Erling Halfdan Stenby - DTU Orbit (26/02/2018)

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Center for Energy Resources Engineering

Department of Chemistry - Head of Department

Publications:

**Elasticity and electrical resistivity of chalk and greensand during water flooding with selective ions**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Influence of Adsorption and Capillary Pressure on Phase Equilibria Inside Shale Reservoirs**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Calculation of Multiphase Chemical Equilibrium by the Modified RAND Method**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Calculation of simultaneous chemical and phase equilibrium by the method of Lagrange multipliers**
Tsanas, C., Stenby, E. H. & Yan, W. 2017 In : Chemical Engineering Science. 174, p. 112-126
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Comparison of GERG-2008 and simpler EoS models in calculation of phase equilibrium and physical properties of natural gas related systems**
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**Density and Compressibility of Multicomponent n-Alkane Mixtures up to 463 K and 140 MPa**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Determination of Zinc Sulfide Solubility to High Temperatures**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Electrical Double-Layer and Ion Bridging Forces between Symmetric and Asymmetric Charged Surfaces in the Presence of Mono- and Divalent Ions**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Extension of modified RAND to multiphase flash specifications based on state functions other than (T,P)**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Flooding of North Sea chalk and greensand cores with specific brines**
Publication: Research - peer-review › Poster – Annual report year: 2017
General approach to characterizing reservoir fluids for EoS models using a large PVT database
Publication: Research - peer-review › Journal article – Annual report year: 2016

Heat capacity and Joule-Thomson coefficient of selected n-alkanes at 0.1 and 10 MPa in broad temperature ranges
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Publication: Research - peer-review › Journal article – Annual report year: 2017

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Enhanced Oil Recovery with Surfactant Flooding

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Preparation and structural characterisation of novel and versatile amphiphilic octenyl succinic anhydride-modified hyaluronic acid derivatives
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Coupling Miscible Flow and Geochemistry for Carbon Dioxide Flooding into North Sea Chalk Reservoir
Niu, B., Yan, W., Shapiro, A. & Stenby, E. H. 2009 Proceeding in CD from European COMSOL Conference.
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Mathematical Model for Microbial Enhanced Oil Recovery with Surfactant Distributed between Phases
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Stenby, E. H. 2007
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Coupling Chemical Kinetics and Flashes in Reactive, Thermal and Compositional Reservoir Simulation
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Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

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Fluid characterization for miscible EOR projects and CO2 sequestration
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Modelling of associating mixtures for applications in the oil & gas and chemical industries
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<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>Oil - plenty for this and the next generation</td>
<td>Stenby, E. H.</td>
<td>2007</td>
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<td>Application of CPA to Reservoir Fluids in Presence of Water and Other</td>
<td>Yan, W., Kontogeorgis, G. &amp; Stenby, E. H.</td>
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Application of CPA to Reservoir Fluids in Presence of Water and Other Associationg Compounds
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Publication: Research - peer-review › Poster – Annual report year: 2006

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Project: PhD

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Project: PhD

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Tsanas, C., Yan, W., Stenby, E. H., Kontogeorgis, G., Jessen, K. & Solbraa, E. 15/12/2014 → 15/01/2018
Project: PhD

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Project: PhD

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Project: PhD
Measurement and modelling of phase equilibrium of oil-water polar chemicals
01/06/2011 → 11/03/2015
Project: PhD

Smart Water
Stenby, E. H. & Fabricius, I. L.
01/06/2011 → 30/09/2014
Project

BioRec
Stenby, E. H.
15/03/2011 → 30/09/2015
Project

Disc. Meeting, løbende
Stenby, E. H.
01/02/2011 → 31/12/2020
Project

Integrated Modeling of Oil Reservoirs - history matching and geostatistical analysis
Melnikova, Y., Mosegaard, K., Shapiro, A., Stenby, E. H., Finlay, C., Demyanov, V. V. & Khan, A.
15/06/2010 → 14/05/2014
Project: PhD

Integrated Modeling of Oil Reservoirs - seismic and geostatistical analysis
Lange, K., Mosegaard, K., Hansen, P. C., Stenby, E. H., Knudsen, P. & Kolbjørnsen, O.
01/03/2010 → 30/08/2013
Project: PhD

