



33rd Topical Meeting of the International Society of Electrochemistry

Conference Schedule

SUNDAY 27 Nov.		MONDAY 28 Nov.		TUESDAY 29 Nov.		WEDNESDAY 30 Nov.	
Colour Legend:	8:00 - 9:00	Registration					
Keynote	9:00 - 9:20	Room 1 S1 Keynote	Room 2 S2 Keynote	Room 1 S1 Keynote	Room 2 S2 Keynote	Room 1 S1 Keynote	Room 2 S2 Keynote
S1 - Challenges in Molecular Electrochemistry and Surface Reactivity	9:20 - 9:40	Room 1 S1 Oral Presentations	Room 2 S2 Oral Presentations	Room 1 S1 Oral Presentations	Room 2 S2 Oral Presentations	Room 1 S1 Oral Presentations	Room 2 S2 Oral Presentations
S2 - Experimental, Theoretical and Computational Advances in Electrochemistry and Electrocatalysis	9:40 - 10:00						
	10:00 - 10:20						
	10:20 - 10:40						
	10:40 - 11:00	Coffee Break		Coffee Break		Coffee Break	
	11:00 - 11:20						
	11:20 - 11:40	Room 1 S1 Oral Presentations	Room 2 S2 Oral Presentations	Room 1 S1 Oral Presentations	Room 2 S2 Oral Presentations	Room 1 S1 Oral Presentations	Room 2 S2 Oral Presentations
	11:40 - 12:00						
	12:00 - 12:20						
	12:20 - 12:40	Room 1 S1 Keynote					
	12:40 - 13:00						
	13:00 - 15:00	Lunch La Provincia Restaurant		Lunch La Provincia Restaurant		Lunch La Provincia Restaurant	
Registration 15:00 - 17:00 Estudio #1	15:00 - 15:40	Room 1 S1 Keynote	Room 2 S2 Keynote	Room 1 S1 Keynote	Room 2 S2 Keynote	Bus departure time 14:30	
	15:40 - 16:00	Coffee Break		Coffee Break			
	16:00 - 16:20	Poster Session		Poster Session		Winemaker Experience Viña Casas del Bosque 16:30 - 18:30	
	16:20 - 16:40						
	16:40 - 17:00						
Opening Ceremony 17:00 - 17:30	17:00 - 17:20						
	17:20 - 17:40						
S1 Keynote 17:30 - 18:30 Auditorium Marc Koper	17:40 - 18:00						
	18:00 - 18:20						
Welcome Reception 18:30 - 20:30 "La Provincia Restaurant"	18:20 - 18:40						
	18:40 - 19:00					Cocktail & Gala Dinner Viña Casas del Bosque 18:30 Bus departure time 21:00	
	19:00 - 19:20						
	19:20 - 19:40						
	19:40 - 20:30						

33rd Topical Meeting

of the International Society of Electrochemistry

27 - 30 November 2022

Santiago, Chile

Challenges in Molecular Electrochemistry
and Surface Reactivity



PROGRAM

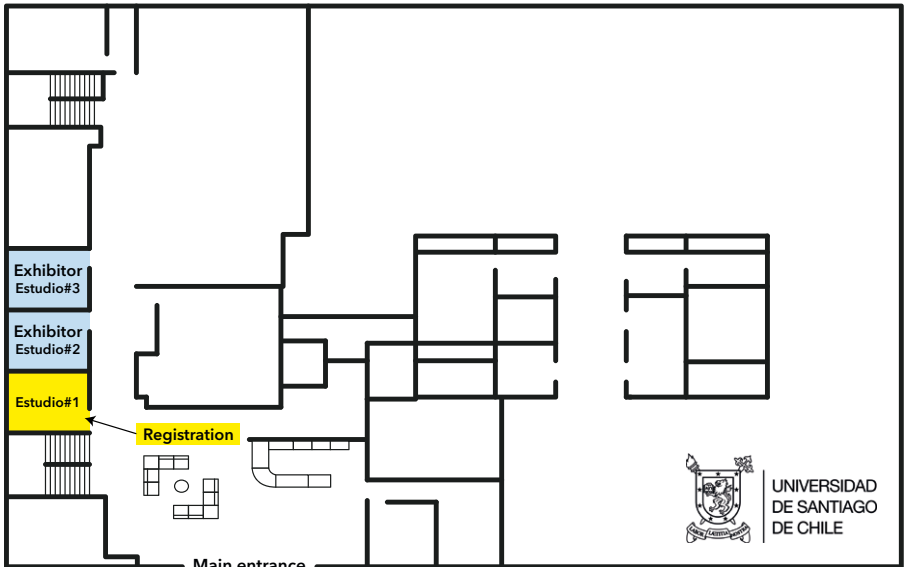
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Conference Room Plan

