



POSTER SESSION

Gas Processing

1	Optimization and modification of gas conditioning process in Sarkhoon Gas Plant	A.Atashjameh Engineering & Technical Service Department, Sarkhon & Qeshm Gas Treating Company, Bandar Abbas, Iran
2	The Application of the “Mean Approximation Approach” for Natural Gas-Brine Mixtures: II- The Natural Gas Solubility	Mohammad Mahdi Shabani, Roar Larsen, Ole Jorgen Nydal Department of Energy and Process Engineering, NTNU, Trondheim, Norway.
3	Generating Portable, HighLevel Process Models and Stand-Alone Special-Purpose Simulators for Gas Plants	Heinz A Preisig (Process Systems Engineering), Tore HaugWarberg (Thermodynamics) Dept of Chemical Engineering Norwegian University of Science and Technology, Trondheim, Norway
4	Durability of PVA/PVAM Blend Membrane in Natural Gas Sweetening	Mohammad Washim Uddin*, Taek-Joong Kim, May-Britt Hägg Department of Chemical Engineering, Norwegian University of Science and Technology (NTNU), NO-7491 Trondheim, Norway
5	Micro and macro scale simulation of anomalous transport	Johannsen ^a , B., Carella ^a , A., Dorao ^a , C., Jakobsen ^b , J. ^a Department of Energy and Process Engineering, Norwegian University of Science and Technology, Kølbjørn Hejes vei 1b, Trondheim 7491, Norway ^b Energy Processes, SINTEF Energy Research, Sem Saelands vei 11, Trondheim 7465, Norway
6	Simulation of a reactive flow inside a square cavity	Federico Sporleder ^a , , Carlos A. Dorao ^b , Hugo A. Jakobsen ^a ^a Department of Chemical Engineering, Norwegian University of Science and Technology, N-7491 Trondheim, Norway ^b Department of Energy and Process Engineering, Norwegian University of Science and Technology, N-7491 Trondheim, Norway
7	Selection of controlled variables for self-optimizing control of thermally coupled distillation columns	Maryam Ghadrnan, Sigurd Skogestad, Ivar J. Halvorsen* NTNU, Department of Chemical Engineering *) SINTEF ICT, Applied Cybernetics

Gas Conversion

8	Optimum design and operation of a hydrogen generation by natural gas autothermal reforming system	Hongmin Wang ^{1,2} , Anders Holmen ¹ , De Chen ^{1*} ¹ Norwegian University of Science and Technology, Trondheim, NO-7491 (Norway) ² South China University of Science and Technology, Guangzhou, China
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Gas Transport		
9	Performance Improvement of Iranian Gas Transmission System: An Approach to Compressor Stations	R. Zomorodian* ¹ , R. Parhizkar ² Energy and System Research Center, MONENCO Iran, 15875-8717, Tehran, Iran
10	Performance Improvement of Iranian Gas Transmission System: An Approach to Gas Pressure Reduction Stations	R. Zomorodian* ¹ , R. Parhizkar ² Energy and System Research Center, MONENCO Iran, 15875-8717, Tehran, Iran
LNG		
11	Optimization of a LNG thermal process. Case study: the PRICO® cycle.	Julio C. Pacio, Carlos A. Dorao Norwegian University of Science and Technology, Kølbjørn Hejes vei 1b, Trondheim 7491, Norway
12	Optimization-Simulation of a Combined LNG and LCO2 Transport Chain	A. Aspelund ^a , T. Gundersen ^a , J. Myklebust ^b , M.P. Nowak ^b , A. Tomasgard ^b ^a Department of Energy and Process Engineering ^b Department of Industrial Economics and Technology Management The Norwegian University of Science and Technology, NTNU, NO - 7491 Trondheim, Norway
Multiphase Flow		
13	Mathematical framework for higher order breakage scenarios	J.M. Marchetti ¹ , L.E. Patruno, H.A. Jakobsen, H.F. Svendsen Department of Chemical Engineering, Norwegian University of Science and Technology (NTNU), N-7491 Trondheim, Norway
14	A Regularization Method for Recovering a Breakage Rate Function Model using Bounded Data Uncertainties	Patruno, L. E., Dupuy, P. M. a, Dorao, C. A. ^b , Svendsen, H. F.a & Jakobsen, H. A. ^a ^a Department of Chemical Engineering, Norwegian University of Science and Technology, N-7491 Trondheim, Norway ^b Department of Energy and Process Engineering, Norwegian University of Science and Technology, N-7491 Trondheim, Norway
15	Dynamic simulation of Ledinegg instability	Ruspini L., Dorao C.A., Fernandino, M. Norwegian University of Science and Technology, Kolbjørn Hejes vei 1b, Trondheim 7491, Norway
16	Study of multiple solutions in two-phase flow in parallel channels	Manavela, E., Fernandino, M., Dorao, C.A. Norwegian University of Science and Technology, Kolbjørn Hejes vei 1b, Trondheim 7491, Norway