CERE Administration
Stenby, E. H.
01/01/2010 → 10/10/2020
Project

Stochastic Modelling Polydisperse Transport of Particles in Porous Media
01/10/2009 → 17/12/2012
Project: PhD

Thermodynamic Modelling of Acid Gases - Alkanolamine Systems
Sadegh, N., Thomsen, K., Stenby, E. H., Kontogeorgis, G., Knudsen, K. & Koch, O.
01/04/2009 → 21/05/2013
Project: PhD

Ionic Liquids for CO2 Capture
Stenby, E. H.
01/03/2009 → 01/06/2011
Project

Advanced Waterflooding in Low Permeable Carbonate Reservoirs
Zahid, A., Shapiro, A., Stenby, E. H., Yan, W., Thomsen, K., Christensen, H. F. & Spildo, K.
01/01/2009 → 27/06/2012
Project: PhD
Reactive Transport in Oil Recovery Processes
Jain, P., Shapiro, A., Stenby, E. H. & von Solms, N.
01/01/2009 → 31/05/2011
Project: PhD

CO 2 capture from flue gas using amino acid salt solutions
01/12/2008 → 21/11/2012
Project: PhD

CompSim
Stenby, E. H.
10/11/2008 → 09/11/2010
Project

Multiphase flows in porous media
Zhang, X., Shapiro, A., Stenby, E. H., Yan, W. & Øbro, H.
01/09/2008 → 14/12/2011
Project: PhD

Enhanced Oil Recovery with Surfactant Flooding
Sandersen, S. B., von Solms, N., Stenby, E. H., Yan, W., Skauge, A. & Sparsø, F. V.
01/05/2008 → 27/06/2012
Project: PhD

Distribution of Complex Chemicals in Oil-Water Systems
Riaz, M., Kontogeorgis, G., Stenby, E. H., Yan, W., von Solms, N., Hemptinne, J. D. & Knudsen, K.
01/04/2008 → 08/02/2012
Project: PhD

CO2 Capture with Aqueous Ammonia
01/02/2008 → 14/12/2011
Project: PhD

Oliespil i Arktis
01/11/2007 → 08/12/2010
Project: PhD

ADORÉ - Advanced Oil Recovery Methods
Stenby, E. H.
01/09/2007 → 01/01/2013
Project

Design of CO2 Capture Units using Aqueous Alkanolamines
Faramarzi, L., Kontogeorgis, G., Stenby, E. H., Thomsen, K., Shapiro, A., Behrens, P. K. & van Well, W. J. M.
15/02/2007 → 01/09/2010
Project: PhD

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01/01/2007 → 31/12/2009
Project
Co2 Injection in Low Permeable Oil and Gas Reservoir
Niu, B., Shapiro, A., Stenby, E. H., Yan, W., von Solms, N. & Skauge, A.
15/09/2006 → 21/12/2010
Project: PhD

Avanceret Reservoir Simulerig
Nielsen, S. M., Shapiro, A., Michelsen, M. L., Stenby, E. H., Mosegaard, K., Aavatsmark, I. & Jørgensen, M.
01/09/2006 → 24/11/2010
Project: PhD

Sponsor til IVC-SEP
Stenby, E. H.
01/09/2006 → 10/10/2020
Project

Modelling of CO2 Capture
Stenby, E. H.
01/05/2006 → 01/07/2010
Project

Development of Derivatized Hyaluronic Acid and Formulation of Nanocapsules for Delivery of Cosmetic Actives and Pharmaceutical Drugs
15/05/2005 → 03/11/2008
Project: PhD

Petrochallenge – a Competition for High Schools
Stenby, E. H.
17/12/2004 → 31/12/2020
Project

History Matcoging using Stochastic Methods
Johansen, K., Shapiro, A., Stenby, E. H., Michelsen, M. L., Hu, L. Y. & Mosegaard, K.
01/09/2004 → 15/05/2008
Project: PhD

Avanceret Reservoirsimulerig
Kristensen, M. R., Stenby, E. H., Michelsen, M. L., Thomsen, P. G., Shapiro, A., Aavatsmark, I. & Saaf, F.
15/08/2004 → 16/05/2008
Project: PhD

