfe der UNIFAC-Methode"  
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- SEP 8004** "Thermodynamic Properties from Corresponding States Theory"  
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- SEP 8005** "On the Temperature Dependence of the UNIQUAC/UNIFAC Models"  
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- SEP 8009** "Group Contribution Methods for Phase Equilibria"  
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- SEP 8104** "UNIFAC and Infinite Dilution Activity Coefficients for Large Molecules"  
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- SEP 9809** “Unification of the Two-Parameter Equation of State and the Principle of Corresponding States”  
Jørgen Møllerup  
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- SEP 9810** “Vapor-Liquid Equilibria of Systems Containing Acetic Acid and Gaseous Components. Measurements and Calculations by a Cubic Equation of State”  
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**(Fluid Phase Equilibria, 152 (1998) 67-94)**
- SEP 9811** “Global Approach for Calculation of Minimum Miscibility Pressure”  
Kristian Jessen, Michael L. Michelsen and Erling H. Stenby  
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- SEP 9812** “A Dynamic Pore-Scale Model of Imbibition”  
Kristian Mogensén and Erling H. Stenby  
**(Presented at SPE/DOE 11th Symposium on IOR, Tulsa, Oklahoma, 19-22 April, 1998)**  
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- SEP 9817** “Asphaltene Precipitates in Oil Production Wells”  
W. Kleinitz and S.I. Andersen  
**(Oil Gas - European Magazine, 1/1998)**
- SEP 9818** “The critical role of force-fields in property prediction”  
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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 9822** “Flocculation Onset Titration of Petroleum Asphaltenes”  
Simon I. Andersen  
**(Energy & Fuels, 13(2) (1999) 315-322)**
- SEP 9823** “Predicting the Melting Points and the Enthalpies of Fusion of Saturated Triglycerides by a Group Contribution Method”  
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- SEP 9824** “Phase-Boundary Calculations in Systems Involving More than Two Phases, with Application to Hydrocarbon Mixtures”  
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- SEP 9901** “Changes in Asphaltene Stability During Hydrotreating”  
Jesper Bartholdy and Simon I. Andersen  
**(Energy & Fuels, 14(1) (2000) 52-55)**
- SEP 9902** “Dielectric Properties of Asphaltenes and Oils”  
Carsten Pedersen and Simon I. Andersen  
**(Paper for AIChE National Spring Meeting, March 14-18, 1999, Houston, Texas) (Proceedings)**
- SEP 9903** “Solid Organic Deposition During Gas Injection Studies - Part I”  
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- SEP 9904** “The Critical Micelle Concentration of Asphaltenes as Measured by Calorimetry”  
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- SEP 9906** “High Pressure Wax Formation”  
N. Lindeloff, J. Pauly, S.I. Andersen, J-L. Daridon and E.H. Stenby  
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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”  
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Kristian Jessen, Yun Wang, Pavel Ermakov, Jichun Zhu, and Franklin M. Orr Jr.  
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- SEP 0002** “Models for Surfactant Systems”  
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- SEP 0003** “Modeling and Simulation of Nitrogen Injection in a Naturally Fractured Reservoir”  
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- SEP 0005** “One Parameter Friction Theory Models for Viscosity”  
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- SEP 0008** “Measurement of Phase Boundaries of Hydrocarbon Mixtures Using Fiber Optical Detection Techniques”  
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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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**(Presented at the EUROCARBON 2000, 1<sup>st</sup> World Conference on Carbon, 9-13 July 2000)**
- SEP 0013** “High-Pressure Measuring Cell for Raman Spectroscopic Studies of Natural Gas”  
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**(Appl. Spectrosc., 55(1) (2001) 55-60)**
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- SEP 0017** “Modeling of Characterized Oils Viscosity with the One Parameter Friction Theory Models”  
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- SEP 0018** “Analysis of Infinite Dilution Activity Coefficients of Solutes in Hydrocarbons from UNIFAC”  
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- SEP 0019** “Diagonal Non-equilibrium Thermodynamics and Modeling Transport Coefficients”  
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- SEP 0020** “High-Pressure Vapor-Liquid Equilibria in the Systems: nitrogen + dimethyl ether, methanol + dimethyl ether, carbon dioxide + dimethyl ether + methanol, and nitrogen + dimethyl ether + methanol”  
M. Teodorescu and P. Rasmussen  
**(Journal of Chemical and Engineering Data, 46(3) (2001) 640-646)**
- SEP 0021** “Three-Dimensional Compositional Simulation: Streamline Methods and Analytical Solutions for One-Dimensional Flow”  
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- SEP 0022** “Effects of Numerical Dispersion in FD Simulation of 1D Gas Injection Problems”  
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- SEP 0023** “Physical Properties from Association Models”  
Michael L. Michelsen and Eric M. Hendriks  
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- SEP 0024** “Low Temperature Treatment of Petroleum Tar in the Production of Anode Binder Pitch”  
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- SEP 0025** “Thermodynamics of Paint Related Systems with Engineering Models”  
Thomas Lindvig, Michael L. Michelsen and Georgios Kontogeorgis  
**(AIChE J. 47 (11) (2001) 2573-2584)**
- SEP 0026** “A Thermodynamic Model for Gas Hydrates in the Presence of Salts and Methanol”  
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**(Chem. Eng. Comm 184, (2001) 175-192)**
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- SEP 0028** “The Friction Theory for Viscosity Modeling: Extension to Crude Oil Systems”  
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**(Chemical Engineering Science 56(24), (2001) 7007-7015)**
- SEP 0029** “Dielectric Studies of Asphaltenes in Toluene Solutions”  
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- SEP 0031** “Investigations of Inhibition of Asphaltene Precipitation at High Pressure Using Bottomhole Samples”  
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- SEP 0035** “Changes in Asphaltene Chemistry and Stability during Hydrotreating”  
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”  
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- 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  
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- SEP 0040** “Prediction of Micelle Formation for Aqueous Polyoxyethylene Alcohol Solutions with the UNIFAC Method”  
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- SEP 0043** “Crude Oil Model Emulsion Characterised by means of Near Infrared Spectroscopy and Multivariate Techniques”  
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- SEP 0101** “Viscosity Modeling of Light Gases at Supercritical Conditions Using the Friction Theory”  
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**(Presented at the 2000 International Symposium on the Society of Core Analysts, 18-22 October, Abu Dhabi, United Arab Emirates. Conference Proceedings no. "SCA 2000-14")**
- SEP 0106** “High Pressure Viscosity and Density Behaviour of Ternary Mixtures: 1-Methylnaphthalene + n-Tridecane + 2,2,4,4,6,8,8-Heptamethylnonane”  
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- SEP 0107** “Size Exclusion Chromatography in the Analysis of Pitch”  
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- SEP 0108** “Development of Petroleum Enhanced Coal Tar Pitch in Europe”  
Nigel R. Turner, Stewart H. Alsop, Olof Malmros, David Whittle, Birgit E. Hansen, Erling H. Stenby and Simon I. Andersen  
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- SEP 0109** “Viscosity Modeling of Associating Fluids Based on the Friction Theory: Pure Alcohols”  
Claus K. Zéberg-Mikkelsen, Sergio E. Quiñones-Cisneros and Erling H. Stenby  
**(Presented at PPEPPD 2001, Ninth International Conference on Properties and Phase Equilibria for Product and Process Design, 20 - 25 May, 2001, Kurashiki, Japan)**  
**(Fluid Phase Equilibria, 194-197 (2002) 1191-1203)**
- SEP 0110** “Multicomponent Adsorption: Principles and Models”  
Alexander A. Shapiro and Erling H. Stenby  
**(Chapter of the book: Adsorption: Theory, Analysis and Modeling, J. Tóth (ed.), Marcel Dekker, NJ, 2002)**
- SEP 0111** “Phase Equilibria for Complex Polymer Solutions”  
Thomas Lindvig, Line L. Hestkjær, Anders F. Hansen, Michael L. Michelsen and Georgios Kontogeorgis  
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**(Fluid Phase Equilibria, 194-197 (2002), 663-673)**
- SEP 0112** “Novel Applications of Thermodynamics with Classical Models”  
Thomas Lindvig, Samer Derawi, Hong Yuan Cheng, Michael L. Michelsen, Erling H. Stenby and Georgios M. Kontogeorgis  
**(Presented at the 3. Greek Scientific Conference of Chemical Engineering, Athens, May 31. - June 2, 2001)**
- SEP 0113** “A Flory-Huggins Model based on the Hansen Solubility Parameters”  
Thomas Lindvig, Michael L. Michelsen and Georgios Kontogeorgis  
**(Fluid Phase Equilibria, 203(1-2) (2002) 247-260)**
- SEP 0114** “Thermodynamics, Impurities, and Kinetics in the Process of Sucrose Crystallisation”  
Angélique Grønborg Rasmussen, Peter Rasmussen, and Lars Bo Jørgensen  
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- SEP 0115** “Sodium Chloride Dihydrate - A Potential Cause of Slippery Accidents”  
Morten Mejlholm, Kaj Thomsen, Peter Rasmussen, Jørgen Vergod, Freddy Knudsen and Hugo Høyer  
**(Presented at the XIth PIARC International Winter Road Congress, Sapporo, Japan, January 28-31, 2002. Proceedings of the Xith PIARC International Winter Road Congress, Sapporo, Japan (2002))**
- SEP 0116** “Prediction of Solid-Gas Equilibria with the Peng-Robinson Equation of State”  
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- SEP 0308** “Comparative Study of Viscosity Models on the Ternary System Methylcyclohexane + cis-Decalin + 2,2,4,4,6,8,8-Heptamethylnonane up to 100 MPa”  
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- 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  
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- 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"  
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- SEP 0320** "Applications of Association Models to Problems of the Oil, Chemical and Polymer Industries"  
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- SEP 0321** "Recent Developments and New Applications of Free-Volume Activity Coefficient Models"  
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- SEP 0323** "Modeling of the Water-Hydrocarbon Interface: Coupling the CPA EOS with the Gradient Theory"  
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- SEP 0324** "Viscosity and Liquid Density of Asymmetric n-Alkane Mixtures: Measurement and Modelling"  
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- SEP 0326** "Measurement and Modeling of Surface Tensions of Asymmetric Systems: Heptane, Eicosane, Docosane, Tetracosane and their Mixtures"  
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- SEP 0327** "A novel approach to liquid-liquid equilibrium in polymer systems with applications to simplified PC-SAFT"  
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- SEP 0328** "A Simplified PC-SAFT Equation of State: Multicomponent Liquid-Liquid Equilibrium in Polymer and Associating Systems"  
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- SEP 0329** "Direct Measurement of High Temperature/High Pressure Solubility of Methane and Carbon Dioxide in Polyamide (PA-11) using a High-Pressure Microbalance"  
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- SEP 0338** “Phase Envelope Calculations for Hydrocarbon-Water Mixtures”  
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- SEP 0344** “Novel Method for Estimating Pure-Component Parameters for Polymers: Application to the PC-SAFT Equation of State”  
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- SEP 0513** “Investigating Equations of State for Associating Fluids Using Spectroscopy”  
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- SEP 0601** “Prediction of viscosities and surface tensions of fuels using a new corresponding states model”  
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- SEP 0602** “Robust and efficient solution procedures for association models”  
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- SEP 0603** “Evaluation of the Truncated Perturbed Chain-Polar Statistical Associating Fluid Theory for Complex Mixture Fluid Phase Equilibria”  
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- SEP 0605** “Thermodynamic Modeling of Acid Gas Solubility in Aqueous Solutions of MEA, MDEA and MEA-MDEA blends”  
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- SEP 0607** “Capabilities, limitations and challenges of a simplified PC-SAFT equation of state”  
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- SEP 0610** “Liquid-liquid equilibria for binary and ternary systems containing glycols, aromatic hydrocarbons and water. Experimental measurements and modeling with the CPA EoS”  
Georgios K. Folas, Georgios M. Kontogeorgis, Michael L. Michelsen, Erling H. Stenby and Even Solbraa  
**(Journal of Chem. Eng. Data, 51(3) (2006) 977-983)**
- SEP 0611** “Ten years with the CPA (Cubic-Plus-Association) equation of state. Part I. Pure compounds and Self-associating system”  
G.M. Kontogeorgis, M.L. Michelsen, G.K. Folas, S.O. Derawi, N. von Solms and E.H. Stenby  
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- SEP 0612** “Ten years with the CPA (Cubic-Plus-Association” equation of state. Part II. Cross-associating and multicomponent systems”  
G.M. Kontogeorgis, M.L. Michelsen, G.K. Folas, S.O. Derawi, N. von Solms and E.H. Stenby  
**(Ind. Eng. Chem. Res., 45(14) (2006) 4869-4878)**
- SEP 0613** “Global Phase Equilibrium Calculations: Critical Lines, Critical End Points and Liquid-Liquid-Vapour Equilibrium in Binary Mixtures”  
Martín Cismondi and Michael L. Michelsen  
**(Replaced by SEP 0704)**
- SEP 0614** “Increasing the Computational Speed of Flash Calculations With Applications for Compositional, Transient Simulations”  
Claus P. Rasmussen, Kristian Krejbjerg, Michael L. Michelsen and Kersti E. Bjurstrøm  
**(SPE 84181 (2006) 32-38)**
- SEP 0615** ”Applied thermodynamics: A new frontier for biotechnology”  
Jørgen Mollerup  
**(Fluid Phase Equilibria, 241 (2006) 205-215)**
- SEP 0616** “The McMillan-Mayer framework and the theory of electrolyte solutions”  
Martin P. Breil and Jørgen M. Mollerup  
**(Fluid Phase Equilibria, 242 (2006) 129-135)**
- SEP 0617** “Comparison of two association models (ESD and simplified PC-SAFT) for complex phase equilibria of hydrocarbon-water and amine-containing mixtures”  
Andreas Grenner, Jürgen Schmelzer, Nicolas von Solms and Georgios M. Kontogeorgis  
**(Industrial & Engineering Chemical Research, 45(24) (2006) 8170-8179)**
- SEP 0618** “Scale-up the chromatographic ion-exchange processes in biotechnology”  
Sattar Al-Jibbouri  
**(Journal of Chromatography A, 1116 (2006) 135-142)**

