
Annual Meeting 24-25 April 2018

Program - draft

Location: Son Spa & Resort, Hollandveien 30, 1555 Son, Norway



Program at a Glance

Tuesday 24 April		Wednesday 25 April	
08h00-10h00	Registration and check-in	09h00	Safety Moment
10h00	Welcome	09h10	4. Battery and Hydrogen Safety
10h10	1. Hydrogen and Fuel Cells for Transport	10h30	Coffee & Checkout
12h25	Lunch	11h00	PhD & Post doc seminar / Side meetings
13h30	2. Policy for Zero Emission Transport	12h15	Lunch
15h10	Coffee	13h15	General Assembly
15h30	3. Battery Value Chains	14h30	Closing remarks
20h00	Dinner	15h00	Bus departure to Oslo & Gardermoen

Tuesday 24 April


Transport and Arrival		
08h00	Bus pick-up at Gardermoen (08h00) – Olavsgaard (08h20) – Ryen (08h40)	
09h30	Arrival & Check-in	
10h00	Welcome	
Session 1: Hydrogen and Fuel Cells for Transport (Chair: Magnus Thomassen) • From hydrogen production to end use • Use cases: (1) Maritime and (2) Heavy duty vehicles		
10h10	Hydrogen for transport - Hydrogen by water electrolysis	Bjørn Gregert Halvorsen, <i>NEL</i>
10h35	Fuel Cells and Electrolysers: Acid to Alkaline, mW to kW	Graham Smith, <i>SINTEF</i>
10h50	Principles of proton conduction in polymer-ceramic composite membranes for PEM applications	Athanasios E. Chatzitaki, <i>UiO</i>
Coffee & fruit 11h05-11h25		
11h25	Low-Frequency EIS for PEM Fuel-Cell Diagnostics	Ivar Halvorsen, <i>SINTEF</i>
11h40	Preliminary design of high speed passenger ferry (TBC)	Fredrik Aarskog, <i>IFE</i>
11h55	Hydrogen for high-speed passenger boats in Trøndelag	Anders Ødegård, <i>SINTEF</i>
12h10	Operational Experience with Hydrogen Buses in Oslo	Glen Ivar Gaalaas, <i>UniBuss</i>
Lunch 12h25-13h30		
Session 2: Policy for Zero Emission Transport (Chair: Erik Figenbaum) • How can battery and FCH technology complement each other? • What kind of policies should be established?		
13h30	Sustainable Transport	Gunnar Lindberg, <i>TØI</i>
13h55	TBD	TBD
14h10	National Transport Plan – An ambitious climate strategy	Ole Kristian Sollie, <i>SVV</i>
14h25	Decarbonization of transport – The role of electrification and hydrogen	Asgeir Tomasgard, <i>NTNU</i>
14h40	Regional and national hydrogen strategy	Øystein Lunde, <i>Afk</i>
14h55	Zero-Emission Freight Trains	Federico Zenith, <i>SINTEF</i>
Coffee & Afternoon Snack 15h10-15h30		
Session 4: Battery Value Chains (Chair: Fride Vullum-Bruer) • From production of materials to end use • Anodes, cathodes, electrolyte materials; battery cells, modules, and systems • How to establish new battery manufacturing capabilities?		
15h30	Batteries then, now and when?	Ola Nilsen, <i>UiO</i>
15h55	High-voltage cathode material for Li-ion batteries stabilized by surface coating	Elise Østli, <i>NTNU</i>
16h05	Advanced Li-ion and beyond Li-ion at Saft	Cecile Tessier, <i>SAFT</i>
16h20	Building Norwegian battery industry – the BEBA strategy	Frederic Hauge, <i>Bellona</i>
16h35	Ageing and diagnostics of commercial Li-ion batteries	Preben Vie, <i>IFE</i>
16h50	Si-anodes for Li-ion batteries (TBC)	Martin Kirkengen, <i>Cenate</i>
17h05	Relaxation – Spa – Networking	
Dinner 20h00		

