

		Day 1 , August 13
08.30-12.15		Introduction and Key note speeches at ACC
		Jointly with ICAE
		Day 1, August 13, afternoon at Malardalen University
13.30-14.30		SIMS Introduction - history and future (Esko Juuso and Erik Dahlquist)
		Session Control (Chair Bernt Lie)
14.30-14.50	22	<a href="#">Bernt Lie. Surrogate and Hybrid Models for Control</a>
14.50-15.10	5	<a href="#">Itsaso Menchacatorre, Roshan Sharma, Beathe Furenes and Bernt Lie. Flood Management of Lake Toke: MPC Operation under Uncertainty</a>
15.10-15.30	3	<a href="#">Liubomyr Vytvytskyi and Bernt Lie. Structural analysis in Julia for dynamic systems in OpenModelica</a>
15.30-15.50	9	<a href="#">Maths Halstensen, Joachim Lundberg, Per Ivan Januschas and Hans-Petter Halvorsen. On-line Monitoring of Viscous Properties of Anti-icing Fluid Based on Multivariate Regression Modeling</a>
15.50-16.10		Break
		Session Buildings (Chair Bernt Lie)
16.10-16.30	19	<a href="#">Marius Salen and Dietmar Winkler. Impact of distributed power generation at the customer</a>
16.30-16.50	21	<a href="#">Nils-Olav Skeie and Jørund Martinsen. Building occupation modelling using motion sensor data</a>
16.50-17.10	1	<a href="#">Ole Magnus Brastein, Roshan Sharma and Nils-Olav Skeie. Sensor placement and parameter identifiability in grey-box models of building thermal behaviour</a>
17.10-17.30	4	<a href="#">Casper Amandus Johansen, Bernt Lie and Nils-Olav Skeie. Models for control of thermal energy in buildings</a>
17.30-18.00		Panel Discussion - Strengths of SIMS: where are we? Why 60 years?
		Day 2, August 14, Malardalen University
		Session Measurement and properties (Chair Lars Öi)
08.30-08.50	12	<a href="#">Sumudu Karunaratne and Lars Øi. Density and Viscosity Correlations for Aqueous 3-Amino-1-propanol and Monoethanol Amine Mixtures</a>
08.50-09.10	13	<a href="#">Sumudu Karunaratne, Dag Eimer and Lars Øi. Uncertainty Comparison of Viscosity Measurements of CO2 Loaded MEA and Water Mixtures in a Coaxial Rheometer Using Monte Carlo Simulation and GUM Method</a>
09.10-09.30	14	<a href="#">Sumudu Karunaratne and Lars Øi. Applicability of NRTL Model for Prediction of the Viscosity of MEA + H2O and AMP + MEA + H2O Mixtures</a>
09.30-09.50	31	<a href="#">Ingrid Bokn Haugland, Jana Chladek and Maths Halstensen. Monitoring of Erosion in a Pneumatic Conveying System by Non-intrusive Acoustic Sensors – A Feasibility Study</a>
09.50-10.10		Break
10.10-10.30	28	<a href="#">Madeleine Martinsen, Erik Dahlquist, Anders Lönnermark and Örjan Säker. GAS SENSORS FOR EARLY DETECTION OF FIRE HAZARDS CAUSED BY VEHICLES IN UNDERGROUND MINES</a>