- SEP 0619** “Diffusion Measurements in Binary Liquid Mixtures by Raman Spectroscopy”  
Rolf W. Berg, Susanne Brunsgaard Hansen, Alexander A. Shapiro and Erling H. Stenby  
**(Applied Spectroscopy, 61(4) (2007) 367-373)**
- SEP 0620** “Elliptic equation for random walks. Application to Transport in Microporous Media”  
Alexander A. Shapiro  
**(Physica A, 375 (2007) 81-96)**
- SEP 0621** “Modeling of CO<sub>2</sub> Absorber Using an AMP Solution”  
Jostein Gabrielsen, Michael L. Michelsen, Erling H. Stenby and Georgios M. Kontogeorgis  
**(AIChE Journal, 52(10) (2006) 3443-3451)**
- SEP 0622** “Comparison of the SRK and CPA equations of state for physical properties of water and methanol”  
Carsten Lundstrøm, Michael L. Michelsen, Georgios M. Kontogeorgis, Karen S. Pedersen and Henrik Sørensen  
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- SEP 0623** “Applications of the simplified perturbed-chain SAFT equation of state using an extended parameter table”  
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- SEP 0624** “Modeling the Liquid-Liquid Equilibria of Water + Fluorocarbons with the Cubic-Plus-Association Equation of State”  
Mariana B. Oliveira, Mara G. Freire, Isabel M. Marrucho, Georgios M. Kontogeorgis, António J. Queimada, João A.P. Coutinho  
**(Ind. Eng. Chem. Res., 46 (2007) 1415-1420)**
- SEP 0625** “Study of Pressure and Temperature Effects on Asphaltene Stability in Presence of CO<sub>2</sub>”  
Sylvain Verdier, Hervé Carrier, Simon I. Andersen and Jean-Luc Daridon  
**(Energy & Fuels, 20 (2006) 1584-1590)**
- SEP 0626** “Efficient Reaction Integration for In-Situ Combustion Simulation”  
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- SEP 0627** “Modeling Adsorption of Binary and Ternary Mixtures on Microporous Media”  
Matias A. Monsalvo and Alexander A. Shapiro  
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- SEP 0628** “The Influence of Salt Type on the Retention of Bovine Serum Albumin in Ion-Exchange Chromatography”  
Sattar Al-Jibbouri  
**(Journal of Chromatography A, 1139 (2007) 57-62)**
- SEP 0629** “Vapor-liquid, liquid-liquid and vapor-liquid-liquid equilibrium of binary and multicomponent systems with MEG modeling with the CPA EoS and an EoS/G(E) model”  
Georgios K. Folas, Georgios Kontogeorgis, Michael L. Michelsen and Erling H. Stenby  
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- SEP 0701** “High-pressure Vapor-liquid Equilibria of Systems Containing Ethylene Glycol, Water and Methane. Experimental Measurements and Modeling”  
Georgios K. Folas, Ole J. Berg, Even Solbraa, Arne O. Fredheim, Georgios K. Kontogeorgis, Michael L. Michelsen and Erling H. Stenby  
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- SEP 0702** “Data and Prediction of Water Content of High Pressure Nitrogen, Methane and Natural Gas”  
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**(Fluid Phase Equilibria, 252 (2007) 162-174)**
- SEP 0703** “CAPE-Open: An international standard”  
Martin P. Breil, Georgios M. Kontogeorgis, Nicolas von Solms and Erling H. Stenby  
**(Chemical Engineering, 114 (2007) 52-55)**
- SEP 0704** “Global Phase Equilibrium Calculations: Critical Lines, Critical End Points and Liquid-Liquid-Vapour Equilibrium in Binary Mixtures”  
Martin Cismondi and Michael L. Michelsen  
**(Journal of Supercritical Fluids, 39 (3) (2007) 287-295)**
- SEP 0705** “Multi Component Equations of State for Electrolytes”  
Yi Lin, Kaj Thomsen and Jean-Charles de Hemptinne  
**(AIChE Journal, 53(4) (2007) 989-1005)**
- SEP 0706** “Solubility of Gases and Solvents in Silicon Polymers: Molecular Simulation and Equation of State Modeling”  
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**(Journal of Molecular Simulation, 33 (2007) 851-860)**
- SEP 0707** “Calculation of the Effect of Macromolecular Architecture on Structure and Thermodynamic Properties of Linear – Tri-Arm Polyethylene Blends from Monte Carlo Simulation”  
Anatassia n. Rissanou, loukas D. Peristeras and Ioannis G. Economou  
**(Polymer, 48 (2007) 3883-3892)**
- SEP 0708** “Application of the CPA Equation of State to Reservoir Fluids in Presence of Water and Polar Chemicals”  
Wei Yan, Georgios M. Kontogeorgis and Erling H. Stenby  
**(Fluid Phase Equilibria, 276(1) (2009) 75-85)**
- SEP 0709** “Application of PC-SAFT to Glycol Containing Systems – PC-SAFT Towards a Group Contribution Method”  
Andreas Grenner, Georgios M. Kontogeorgis, Nicolas von Solms and Michael L. Michelsen  
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- 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  
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- SEP 0713** “Modelling of Associating Mixtures for Applications in the Oil & Gas and Chemical Industries”  
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- 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”  
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- SEP 0715** “Measurement and Modelling of Hydrogen Bonding in 1-alkanol + *n*-alkane Binary Mixtures”  
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- SEP 0716** “Experimental Validation of a Rate-based Model for CO<sub>2</sub> Capture Using an AMP Solution”  
J. Gabrielsen, H. F. Svendsen, M. L. Michelsen, E. H. Stenby and G. M. Kontogeorgis  
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- SEP 0717** ”Experimental Investigation of Liquid Chromatography Columns by Means of Computed Tomography”  
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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  
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- SEP 0719** “Adsorption of Amylase Enzyme on Ultrafiltration Membranes”  
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**(Langmuir, 23(18) (2007) 9341-9351)**
- SEP 0720** “The Hansen Solubility Parameters (HSP) in Thermodynamic Models for Polymer Solutions”  
Georgios M. Kontogeorgis  
**(Chapter in the book “Hansen Solubility Parameters – A user’s handbook” by Charles Hansen, CRC Press, 2<sup>nd</sup> edition, 75-94)**
- SEP 0721** “A Splitting Technique for Analytical Modelling of Two Phase Multicomponent Flow in Porous Media”  
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- SEP 0722** “Study of the Solubility of a Modified *Bacillus licheniformis*  $\alpha$ -Amylase around the Isoelectric Point”  
Cornelius Faber, Timothy J. hobley, Jørgen Mollerup, Owen R. T. Thomas, and Svend G. Kaasgaard  
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- SEP 0723** “Adhesion between coating layers based on epoxy and silicone”  
Jacob R. Svendsen, Georgios M. Kontogeorgis, Søren Kiil, Claus E. Weinell, and Martin Grønlund  
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- SEP 0724** “Coupling Chemical Kinetics and Flashes in Reactive, Thermal and Compositional Reservoir Simulation”  
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**(SPE 106218, In Proceedings of the SPE Reservoir Simulation Symposium, Houston, Texas, USA, February 26-28, 2007)**
- SEP 0725** “Gas Transport in Tight Porous Media. Gas Kinetic Approach”  
A. A. Shapiro, and J. A. Wesselingh  
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- SEP 0726** “Prediction of Adsorption from Liquid Mixtures in Microporous Media by the Potential Theory”  
Matias A. Monsalvo, and Alexander A. Shapiro  
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- 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  
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- SEP 0730** “Efficient Integration of Stiff Kinetics with Phase Change Detection for Reactive Reservoir Processes”  
Morten R. Kristensen, Margot G. Gerritsen, Per G. Thomsen, Michael L. Michelsen, and Erling H. Stenby  
(**Transport in Porous Media**, **69** (2007) 383-409)
- SEP 0731** “A Predictive Group-Contribution Simplified PC-SAFT Equation of State: Application to Polymer Systems”  
Amra Tihic, Georgios M. Kontogeorgis, Nicolas von Solms, and Michael L. Michelsen  
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- SEP 0732** “Measurement and Modelling of the Mixed Solvent Electrolyte System Na<sub>2</sub>CO<sub>3</sub>-NaHCO<sub>3</sub>-Mono Ethylene Glycol-Water”  
Philip L. Fosbøl, Kaj Thomsen, and Erling H. Stenby  
(**Replaced by SEP 0901, 0903 and 0910**)
- SEP 0733** “Predictions of Flavonoid Solubility in Ionic Liquids by COSMO-RS: Experimental Verification, Structural Elucidation, and Solvation Characterization”  
Zheng Guo, Bena-Marie Lue, Kaj Thomsen, Anne Boye Strunge Meyer, and Xuebing Xu  
(**Green Chemistry**, **9** (2007) 1362-1373)
- SEP 0734** “Review and Recommended Thermodynamic Properties of FeCO<sub>3</sub>”  
Philip L. Fosbøl, Kaj Thomsen, and Erling H. Stenby  
(**Corrosion Engineering, Science and Technology**, **45**(2) (2010) 115-135)