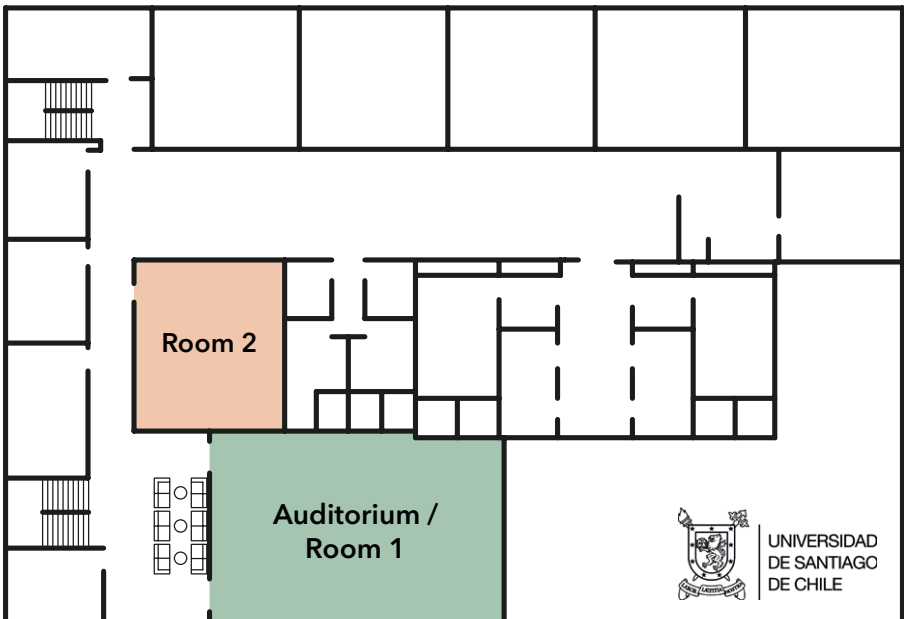
Piso 1 / Level 1

USACH - Centro de Estudios de Postgrado y Educación Continua
Cruz del Sur 77, Las Condes, Santiago, Chile



Piso 2 / Level 2

USACH - Centro de Estudios de Postgrado y Educación Continua
Cruz del Sur 77, Las Condes, Santiago, Chile



Sponsors

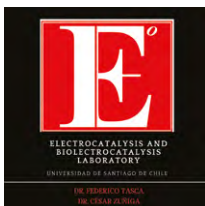


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Rational design of molecular catalytic for energy conversion and electrochemical reactions



E - Electrocatalysis and Bioelectrocatalysis Laboratory
Universidad de Santiago de Chile



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International Society of Electrochemistry
Chemin du Closelet 2
1006 Lausanne
Switzerland

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Program of the
33rd Topical Meeting
of the International Society of
Electrochemistry

Challenges in Molecular Electrochemistry
and Surface Reactivity

27-30 November 2022. Santiago, Chile

USACH - Centro de estudios de postgrado y educación continua
Cruz del Sur 77, Las Condes, Santiago, Chile

Organized by:

Division 6 Molecular Electrochemistry
Division 7 Physical Electrochemistry
ISE Region Chile



Organizing Committee

Federico Tasca, *USACH, Santiago, Chile*

Jose Zagal, *USACH, Santiago, Chile*

Magdalena Hromadova, *University of Prague, Czech Republic*

Angel Cuesta, *University of Aberdeen, United Kingdom*

Local Organizing Committee

Ingrid Ponce, *USACH*

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Sunday 27 November

Registration

Estudio #1

15:00 to 17:00 **Registration**

Opening Ceremony

Auditorium

17:00 to 17:30 **Opening Ceremony**

S1 - Challenges in Molecular Electrochemistry and Surface Reactivity

Auditorium

Chaired by: Jose Zagal & Federico Tasca

17:30 to 18:30 *Keynote*

Marc Koper (*Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands*)

[Mechanisms of electrochemical hydrogen evolution and CO₂ reduction](#)

Welcome Reception

La Provincia

18:30 to 20:30 **Welcome Reception**

“La Provincia” is on the western corner of the conference building.

