Third ISE Satellite Student Regional Symposium on Electrochemistry in Ireland

Schuler room 7th floor

Trinity Biomedical Science Institute (TBSI)

Trinity College Dublin

Ireland

Organised by School of Chemistry

Thursday 14th November 2019



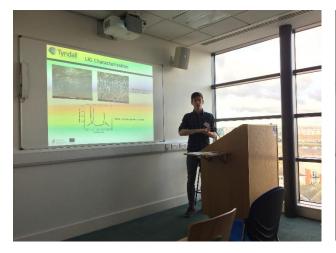




Conference Report

The 'Third ISE Satellite Student Regional Symposium on Electrochemistry in Ireland' was held in Trinity college Dublin Ireland, the symposium was attended by 29 electrochemists across Ireland 10 PhD students from Tyndall National Institute in Cork, 6 from Trinity College Dublin, 3 PhD students from University College Cork, 5 PhD students from university of Limerick, 1 student from Queen's university Belfast, 1 postdoc 1 researcher from Trinity College Dublin, and ISE representative in Ireland (James Rohan) attended the conference.

The registration starts at 10:00 am in the morning and the presentations starts at 11:00 am, Swapnil Ingle welcomed the attendees and highlighted the objectives of the symposium. The session begins with Eoghan Vaughan from Tyndall national Institute on 'sensitive and selective laser induced graphene electrochemical sensors' followed up by Fernando Otero Diez from University of Limerick with his topic 'Electrochemical detection of DNA related to Hepatitis B'. Marc Burnet Cabre from trinity college Dublin talked about his scanning electrochemical cell microscopy (SECCM), Ehren Dixon from Tyndall National Institute presented 'Lithographic Pattering and Electrodeposition of metals for the construction of micromagnetic devices' the first season ended by a knowledgeable talk by Claire McKeena from Trinity College Dublin.



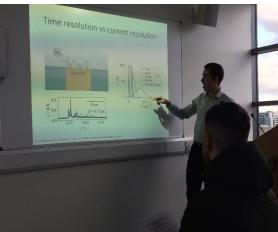


Fig 1 Eoghan Vaughan (Left) and Marc Burnet Cabre (Right) Presentation at the ISE symposium.

The Lunch season was from 1 hour and the next season starts at 1:50 pm by Ray Speer technology director molecular sensor from Analog Devices who was co-sponsor of the symposium. Dr. James Rohan ISE representative in Ireland encouraged attendees to become a member of ISE, followed by talk of Dr. Alessandro Iannaci from Trinity college Dublin on his topic Microbial fuel cells.





Fig. 2 Ray Speer (Left) from Analog Devices and Dr. James Rohan (Right) ISE representative in Ireland giving a talk to attendees.

Poster session took place at 2:50 pm in total 5 PhD students Kankana Paul from Tyndall National Institute, Samia Alsefri, Shifa Fembam from University College Cork, Nataly Ray-Munoz from University of Limerick and Scott Place from Queen's university Belfast presented posters.



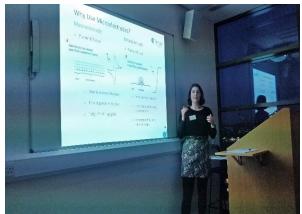


Fig. 3 attendees to the symposium (Left) and Fiona Barry from Tyndall National Institute.

The last season start with the talk of Ian Seymour from Tyndall National Institute on 'removal of dissolved O₂ interface in the amperometry detection of monochlorinated using pH control methods' followed by Siobhan O' Connor 'Electrochemiluminescence' from University of Limerick, Aaron O' Donoghue and Louise McGrath talked about Li Ion Batteries where Fiona Barry talked about sensor design for electrochemical analysis. The symposium was ended with Prizes which are sponsored by Analog Devices, the prizes are as follows:

Best oral presentation

- 1. Siobhan O' Connor, University of Limerick
- 2. Marc Burnet Cabre, Trinity College Dublin
- 3. Louise McGrath, Tyndall National Institute

Best Poster presentation

- 1. Kankana Paul, Tyndall National Institute
- 2. Nataly Ray-Munoz, University of Limerick





Fig. 4 Best oral presentation winner Siobhan O' Connor, University of Limerick with Dr. James Rohan and Swapnil Ingle (Left) and Best Poster winner Kankana Paul, Tyndall National Institute with Dr. James Rohan (Right).

The symposium was closed with a small reception provided by the organizer to all the participants.

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

Swapnil Ingle

Dr. Alessandro Iannaci

Organizing committee



Fig. 5 Participants of third ISE satellite student regional symposium on electrochemistry in Ireland.