- SEP 0735** “Automated Calculation of Complete Pxy and Txy Diagrams for Binary Systems”  
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**(Fluid Phase Equilibria, 259 (2007) 228-234)**
- SEP 0736** “Evaluation of the Non-Random Hydrogen Bonding (NRHB) Theory and the Simplified Perturbed-Chain-Statistical Associating Fluid Theory (sPC-SAFT) 1. Vapor-Liquid Equilibria”  
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**(Industrial and Engineering Chemistry Research, 47(15) (2008) 5651-5659)**
- SEP 0738** “Propane Hydrate Nucleation: Experimental Investigation and Correlation”  
Lars Jensen, Kaj Thomsen, and Nicolas von Solms  
**(Chemical Engineering Science, 63 (2008) 3069-3080)**
- SEP 0739** “Development, Modeling, Optimization and Scale-up of Chromatographic Purification of a Therapeutic Protein”  
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- SEP 0740** “The Thermodynamic Principles of Ligand Binding in Chromatography and Biology”  
Jørgen M. Møllerup  
**(Journal of Biotechnology, 132 (2007) 187-195)**
- SEP 0741** “CO<sub>2</sub> Capture and Storage”  
Amit Garg, Lars R. Appelquist, and Erling H. Stenby  
**(Risø Energy Report, 6 (2007) 25-29)**
- SEP 0742** “Study of Asphaltene Precipitation by Calorimetry”  
Sylvain Verdier, Frédéric Plantier, David Bessières, Simon I. Andersen, Erling H. Stenby, and Hervé Carrier  
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- 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  
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- SEP 0744** “Calculation of the Interfacial Tension of the Methane-Water System with the Linear Gradient Theory”  
Kurt A. G. Schmidt, Georgios K. Folas, and Bjørn Kvamme  
**(Fluid Phase Equilibria, 261 (2007) 230-237)**
- SEP 0745** “A Computational Efficient and Robust Implementation of the Continuous-Discrete Extended Kalman Filter”  
John Bagterp Jørgensen, Per Grove Thomsen, Henrik Madsen, and Morten Rode Kristensen  
**(Proceeding of the American Control Conference, New York City, USA, 11-13 July, 20078)**
- SEP 0746** “Equilibria in the Mixed Solvent System Glycol-NaOH-CO<sub>2</sub>-Water Applied to Corrosion Modelling”  
Philip Loldrup Fosbøl, Kaj Thomsen, and Erling H. Stenby  
**(ECCE6 proceedings, vol. 1 (2007) 137)**
- SEP 0747** “Classical and Recent Free-Volume Models for Polymer Solutions: A Comparative Evaluation”  
Hamid Reza Radfarnia, Georgios M. Kontogeorgis, Cyrus Ghotbi, Vahid Taghikhani  
**(Fluid Phase Equilibria, 257 (2007) 63-69)**
- SEP 0748** “Solvent Phenomena in Association Theories with Applications to Oil & Gas and Chemical Industries”  
Georgios M. Kontogeorgis, Georgios K. Folas, Nuria Muro-Sune, Ferran Roca Leon, and Michael L. Michelsen  
**(Oil & Gas Science and Technology-Revue De L Institut Francais Du Petrole, 63(3) 305-319)**
- SEP 0749** “Phase Equilibrium Calculations for Multi-Component Polar Fluid Mixtures with tPC-PSAFT”  
Eirini K. Karakatsani, and Ioannis G. Economou  
**(Fluid Phase Equilibria, 261 (2007) 265-271)**

- SEP 0801** “Quality by design – Thermodynamic Modelling of Chromatographic Separation of Proteins”  
Jørgen M. Møllerup, Thomas Budde Hansen, Steffen Kidal, and Arne Staby  
**(Journal of Chromatography A, 1177 (2008) 200-206)**
- SEP 0802** ”Modeling Systems Containing Alkanolamines with the CPA Equation of State”  
Ane S. Avlund, Georgios M. Kontogeorgis, and Michael L. Michelsen  
**(Industrial & Engineering Chemistry Research, 47(19) (2008) 7441-7446)**
- SEP 0803** “Fractional Flow Model for Suspension Transport in Porous Media (for Petroleum and Environmental Engineering)  
Pavel Bedrikovetsky and Alexander Shapiro  
**(Oral presentation at the 10<sup>th</sup> World Filtration Congress, Leipzig, Germany, 14-18 April, 2008, Conference proceedings)**
- SEP 0804** “Phase Equilibrium Modelling for Mixtures with Acetic Acid using an Association Equation of State”  
Núria Muro-Suñe, Georgios M. Kontogeorgis, Nicolas von Solms, and Michael L. Michelsen  
**( Industrial & Engineering Chemistry Research,47 (2008) 5660-5668)**
- SEP 0805** “Modelling of Phase Equilibria of Surfactant Mixtures using an Association Model”  
Nuno M. F. Garrido, Georgios K. Folas and Georgios M. Kontogeorgis  
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Georgios M. Kontogeorgis, and Martin E. Vigild  
**(Chemical Engineering Education, 43(2) (2009) 137-142)**
- SEP 0807** “Multi-Scale Modeling of Structure, Dynamic and Thermodynamic Properties of Imidazolium-Based Ionic Liquids: Ab Initio DFT Calculations, Molecular Simulation and Equation of State Predictions”  
I. G. Economou, E. K. Karakatsani, G. –E. Logotheti, J. Ramos, and A. Vanin  
**(Oil & Gas Science and Technology, 63(3) (2008) 283-293)**
- SEP 0808** “Hydrolysis of Cellulose Using Mono-Component Enzymes Shows Synergy during Hydrolysis of Phosphoric Acid Swollen Cellulose (PASC), but Competition on Avicel”  
Natalija Andersen, Katja S. Johansen, Michael L. Michelsen, Erling H. Stenby, Kristian B.R.M. Krogh, and Lisbeth Olsson  
**(Enzyme and Microbial Technology, 42 (2008) 362-370)**
- SEP 0809** “Random-Walk Description of Suspension Transport in Porous Media”  
Pavel Bedrikovetsky, and Alexander Shapiro  
**(Submitted for presentation at ICTAM 2008)**