Temperaturafhængighed af bjergartsmekaniske egenskaber
01/08/2004 → 01/08/2011
Project: PhD

Corrosion in Wet Gas Pipelines
Fosbøl, P. L., Thomsen, K., Stenby, E. H., Mollerup, J., Dugstad, A. & Rislund, E.
01/02/2004 → 25/03/2008
Project: PhD

Modelling of Enzymatic Hydrolysis of Lignocellulosic Material
01/01/2004 → 26/10/2007
CO₂ Capture from Coal Fired Power Plants
01/11/2003 → 16/02/2007
Project: PhD

Modelling of Complex Mixtures Containing Hydrogen Bonding Molecules using CPA EOS
01/11/2003 → 22/01/2007
Project: PhD

Experimental Studies and Modeling of Asphaltene Precipitation Caused by Gas Injection
01/05/2003 → 01/09/2006
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Modelling of Mineral Scale Deposition
Villafafila Garcia, A., Thomsen, K., Stenby, E. H., Jensen, J. P. & Kleinitz, W.
01/10/2002 → 22/12/2005
Project: PhD

Compositional Streamline Simulation.
Berenblyum, R., Stenby, E. H., Michelsen, M. L., Shapiro, A., Foged, N. T., Bedikovetsky, P. & Jakupsstovu, S.
01/09/2001 → 28/01/2005
Project: PhD

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Gonzales Bagnoli, M. G., Shapiro, A., Stenby, E. H., Mollerup, J., Knudsen, K. & Montel, F.
01/08/2001 → 18/03/2005
Project: PhD

Mætningsfordeling og petrofysiske egenskaber i lav-permable Nordøkalkreservoirer
Nielsen, C. M. & Stenby, E. H.
16/11/2000 → 09/12/2005
Project: PhD

Dissolution and Adsorption of Light Hydrocarbons in Drilling Muds, Prediction of the Nature of a REsevoir Fluid Based on Gas Shows
Liege, X. C., Stenby, E. H., Shapiro, A., Fabricius, I. L., Marnat, S. & Øbro, H.
01/10/2000 → 14/07/2006
Project: PhD

Phase behavior and transport processes in porous media
Madsen, J. & Stenby, E. H.
01/04/2000 → 28/02/2001
Project: PhD

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Cheng, H., Stenby, E. H., Kontogeorgis, G., Ivar Andersen, S., Birdi, K. S. & Maurer, G.
01/01/2000 → 26/02/2004
Project: PhD

Fasefordeling af produktionskemikalier
Derawi, S., Stenby, E. H., Kontogeorgis, G., Ivar Andersen, S., Economou, I. & Knudsen, K.
01/05/1999 → 21/02/2003
Kompositionel reservoirsimulering af gas injektionsprocesser
Jakupsstovu, S., Stenby, E. H., Shapiro, A., Jansson, J. & Olsen, H.
01/08/1998 → 28/02/2003
Project: PhD

Kulbrinters egenskaber ved høje tryk og temperaturer
01/04/1998 → 10/09/2001
Project: PhD

Modellering af kulbrinteblandingers faseopførsel ved høje tryk og temperaturer
01/04/1998 → 18/09/2002
Project: PhD

Measurement of Phase Equilibria and Transport Properties (C.2)
Stenby, E. H., Dandekar, A., Dang, T. T. & Tecle, Z.
01/01/1998 → 31/12/1998
Project

Modelling of Phase Equilibria and Transport Properties (C.1)
Stenby, E. H., Michelsen, M. L., Shapiro, A., Dandekar, A. & Jessen, K.
01/01/1998 → 31/12/1998
Project

Phase Behavior of Asphaltene Containing Reservoir Fluids (C.5)
Stenby, E. H., Pedersen, C., Dang, T. T., Lindeloff, N. & Tecle, Z.
01/01/1998 → 31/12/1998
Project

Phase Equilibria Including an Aqueous Phase (C.3)
Stenby, E. H.
01/01/1998 → 31/12/1998
Project

Recovery processes (C.7)
Stenby, E. H., Mogensen, K., Poulsen, S., Dang, T. T., Poulsen, S., Shapiro, A., Ivar Andersen, S. & Dandekar, A.
01/01/1998 → 31/12/1998
Project