		Session oil production (Chair Lars Öi)
10.30-10.50	2	<a href="#">Christian Berg, Jon Åge Stakvik, Bernt Lie, Knut Vaagsaether and Glenn-Ole Kaasa. Pressure wave propagation in Managed Pressure Drilling- model comparison with real life data</a>
10.50-11.10	26	<a href="#">Simon Salvesen Holte, Jan Vidar E. Knutsen, Roy Sømme Ommedal and Britt Margrethe Emilie Moldestad. Simulation of enhanced oil recovery with CO2 injection</a>
11.10-12.00		Panel discussion - application areas
12-13.30		Lunch and board meeting for SIMS board
		Session Bio-processes (Chair Esko Juuso)
13.30-13.50	30	<a href="#">Erik Dahlquist, Christian Wallin, Eva Nordlander, Anders Avelin and Eva Thorin. Control of waste water treatment combined with irrigation</a>
13.50-14.10	10	<a href="#">Terje Bråthen, Lars Erik Øi and Jon Hovland. Simulation of Dew Points in Raw Biogas Using PR and SRK Equations of State</a>
14.10-14.30	23	<a href="#">Evgheni Ermolaev, Erik Dahlquist, Cecilia Lalander, Björn Vinnerås and Eva Thorin. Model selection for waste conversion efficiency and energy demands in a pilot for large-scale larvae treatment</a>
14.30-14.50	27	<a href="#">Zahra Nikbakhtkenarsari, Nirmal Ghimire, Rune Bakke and Wenche Hennie Bergland. Thermophilic Anaerobic Digestion Modeling of Lignocellulosic Hot Water Extract using ADM1</a>
14.50-15.10	32	<a href="#">Esko Juuso. Intelligent dynamic simulation of fed-batch fermentation processes</a>
15.10-15.30		Break
15.30-15.50	8	<a href="#">Eshetu Janka, Rune Bakke, Carlos Dinamarca, Vasanthalingam, Osama Ibrahim, Sergey Kukankov, Babafemi Omodara, Hildegunn Haugen and Shuai Wang. Chemical equilibrium model to investigate scaling in moving bed biofilm reactors (MBBR)</a>
15.50-16.10	15	<a href="#">Ramesh Timsina, Britt Moldestad, Marianne Sørflaten Eikeland and Rajan K Thapa. Simulation of air-biomass gasification in a bubbling fluidized bed using CPFD model</a>
16.10-16.30	7	<a href="#">Ramesh Timsina, Rajan K Thapa and Marianne Sørflaten Eikeland. Aspen Plus simulation of biomass gasification for different types of biomass</a>
16.30-17.00		Discussion about bio-processes
17.00-18.00		Annual SIMS meeting
19.00		Conference dinner
		Day 3, August 15, Malardalen University
		Session Fluid beds (Chair Britt Moldestad)
08.30-08.50	11	<a href="#">Cornelius Agu and Britt Margrethe Emilie Moldestad. Effect of Superficial Gas Velocity on Bubbling Fluidized Bed Behaviour in a Biomass Gasifier</a>
08.50-09.10	17	<a href="#">Rajan Jaiswal, Nora C.I. S. Furuvi, Rajan K. Thapa and Britt M.E. Moldestad. Investigation of the segregation and mixing behavior of biomass in a bubbling fluidized bed reactor using a CPFD model</a>
09.10-09.30	18	<a href="#">Rajan K. Thapa, Saroj Thapa, Rajan Jaiswal, Nora C.I.S. Furuvi and Britt M.E. Moldestad. Experimental and computational study on effect of ash deposition on fluid dynamic behavior in a bubbling fluidized bed gasifier</a>

09.30-09.50	24	<a href="#">Nora Cecilie Ivarsdatter Furuvik, Rajan Jaiswal, Rajan Thapa and Britt Margrethe Emilie Moldestad. Study of agglomeration in fluidized bed gasification of biomass using CPFD simulations</a>
09.50-10.10		Break
10.10-10.30	25	<a href="#">Janitha Bandara, Britt Moldestad and Marianne Eikeland. Analyzing the Effects of Geometrical and Particle Size Uncertainty in Circulating Fluidized Beds using CPFD Simulation</a>
		Session Electrical applications (Chair Erik Dahlquist)
10.30-10.50	6	<a href="#">Madhusudhan Pandey, Thomas Øyvang and Bernt Lie. State Estimation of a Thermal Model of Air-cooled Synchronous Generator</a>
10.50-11.10	20	<a href="#">Prabesh Khakda, Dietmar Winkler and Thomas Øyvang. Online Monitoring of a Synchronous Generator's Capability with MATLAB</a>
11.10-11.30	29	<a href="#">Anahita Davoodi, Peter Johansson, Myriam Aries and Thorbjörn Laike. Current use of lighting simulation tools in Sweden</a>
11.30-11.50	16	<a href="#">Helge Nordal and Idriss El-Thalji. Operations Dynamics of Gas Centrifugal Compressor: Process, Health and Performance Indicators</a>
11.50-12.10	33	<a href="#">S. Firouzifar, E.Dahlquist: ELECTRICAL CHARACTERISTIC OF NEW CALCULATION IN sub-TRANSMISSION LINE with simulation</a>
12.10-13.10		Lunch
13.10-13.30	34	<a href="#">S. Firouzifar, E.Dahlquist : The optimization of a distribution and over distribution lines structure</a>
13.30-14.30		Panel discussion - Future directions of SIMS (changes, conferences, publications, industry,..)