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

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

- SEP 0828** “The Influence of CO<sub>2</sub> Solubility in Brine on CO<sub>2</sub> Flooding Simulation”  
Wei Yan, and Erling H. Stenby  
**(Presented at the International Energy Agency (IEA) 29<sup>th</sup> Annual  
Workshop & Symposium , Beijing, China, November 3-5, 2008)**
- SEP 0829** “Interactions Between Asphaltenes and Water in Solutions in Toluene”  
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- SEP 0901** “Reverse Schreinemakers Method for Experimental Analysis of Mixed-Solvent Electrolyte Systems”  
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- SEP 0902** “Reaction Kinetics of Acetone Peroxide Formation and Structure Investigations Using Raman Spectroscopy and X-ray Diffraction”  
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- SEP 0903** “Solubility Measurements in the Mixed Solvent Electrolyte System Na<sub>2</sub>CO<sub>3</sub>-NaHCO<sub>3</sub>-Monoethylene Glycol-Water”  
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- 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  
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- SEP 0907** “Inhibition of Methane Hydrate Formation by Ice-Structuring Proteins”  
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- SEP 0908** “Addition of Malodorants to Lighter Gas – The Phase Equilibrium properties of Mixtures of Lighter Gas and Selected Substances”  
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- SEP 0909** “A Stochastic Theory for Deep Bed Filtration Accounting for Dispersion and Size Distributions”  
A. A. Shapiro and P. G. Bedrikovetsky  
**(Physica A, 389 (2010) 2473-2494)**
- SEP 0910** “Modeling of the Mixed Solvent Electrolyte System CO<sub>2</sub> – Na<sub>2</sub>CO<sub>3</sub> - NaHCO<sub>3</sub> - Monoethylene Glycol – Water”  
Philip L. Fosbøl, Kaj Thomsen, and Erling H. Stenby  
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- SEP 0911** “Phase Equilibria of Mixtures Containing Glycols and the n-Alkanes: Experimental Study of Infinite Dilution Activity Coefficients and Modeling using the Cubic-Plus-Association Equation of State”  
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**(Energy and Fuels, 23(2) (2009) 811-819)**
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- SEP 0914** “Preparation and Structural Characterisation of Novel and Versatile Amphiphilic Octenyl Succinic Anhydride-Modified Hyaluronic Acid Derivatives”  
Corinne Eenschooten, Fanny Guillaumie, Georgios M. Kontogeorgis, Erling H. Stenby, Khadija Schwach-Abdellaoui  
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- SEP 0915** “Errata: “Evaluation of the Nonrandom Hydrogen Bonding (NRHB) Theory and the Simplified Perturbed-Chain-Statistical Association Fluid Theory (sPC-SAFT). 2. Liquid-Liquid Equilibria and Prediction of Monomer Fraction in Hydrogen Bonding Systems”  
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- SEP 0917** “Extended UNIQUAC Model for Thermodynamic Modeling of CO<sub>2</sub> Absorption in Aqueous Alkanolamine Solutions”  
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- SEP 0918** “Estimation of the Impact of Sulfur Species on Glycol Dehydration”  
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- SEP 0919** “Experimental Study and Phase Equilibrium Modeling of Systems Containing Acid Gases and Glycols using the Cubic-Plus-Association EoS”  
Waheed Afzal, Martin P. Breil, Ioannis Tsivintzelis, Amir H. Mohammadi, Georgios M. Kontogeorgis, and Dominique Richon  
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- SEP 0920** “Modeling Phase Equilibria for Acid Gas Mixtures using the CPA Equation of State. Part I. Mixtures with H<sub>2</sub>S”  
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**(AIChE Journal, 56(11) (2010) 2965-2982)**
- SEP 0921** “Absorber Model for CO<sub>2</sub> Capture by Monoethanolamine”  
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Georgios M. Kontogeorgis, Michael L. Michelsen, and Karsten H. Clement  
**(Chemical Engineering Education, (2009) 70-78)**
- SEP 0923** “The Effects of Possible Contamination on the Radiocarbon Dating of the Dead Sea Scrolls II: Empirical Methods to Remove Castor Oil and Suggestions for Redating”  
Kaare Lund Rasmussen, Johannes van der Plicht, Gregory Doudna, Frederik Nielsen, Peter Højrup, Erling Halfdan Stenby, and Carl Th Pedersen  
**(Radiocarbon, 51(3) (2009) 1005-1022)**
- SEP 0924** “CO<sub>2</sub> Capture from Flue Gas using Amino Acid Salt Solutions”  
Benedicte Mai Lerche, Erling H. Stenby, and Kaj Thomsen  
**(Risø International Energy Conference, 2009 Energy solutions for CO<sub>2</sub> Emission Peak and subsequent decline. Proceedings)**
- SEP 0925** “Thermodynamic Modeling of Water-Acid Gases-Alkanolamine Systems”  
Negar Sadegh, Kaj Thomsen, Erling H. Stenby, and Georgios Kontogeorgis  
**(Presented at the 9<sup>th</sup> AIChE Annual Meeting 2009, Nashville, TN, USA)**
- SEP 0926** “Thermodynamics of Irreversible Processes Enhanced by Mixed Solvent Electrolyte Activity Coefficient Models”  
Philip L. Fosbøl, Kaj Thomsen, and Erling H. Stenby  
**(Poster presentation and proceedings from JETC10, (2009) Copenhagen, Denmark)**
- SEP 0927** “Energy Demand for CO<sub>2</sub> Solvent Regeneration”  
Philip L. Fosbøl, Kaj Thomsen, and Erling H. Stenby  
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- SEP 0928** “Chilled Ammonia Process for CO<sub>2</sub> Capture”  
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**(International Journal of Greenhouse Gas Control, 4(2) (2010) 131-136)**
- SEP 0929** “1D Simulations for Microbial Enhanced Oil Recovery with Metabolite  
partitioning”  
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- CERE 1001** “Vapor-Liquid Equilibrium Measurements and Modeling of the Propyl Mercaptan + Methane + Water System”  
Javeed A. Awan, Kaj Thomsen, Christophe Coquelet, Philip L. Fosbøl, and Dominique Richon  
**(Journal of Chemical Engineering Data, 55, (2010) 842-846)**
- CERE 1002** “Biot’s Coefficient as an Indicator of Strength and Porosity Reduction: Calcareous Sediments from Kerguelen Plateau”  
Mohammad Monzurul Alam, Mai Kristine Borre, Ida Lykke Fabricius, Kathrine Hedegaard, Birte Røgen, Zakir Hossain, Anette Susanne Krogsbøll  
**(Journal of Petroleum Science and Engineering, 70 (2010) 282-297)**
- CERE 1003** “Use of Monomer Fraction Data in the Parametrization of Association Theories”  
Georgios M. Kontogeorgis, Ioannis Tsivintzelis, Nicolas von Solms, Andreas Grenner, David Bøgh, Michael Frost, Anders Knage-Rasmussen, and Ioannis G. Economou  
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- CERE 1004** “Improved Oil Recovery in Chalk: Wettability Alteration or Something Else?”  
Adeel Zahid, Erling H. Stenby, and Alexander A. Shapiro  
**(SPE 131300, prepared for presented at the SPE EUROPEC/EAGE Annual Conference and Exhibition held in Barcelona, Spain, 14-17 June, 2010)**
- CERE 1005** “Comparison of Activity Coefficient Models for Electrolyte Systems”  
Yi Lin, Antoon ten Kate, Miranda Mooijer, Javier Delgado, Philip Loldrup Fosbøl, and Kaj Thomsen  
**(AIChE Journal, 56(5) (2010) 1334-1352)**
- CERE 1006** “Evaluation of the CO<sub>2</sub> Behavior in Binary Mixtures with Alkanes, Alcohols, Acids and Esters Using the Cubic-Plus-Association Equation of State”  
Mariana B. Oliveira, António José Queimada, Isabel M. Marrucho, Georgios M. Kontogeorgis, and João A.P. Coutinho  
**(Journal of Supercritical Fluids, 55 (2011) 876-892)**
- CERE 1007** “Upscaling of Two-Phase Immiscible Flows in Communicating Stratified Reservoirs”  
Xuan Zhang, Alexander Shapiro, and Erling H. Stenby  
**(Transport in Porous Media, 87 (2011) 739-764 – DOI: 10.1007/s11242-011-9713-1)**
- CERE 1008** “Modeling Non-Fickian Transport and Hyperexponential Deposition for Deep Bed Filtration”  
Hao Yuan, and Alexander A. Shapiro  
**(Chemical Engineering Journal, 162 (2010) 974-988)**



- CERE 1009** “In-Situ Phase Identification and Saturation Determination in Carbon Dioxide Flooding of Water Flooded Chalk Using X-ray Computed Tomography”  
Ben Niu, Wei Yan, Alexander A. Shapiro, and Erling H. Stenby  
**(SPE 129760 – paper presented at the 17th SPE Improved Oil Recovery Symposium, Oklahoma, USA, April, 2010)**
- CERE 1010** “Coupling Miscible Flow and Geochemistry for Carbon Dioxide Flooding into North Sea Chalk Reservoir”  
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**(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  
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- CERE 1013** “Compositional Simulation of In-Situ Combustion EOR: A Study of Process Characteristics”  
Priyanka Jain, Erling H. Stenby, and Nicolas von Solms  
**(SPE 129869, presented at the 2010 SPE Improved Oil Recovery Symposium , Tulsa, Oklahoma, USA, 24-28 April, 2010)**
- CERE 1014** “Calculation of Liquid Water-Hydrate-Methane Vapor Phase Equilibria from Molecular  
Lars Jensen, Kaj Thomsen, Nicolas von Solms, Scott Wierzchowski, Matthew R. Walsh, Carolyn A. Koh, E. Dendy Sloan, David T. Wu, and Amadeu K. Sum  
**(J. Phys. Chem. B, 114, (2010) 5775-5782)**
- CERE 1015** “Towards Predictive Association Theories”  
Georgios M. Kontogeorgis, Ioannis Tsvintzelis, Michael L. Michelsen, and Erling H. Stenby  
**(Fluid Phase Equilibria, 301 (2011) 244-256)**
- CERE 1016** “Elastic Moduli of Dry and Water- Saturated Carbonates – Effect of Depositional Texture, Porosity, and Permeability”  
Ida L. Fabricius, Gregor T. Bächle, and Gregor P. Eberli  
**(Geophysics, 75(3) (2010) N65-N78)**