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Trinity College Dublin

Thursday 14th November 2019

Time	Title	Speaker	Institution
10:30-11:00	Registration ground floor TBSI/coffee and tea		
11:00-11:10	Welcome and Schedule	Swapnil Ingle	Trinity College Dublin
11:10-11:30	Sensitive and selective laser induced graphene electrochemical sensors	Eoghan Vaughan	Tyndall National Institute
11:30-11:50	Electrochemical detection of DNA related to Hepatitis B	Fernando Otero Diez	University of Limerick
11:50-12:10	Microsecond resolution single Nano-entity electrochemistry via scanning electrochemical cell microscopy (SECCM)	Marc Burnet Cabre	Trinity College Dublin
12:10-12:30	Lithographic patterning and electrodeposition of metals for the construction of micromagnetic devices	Ehren Dixon	Tyndall National Institute
12:30-12:50	PhD. What's next? First step in research funding	Claire McKenna	Trinity College Dublin
12:50-13:50	Lunch break/ posters		
13:50-14:10	Industrial Talk	Ray Speer	Technology Director Molecular sensor Analog devices
14:10-14:30		James Rohan	ISE representative in Ireland
14:30-14:50	Electrografted Aryldiazonium based salts for faster Microbial fuel cells start-up	Alessandro Iannaci	Trinity college Dublin
14:50-15:20	Coffee and tea break/posters		

15:20-15:40	Removal of dissolved O ₂ interface in the amperometry detection of monochlorinated using pH control method	Ian Seymour	Tyndall National Institute
15:40-16:00	Electrochemiluminescence of CulnS ₂ /ZnS and their Analytical Applications	Siobhan O' Connor	University of Limerick
16:00-16:20	LiF protected Li metal anode	Aaron O' Donoghue	Tyndall National Institute
16:20-16:40	Engineering self- Assembled Porphyrin Aggregates at the liquid liquid interface for solar energy conversion	Ivan f. Robayo Molina	University of Limerick
16:40-17:00	Ionic Liquid based Flexible Polymer Gel Electrolytes for Li Ion batteries	Louis McGrath	Tyndall National Institute
17:00-17:20	Optimising sensor design for electrochemical analysis	Fiona Barry	Tyndall National Institute
17:20-17:40	Electrochemical Surface Plasmon Resonance (ESPR) introduction and Applications	Tarun Narayan	Tyndall National Institute
17:40-18:00	Exchange Spring structure on a Co-Rich CoP single layer amorphous thin film using conventional DC Electrodeposition	Arindam Samanta	Tyndall National Institute

Poster Presentation

Optimized pattern of	Kankana Paul	Tyndall National
Co-Rich CoPtP		Institute
micromagnets to		
enhance the		
performance of fully		
integrated MEMS		
Electromagnetic		
vibration energy		
harvester		
Development of lab-	Samia Alsefri	University College
on-a-chip detection		Cork
system for		
environmental		
monitoring of		
polychlorinated		

Biphenyls (PCBs) in soil		
Development of lab- on-chip electrochemical immunosensor for detection of polycyclic aromatic hydrocarbons (PAH) in environmental water	Shifa Felembam	University College Cork
Effect of aqueous electrolyte and organic solvent on electron transfer potentials and ionic interactions at an oil- water interface	Nataly Ray-Munoz	University of Limerick
Electrocatalytic Alcohol Oxidation Using a TEMPO- based Redox Polymer	Scott Place	Queen's University Belfast







ISE student symposium 2019

TBSI, Trinity college Dublin

14th November 2019

Attendance Sheet

	First Name	Surname	
1.	Md Khairul	Hoque	
2.	Michael	Craig	
3.	Scott	Place	
4.	Hanan	Alatawi	
5.	Kankana	Paul	
6.	Tarun	Narayan	
7.	Samia	Alsefri	
8.	Nataly	Rey	
9.	Aislan	Esmeraldo Paiva	
10.	Shifa	Felemban	
11.	Ehren	Dixon	
12.	Louise	Mc Grath	
13.	Siobhan	O'Connor	
14.		Nissanka Arachchi	
	Buddini Nissanka	Appuhamilage	
15.	Fernando	Otero	
16.	Fiona	Barry	
17.	Aaron	O'Donoghue	
18.	Marc	Brunet Cabre	
19.	Eoghan	Vaughan	
20.	Ivã;N	Robayo	
21.	Alessandro	Iannaci	
22.	Ray	Speer	
23.	James	Rohan	
24.	Claire	Mckenna	
25.	Ian	Seymour	
26.	Arindam	Samanta	
27.	Kushal	Doddakula	
28.	Kim	Mckelvey	
29.	Swapnil	Ingle	