Av. Apoquindo 4445, local 1, 7550000 Las Condes, Región Metropolitana

Monday 28 November

Registration

Estudio #1

08:00 to 09:00 **Registration**

Wednesday 30 November

Excursion & Gala Dinner

14:30 **Bus depart**

Departure from the conference site

16:15 **Viña Casas del Bosque**

Winemaker Experience: A challenge between teams at making the best assemblage with a final competition and rewards.

18:30 **Viña Casas del Bosque**

Cocktail and Gala Dinner

21:00 **Bus return**

Departure from Viña Casas del Bosque.



34th Topical Meeting

of the International Society of Electrochemistry

Electrochemistry: Reaching out to society

19 - 22 March 2023 - Mar del Plata, Argentina.



Call for Papers

<http://topical34.ise-online.org>



35th Topical Meeting

of the International Society of Electrochemistry

Electrochemistry for energy, environment and health: Key challenges and enabling solutions

7 - 10 May 2023 - Gold Coast, Australia



Call for Papers

<http://topical35.ise-online.org>

Oral Presentations

Monday 28 November - Morning

S1 - Challenges in Molecular Electrochemistry and Surface Reactivity

Room 1

Chaired by: Lior Elbaz 9:00-10:40 / Magdalena Hromanova 11:20 - 12:40

09:00 to 09:40 Keynote

Magdalena Hromadova (*Electrochemistry at the Nanoscale, J. Heyrovsky Institute of Physical Chemistry of CAS, Prague, Czech Republic*),
Magdaléna Hromadová, Philippe P Lainé

[Bipyridinium-Based Structronic Assemblies: Multielectron Transfer and Storage.](#)

09:40 to 10:00 Invited

Philippe Hapiot (*Institut des Sciences Chimiques de Rennes, CNRS - Université de Rennes 1, Rennes, France*), Fangchen Zhen

[Electron Transfer Kinetics in Ethaline as an Example of Deep Eutectics Solvent.](#)

10:00 to 10:20 Invited

Pawel Kulesza (*Faculty of Chemistry, University of Warsaw, Warsaw, Poland*),
Anna Chmielnicka, Iwona A. Rutkowska

[Electrocatalytic CO₂-Reduction in Acid Medium at Hybrid Metal/Metal Oxide Systems](#)

10:20 to 10:40

Gonzalo García (*Department of Chemistry, Universidad De La Laguna, San Cristobal De La Laguna, Spain*), Sergio Díaz Coello

[Transition Metal Carbides-Based Composites as Electrocatalysts for the Hydrogen Evolution Reaction](#)

10:40 to 11:20

Coffee Break

11:20 to 11:40

Adrian Fortuin (*Computational Material Design, Helmut Schmidt University, Hamburg, Germany*), Tim Albrecht, Adrian Fortuin, Denis Kramer

[Unlocking Electrocatalytic Activity Through Quantum Spin Exchange Interactions](#)

11:40 to 12:00

Diego Maureira (*School of Biochemical Engineering, P. Universidad Catolica de Valparaiso, VALPARAISO, Chile*), Debora Fino, Hilmar Guzmán, Simelys Hernández, Carminna Ottone, Tonia Tommasi, Lorena Wilson

[Deposition of metal-oxides on carbon felt for the electroenzymatic conversion of CO₂](#)

12:00 to 12:40 Keynote

Ernesto Julio Calvo (*INQUIMAE-DQIAyQF, Universidad de Buenos Aires, Buenos Aires, Argentina*), Daniel Cordoba, Hernan Bernardo Rodriguez

[New In Operando Detection of Singlet Oxygen Inside a Li-O₂ Battery](#)

S2 - Experimental, Theoretical and Computational Advances in Electrochemistry and Electrocatalysis

Room 2

Chaired by: Justus Masa 9:00-10:40 / Deborah Jones 11:20 - 12:20

09:00 to 09:40 Keynote

Deborah Jones (*ICGM, CNRS, Montpellier, France*), Pierre-Yves Blanchard, Carlos Campos Roldan, Sara Cavaliere, Raphaël Chattot, Nicolas Donzel, Marc Dupont, Frédéric Lecoœur, Alice Parnière, Jacques Rozière

[Structure-Reactivity Relationships and Reactivity Descriptors for the Rational Design of Pt-Rare Earth Catalytic Surfaces](#)