Wednesday 25 April

09h00	Good Morning - Safety moment	
Session 3: Battery and Hydrogen Safety (Chair: Øystein Ulleberg) <ul style="list-style-type: none"> • From safe materials and components to safe and low risk systems. • System requirements? Needs for testing and validation? New standards? 		
09h10	Hydrogen Safety	Olav Hansen, <i>Lloyd's Register</i>
09h35	Long Term Properties of Hydrogen Pressure Vessels	Eivind Hugaas, <i>NTNU</i>
09h45	Battery and Hydrogen Safety Research at HSN	Mathias Henriksen, <i>HSN</i>
10h00	Battery safety – Testing Procedures, Rules and Regulations	Sissel Forseth, <i>FFI</i>
10h15	Safe implementation of battery systems on ships – A Class Society perspective	Øystein Alnes, <i>DNV GL</i>
Coffee and fruit + Checkout 10h30-11h00		
PhD & post doc seminar (Chair: Katinka E. Grønli)		
11h00-12h15	TBA	TBA
Lunch 12h15-13h15		
General Assembly (Chair: TBD)		
13h15	Agenda was distributed via email on 6 April 2018.	
14h30	Closing remarks	
Departure		
15h00	Bus departure to Oslo & Gardermoen	

List of Participants

Name	Affiliation
Jostein Bogen	ABB
Øystein Lunde	Akershus fylkeskommune
Jørn Arvid Endresen	ASKO
Roger Sæther	ASKO
Ola Nilsen	Baldur Coatings AS
Jan Kjetil Paulsen	Bellona
Frederic Hauge	Bellona
Martin Kirkengen	Cenate (affiliated to Dynatec Engineering)
Guttorm Syvertsen	Cerpotech AS
Hendrik Brinks	DNV GL
Øystein Alnes	DNV GL
Jorunn Voje	Elkem Technology
Ragnar Tronstad	Elkem Technology
Per Ivar Helgesen	Enova SF
Andreas Bratland	Forskningsrådet
Sissel Forseth	Forsvarets forskningsinstitutt
Arvid Melkevik	Forsvarets forskningsinstitutt
Carl Erik Foss	Graphene Batteries
Per Sigurd Heggem	Hexagon Raufoss AS
Arve Holt	IFE
Øystein Ulleberg	IFE
Fredrik Aarskog	IFE
Bjørn Hauback	IFE
Preben Vie	IFE
Jan Petter Mæhlen	IFE
Mohsen Vatani	IFE
Volodymyr Yartys	IFE
Ika Dewi Wijayanti	IFE
Ragnhild Hancke	IFE
Kari Espegren	IFE
Morten Tjelta	IFE
Bjørn Bryne	Jernbanedirektoratet
Jonathan Sharman	Johnson Matthey
Rolf Jørn Fjærbu	Kystverket
Olav Roald Hansen	Lloyd's Register Consulting
Bjørn Gregert Halvorsen	NEL Hydrogen
Jan Carsten Gjerløw	Norsk Hydrogenforum



Jostein Mårdalen	NTNU
Fride Vullum-Bruer	NTNU
Elise Ramleth Østli	NTNU
Eivind Hugaas	NTNU
Sepideh Jafarzadeh	NTNU
Ann Mari Svensson	NTNU
Frode Seland	NTNU
Daniel Tevik Rogstad	NTNU
Asgeir Tomasgard	NTNU
Patrick Bernard	Saft
Cécile Tessier	Saft
Magnus Thomassen	SINTEF
Anders Ødegård	SINTEF
Rune Bredesen	SINTEF
Roar Norvik	SINTEF
Tor Olav Sunde	SINTEF
Federico Zenith	SINTEF
Ivar J. Halvorsen	SINTEF
Edel Sheridan	SINTEF
Graham Smith	SINTEF
Solveig Meland	SINTEF
Kjetil Midthun	SINTEF
Ole Kristian Sollie	Statens vegvesen
Parnia Navabpour	Teer Coatings Ltd
Vegard Østli	TØI
Erik Figenbaum	TØI
Inger Beate Hovi	TØI
Lasse Fridstrøm	TØI
Gunnar Lindberg	TØI
Glenn-Ivar Gaalaas	Unibuss AS
Knut Vågsæther	University College of Southeast Norway
Mathias Henriksen	University College of Southeast Norway
Athanasios Chatzitakis	University Of Oslo/SMN
Truls Norby	University of Oslo/SMN
Halvor Høen Hval	University of Oslo/SMN
Katinka E Grønli	University of Oslo/UiO:Energy
Katrine Ryengen	ZEG Power
Nicola Di Giulio	ZEG Power
Egil Mollestad	ZEM
