

Second ISE Satellite Student Regional Symposium on Electrochemistry in Ireland

Bernal Institute-University of Limerick

Friday 9th of November 2018



UNIVERSITY of LIMERICK
OLLSCOIL LUIMNIGH



Conference Report

The “Second ISE Satellite Student Regional Symposium on Electrochemistry in Ireland” was attended by 27 electrochemists from Universities across the Republic of Ireland. From these, 7 were PhD students from Tyndall National Institute in Cork, 8 from the University of Limerick, 2 from Trinity College Dublin, 2 from the Dublin Institute of Technology, 1 from Dublin City University, 1 from University College Dublin, 1 from Maynooth University and 1 from University College Cork. In addition, 1 Postdoc and 1 Researcher from Tyndall National Institute, 1 Researcher from the University of Limerick and the ISE representative in Ireland (James Rohan) also attended the symposium.

The Symposium started at 10:30 a.m with the registration and was divided into 3 oral presentation sessions and 1 poster session. The first presentation was given by Andrés Molina, who welcomed the attendees and highlighted the main objectives of the symposium.



Figure 1. Andrés Molina welcoming the attendees.

The session continued with the presentation of Kamil Cywinski from the University of Limerick, who presented his work on the photo-electrochemistry of TiO_2 films at the interface between two immiscible liquids. This was followed by Jack Robinson from Dublin City University and his work on the investigation of transmembrane proteins using electrochemical impedance spectroscopy. The first session continued until 12:30 p.m and was closed by Dr Micheal Scanlon from the University of Limerick, who presented the facilities and the electrochemistry groups working in the Bernal Institute in the University of Limerick.



Figure 2. Kamil Cywinski from the University of Limerick presenting his work on the photo-electrochemistry of semiconductors at the interface between two immiscible liquids (left), and attendees to the Symposium (right).

The second oral presentation session started at 1:30 p.m after a 1-hour lunch break with a quick presentation by Dr James Rohan, the ISE representative in Ireland, who presented the activities of the ISE, and encouraged the attendees to become members of the society. Luiza Wasiewska from Tyndall national Institute in Cork followed him with a presentation on the electrochemical detection of Silver ions in aqueous solutions using localized pH control. Swapnil Ingle, one of the two attendees from Trinity College Dublin, presented his work on materials for the oxygen reduction reaction. The session continued with John O'Donnell from the University of Limerick and finished at 3:00 p.m with Louise McGrath from Tyndall and her work on ionic-liquid based electrolytes for Li-Ion batteries.



Figure 3. Dr James Rohan, the ISE representative in Ireland, presenting the attendees with the different divisions of the ISE (left), and Swapnil Ingle from Trinity College Dublin (right).

5 PhD students presented their work in the poster session which took place from 3:00 to 3:40 p.m. Sally O'Hanlon from the University College Cork, Noell Purcell from the University of Limerick, and Ian Seymour, Fernando Garrido, and Benjamin O'Sullivan from the Tyndall national institute shared their work in a session that was accompanied by a coffee break.



Figure 4. Andres Molina (organizer) and James Rohan (ISE representative) in the poster session.

The final session was opened by Julia Madden from Tyndall national Institute, who shared her work on the modification of ultramicroelectrodes for Glucose sensing. Prabhakar Sidambaram from the Dublin Institute of Technology continued with an interesting talk about the use of micro and nano electrodes for the detection of radicals. Khairul Hoque presented his work on the electrochemical study of Nitrogen doped carbon electrodes which was followed by Niall Dalton with a talk on Carbon fibres for Vanadium flow batteries. The oral presentation sessions was closed by Ehren Dixon form Tyndall, who talked about lithographic and electrochemical deposition of copper conductors.

The symposium was closed with a short reception with finger food and drinks provided by the organization to all the participants.

The organizers and all the attendees are very grateful to the ISE for the financial support.

Andrés F. Molina Osorio

Dr Micheál Scanlon

Organizing committee



Figure 5. Participants of the Second ISE Satellite Student Regional Symposium on Electrochemistry in Ireland.