09:40 to 10:00

Tomas Navratil (*Electrochemistry at the Nanoscale, J. Heyrovsky Institute of Physical Chemistry, Prague, Czech Republic*), Marta Choinska-Mlynarczyk, Vojtech Hrdlicka, Jan Langmaier, Jana Skopalova

[Voltammetric Approaches for Determination and Characterization of Addictive Substances](#)

10:00 to 10:20

Heigo Ers (*Institute of Chemistry, University of Tartu, Tartu, Estonia*), Enn Lust, Piret Pikma, Liis Siinor

[Studying Cd | Ionic Liquid Interface - Insights from in situ STM and EIS](#)

10:20 to 10:40 Invited

Roberto Torresi (*Química Fundamental, Instituto de Química - Universidade de São Paulo, São Paulo, Brazil*), Fábio Henrique Barros de Lima, Paulo Filho Marques de Oliveira, Rafael Romano Luiz, Primaggio Silva Mantovi

[Studying Supported Cu and Ag Nanoparticles at 2D Materials to Enhance C₂₊ Products at CO₂RR](#)

10:40 to 11:20

Coffee Break

11:20 to 11:40

Matteo Miola (*Product Technology - Engineering and Technology Institute, Groningen University, Groningen, Netherlands*), Donatella Chillé, Paola Lanzafame, Gerogia Papanikolaou, Paolo P. Pescarmona

[Towards the electrochemical conversion of CO₂ into formate optimization: Flow cell parameters and bismuth-based catalyst stability](#)

11:40 to 12:00 *Invited*

Susana Cordoba de Torresi (*Instituto de Química, Universidade de São Paulo, São Paulo, Brazil*)

[Gold-Rhodium Nanoflowers for the Plasmon-Enhanced Hydrogen Evolution Reaction under Visible Light](#)

12:00 to 12:20

Andrii Koverga (*Institute of chemistry of São Carlos, Universidade de São Paulo, São Carlos, Brazil*), Ana Maria Gomez Marin, Elizabeth Florez, Edson Ticianelli

[Tuning Fundamental Properties of Molybdenum Carbide for Application in Catalysis](#)

Monday 28 November - Afternoon

S1 - Challenges in Molecular Electrochemistry and Surface Reactivity

Room 1

Chaired by: Gonzalo García

15:00 to 15:40 Keynote

Jirí Ludvík (*Molecular Electrochemistry and Catalysis, Ústav Fyzikální Chemie J. Heyrovského AV ČR, Praha 8, Czech Republic*), Alan Liska

[Reducible Calix\[4\]arenes and Stereoelectrochemistry](#)

15:40 to 16:00

Coffee Break

S2 - Experimental, Theoretical and Computational Advances in Electrochemistry and Electrocatalysis

Room 2

Chaired by: Matteo Grattieri

15:00 to 15:40 Keynote

Lo Gorton (*Department of Biochemistry and Structural Biology, Lund University, Lund, Sweden*)

[Electrode Surface Modification for Improved Bioelectrocatalysis](#)

15:40 to 16:00

Coffee Break

Tuesday 29 November - Morning

S1 - Challenges in Molecular Electrochemistry and Surface Reactivity

Room 1

Chaired by: *Angel Cuesta 9:00-10:40 / Ingrid Ponce 11:20 - 12:20*

09:00 to 09:40 Keynote

Justus Masa (*Heterogeneous Catalysis, Max Planck Institute for Chemical Energy Conversion, Müllheim an der Ruhr, Germany*)

[Elucidation of the transient dynamics of M-Xides \(X = B and P\) during electrocatalytic oxygen evolution and design considerations for long-term performance](#)

09:40 to 10:00

Iwona Rutkowska (*Faculty of Chemistry, University of Warsaw, Warsaw, Poland*), Pawel J. Kulesza, Beata Rytelwska

[Electrocatalytic oxidation of dimethyl ether at multifunctional nanoreactors: comparison to performance of other simple organic fuels](#)

10:00 to 10:20

Piret Pikma (*Institute of Chemistry, University of Tartu, Tartu, Estonia*), Heigo Ers, Liis Siinor

[The adsorption of bipyridines on various electrodes from aqueous and ionic liquid electrolytes](#)

10:20 to 10:40

Sho Fujita (*Chemistry, Queen's University, Kingston, Canada*), Stève Baranton, Christophe Coutanceau, Gregory Jerkiewicz

