14thртаSchool of Electrochemistry 2nd to 6th December, 2019



Institute of Chemistry

14thртаSchool of Electrochemistry 2nd to 6th December, 2019



About the PTASchool

The Paulo Teng An Sumodjo School of Electrochemistry is annually organized at IQUSP. The target audience is graduate students and young doctors from all over the world. The number of participants is limited to 25 to ensure access to equipment to develop the experiments in small groups.

The 14th PTASchool of Electrochemistry was held from 2nd to 6th December, 2019.

14thPTASchool of Electrochemistry in Numbers (90 registrations, 26 selected participants)



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14thPTASchool of Electrochemistry in Numbers (90 registrations, 26 selected participants)

Argentina	7
Australia	2
Brazil	52
Chile	7
China	1
Georgia	1
Germany	1
India	3
Iran	2
Lithuania	1
Mexico	3
Netherlands	3
Republic of Belarus	1
South Africa	4
United States	2

Argentina	1
Australia	1
Brazil	16
Georgia	1
Germany	1
India	1
Iran	1
Lithuania	1
Mexico	1
Netherlands	1
South Africa	1
United	
States	1

Participants from outside São Paulo city and other Universities or academic organizations received a financial support consisting in only accommodations and meals.



<u>Scientific Program</u> 14th PTASchool of Electrochemistry

Monday, December 2nd				
09:00 – 09:30 h	Opening Ceremony (Queijinho A5 Room)			
09:30 – 12:00 h	Fundamentals on Electrode Processes (Queijinho A5 Room) – Roberto Torresi (IQUSP)			
12:00 – 13:30 h	Lunch			
13:30 - 15:00 h	Transport phenomena (Queijinho A5 Room) – Vitor L. Martins (IQUSP)			
15:00 - 15:20 h	Break			
15:20 – 16:50 h	Electrochemical kinetics (Queijinho A5 Room) – Vitor L. Martins (IQUSP)			
16:50 – 17:50 h	Cyclic Voltammetry with Autolab PGSTAT's (Queijinho A5 Room) - Paula			
	Machado (Electrochemistry Specialist Metrohm Brasil Instrumentação			
Metrohm Lecture	Analítica Ltda.)			

Tuesday, December 3rd			
08:45 – 10:10 h	Cyclic voltammetry (Queijinho A5 Room) - Mauro Bertotti (IQUSP)		
10:10 – 10:30 h	Break		
10:30 – 11:50 h	Reaction Mechanisms (Queijinho A5 Room) – Mauro Bertotti (IQUSP)		
11:50 – 13:30 h	Lunch		
13:30 – 17:30 h	Experiment: Cyclic voltammetry		

Wednesday, December 4th					
08:45 – 10:10 h	Electrochemical Impedance Spectroscopy (Queijinho A5 Room) - Germano				
	Tremiliosi Filho (IQSC-USP)				
10:10 – 10:30 h	Break				
10:30 – 11:50 h	Electrochemical Impedance Spectroscopy (Queijinho A5 Room) - Germano				
	Tremiliosi Filho (IQSC-USP)				
11:50 - 13:30 h	Lunch				
13:30 – 17:30 h	6 Different experiments 1- Electrochemical Impedance Spectroscopy 2- Rotating Ring-Disc Electrode 3- Fabrication and application of microelectrodes 4- Paper-Based Electrochemical Sensors - ePADs 5- Espectro-electrochemistry: Electrochromism of Prussian Blue 6- Electroganalysis Under Flowing Regime				



Thursday, December 5th			
08:45 – 10:10 h	Electrocatalysis - Susana I. C. de Torresi (IQ-USP) (Queijinho A5 Room)		
10:10 – 10:30 h	Break		
10:30 – 11:50 h	Electrochemical Paper-Based Devices: Fabrication and Applications in Sensing		
	– Thiago R.L.C. Paixão (IQ-USP) (Queijinho A5 Room)		
11:50 – 13:30 h	Lunch		
13:30 – 17:30 h	 6 Different experiments Electrochemical Impedance Spectroscopy Rotating Ring-Disc Electrode Fabrication and application of microelectrodes Paper-Based Electrochemical Sensors - ePADs Espectro-electrochemistry: Electrochromism of Prussian Blue Electroanalysis Under Flowing Regime 		

Friday, December 6th			
08:45 – 10:10 h	Scanning electrochemical microscopy - Mauro Bertotti (IQ-USP) (Queijinho A5		
	Room)		
10:10 – 10:30 h	Break		
10:30 – 11:50 h	Closing conference: Multifunctionality of conducting polymers nanotubes -		
	Marcio Vidotti (UFPR) (Queijinho A5 Room)		
11:50 – 13:30 h	Lunch		
13:30 - 17:00 h	6 Different experiments		
	1. Electrochemical Impedance Spectroscopy		
	2. Rotating Ring-Disc Electrode		
	Fabrication and application of microelectrodes		
	4. Paper-Based Electrochemical Sensors - ePADs		
	Espectro-electrochemistry: Electrochromism of Prussian Blue		
	6. Electroanalysis Under Flowing Regime		
17:00 – 17:30 h	Closing ceremony (Queijinho A5 Room)		



Cyclic Voltammetry

Tuesday, December 3rd, 2019

G1	Lab. Mauro	G2	<u> B1Sup - Room 161 – (Thiago)</u>	
	Ali Chamazketi		Beatriz Garrote	
	Laís Vernasqui		Crystal Rapier	
	Paula Perroni		Bruna Lobo	
	Ary Assuncao		Josué Gonçalves	
G3	<u>B1Sup - Room 161 – (Thiago)</u>	G4	B1Sup - Room 161 – (Thiago)	
	Ricardo Escalona-Villalpando		Povilas Šimonis	
	Sapokazi Timakwe		Marina Soselia	
	Franciele Morawski		Jessica Gualberto	
	Gisele Halfeld		Thágor Klein	
			Jesimiel Glaycon Rodrigues Antônio	
G5	<u>B1Sup – Room 161 – (Roberto)</u>	G6	<u> B1Sup – Room 161 – (Roberto)</u>	
	Sofía Raviolo		Emerson Kohlrausch	
	Hamsa Noreen		Tim wissink	
	Gabriel Carrijo		Jéssica Santos Stefano	
	Rodrigo Lira Garcia Barros		Ramon S. Vilela	

Six experiments

Time	Experiment	Wednesday, December 4 th	Thursday, December 5 th	Friday, December 6 th
13:30-15:30	1- Electrochemical Impedance Spectroscopy	G1	G4	G6
15:30-17:30	1- Electrochemical Impedance Spectroscopy	G2	G3	G5
13:30-15:30	2- Rotating Ring-Disc Electrode	G3	G6	G1
15:30-17:30	2- Rotating Ring-Disc Electrode	G4	G5	G2
13:30-15:30	 Fabrication and application of microelectrodes 	G5	G2	G4
15:30-17:30	3- Fabrication and application of microelectrodes	G6	G1	G3
13:30-15:30	4- Paper-Based Electrochemical Sensors	G2	G3	G5
15:30-17:30	4- Paper-Based Electrochemical Sensors	G1	G4	G6
13:30-15:30	5- Espectro-electrochemistry	G4	G5	G2
15:30-17:30	5- Espectro-electrochemistry	G3	G6	G1
13:30-15:30	6- Electroanalysis Under Flowing Regime	G6	G1	G3
15:30-17:30	6- Electroanalysis Under Flowing Regime	G5	G2	G4

14th**PTAS**chool of **E**lectrochemistry 2nd to 6th December, 2019



Next PTASchool of Electrochemistry

