DTU Energy Conversion's second yearly PhD symposium with industry participation

21 November 2014

DTU's meeting centre, meeting rooms S1 and S9

DTU Lyngby Campus, Building 101A

Anker Engelunds Vej 1, 2800 Kgs. Lyngby

Programme

08:45 – 09:15	Registration, coffee/tea/croissant and socialising
09:15 – 09:20	Welcome by Head of Department Søren Linderoth, DTU Energy Conversion
09:20 – 10:20	Presentations by 2 former PhD students from DTU Energy Conversion: Lars Mikkelsen, Babcock & Wilcox Vølund Allan Lyckegaard, Xnovo Technology Aps
10:20 – 10:40	Coffee/tea and fruit
10:40 – 11:30	2 PhD presentation sessions (2 tracks)
11:30 – 12:30	Lunch in Glassalen in the canteen
12:30 – 13:20	2 PhD presentation sessions (2 tracks)
13:20 – 13:40	Coffee/tea, cake and fruit
13:40 – 14:30	2 PhD presentation sessions (2 tracks)
14:30 – 16:00	Poster session and networking
16:00 – 16:30	Prize 'ceremony' and beer/soft drinks

Oral presentations

	Track A – meeting room S1 ***Chair: PhD student Kristian Bastholm Knudsen***	***Track B – meeting room S9*** ***Chair: PhD student Søren Lyng Ebbehøj***
10:40 – 11.30	*Felix Trier*: Record-high electron mobility in patterned complex oxide interfaces *Emil Bøje Lind Pedersen*: What can we learn from tomography?	*Lisa Deleebeeck*: Fueling direct carbon fuel cells with European coal *Stine Søndergaard*: HT PEM fuel cells operating on enriched air
12:30 – 13:20	*Shiyang Cheng*: Gd-doped ceria (GCO) based single and dual phase oxygen transport membranes *Jonathan Højberg*: The status of current battery research	*Federica Vico*: Research efforts for CO_2 reduction at "high" pressure and "low" temperature *Søren Lyng Ebbehøj*: Process integration of CO_2 air capture and co-electrolysis for methane production
13.40 – 14:30	*Kristian Bastholm Knudsen*: A study of e^- transport through Li_2O_2, the main discharge product in the Li-O_2 battery *Andreas Elkjær Christensen*: Macroscopic impedance modelling of a lithium air cell	*Jean-Claude Njodzefon*: Kinetic investigations of solid oxide fuel cell electrodes through electrochemical impedance spectroscopy *Malgorzata Makowska*: In-situ study of stress enhanced reduction of NiO to Ni in solid oxide fuel cells

Poster session

Lounge		
14:30 – 16:00	*Gisele Alves dos Reis Benatto*, Reproducible R2R processed ITO-, vacuum- and silver-free organic solar cell modules	*Thanh Hung Le*, Segmented thermoelectric oxide-based module
	Henrique Neves Bez, Thermal hysteretic behaviour of $La_{0.67}Ca_{0.33}MnO_3$	*Tian Lei*, Modeling of an active magnetic regenerator for heat pump application using $La(Fe,Si,Mn)_{13}Hy$ materials
	Arghya Bhowmik, Substituted rutile (110) surfaces for CO_2 electro-reduction	*Simon Loftager*, Computational investigations of transport mechanisms across battery interfaces
	Michael Corazza, Predicting, categorizing and intercomparing the lifetime of OPVs for different ageing tests	*Yuri Aparecido Opata*, Manufacture and characterization of $DyBa_2Cu_3O_7$-d thin films by chemical solution deposition
	Salvatore De Angelis, In-situ analysis of a solid oxide fuel cell using X-ray tomography methods	*Stéven Pirou*, Development and testing of planar oxygen membranes
	Fabrizio Gualandris, In situ TEM on operating electrochemical cells	*Lea Hildebrandt Rossander,* In situ small angle X-ray scattering probing solar cell morphology
	Li Han, Development and processing of n and p-type oxides thermoelectric materials	*Theis Løye Skafte,* Degradation mechanisms and an international quantitative status on lifetime of solid oxide cells
	Ilona Maria Heckler, Improvement of the stability of polymers for organic solar cells by different strategies	*Stefano Soprani*, Active cooling and heat management of a downhole tool electronics section
	Andrea Roberto Insinga, Analytical optimization of magnetic systems	*Manlong Xia*, The influence of Dy content on the magnetic properties of NdFeB magnets
	Mark Tonny Dalsgaard Jakobsen, High temperature proton exchange membrane fuel cell durability	*Yu Xu*, Continuous hydrothermal synthesis of LSC/GDC nanocomposite powders for SOFC
	Andreas Kirkebæk, Development of improved membranes for HT-PEMFC	*Lijie Zhong*, Synthesis and characterization of catalysts for PEMFC
	Mikkel Rykær Kraglund, Alkaline water electrolysis cells	