Media impact

The conference, and thereby electrochemistry in Ireland and the ISE, were publicized in real time on Twitter (<https://twitter.com/AFMolinaO/status/1049590401454264320>)

 **Andres Molina**
@AFMolinaO

To all our electrochemistry colleagues in Ireland. The ISE Satellite Student Regional Symposium will take place in the Bernal institute next month. Don't forget to send your abstracts and looking forward to welcoming all of you here! @BernalNews @eChemIRL @UL

Retweeted



ISE Satellite Student Regional Symposium on Electrochemistry
Friday 9th November
Hosted in the Bernal Institute, University of Limerick.



The Meeting:
The ISE Satellite Student Regional Symposium is a one day event for postgraduate students working in any field of electrochemistry in Ireland.

Why You Should Attend:

- Unique network opportunity for students.
- Learn how others are using electrochemistry to advance research.
- Learn about techniques and instruments available nationally.

Call for abstracts
Interested students are encouraged to submit a 150-200 word abstract by the 12th of October to andres.molina@ul.ie indicating a preference for an oral or poster presentation. Accepted speakers will be notified by October 19th.

Schedule for this day:



2:20 - 9 oct. 2018

8 Retweets 17 Me gusta 

As of 07/12/2018, this tweet has the following stats:

Impressions: 1202

Total engagements: 86

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Program

Second ISE Satellite Student Regional Symposium on Electrochemistry in Ireland

Bernal Institute-University of Limerick

Friday 9th of November 2018



Bernal
Institute



Schedule for the day:

10.30-11.00: **Registration**-Lobby Analog Devices Building

11.00-11.10: **Andres Molina-UL** "Welcome and objectives of the day"

Presentation session 1:

11.10-11.30: **Kamil Cywinski - UL** "Photo-electrochemistry of Dye-sensitized Titanium Dioxide Nanoparticle Films at Polarized Soft Interfaces"

11.30-11.50: **Jack Robinson-DCU** "Investigation of Transmembrane Proteins on Suspended Lipid Bilayers on Gold Microcavity Arrays using Electrochemical Impedance Spectroscopy"

11.50-12.10: **Caoimhe Robinson-Tyndall** "Electrochemical Detection of Bovine IgG in Serum"

12.10-12.30: **Kieran McCarthy-UL** "The use of Electrochemical Impedance Spectroscopy for the estimation of State-of-Health and State-of-Charge of Lithium-ion Batteries"

12.30-13.30: **Lunch**

13.30-13.40: **Dr James Rohan-ISE representative in Ireland** “The ISE in Ireland”

Presentation session 2:

13.40-14.00: **Luiza Wasiewska-Tyndall** “Reagent-free electrochemical-based detection of silver ions in aqueous solutions using localized pH control”

14.00-14.20: **Swapnil Ingle-TCD** “Synthesis of N/Fe doped carbon macropores using hydrothermal method for oxygen reduction reaction”

14.20-14.40: **John O’Donnell-UL** “Suitable reference electrodes for use in acidic media applications”

14.40-15.00: **Louise McGrath-Tyndall** “Ionic Liquid Based Flexible Polymer Gel Electrolytes for Li Ion batteries”

15.00-15-40: Poster session and coffee break

Presentation session 3:

15.50-16.00: **Julia Madden-Tyndall** “Modification of ultramicroelectrodes for Glucose Sensing”

16.00-16.20: **Prabhakar Sidambaram-DIT** “Micro and nano electrodes: Fabrication, characterization and application. The detection of Silver and ROS/RNS in Biological buffer”

16.20-16.40: **Khairul Hoque-TCD** “A Study of the Electrochemical Capacitance of Nitrogen Doped Amorphous Carbon Thin Film Electrodes”

16.40-17.00: **Niall Dalton-UL** “Bio-Based Electrospun Carbon Nanofibres as Vanadium Flow Battery Electrodes”

17.00-17.20: **Ehren Dixon-Tyndall** “Lithographic patterning and electrochemical deposition of copper conductors”

17.30-19.00: Reception in “The Stables club-UL”

List of attendees

Name	Surname	University	E-mail
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