- CERE 1017** “Industrial Requirements for Thermodynamics and Transport Properties”  
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- CERE 1018** “Analysis and Application of GC<sup>Plus</sup> Models for Property Prediction of Organic Chemical Systems”  
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- CERE 1019** “Equations of State: From the Ideas of van der Waals to Association Theories”  
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- CERE 1020** “High-Pressure Fluid-Phase Equilibria: Experimental Methods and Systems Investigated (2000-2004)”  
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- CERE 1021** “An Explanation of the Selective Plating of Laser Machined Surfaces using Surface Tension Components”  
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- 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”  
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- CERE 1023** “Experimental Determination and Modeling of the Phase Behavior for the Selective Oxidation of Benzyl Alcohol in Supercritical CO<sub>2</sub>”  
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**(Fluid Phase Equilibria, 302 (2011)83-92)**
- CERE 1024** “Mutual Solubility of MEG, Water and Reservoir Fluid: Experimental Measurements and Modeling Using the CPA Equation of State”  
Muhammad Riaz, Georgios M. Kontogeorgis, Erling H. Stenby, Wei Yan, Toril Haugum, Kjersti O. Christensen, Even Solbraa, and Torbjørn V. Løkken  
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- CERE 1025** “Partition Coefficients of Organic Molecules in Squalane and Water/Ethanol Mixtures by Molecular Dynamics Simulations”  
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- CERE 1026** “Design of a Eutectic Freeze Crystallization Process for Multicomponent Waste Water Stream”  
A.E. Lewis, J. Nathoo, K. Thomsen, H.J. Kramer, C.J. Witkamp, S.T. Reddy, and D.G. Randall  
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- CERE 1027** “Application of Association Models to Mixtures Containing Alkanolamines”  
Ane S. Avlund, Daniel K. Eriksen, Georgios M. Kontogeorgis, and Michael L. Michelsen  
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- CERE 1028** “Modelling of the Thermodynamics of the Acetic Acid-Water Mixture using the CPA Equation of State”  
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- 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  
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- 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  
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- CERE 1031** “Modeling Phase Equilibria for Acid Gas Mixtures using the CPA Equation of State. Part II. Binary Mixtures with CO<sub>2</sub>”  
Ioannis Tsvintzelis, Georgios M. Kontogeorgis, Michael L. Michelsen, and Erling H. Stenby  
**(Fluid Phase Equilibria, 306 (2011) 38-56)**
- CERE 1032** “Solid-liquid Equilibria for Binary and Ternary Systems with the Cubic-Plus-Association (CPA) Equations of State”  
André Fettouhi, and Kaj Thomsen  
**(Fluid Phase Equilibria, 293 (2010) 121-129)**
- CERE 1033** “Biot Critical Frequency Applied to Description of Failure and Yield of Highly Porous Chalk with Different pore Fluids”  
Katrine Alling Andreassen, and Ida Lykke Fabricius  
**(Geophysics, 75(6) (2010) E205-E213)**
- CERE 1034** “Rock Physics Model of Glauconitic Greensand from the North Sea”  
Z. Hossain, T. Mukerji, J. Dvorkin, and I.L. Fabricius  
**(Geophysics, 76 (2011) E199-E209)**

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

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

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

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

- CERE 1121** “30 Years with EoS/G<sup>E</sup> Models – what have we learnt?”  
Georgios M. Kontogeorgis, and Philippos Coutsikos  
**(Industrial & Engineering Chemistry Research, 51(11) (2012) 4119-4142)**
- CERE 1122** “Experimental measurement and modeling of the rate of absorption of carbon dioxide by aqueous ammonia”  
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**(International Journal of Greenhouse Gas Control, 5 (2011) 1149-1162)**
- CERE 1123** “Gravity Effect on Two-Phase Immiscible Flows in Communicating Layered Reservoirs”  
Xuan Zhang, Alexander Shapiro, and Erling H. Stenby  
**(Transport in Porous Media, 92 (2012) 767-788)**
- CERE 1124** “Sampling informative/complex a priori probability distributions using Gibbs sampling assisted by sequential simulation”  
Thomas Mejer Hansen, Klaus Mosegaard, and Knud Skou Cordua  
**(Presented at IAMG 2010, Budapest, Ungarn)**
- CERE 1125** “CO<sub>2</sub> capture using aqueous ammonia: kinetic study and process simulation”  
Victor Darde, Willy J.M. van Well, Erling H. Stenby, and Kaj Thomsen  
**(Journal Energy Procedia, 4 (2011) 1443-1450)**
- CERE 1126** “Selective oxidation of benzyl alcohol in dense CO<sub>2</sub>: insight by phase behavior modeling”  
Matthias Josef Beier, Jan-Dierk Grunwaldt, Ioannis Tsivintzelis, Anker D. Jensen, Georgios M. Kontogeorgis, and Alfons Baiker  
**(Journal of Supercritical Fluids, 63 (2012) 199-207)**
- CERE 1127** “Estimation of Chromatographic Columns Performances using Computer Tomography and CFD Simulations”  
Irma Schmidt, Florian Lottes, Mirjana Minceva, Wolfgang Arlt, and Erling H. Stenby  
**(Chemie Ingenieur Technik, 83 (1-2) (2011) 130-142)**
- CERE 1128** “Phase Equilibria of Three Binary Mixtures; Methyl mercaptan + Methane, Methyl mercaptan + Nitrogen and Methyl mercaptan + Carbon dioxide; Experimental data & Modeling”  
Javeed Awan, Ioannis Tsivintzelis, Christophe Coquelet, and Georgios M. Kontogeorgis  
**(Journal of Chemical & Engineering Data, 57 (2012) 896-901)**
- CERE 1129** “Implementation of Extended UNIQUAC for Electrolyte Systems as a User Model in Aspen Plus”  
Bjørn Maribo-Mogensen, Victor Darde, Philip Loldrup Fosbøl, Kaj Thomsen, and Georgios M. Kontogeorgis  
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- CERE 1130** “Colloid Transport and Retention: Recent Advances in Colloids Filtration Theory”  
Hao Yuan, and Alexander A. Shapiro  
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- CERE 1131** “Corrigendum to “VISIM: Sequential simulation for linear inverse problems”  
Thomas Mejer Hansen, and Klaus Mosegaard  
**(Computers & Geosciences, 37(7) (2011) 973-974)**
- CERE 1132** “Review of the Upper Jurassic-Lower Cretaceous Stratigraphy in Western Cameros Basin, Northern Spain”  
P. Clemente  
**(Revista de la Sociedad Geológica de España, 23 (2010) 101-143)**
- CERE 1133** “Integrated seismic analysis of the Chalk Group in eastern Denmark - Implications for estimates of maximum palaeo-burial in southwest Scandinavia”  
Lars Nielsen, Lars Ole Boldreel, Thomas Mejer Hansen, Holger Lykke-Andersen, Lars Stemmerik, Finn Surlyk, and Hans Thybo  
**Tectonophysics - 2011, 511(1-2), (2011) 14-26)**
- CERE 1134** “Aqueous Solubility of Piperazine and 2-Amino-2-methyl-1-propanol plus Their Mixtures Using an Improved Freezing-Point Depression Method”  
Philip Loldrup Fosbøl, Randi Neerup, Muhammad Waseem Arshad, Zacarias Tecele, and Kaj Thomsen  
**(J. Chem. Eng. Data, 56 (2011) 5088-5093)**
- CERE 1135** “Lipid Processing Technology: Building a Multilevel Modeling Network”  
Carlos A. Diaz-Tovar, Azizul A. Mustaffa, Amol Hukkerikar, Alberto Quaglia, Guerkan Sin, Georgios Kontogeorgis, Bent Sarup, and Rafiqul Gani  
**(Presented at 21<sup>st</sup> European Symposium on Computer Aided Process Engineering Book Series: Computer-Aided Chemical Engineering, 29 (2011) 256-260)**
- CERE 1136** “Oil Reservoir Production Optimization using Optimal Control”  
Carsten Völcker, John Bagterp Jørgensen, and Erling H. Stenby  
**(Presented at the 50<sup>th</sup> IEEE Conference on Decision and Control and European Control Conference (CDC-ECC), Orlando, FL. USA, December 12-15, 2011, 978-1-61284-799-3/11)**
- CERE 1137** “Comparison of the Debye-Hückel and the Mean Spherical Approximation Theories for Electrolyte Solutions”  
Bjørn Maribo-Mogensen, Georgios M. Kontogeorgis, and Kaj Thomsen  
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- CERE 1138** “Limits to Nonlinear Inversion. In: Kristján Jónasson (ed.)”  
K. Mosegaard  
**(Applied Parallel and Scientific Computing, 10<sup>th</sup> International Conference, PARA 2110, Reykjavik, Iceland, June 6-9, 2010: Revised Selected Papers, Part 1. Springer, 2012 11-21 (Lecture Notes in Computer Science; No. Part 1, Vol 7133))**
- CERE 1139** “Quest for consistency, symmetry, and simplicity – The legacy of Albert Tarantola”  
K. Mosegaard  
**(Geophysics 76, W51 (2011); doi: 10.1190/geo2010-0328.1)**
- CERE 1140** “Inverse problems with non-trivial priors: Efficient solution through Sequential Gibbs Sampling”  
Thomas Mejer Hansen, Klaus Mosegaard, and Knud Skou Cordua  
**(Computational Geosciences, 16(3) (2012) 593-611)**