Simulation of IOR/EOR with advanced thermodynamic models (C.8)
Stenby, E. H., Jørgensen, M. & Christensen, J. R.
01/01/1998 → 31/12/1998
Project

Wax Formation in Reservoir Fluids (C.6)
Stenby, E. H., Ivar Andersen, S. & Lindeloff, N.
01/01/1998 → 31/12/1998
Project

Effekt af varmebehandling på begkvalitet
Ascanius, B. E., Ivar Andersen, S., Stenby, E. H., Østergaard, K., Stokke, P. & Øye, H. A.
01/12/1997 → ...
Project: PhD
Kolloide egenskaber af asfaltener i olier
Pedersen, C., Ivar Andersen, S., Stenby, E. H., Thomsen, K., Buckley, J. S. & Knudsen, K.
01/08/1997 → 09/07/2001
Project: PhD

Oil recovery processes
Poulsen, S., Stenby, E. H., Foged, N. T., Patzek, T. W. & Reffstrup, J. O.
01/08/1997 → 14/09/2001
Project: PhD

Raman Spectroscopy Analysis of Phase Equilibria
Berg, R. W., Hansen, S. B. & Stenby, E. H.
01/07/1997 → 30/01/2001
Project

Gasinjektion i
Jessen, K., Stenby, E. H., Michelsen, M. L. & Villadsen, J.
01/02/1997 → 31/07/2000
Project: PhD

Dannelse af organiske faste faser i kulbrinteblandinger
Lindeloff, N. & Stenby, E. H.
01/02/1996 → …
Project: PhD

Termodynamik i kompositionel reservoir simulering
Christensen, J. R., Stenby, E. H. & Frørup, M. D.
01/08/1995 → …
Project: PhD

Forædling af rapsolie
Balchen, S., Adler-Nissen, J., Nordstrøm, L. & Stenby, E. H.
01/02/1995 → …
Project: PhD

Fortrængningsprocesser i Porøse Medier
Mogensen, K. & Stenby, E. H.
01/02/1995 → 15/07/1998
Project: PhD

Modellering af reservoirfluider ved høj tryk og høj temperatur
Gommesen, S. & Stenby, E. H.
01/08/1994 → 22/03/2000
Project: PhD

Development of an improved microwave apparatus for detection of high pressure dew and bubble points
Sendrup, P. W. & Stenby, E. H.
09/12/1992 → 27/02/1997
Project: PhD

Mikroskala modellering og eksperimentelle studier af strømning i porøse medier
Sendrup, L. & Stenby, E. H.
09/12/1992 → 01/07/1996
Project: PhD
**Phase behavior of near critical hydrocarbon fluids**
Dønkjær, T. & Stenby, E. H.
09/12/1992 → 01/07/1996
Project: PhD

**Phase Equilibria in petroleum fluids: multiphase regions and waxformation.**
Coutinho, J. & Stenby, E. H.
01/12/1992 → 23/04/1996
Project: PhD

**Simulering af forbedret olieindvinding (IOR) med avancerede termodynamiske modeller**
Jørgensen, M. & Stenby, E. H.
01/11/1992 → 27/02/1997
Project: PhD

**Termodynamiske modeller i kompositionel reservoir-simulering**
Peng, W. & Stenby, E. H.
01/05/1991 → 16/02/1994
Project: PhD

**Studies of the phase behavior and physical properties of hydrocarbon fluids**
Amin, R. & Stenby, E. H.
01/01/1991 → 21/03/1994
Project: PhD

**Activities:**

**Thermodynamic modeling of sour gas cleaning process with alkanolamine: Oral presentation at the 25th European SYmposium on Applied Thermodynamics (ESAT), St.Petersburg, Russia**
Stenby, E. H. (Speaker)
1 Jan 2011 → …
Activity: Talks and presentations › Conference presentations

**Thermodynamic modeling of sour gas cleaning process with alkanolamine: Presented at (oral presentation) CERE discussion meeting, Hillerød**
Stenby, E. H. (Speaker)
1 Jan 2011 → …
Activity: Talks and presentations › Conference presentations