[Effect of Absorbed Hydrogen on Shape-Controlled Pd Nanoparticles for Energy Storage Applications](#)

10:40 to 11:20

Coffee Break

11:20 to 11:40

Mahdi Moghaddam (*Mechanical and Materials Engineering, University of Turku, Turku, Finland*), Louis Godeffroy, Jerzy Jasielec, Frédéric Kanoufi, Nikolaos Kostopoulos, Jean-François Lemineur, Jean-Marc Noël, Pekka Peljo

[Thermodynamics and Kinetics of Charge Transfer in Solid Boosted Flow Batteries: Case of CuHCF and TEMPTMA](#)

11:40 to 12:00

Gyeong-Geon Lee (*Chemistry Education, Seoul National University, Seoul, Korea*), Hun-Gi Hong

[Catalytically Synthesized Prussian Blue by a One-Step Copolymerization of Polydopamine-Polypyrrole for Electrochemical Sensing of Hydrogen Peroxide](#)

12:00 to 12:20

Cuibo Liu (*Institute of Molecular Plus, Tianjin University, Tianjin, China*)

[Electrocatalytic Deuteration using D₂O over Nanostructured Cathode Materials](#)

S2 - Experimental, Theoretical and Computational Advances in Electrochemistry and Electrocatalysis

Room 2

Chaired by: Walter Orellana 9:00-10:40 / Catalina Astudillo 11:20 - 12:20

09:00 to 09:40 Keynote

Lior Elbaz (*Chemistry, Bar Ilan University, Ramat-Gan, Israel*)

[Development of Electrochemical Activity Descriptor for PGM-free ORR Catalysts](#)

09:40 to 10:00

César Zúñiga (*Department Materials Chemistry, University of Santiago de Chile, Santiago, Chile*), Federico Tasca

[Pentacoordinated Fe Phthalocyanine as Bifunctional Catalyst for the Oxygen Reduction Reaction and the Oxygen Evolution Reaction](#)

10:00 to 10:20

Mohammadreza Karamad (*Physics, University of Calgary, Calgary, Canada*),

[Transition Metal Nitrides for Electrochemical CO Reduction Reaction](#)

10:20 to 10:40

Catalina Astudillo (*Department of Nanocatalysis, J. Heyrovsky Institute of Physical Chemistry of CAS, Prague, Czech Republic*), Petr Krtil, Katerina Minhova-Macounova, Roman Nebel

[Selectivity of doped Ru-rich oxides in parallel oxygen and chlorine evolution reactions](#)

10:40 to 11:20

Coffee Break

11:20 to 11:40 Invited

Axel Gross (*Institute of Theoretical Chemistry, Ulm University, Ulm, Germany*)

[Atomistic View on Catalytic Surfaces in Interfacial Electrochemistry](#)

11:40 to 12:00

Gonzalo Escobar (*departamento de Química-Física, Pontificia Universidad Católica de Chile, Santiago, Chile*), Gonzalo Escobar, Karina Muñoz, Alejandro Toro, Jose Zagal

[Evidencing the effects of ligands substitution in pyridinic macro-cycles to model the active sites of carbon-based ORR catalysts: activity descriptors and electron delocalization analysis.](#)

12:00 to 12:20

Daniel Gomez Bustos (*Department of Chemistry and Biochemistry, University of Texas at El Paso, El Paso, USA*), Balazs Pinter

[Tandem photoredox catalysis of \$\[\text{Ir}\(\text{ppy}\)_2\(\text{dtb-bpy}\)\]^\pm\$: Identifying the co-catalyst by DFT](#)

Tuesday 29 November 2022 - Afternoon

S1 - Challenges in Molecular Electrochemistry and Surface Reactivity

Room 1

Chaired by: Jose Zagal

15:00 to 15:40 Keynote

Daniel Scherson (*Chemistry, Case Western Reserve University, Cleveland, USA*),
Nicholas Georgescu, Qi Han, Arvind Singh Heer, Harlan Mantelli

[Electrochemical Stimulation of Monopolar Electrodes](#)

15:40 to 16:00

Coffee Break

S2 - Experimental, Theoretical and Computational Advances in Electrochemistry and Electrocatalysis