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

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

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

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

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

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



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

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

- CERE 1317** “Multiple Scenario Inversion of Reflection Seismic Prestack Data”  
Thomas Mejer Hansen, Knud Skou Cordua, and Klaus Mosegaard  
**(Presented at 74<sup>th</sup> EAGE Conference & Exhibition incorporation SPE EUROPEC 2012, Copenhagen, Denmark, 4-7 June, 2012)**
- CERE 1318** “Heat of Absorption of CO<sub>2</sub> in Aqueous Solutions of DEEA, MAPA and their Mixture”  
Muhammad Waseem Arshad, Nicolas von Solms, Kaj Thomsen, and Hallvard Fjøsne Svendsen  
**(Energy Procedia, 37 (2013) 1532-1542)**  
**(Presented at the 11<sup>th</sup> International Conference on Greenhouse Gas Technologies (GHGT-11), Kyoto, Japan, 18-22 November, 2012)**
- CERE 1319** “Freezing Point Depressions of Phase Change CO<sub>2</sub> Solvents”  
Muhammad Waseem Arshad, Philip Loldrup Fosbøl, Nicolas von Solms, and Kaj Thomsen  
**(Journal of Chemical & Engineering Data, 58 (2013) 1918-1926)**
- CERE 1320** “Heat of Absorption of CO<sub>2</sub> in Phase Change Solvents: DEEA and MAPA”  
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- CERE 1325** “Thermodynamic Promotion of Carbon Dioxide Clathrate Hydrate Formation – An Experimental Study”  
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- 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”  
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- CERE 1327** ”Simulations of Microbial Enhanced Oil Recovery: Adsorption and Filtration”  
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- CERE 1328** “Study of Wettability of Calcite Surfaces using Oil-Brine-Enzyme Systems for Enhanced Oil Recovery Applications”  
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- CERE 1330** “Comparing the CAPCO<sub>2</sub> Software to CASTOR pilot plant data Advanced thermodynamic models in rate based modeling”  
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- CERE 1334** “A Comprehensive Framework for Surfactant Selection and Design for Emulsion Based Chemical Product Design”  
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- CERE 1335** “The Role of Monomer Fraction Data in Association Theories – can we improve the Performance for Phase Equilibria Calculations?”  
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- CERE 1346** “Equivalent Pore Radius and Velocity of Elastic Waves in Shale. Skjold Flank-1 Well, Danish North Sea”  
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- CERE 1347** “Permeability, Compressibility and Porosity of Jurassic Shale from the Norwegian-Danish Basin”  
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- CERE 1351** “Fluid Phase Equilibria during Propylene Carbonate Synthesis from Propylene Oxide in Carbon Dioxide Medium”  
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- CERE 1355** “Speeding Up Compositional Reservoir Simulation through an Efficient Implementation of Phase Equilibrium Calculation”  
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- CERE 1408** “Antifreeze Activity Enhancement by Site Directed Mutagenesis on an Antifreeze Protein from the Beetle *Rhagium Mordax*”  
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- CERE 1414** ”Petroleum Geology of the Campos and Santos Basins, Lower Cretaceous Brazilian Sector of the South Atlantic Margin”  
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- CERE 1424** “Modeling Water Saturation Points in Natural Gas Streams Containing CO<sub>2</sub> and H<sub>2</sub>S – Comparisons with different Equations of State”  
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- CERE 1442** “Microbial Enhanced Oil Recovery – A Mathematical Study of the Potential of Spore-forming Bacteria”  
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- CERE 1443** “Petrobras’ Process Simulator and Cubic Plus Association (CPA) Equation of State: A Tool for Flow Assurance Projects”  
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- 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  
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- CERE 1503** “Hydrate Equilibrium Data for the CO<sub>2</sub>-N<sub>2</sub> System with the use of Tetra-n-butylammonium Bromide (TBAB), Cyclopentane (CP) and their Mixture”  
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- CERE 1505** “A Comment on Water’s Structure using Monomer Fraction Data and Theories”  
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- CERE 1506** “Vapor Liquid Equilibrium Measurements and Modeling of 1-propanethiol + 1-butanethiol + CH<sub>4</sub> Ternary System at 303, 335 and 368 K with a Pressure Variation from 1 to 9 MPa”  
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- CERE 1507** “Determination of Asphaltene Onset Conditions using the Cubic Plus Association Equation of State”  
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- CERE 1508** “Permeability in Rotliegend Gas Sandstones to Gas and Brine as Predicted from NMR, Mercury Injection and Image Analysis”  
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- 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  
**(Journal of Petroleum Science and Engineering, 133 (2015) 444-454)**

- CERE 1517** “Modeling Derivative Properties and Binary Mixtures with CO<sub>2</sub> using the CPA and the Quadrupolar CPA Equations of State”  
Martin Gamél Bjørner, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 408 (2016) 151-169)**
- CERE 1518** “Modeling the Liquid-Liquid equilibrium of Petroleum Fluid and Polar Compounds Containing Systems with the PC-SAFT Equation of State”  
Xiaodong Liang, Wei Yan, Kaj Thomsen, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 406 (2015) 147-155)**
- CERE 1519** “Importance of Fines in Smart Water Enhanced Oil Recovery “SmW-EOR) for Chalk Outcrops”  
Krishna Hara Chakravarty, Philip Loldrup Fosbøl, and Kaj Thomsen  
**(Submitted for publication)**
- CERE 1520** “Modeling the Binary System Mn(NO<sub>3</sub>)<sub>2</sub> – H<sub>2</sub>O with the Extended Universal Quasichemical (UNIQUAC) model”  
Mouad Arrad, Mohammed Kaddami, Jaafar Maous, and Kaj Thomsen  
**(Fluid Phase Equilibria, 397 (2015) 126-130)**
- CERE 1521** “Risk Associated with the Decompression of High Pressure High Temperature (HP/HT) Fluids – Study on Pure Liquid Water”  
D.C. Figueroa, P.L. Fosbøl, K. Thomsen  
**(SPE-173846-MS. 2015)**
- CERE 1522** “Phase Equilibrium of North Sea Oils with Polar Chemicals: Experiments and CPA Modeling”  
Michael Frost, Georgios M. Kontogeorgis, Nicolas von Solms, Toril Haugum, and Even Solbraa  
**(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<sub>2</sub> Capture Case-study”  
Jozsef Gaspar, and Philip Loldrup Fosbøl  
(**Chemical Engineering Science, 138 (2015) 203-215**)
- CERE 1527** “Microbial Enhanced Oil Recovery – A Modeling Study of the Potential of Spore-forming Bacteria”  
S. M. Nielsen, I. Nesterov, and A. A. Shapiro  
(**Computational Geosciences, 20 (2016) 567-580**)
- CERE 1528** ”Rate Dependence of Dry, Oil- or Water-saturated Chalk”  
K. A. Andreassen, and A. Al-Alwan  
(**Presented at 49<sup>th</sup> US Rock Mechanics/Geomechanics Symposium, San Francisco, USA, June, 2015**)
- CERE 1529** “Oil and Gas Pipelines with Hydrophobic Surfaces better Equipped to Deal with Gas Hydrate Flow Assurance Issues”  
Christine Malmos Perfeldt, Hassan Sharifi, Nicolas von Solms, and Peter Englezos  
(**Journal of Natural Gas Science and Engineering, 27 (2015) 852-861**)
- CERE 1530** “The Phase Envelope of Multicomponent Mixtures in the Presence of a Capillary Pressure Difference”  
Diego Sandoval, Wei Yan, Michael L. Michelsen, Erling H. Stenby  
(**Ind. Eng. Chem. Res., 55 (2016) 6530-6538**)
- CERE 1531** “Risk Associated With The Decompression Of High Pressure High Temperature Fluids – Study On Black Oil”  
D.C. Figueroa, P.L. Fosbøl, and K. Thomsen  
(**SPE-173846-MS (2015)**)
- CERE 1532** “Uncertainty Analysis of the CPA and a Quadrupolar CPA Equation of State – With emphasis on CO<sub>2</sub>”  
Martin Gamél Bjørner, Gürkan Sin, and Georgios M. Kontogeorgis  
(**Fluid Phase Equilibria, 414 (2016) 29-47**)
- CERE 1533** “Nonlinear Multigrid for Reservoir Simulation”  
Max la Cour Christensen, Klaus Langgren Eskildsen, Allan Peter Ensig-Karup, Mark Wakefield  
(**SPE 178428**)
- CERE 1534** “Qualification of Polymer Materials for High Pressure CO<sub>2</sub> Flexible Pipe Structures”  
C. Wang, A. Rubin, N. Von Solms  
(**SPE-FOTC-24468-MS (2013)**) (**Fluid Phase Equilibria, 372 (2014) 113-125**)

