

SIMS 58 - PROGRAM

THE 58TH CONFERENCE ON SIMULATION AND MODELLING

Location: National Energy Authority, Orkugarður, Grensasvegur 9, 108 Reykjavík, Iceland

Monday September 25th

Time	Presenter		Title	
08:00	Registration			
08:30	Opening Prof. Sigurður Magnús Garðarsson, Dean of School of Engineering and Sciences			
08:40	Keynote 1 Prof. Guðni A. Jóhannesson, Director General National Energy Authority		Taming of the supercritical shrew	
09:20	Keynote 2 Prof. Lars Eriksson, Vehicular Systems, Linköping University		Model-Based Development - The Prosperous Life, Evolution, & Impact of a Diesel Engine Model	
10:00	Coffee			
	Presenter	Title	Presenter	Title
10:30	Session V11	Session Chair: Erik Dahlquist Room: Víðgelmir	Session A11	Session Chair: Sigurður Brynjólfsson Room: Afhellir
	10:30	Shobhana Singh	10:30	Lars Erik Øi
	10:55	Liubomyr Vytvytskyi	10:55	Jesús Zambrano
	11:20	Prasanna Welahettige	11:20	Janitha Bandara
	11:45	Lilja Magnúsdóttir	11:45	Janitha Bandara
	Lunch			
13:30	Session V12	Session Chair: Dietmar Winkler Room: Víðgelmir	Session A12	Session Chair: Magnus Komperod Room: Afhellir
	13:30	Jairo Rúa Pazos	13:30	Kjell-Arne Solli
	13:55	Chameera K. Jayarathnaa	13:55	Kristian Thorsen
	14:20	Amila Chandra Kahawalagea,	14:20	Sanjay Shah
	14:45	Asanthi Jinasena	14:45	Turo Välikangas
15:10	Coffee			
15:30	Session V13	Session Chair: Esko Jusso Room: Víðgelmir	Session A13	Session Chair: Kristian Thorsen Room: Afhellir
	15:30	Prasanna Welahettige	15:30	Joachim Lundberg
	15:55	Susantha Dissanayake	15:55	Joachim Lundberg
	16:20	Sumudu S. Karunaratne	16:20	Joachim Lundberg
	16:45	Sumudu S. Karunaratne	16:45	Samee Maharjan
17:10	SIMS Annual Assembly			

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Tuesday September 26th

Time	Presenter	Title	Time	Presenter	Title
08:00 Registration					
Session Chair: Håkon Viumdal Room: Viðgemplir			Session Chair: Liubomyr Vytvytskiy Room: Afhellir		
08:30	Ramesh Timsina	Modeling and simulation of light oil production using inflow control devices	08:45	Laura Marcano	Towards Effective Automatic Feedback for Simulator Training
09:10	Sveinung Sund / Magnus Hansen	Simulation of Oil Production from Homogenous North Sea Reservoirs with Inflow Control using OLGA/Rocx	09:10	Jaroslav Cibulka	Augmented and Virtual Reality for Engineering Education
09:35	Magnus Hansen / Thomas B. Iversen	Simulation of Oil Production from Heterogeneous North Sea Reservoirs with Inflow Control using OLGA/Rocx	09:35	Esko K. Juuso	Smart Integration of Energy Production
10:00 Coffee					
Session Chair: Lars Eriksson Room: Viðgemplir			Session Chair: Jesus Zambrano Room: Afhellir		
10:30	W.K. Hiromi Ariyaratne	Euler-Granular approach for modelling of dilute phase pneumatic conveying in a vertical pipe	10:30	Dietmar Winkler	Electrical Power System Modelling in Modelica – Comparing Open-source Library Options
10:55	Shobhana Singh	Concrete thermal energy storage for steam generation: A numerical investigation	10:55	Roshan Sharma	Comparison of control strategies for a 2 DOF helicopter
11:20	Jairo Rúa Pazos	Dynamic Modeling and Simulation of an Offshore Combined Heat and Power (CHP) Plant	11:20	Roshan Sharma	Covering the Gap Between Advanced Control Theory Design and Real Time Implementation Using Simulink
11:45	Inés Encabo Cáceres	Thermodynamic Optimization Of An Organic Rankine Cycle For Power Generation From A Low Temperature Geothermal Heat Source	11:45	Kristian Thorsen	Physiological based modeling and control of an industrial tank process
12:10 Lunch					
Session Chair: Tiina Komulainen Room: Viðgemplir			Session Chair: NN Room: Afhellir		
13:30	Lars Erik Øi	Optimization of gas velocity and pressure drop in CO2 absorption column	13:30	Sameer Maharjan	Wave Front Tracking using Template Matching and Segmented Regression
13:55	Lars Erik Øi	Simulation and Economic Optimization of Vapour Recompression Configuration for Partial CO2 capture	13:55	Alice Bittante	A multi-period optimization model for the design of new LNG supply chains
14:20	Olov Holmer	Modelling and Validation of Hybrid Heavy Duty Vehicles with Exhaust Aftertreatment Systems	14:20	Geir Risvoll	The impact of signalling kinetics on controller motif performance
14:45	Kristoffer Ekberg	Optimal Control of Wastegate Throttle and Fuel Injection for a Heavy-Duty Turbocharged Diesel Engine During Tip-In Throttle and Wastegate Developed for Optimal Control	14:45	Bikram Kawan	Data-driven Modeling of Ship Motion Prediction Based on Support Vector Regression
15:10 Coffee					
Session Chair: Lars O. Nord Room: Viðgemplir			Session Chair: Lars Erik Øi Room: Afhellir		
15:30	Jagath Manjula V.P. Edirisinghe	Transient stability of fault ride through capability of a transmission system of a distributed hydropower system	15:30	Magnus Komperød	Numerical Calculation of Stresses in Helical Cable Elements subject to Cable Bending and Twisting
15:55	Liubomyr Vytvytskiy	Flood Control of Lake Toke: Model Development and Model Fitting	15:55	Håkon Viumdal	Online Drilling Fluid Flowmetering in Open Channels with Ultrasonic Level Sensors using Critical Depths
16:20	Valentyna Splavska	Hydropower Systems: Comparison of Mechanistic and Table Look-up Turbine Models	16:20	Gunnar Skúlason Kaldal	Structural Analysis of the Casings in Deep Geothermal Wells
16:45			16:45	Heimir Tyggvason	Modeling and simulation in the design process of a prosthetic foot
			17:10		
19:30	Conference Dinner: Bryggjan Brugghús, Bruggsalurinn				

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Wednesday September 27th

Excursion to Reykjanes GEOPARK

10:00 Bus from Orkugarður, Grensasvegur 9, 108 Reykjavík

11:00 Exhibition: Resource Park in the Reykjanes peninsula

12:15 Dinner Hjá Höllu, Grindavík

13:30 Visit to Svartsengi Power Plant

15:30 The conference excursion ends at Orkugarður