Room 2

Chaired by: Federico Tasca

15:00 to 15:40 Keynote

Matteo Grattieri (*Chemistry, Università degli Studi di Bari Aldo Moro, Bari, Italy*),
Angela Agostiano, M. Lucia Curri, Elisabetta Fanizza, Gianluca M. Farinola,
Rossella Labarile, Pierluigi Lasala, Paolo Stufano, Massimo Trotta, Danilo Vona,
Lilian de Moura Torquato

[Tuning Intact Photosynthetic Bacteria-Electrode Interfaces: from Biophotocurrent Generation to Biosensor Development](#)

15:40 to 16:00

Coffee Break

Wednesday 30 November - Morning

S1 - Challenges in Molecular Electrochemistry and Surface Reactivity

Room 1

Chaired by: *Lo Gorton 9:00-10:40 / Justus Masa 11:20-11:40*

09:00 to 09:40 Keynote

Angel Cuesta (*Department of Chemistry, University of Aberdeen, Aberdeen, United Kingdom*), Laura Perez-Martinez

[The Dehydrogenation of Methanol on Pt Electrodes as Revealed by Time-Resolved ATR-SEIRAS](#)

09:40 to 10:00

Kengo Hamada (*Kawasaki Technical Support Department, Kanagawa Institute of industrial Science and Technology, Kawasaki, Japan*), Yasuhisa Akutsu, Daisuke Aoki, Yasuo Hirabayashi, Tsuyoshi Ochiai

[Evaluation of slight amounts of intermediate products in photocatalytic reactions](#)

10:00 to 10:20

Tsuyoshi Ochiai (*Materials Analysis Group, Kawasaki Technical Support Departm, Kanagawa Institute of industrial Science&TEChnology (KISTEC), Kawasaki, Japan*), Kengo Hamada, Moe Sasaki, Tsukahro Yahagi

[Electrolytic ozone generation at Pt nano-sponge electrode prepared by multiple electrostrike method](#)

10:20 to 10:40

Janika Wagner (*LAM - Electrochemical Technologies, Karlsruhe Institute for Technology, Karlsruhe, Germany*), Perla B. Balbuena, Ulrike Krewer, Dacheng Kuai

[Model-Based Investigation of the Influence of the Electrolyte Additive VC on the initial SEI formation on lithium metal](#)

10:40 to 11:20

Coffee Break

11:20 to 11:40

Jose H. Zagal (*Chemistry and Biology, University of Santiago de Chile, Santiago, Chile*), Laura Scarpetta-Pizo, Nayareth Vilches-Labbe, Ingrid Ponce, Ricardo Venegas

[Reactivity Descriptors for the Reduction of O₂ of MN₄ Molecular Catalysts Compared to Those for Metallic Electrodes](#)

S2 - Experimental, Theoretical and Computational Advances in Electrochemistry and Electrocatalysis

Room 2

Chaired by: Daniel Scherson 9:00-10:40 / Walter Orellana 11:20-11:40

09:00 to 09:40 Keynote

Walter Orellana (*Departamento de Ciencias Físicas, Universidad Andres Bello, Santiago, Chile*)

[Deactivation of graphene-supported Fe phthalocyanine in acidic and alkaline media: *ab-initio* molecular dynamic simulations](#)

09:40 to 10:00 Invited

Ingrid Ponce (*Ciencias del Ambiente, Ingrid Ponce, Santiago, Chile*), Alexis Aspee, Pablo Barrias, Francisco Mura, Karina Muñoz, Ruben Oñate, Laura Scarpetta, Ricardo Venegas, Nayareth Vilches, José H. Zagal

[Electron Spin-dependent Electrocatalysis for the Oxygen Reduction Reaction in Bio-inspired Supramolecular FePc Device](#)

10:00 to 10:20

Kosmos Liam Varvaris (*Chemistry, Queen's University, Kingston, Canada*), Derek Esau, Timo Jacob, Gregory Jerkiewicz, Fabian Schuett

[Controlled Atmosphere Flame Fusion Growth of Cobalt and Copper Single Crystal Electrodes for Electrochemistry and Electrocatalysis](#)

10:20 to 10:40

Arkadiusz Grempla (*Faculty of Chemistry, University of Warsaw, Poland*), Paulina Bachurska, Damian Dziubak, Karolina Pulka-Ziach, Slawomir Sek

[pH-sensitive oligoureas for functional molecular layers](#)