- CERE 1535** “On the Viscosity of Two 1-butyl-1-methylpyrrolidinium Ionic Liquids: Effect of the Temperature and Pressure”  
Félix M. Gaciño, María J.P. Comuñas, Teresa Regueira, José J. Segovia, and Josefa Fernández  
**(J. Chem. Thermodynamics, 87 (2015) 43-51)**
- CERE 1536** “Densities of the Binary Systems *n*-hexane + *n*-decane and *n*-hexane + *n*-hexadecane Up to 60 MPa and 463 K”  
Teresa Regueira, Wei Yan, and Erling H. Stenby  
**(Journal of Chemical & Engineering Data, 60 (2015) 3631-3645)**
- CERE 1537** “Pressure Dependence of the Solubility of Light Fullerenes in 1-hexanol from 298.15 K to 363.15 K”  
Konstantin N. Semenov, Teresa Regueira, Josefa Fernández, Nikolay A. Charykov, and Igor V. Murin  
**(Journal of Molecular Liquids, 209 (2015) 71-76)**
- CERE 1538** “Time-Explicit Methods for Joint Economical and Geological Risk Mitigation in Production Optimization”  
Lasse H. Christiansen, Andrea Capolei, and John Bagterp Jørgensen  
**(Journal of Petroleum Science and Engineering, 146 (2016) 158-169)**
- CERE 1539** “Methods and Modelling for Post-combustion CO<sub>2</sub> Capture”  
Philip Fosbøl, Nicolas von Solms, Arne Gladis, Kaj Thomsen, and Georgios M. Kontogeorgis  
**(Submitted for publication in “Materials and Process Systems for CO<sub>2</sub> Capture: Modelling, Design, Control and Integration” edited by Dr. Athanasios Papadopoulos and Professor Panos Seferlis)**
- CERE 1540** “Monte Carlo Reservoir Analysis Combining Seismic Reflection Data and Informed Priors”  
Andrea Zunino, Klaus Mosegaard, Katrine Lange, Yulia Melnikova, and Thomas Mejer Hansen  
**(Geophysics, 80(1) (2015) 31-41)**
- CERE 1541** “Dynamic Operation and Simulation of Post-Combustion CO<sub>2</sub> Capture”  
Jozsef Gaspar, Arne Gladis, John Bagterp Jørgensen, Kaj Thomsen, Nicolas von Solms, and Philip Loldrup Fosbøl  
**(Energy Procedia, 86 (2016) 205-214)**
- CERE 1542** “Control of a Post-Combustion CO<sub>2</sub> Capture Plant during Process Start-up and Load Variations”  
Jozsef Gaspar, John Bagterp Jørgensen, and Philip Loldrup Fosbøl  
**(IFAC-PapersOnLine 48-8 (2015) 580-585)**
- CERE 1543** “Multivariable Optimization of the Piperazine CO<sub>2</sub> Post-Combustion Capture Process”  
Jozsef Gaspar, Nicolas von Solms, Kaj Thomsen, and Philip Loldrup Fosbøl  
**(Energy Procedia, 86 (2016) 229-238)**

- CERE 1544** “Pitfalls of using the Geometric-mean Combining Rule in the Density Gradient Theory”  
Xiaodong Liang, Michael Loch Michelsen, and Georgios M. Kontogeorgis  
**(Fluid Phase Equilibria, 415 (2016) 75-83)**
- CERE 1545** “Modelling the Phase Equilibria of Multicomponent Mixtures Containing CO<sub>2</sub>, Alkanes, Water and/or Alcohols using the Quadrupolar CPA Equation of State”  
Martin G. Bjørner, and Georgios M. Kontogeorgis  
**(Molecular Physics, 114 (2016) 2641-2654)**
- CERE 1546** “A Dynamic Mathematical Model for Packed Columns in Carbon Capture Plants”  
Jozsef Gaspar, John Bagterp Jørgensen, and Philip Loldrup Fosbøl  
**(Proceedings from 2015 European Control Conference, (ECC), July 15-17, 2015, Linz, Austria)**
- CERE 1547** “Profit and Risk Measures in Oil Production Optimization”  
A. Capolei, B. Foss, and J.B. Jørgensen  
**(IFAC-PapersOnLine, 48-6 (2015) 214-220)**
- CERE 1548** “Extracurricular scientific production among medical students has increased in the past decade”  
S.B. Andersen, L. Østergaard, and P.L. Fosbøl  
**(Danish medical journal, 62 (2015) 1-5)**

- CERE 1601** “Solubility Modeling of the Binary Systems  $\text{Fe}(\text{NO}_3)_3\text{-H}_2\text{O}$ ,  $\text{Co}(\text{NO}_3)_2\text{-H}_2\text{O}$  and the Ternary  $\text{Fe}(\text{NO}_3)_3\text{-Co}(\text{NO}_3)_2\text{-H}_2\text{O}$  with the Extended Universal Quasichemical (UNIQUAC) Model”  
Mouad Arrad, Mohammed Kaddami, Bahija El Goundali, and Kaj Thomsen  
**(Journal of Solution Chemistry, 45 (2016) 534-545)**
- CERE 1602** “Thermodynamic Modeling of Liquid-Liquid Phase Change Solvents for  $\text{CO}_2$  Capture”  
Muhammad Waseem Arshad, Nicolas von Solms, and Kaj Thomsen  
**(Greenhouse Gas Control, 53 (2016) 401-424)**
- CERE 1603** ”Application of Various Water Soluble Polymers in Gas Hydrate Inhibition”  
Muhammad Shahzad Kamal, Ibnelwaleed A. Hussein, Abdullah S. Sultan, and Nicolas von Solms  
**(Renewable and Sustainable Energy Reviews, 60 (2016) 206-225)**
- CERE 1604** “Robust and Efficient Isenthalpic Flash Algorithms for Thermal Recovery of Heavy Oil”  
Duncan Paterson, Wei Yan, Michael L. Michelsen, and Erling H. Stenby  
**(SPE-179652-MS)**
- CERE 1605** “Simulation and Multivariable Optimization of Post-Combustion Capture using Piperazine”  
Jozsef Gaspar, and Philip Loldrup Fosbøl  
**(International Journal of Greenhouse Gas Control, 49 (2016) 227-238)**
- CERE 1606** “A Stabilised Nodal Spectral Element Method for Fully Nonlinear Water Waves”  
A. P. Ensig-Karup, C. Eskilsson, and D. Bigoni  
**(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)**

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

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

- CERE 1628** “A Layout for the Carbon Capture with Aqueous Ammonia without Salt Precipitation”  
Davide Bonalumi, Gianluca Valenti, Stefano Lillia, Philip L. Fosbøl, and Kaj Thomsen  
**(Energy Procedia, 86 (2016) 134-143)**
- CERE 1629** “Controllability and Flexibility Analysis of CO<sub>2</sub> Post-combustion Capture using Piperazine and MEA”  
Jozsef Gaspar, Luis Ricardez-Sandoval, John Bagterp Jørgensen, and Philip L. Fosbøl  
**(International Journal of Greenhouse Gas Control, 51 (2016) 276-289)**
- CERE 1630** “Determining Optimum Aging time using Novel Core Flooding Equipment”  
Mehrdad Ahkami, Krishna Hara Chakravarty, Ioannis Xiarchos, Kaj Thomsen, Philip L. Fosbøl  
**(Proceedings of the 23<sup>rd</sup> International SPE Bergen One Day Seminar, Society of Petroleum Engineers, SPE-180054-MS (2016) 1-16)**
- CERE 1631** “Hydrate Equilibrium Data for CO<sub>2</sub>+N<sub>2</sub> System in the Presence of Tetra-n-butylammonium Fluoride (TBAF) and Mixture of TBAF and Cyclopentane (CP)  
Fragkiskos Tzirakis, Paolo Stringari, Christophe Coquelet, Nicolas von Solms, and Georgios Kontogeorgis  
**(Journal of Chemical and Engineering Data, 61 (2016) 1007-1011)**
- CERE 1632** “Irreversible Change of the Pore Structure of ZIF-8 in Carbon Dioxide Capture with Water Coexistence”  
Huang Liu, Ping Guo, Teresa Regueira Muñiz, Zhouhua Wang, Jianfen Du, and Guangjin Chen  
**(Journal of Physical Chemistry C, 120 (2016) 13287-13294)**
- CERE 1633** “Wettability of chalk and argillaceous sandstones assessed from T<sub>1</sub>/T<sub>2</sub> ratio”  
Konstantina Katika, Milad Saidian, and Ida Lykke Fabricius  
**(Paper presented at 78<sup>th</sup> EAGE Conference & Exhibition 2016, Vienna, Austria)**
- CERE 1634** “CO<sub>2</sub> Capture with Liquid-Liquid Phase Change Solvents: A Thermodynamic Study”  
Muhammad Waseem Arshad, Philip Loldrup Fosbøl, Nicolas von Solms, and Kaj Thomsen  
**(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  
**(Presented at ECMOR XV – 15<sup>th</sup> European Conference on the Mathematics of Oil Recovery, 29 August – 1 September 2016, Amsterdam, The Netherlands, Conference paper)**
- CERE 1637** “Comparative analysis of experimental methods for quantification of small amounts of oil in water”  
Katika, K., Ahkami, M., Fosbøl, P.L., Halim, A.Y., Shapiro, A., Thomsen, K., Xiarchos, I. & Fabricius, I.L.  
**(Journal of Petroleum Science and Engineering, 147 (2016) 459–467)**
- CERE 1638** “New insight into the microtexture of chalks from NMR analysis”  
O. Fay, J. Soete, K. Katika, S. Galaup, B. Caline, F. Descamps, E. Lasseur, I.L. Fabricius, J. Saïag, R. Swennen, and S. Vandycke  
**(Marine and Petroleum Geology, 75 (2016) 252-271)**
- CERE 1639** “Effective stresses and shear failure pressure from in situ Biot’s coefficient, Hejre Field, North Sea”  
J.B. Regel, I. Orozova-Bekkevold, K.A. Andreassen, N.C. Høegh van Gilse, and I.L. Fabricius  
**(Geophysical Prospecting, 65 (2017) 808-822)**
- CERE 1640** “Optimizing integrated reference cases in the OCTAVIUS project”  
H.M. Kvamsdala, S. Ehlers, A. Kather, P. Khakharia, M. Nienoord, and P.L. Fosbøl  
**(International Journal of Greenhouse Gas Control, 50 (2016)23-36)**
- CERE 1641** “Low immediate scientific yield of the PhD among medical doctors”  
E.L. Fosbøl, P.L. Fosbøl, S. Rerup, L. Østergaard, M.H. Ahmed, J. Butt, J. Davidsen, N. Shanmuganathan, S. Juul, and C. Lewinter  
**(BMC Medical Education, 16 (2016) 189-195)**



