

CANOPENER 2017

Programme

19th to 23rd June 2017

Trondheim, Norway



Participants & Affiliations

We have participants from a number of institutions across the globe:

The University of Victoria, Canada (UVic)

Norwegian University of Science and Technology, Norway (NTNU)

The University of Ottawa, Canada (UOttowa)

Simon Fraser University, Canada (SFU)

The University of Toronto, Canada (UToronto)

Max-Planck-Institut für Eisenforschung, Germany (MPIE)

SINTEF Materials and Chemistry, Norway (SINTEF)

Nickel – Electro Can, Canada (Ni Electro Can)

Queen’s University, Canada (Queen’s)

University College of Southeast Norway, Norway (USN)

Mr Mohammad AlikaramiUVic

Ms Karina Asheim..... NTNU

Dr Suresh Kannan Balasingam..... NTNU

Mr Han BaoUVic

Prof Elena Baranova UOttowa

Mr Tory BorsboomUVic

Prof Odne Burheim NTNU

Dr Marisa Di Sabatino NTNU

Mr Espen Fanavoll NTNU

Mr Magnus Følstad NTNU

Prof Geir Martin Haarberg NTNU

Dr David HarringtonUVic

Ms Amelia HohenadelSFU

Dr Thomas HolmUVic

Mr Mohamed Houache UOttowa

Mr Omar IbrahimSFU

Mr Mats Ingdal NTNU

Ms Zohreh Jalili NTNU

Mr Mats Jensen NTNU

Dr Ivana Jevremovic NTNU

Mr Sathiyaraj Kandhasamy NTNU

Prof Donald Kirk UToronto

Ms Kjersti Wergeland Krakhella NTNU

Dr Manab Kundu NTNU

Dr Hsu-Feng LeeSFU

Mr Tianyu Li.....UVic

Dr Maidhily Manikandan..... NTNU

Dr Jostein Mårdalen NTNU

Ms Katie McCay NTNU

Mr Jesus Mondragon OchoaMPIE

Dr Titichai Navessin Ni Electro Can

Ms Fang Niu.....MPIE

Mr Morten Onsrud NTNU

Dr Alejandro Oyarce Barnett..... SINTEF

Dr Jon PharoahQueen's

Prof Bruno Pollet NTNU
Mr Muhammad Saqib Qayyum NTNU
Assoc. Prof Espen Sandnes..... NTNU
Dr Frode Seland..... NTNU
Dr Gurvinder Singh NTNU
Mr Sathya Prakash Singh..... NTNU
Ms Siri Marie Skaftun NTNU
Mr Sindre Sjøpstad USN
Prof Svein Sunde NTNU
Ms Sadaf TahmasebiQueen's
Ms Audrey Taylor SFU
Mr Kristian Thorbjørnsen NTNU
Ms Heidi Thuv NTNU
Mr Robin White..... SFU
Mr Håvard Wilson NTNU
Mr Lin Xie UToronto

Day 1 - Monday 19th June

- 8:30 REGISTRATION
- 9:45 Jostein Mårdalen: Welcome to Canopener
Frode Seland: What is Canopener?
- 10:15 Svein Sunde: Electrochemical energy research at NTNU
- 10:40 BREAK
- 11:00 David Harrington: Surface and Microfluidic Electrochemistry
- 11:20 Espen Fanavoll: Microfluidic electrochemical cells
- 11:40 Omar Ibrahim: Microfluidic electrochemical energy conversion in flow-through porous electrodes
- 12:00 LUNCH
- 13:00 Odne Stokke Burheim: ENERSENSE - the energy and sensor nexus
- 13:20 Bruno Pollet: The Use of Ultrasound for the Fabrication of Fuel Cell Catalysts
- 13:40 Jon Pharoah
- 14:00 BREAK
- 14:20 Alejandro Oyarce Barnett: The electrochemical response of degraded fuel cell electrodes
- 14:45 Robin White: Understanding the electrode degradation process in fuel cells: Correlation of electrochemical diagnostics and structure
- 15:05 CLOSING REMARKS & INFORMATION

Day 2 - Tuesday 20th June

9:00 LAB TOUR

10:00 Titichai Navessin: An overview of Ni Electro Can -a pan-Canadian Research Project

10:20 Sadaf Thamasebi: Synthesis and Characterization of Nanoparticles Used in Electrocatalysis Applications

10:40 BREAK

10:55 Elena Baranova: Electrocatalysis of small organic and inorganic molecules in liquid and gas phase

11:20 Gurvinder Singh: Designing CO-Tolerant Bimetallic Nanocatalysts

11:40 Mohamed Houache: Glycerol electrochemical vaporization using Ni-based nanostructured catalysts

12:00 LUNCH

13:00 Audrey Taylor: Microstructured Nickel Surfaces for the Oxygen Evolution Reaction

13:20 Maidhily Manikandan: Designing Ni based Multimetallic Nanoparticles for Hydrogen Oxidation Reaction in Alkaline FCs

13:40 Lin Xie: Alkaline Fuel Cells

14:00 BREAK

14:20 Donald Kirk: Greening Biodiesel

14:40 Sindre Sjøpstad: Electrochemistry in BioMEMS

15:00 Geir Martin Haarberg: Electrolysis

15:20 CLOSING REMARKS

15:40 BREAK

16:00 POSTER SESSION

With posters from:

Ameila Hohenadel

Fang Niu

Han Bao

Heidi Thuv

Hsu-Feng Lee

Jesus Mondragon Ochoa

Katie McCay

Mats Jensen

Mohammad Alikarami

Morten Onsrud

Sathiyaraj Kandhasamy

Tianyu Li

Tory Borsboom

There will be catering provided towards the end of the poster session

Day 3 - Wednesday 21st June

Days 3, 4 and 5 will consist of an educational program focussed on Electrochemical Impedance Spectroscopy. This will be hosted by David Harrington, an expert in the field.

Please check the 'Resources' section of the website for any supporting material relevant to the program.

In order to access some material, you need the following information:

Login - NTNUEIS

Password - INTPART17

9:00 Introduction to Electrochemical Impedance Spectroscopy

12:00 LUNCH

13:00 EIS Educational Program

16:00 End

Day 4 - Thursday 22nd June

9:00 EIS Educational program

12:00 LUNCH

13:00 Thomas Holm: Dynamic electrochemical impedance spectroscopy of methanol oxidation

13:20 Mats Ingdal: A study of electrochemical charging and transport of hydrogen in thin iron membranes in sulphide, and non-sulphide environment using EIS and transfer functions

13:40 BREAK

14:00 Svein Sunde: Impedance for porous electrodes

14:20 Ivana Jevremovic: Electrochemical noise

Day 5 - Friday 23rd June

9:00 EIS Educational program

12:00 LUNCH

13:00 EIS Educational Program

16:00 Frode Seland: Closing remarks

Catering

Lunch will be held in Hangaren kantine. It will be buffet – style and include vegetarian and non-vegetarian options.

There will be coffee and snacks available throughout the day.

Social Events

Monday:

On Monday evening, we will meet at Nidarosdamen cathedral in the city at 5pm for a guided tour. There is limited space available, so please sign up for this during registration. We will prioritise foreign participants.

Afterwards, we will move on to Frati (www.frati.no) for dinner, starting at 6pm.

Tuesday:

After the poster session, there will be food and drink available.

Wednesday:

After the first day of the educational program, we invite all participants to join us at Trondheim's Mikrobryggeriet for burgers and drinks, starting at 6pm.

Please sign up to this event during registration

Contact Us

If you have any questions during the event, or afterwards, regarding both CANOPENER 2017 and the ongoing project, please get in touch.

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