10:40 to 11:20

Coffee Break

11:20 to 11:40 Invited

Federico Tasca (*Química de los Materiales, USACH, Santiago, Chile*), Cesar Cesar Zuñiga, Angelica Gatica, Walter Orellana, Soledad Ureta, Jose Zagal

[Fe Phthalocyanines and Fe Penta-coordinated Phthalocyanines for the Oxygen Evolution and Oxygen Reduction Reactions](#)

Poster Presentations

Monday & Tuesday

16:00 to 18:00 **Poster session**

S1 - Challenges in Molecular Electrochemistry and Surface Reactivity

s01-001

Soledad Bollo (*Pharmacological Sciences, University of Chile, Santiago, Chile*)[Synergic effect of metal phosphide nanoparticles \(M = Ni and Co\)/carbon fibers for glucose oxidation](#)

s01-003

Juan Jose Diaz Gallegos (*Nanotechnology, Instituto Tecnológico y de Estudios Superiores de Monterrey, López Mateos, Mexico*),

Anaid Cano, Brenda García Farrera, Javier V. Lizama

[Layered anodes via reactive magnetron sputtering deposition for electrochemical applications](#)

s01-004

Sho Fujita (*Chemistry, Queen's University, Kingston, Canada*), Stève Baranton, Christophe Coutanceau, Gregory Jerkiewicz[Structural Change of \$\beta\$ -Nickel Hydroxide Nanosheets Upon Charge-Discharge Cycling](#)

s01-005

Angélica Gatica (*Department Materials Chemistry, University of Santiago de Chile, Santiago, Chile*), Federico Tasca, Nicolás Troncoso, César Zúñiga Loyola[Oxygen reduction Reaction Using Nanoparticles of 68-Gold atoms: An electrocatalytic and theoretical analysis.](#)

s01-006

Magdalena Hromadova (*Electrochemistry at the Nanoscale, J. Heyrovský Institute of Physical Chemistry of the CAS, Prague, Czech Republic*),

Jakub Šebera, Magdaléna Hromadová, Jirí Kaleta, Viliam Kolivoska, Stepánka Nováková Lachmanová, Lubomír Pospíšil, Frantisek Vavrek

[Odd-even effect in charge transport through molecules with multiple \$\sigma\$ -bonded conductance pathways.](#)

s01-007

Geraldine Jara Reyes (*Departamento de Química de los Materiales, Universidad de Santiago de Chile, Santiago, Chile*), Nicolas Agurto, Carolina Candia, Elizabeth Imbarack, Camila Olguin, Jorge Pavez, Carlos Silva

[Design and study of a molecular electrode platform based on azo-aryl.](#)

s01-008

Yoshiki Kato (*Graduate School of Arts and Sciences, Iwate University, 4-3-5, Ueda, Morioka, Iwate, Japan*), Tatsuya Takeguchi

[Improvement of Energy Efficiency and Suppression of ZAB Overvoltage](#)

s01-010

Carlos Lema (*Organic and Physical Chemistry, University of Chile, Santiago, Chile*), Raul Moscoso

[Nanostructured Platform of Buckypaper Based on MWCNT and Nitroaromatics](#)

s01-011

Jirí Ludvík (*Molecular Electrochemistry and Catalysis, Ústav Fyzikální Chemie J. Heyrovského AVR, Praha 8, Czech Republic*), Lucie Koláčná, Vojtech Kubicek

[Electrochemistry of Isomeric Cu-Azamacrocyclic Complexes](#)

s01-013

Camila Olguín (*Departamento de Química de los Materiales, Universidad de Santiago de Chile, Santiago, Chile*), Nicolás Agurto, Carolina Candia, Elizabeth Imbarack, Geraldine Jara, Jorge Pavez, Carlos Silva

[Chemosensors and electrochemical catalysts based on electrodes modified with diazo calix\[4\]arenes derivatives.](#)

s01-014

Berlane Santos (*Chemistry Institute, University of Sao Paulo, Sao Paulo, Brazil*), Lúcio Angnes, Fernanda Carli, Claudimir do Lago, Ivano Gutz

[Demonstrating the Formation of Hemiesters of Carbonic Acid on Modified Gold Electrode Surface](#)

s01-016

Liis Siinor (*Institute of Chemistry, University of Tartu, Tartu, Estonia*), Heigo Ers, Piret Pikma

[The Adsorption Studies at Solid | Liquid Interface - Refining the Molecular-level Understanding](#)

s01-017

Nicolás Troncoso (*Department Materials Chemistry, Universidad de Santiago de Chile, Santiago, Chile*), Angélica Gatica, Federico Tasca, César Zúñiga Loyola