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

- CERE 1711** “Prediction of Gas injection effect on asphaltene precipitation onset using the Cubic and Cubic-Plus-Association Equations of State”  
Alay Arya, Xiaodong Liang, Nicolas von Solms, and Georgios M. Kontogeorgis  
**(Energy & Fuels, 31 (2017) 3313-3328)**
- CERE 1712** “Prospects of the use of nanofluids as working fluids for organic Rankine cycle power systems”  
Maria E. Mondejar, Jesper G. Andreasen, Maria Regidor, Stefano Riva, Georgios Kontogeorgis, Giacomo Persico, and Frederik Haglind  
**(Accepted by Energy Procedia)**
- CERE 1713** “Thermodynamic modeling of acid gas removal from natural gas using the Extended UNIQUAC model”  
Negar Sadegh, Erling H. Stenby, and Kaj Thomsen  
**(Fluids Phase Equilibria, 442 (2017) 38-43)**
- CERE 1714** “High pressure phase equilibrium of ternary and multicomponent alkane mixtures in the temperature range from (283 to 473) K”  
Teresa Requeira, Yiqun Liu, Ahmad A. Wibowo, Mehrshad Ashrafi, Farhad Varzandeh, Georgia Pantelide, Erling H. Stenby, and Wei Yan  
**(Fluid Phase Equilibria, 449 (2017) 186-196)**
- CERE 1715** “17<sup>th</sup> International conference on petroleum phase behavior and fouling”  
Nicolas von Solms, Wei Yan, and Simon Andersen  
**(Energy & Fuels, 31 (2017) 3329-3329)**
- CERE 1716** “Heat capacity and Joule-Thomson coefficient of selected n-alkanes at 0.1 and 10 MPa in broad temperature ranges”  
Teresa Regueira, Farhad Varzandeh, Erling H. Stenby, and Wei Yan  
**(J. Chem. Thermodynamics, 111 (2017) 250-264)**
- CERE 1717** Freezing point determination of water-ionic liquid mixtures”  
Yanrong Liu, Anne S. Meyer, Yi Nie, Suojiang Zhang, Yongsheng Zhao, Philip L. Fosbøl, and Kaj Thomsen  
**(Journal of Chemical and Engineering Data, 62 (2017) 2374-2383)**
- CERE 1718** “A three-dimensional model of two-phase flows in a porous medium accounting for motion of the separating surface”  
Alexander A. Shapiro  
**(Submitted for publication)**
- CERE 1719** “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)**
- CERE 1720** “Measurement of iron and lead sulfide solubility below 100°C”  
Diana Carolina Figueroa Murcia, Petter Lomsøy, Philip L. Fosbøl, Erling H. Stenby, and Kaj Thomsen  
**(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  
**(Journal of Petroleum Science and Engineering, 160 (2018) 119-128)**
- 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  
**(In press, J. Chem. Thermodynamics (2017))**
- CERE 1731** “CO<sub>2</sub> mass transfer model for carbonic anhydrase-enhanced aqueous MDEA solutions”  
Arne Gladis, Maria T. Gundersen, Randi Neerup, Philip L. Fosbøl, John M. Woodley, and Nicolas von Solms  
**(In press, Chemical Engineering Journal, (2017))**
- CERE 1732** “Design and simulation of rate-based CO<sub>2</sub> capture processes using carbonic anhydrase (CA) applied to biogas”  
Philip Loldrup Fosbøl, Jozsef Gaspar, Bjartur Jacobsen, Jens Glibstrup, Arne Gladis, Kevin Milla Diaz, Kaj Thomsen, John M. Woodley, and Nicolas von Solms  
**(Energy Procedia, 114 (2017) 1434-1443)**
- CERE 1733** “Pilot absorption experiments with carbonic anhydrase enhanced MDEA”  
Arne Gladis, Niels F. Lomholdt, Philip L. Fosbøl, John M. Woodley, and Nicolas von Solms  
**(Energy Procedia, 114 (2017) 1158-1165)**
- CERE 1734** “Operating considerations of ultrafiltration in enzyme enhanced carbon capture”  
Maria T. Gundersen, Arne Gladis, Philip Loldrup Fosbøl, Nicolas von Solms, and John M. Woodley  
**(Energy Procedia, 114 (2017) 735-743)**
- CERE 1735** “Comparison of the kinetic promoters piperazine and carbonic anhydrase for CO<sub>2</sub> absorption”  
Arne Gladis, Maria T. Gundersen, Kaj Thomsen, Philip L. Fosbøl, John M. Woodley, and Nicolas von Solms  
**(Energy Procedia, 114 (2017) 719-725)**
- CERE 1736** “Rate-based modelling and validation of a pilot absorber using MDEA enhanced with carbonic anhydrase (CA)”  
Jozsef Gaspar, Arne Gladis, John M. Woodley, Kaj Thomsen, Nicolas von Solms, and Philip L. Fosbøl  
**(Energy Procedia, 114 (2017) 707-718)**
- CERE 1737** “A least squares method for ensemble-based multi-objective oil production optimization”  
Lasse Hjuler Christiansen, Steen Hørsholt, and John Bagterp Jørgensen  
**(Submitted for 3<sup>rd</sup> 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 3<sup>rd</sup> 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 3<sup>rd</sup> IFAC Workshop on Automatic Control in Offshore Oil and Gas Production)**
- CERE 1740** “Solubility modeling of the systems Ni(NO<sub>3</sub>)<sub>2</sub>-H<sub>2</sub>O and Fe(NO<sub>3</sub>)<sub>3</sub>-Ni(NO<sub>3</sub>)<sub>2</sub>H<sub>2</sub>O with the extended Universal Quasichemical (UNIQUAC) model”  
Mouad Arrad, Mohammed Kaddami, Bahija El Goundali, and Kaj Thomsen  
**(J. Solution Chem., 46 (2017) 1220-1229)**
- CERE 1741** “First study of poly(3-methylene-2-pyrrolidone) as a kinetic hydrate inhibitor”  
Eirin Abrahamsen, Ingrid Marie Heyns, Nicolas von Solms, Rueben Pfukwa, Bert Klumperman, and Malcolm A. Kelland  
**(Accepted by Energy & Fuels)**
- CERE 1742** “Water-oil emulsions with fines in smart water enhanced oil recovery”  
Muhammad Waseem Arshad, Philip Loldrup Fosbøl, Alexander Shapiro, and Kaj Thomsen  
**(SPE-187620-MS, (2017))**
- CERE 1743** “Electrical double-layer and ion bridging forces between symmetric and asymmetric charged surfaces in the presence of mono- and divalent ions”  
Xiaoyan Liu, Karen L. Feilberg, Wei Yan, Erling H. Stenby, and Esben Thormann  
**(Langmuir, 33 (2017) 4426-4434)**
- CERE 1744** “Low field NMR surface relaxivity studies of chalk and argillaceous”  
Konstantina Katika, Henrik Fordsmand, and Ida L. Fabricius  
**(Microporous and Mesoporous Materials, (2017) in press)**
- CERE 1745** “Low-field NMR spectrometry of chalk and argillaceous sandstones: Rock-fluid affinity assessed from T<sub>1</sub>/T<sub>2</sub> ratio”  
Konstantina Katika, Milad Saidian, Manika Prasad, and Ida L. Fabricius  
**(Petrophysics, 58(2) (2017) 126-140)**
- CERE 1746** “Complex conductivity of soils”  
A. Revil, A Coperey, Z. Zhao, N. Florsch, I. L. Fabricius, Y. Deng, J. R. Delsman, P. S. Pauw, M. Karaoulis, P. G. B. de Louw, E. S. van Baaren, W. Dabekaussen, A. Menkovic, and J. L. Gunnink  
**(Water Resources Research, 53 (2017) 7121-7147)**

- CERE 1747** “Core flooding experiments and reactive transport modelling of seasonal heat storage in the hot deep Gassum sandstone formation”  
Hanne Dahl Holmslykke, Claus Kjøller, and Ida L. Fabricius  
**(Accepted by Earth and Space Chemistry)**
- CERE 1748** “Rock physics”  
Ida Lykke Fabricius  
**(Skjæveland, S. M. and Siqveland, O. K. eds: “JCR-7 Monograph North Sea Chalk”, University of Stavanger, First Web version JCR 7 October, 2017, 39-46)**
- CERE 1749** “Rock properties”  
Ida Lykke Fabricius  
**(Skjæveland, S. M. and Siqveland, O. K. eds: “JCR-7 Monograph North Sea Chalk”, University of Stavanger, First Web version JCR 7 October, 2017, 89-104)**
- CERE 1750** “Formation evaluation”  
I. L. Fabricius, and F. Engstrøm  
**(Skjæveland, S. M. and Siqveland, O. K. eds: “JCR-7 Monograph North Sea Chalk”, University of Stavanger. First Web version JCR 7 October, 2017, 175-192)**

- CERE 1801** “On the isobaric-isothermal flash calculations”  
Xiaodon Liang  
**(Submitted for publication)**
- CERE 1802** “Elasticity and electrical resistivity of chalk and greensand during water flooding with selective ions”  
K. Katika, M.M. Alam, A. Alexeev, K.H. chakravarty, P.L. Fosbøl, A. Revil, E. Stenby, I. Xiarchos, A. Yousefi, and I.L. Fabricius  
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- 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  
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- CERE 1804** “Recent advances with association models for practical applications”  
Ioannis Tsivintzelis, Martin Gamel Bjørner, 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  
**(Proceedings of the 37<sup>th</sup> International Conference on Ocean, Offshore and Arctic Engineering, OMEA 2018, June 17-22, 2018, Madrid, Spain)**