[Oxygen Evolution Reaction and the Oxygen Reduction Reaction Catalyzed by Pentacoordinated Fe Phtalocyanine as Bifunctional Catalyst](#)

s01-018

Kosmos Liam Varvaris (*Chemistry, Queen's University, Kingston, Canada*), Derek Esau, Gregory Jerkiewicz

[Investigation of the Hydrogen Electrode Reactions on Ni\(hkl\) Electrodes](#)

s01-019

Mariusz Walkowiak (*Centre of Electrochemical Energy Storage, Lukasiwicz Research Network, Poznan, Poland*), Marcin Janczarek, Mateusz Jankowski, Teofil Jesionowski, Magdalena Przybylczak

[Catalytic Activity of Sub-Stoichiometric Metal Oxides Towards Sulfur Species in Lithium-Sulfur Cell](#)

S2 - Experimental, Theoretical and Computational Advances in Electrochemistry and Electrocatalysis

s02-001

Rafael Armijo (*Science, Engineering, and Technology Faculty, Universidad Mayor, Santiago, Chile*), Fabiola Pineda

[Potential Use of MXenes as a New Anti-Corrosive Nanomaterial in a Solar-Thermal Plant](#)

s02-002

Felipe Barriá Garrido (*Centro Integrativo de Biología y Química Aplicada (CIBQA), Universidad Bernardo O'Higgins, Santiago, Chile*), Gabriel Abarca, Karina Muñoz Becerra, Cristian Valdebenito, Ricardo Venegas

[Evaluation of the catalytic activity of as-synthesized multimetallic Fe-Co-Ni coordination polymer as electrocatalysts for the oxygen reduction reaction.](#)

s02-003

Carolina P. Candia (*Departamento de Química de los Materiales, Universidad de Santiago de Chile, Santiago, Chile*), Nicolás Agurto, Sandra Fuentes, Elizabeth Imbarack, Geraldine Jara, Camila F. Olgún, Jorge Pavez, Carlos P. Silva, José H. Zagal

[Covalent Modification of Glassy Carbon Surface via Radical-Induced Grafting from Electrochemical Oxidation of Imine Derivatives](#)

s02-004

Fernando Díaz (*Departamento de Electrocatalisis, Universidad de Santiago de Chile, Santiago, Chile*), J. Francisco Silva

[Functionalized Self-Assembled Monolayers with Gold Nanoparticles for the Detection of Steroid Hormones](#)

s02-005

Fernando Díaz (*Departamento de Electrocatalisis, Universidad de Santiago de Chile, Santiago, Chile*)

[Cu Nanostructures Molecularly Anchored to Substrates and Applied to the Electrochemical Reduction of CO₂](#)

s02-006

Batnyagt Garavdorj (*Chemistry, Iwate University, Morioka, Japan*),
Md. Mijanur Rahman, Masato Saikawa, Tatsuya Takeguchi, Koichi Ui,
Hidenobu Wakita, Takumi Yoshida

[Improved Activity of High Surface Area Pt-Based Nanowires as Cathode Catalyst Under PEFC Operating Conditions](#)

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Bohdan Josypcuk (*Electrochemistry at the Nanoscale, J. Heyrovsky Institute of Physical Chemistry, Prague, Czech Republic*), Sofia Tvorynska

[Electrochemical flow-through biosensing systems with spatially separated enzymatic and detecting parts](#)

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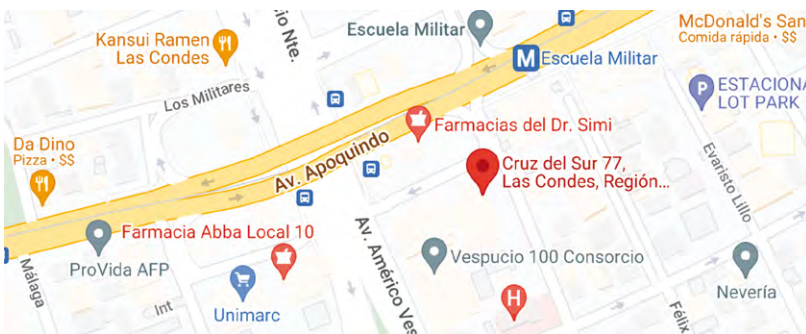
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