

Program of the
20th Topical Meeting
of the
International Society of
Electrochemistry

Advances in Lithium and Hydrogen
Electrochemical Systems for
Energy Conversion and Storage

19-22 March 2017
Buenos Aires, Argentina

Organized by:
Division 3 Electrochemical Energy Conversion and Storage
Division 4 Electrochemical Materials Science
ISE Region Argentina



International Society of Electrochemistry
Chemin du Closelet 2
1006 Lausanne
Switzerland

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Printed in Argentina

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Sunday 19 March 2017 - Afternoon

Opening Ceremony & Welcome Reception

Pontificia Universidad Católica Argentina

18:00 to 20:00

Chaired by: Agustín E. Bolzán and Ezequiel Pedro Marcos Leiva

Monday 20 March 2017 - Morning

Lithium Batteries

Auditorio 1 Valsecchi

Chaired by: Ezequiel Leiva and Silvia Bodoardo

09:00 to 09:30 Invited

Alejandro A. Franco (Laboratoire de Réactivité et Chimie de Solides (LRCS),
Université de Picardie Jules Verne & CNRS (UMR 7314), Amiens, France)

[Mesostructure-performance relationships in rechargeable batteries:
challenging the dogma with multiscale computations and immersive
visualization](#)

09:30 to 09:50

Pierre Bernard (LITEN, Université Grenoble Alpes, CEA, Grenoble, France)

[Analysis of Si-based Anode in Li-ion Batteries Combining Electrochemical
Characterization and Multi-Scale Modeling](#)

09:50 to 10:10

Steen Brian Schougaard (Chemistry, NanoQAM and UQAM, Montreal,
Canada)

[Methods for Determining the "Ultimate" Lithium Insertion/Extraction
Kinetics](#)

10:10 to 10:30

Mario El Kazzi (ENE - Energy and Environment, Paul Scherrer Institute
(PSI), Villigen, Switzerland), Daniela Leanza, Petr Novák, Carlos A.F. Vaz

[Monitoring the Chemical and Structural Surface Changes on Single Particles
of Commercial-Like Li-Ion Battery Electrodes](#)

10:30 to 10:50

Coffee Break

10:50 to 11:10

Janine Mauzeroll (Chemistry, McGill University, Montreal, Canada),
Malak Dayeh, Steen Brian Schougaard, Michael E. Snowden

[Properties of Lithium Battery Particles from Electrochemical Micro-Pipets Measurements](#)

11:10 to 11:30

Xinhua Zhu (Department Materials and Chemistry, SURF Group, Vrije
Universiteit Brussels, Brussels, Belgium), Lucia Fernandez Marcia, Rahul
Gopalakrishnan, Annick Hubin, Noshin Omar, Joeri Van Mierlo

[Advanced Electrochemical Impedance Spectroscopy for the Aging Study of Commercial Li Ion Batteries](#)

11:30 to 11:50

Daniel Bélanger (Chimie, Université du Québec à Montréal, Montréal,
Canada)

[Improving the Performance of Energy Storage Materials by Chemical Modification](#)

11:50 to 12:10

Thierry Djenizian (Flexible Electronics Department, Ecole Nationale
Supérieure des Mines de Saint-Etienne, Gardanne, France)

[Electropolymerized Electrodes for High Performance Thin-film Li-ion Microbatteries](#)

12:10 to 12:50 Keynote

Kristina Edstrom Torbjörn Gustafsson (Department of Chemistry,
Angstrom Laboratory, Uppsala University, Uppsala, Sweden)

[Interface and Interphases in Li- and Na-ion batteries](#)

Hydrogen Electrochemical Systems

Aula Magna Cardenal Pironio

Chaired by: Andreas Friedrich and Sara Cavaliere

09:00 to 09:30 Invited

Dario R. Dekel (Chemical Engineering, Technion, Haifa, Israel)

[Anion Exchange Membrane Fuel Cells: State-of-the-Art](#)

09:30 to 09:50

Deborah Jones (ICGM Aggregates, Interfaces and Materials for Energy, CNRS - Université de Montpellier, Montpellier, France), Sara Cavaliere, Nicolas Donzel, Stefano Giancola, Luca Pasquini, Jacques Rozière, Rakhi Sood, Marta Zaton

[High Durability Composite Fuel Cell Membranes](#)

09:50 to 10:10

David Zitoun (Department of Chemistry, Bar Ilan University, Ramat Gan, Israel)

[Low PGM Electrocatalyst for Alkaline Exchange Membrane Fuel Cells](#)

10:10 to 10:30

Aldo Gago (Institute of Engineering Thermodynamics, German Aerospace Center (DLR), Stuttgart, Germany), Philipp Lettenmeier, K. Andreas Friedrich, Jan Majchel, Li Wang

[Synthesis of Highly Active Iridium Catalysts for Anodes of Proton Exchange Membrane Electrolyzers](#)

10:30 to 10:50

Coffee Break

10:50 to 11:10

Katrin F. Domke (Molecular Spectroscopy Department, Max Planck Institute for Polymer Research, Mainz, Germany), Mischa Bonn, Xiao Ling, Sapun H. Parekh

[Nanoscale Distribution of Sulfonic Acid Groups Determines Structure and Binding of Water in Nafion Membranes](#)

11:10 to 11:30

Annika Carlson (Applied Electrochemistry, KTH Royal Institute of Technology, Stockholm, Sweden), Carina Lagergren, Göran Lindbergh, Rakel Wreland Lindström

[Performance limitations in anion-exchange membrane fuel cells](#)

11:30 to 11:50

Thomas Jahnke (Institute of Engineering Thermodynamics, German Aerospace Center (DLR), Stuttgart, Germany), Georg Futter, Arnulf Latz

[A transient 2D PEMFC model to investigate cell performance and degradation](#)

11:50 to 12:10

Plamen Atanassov (Center for Micro-Engineered Materials (CMEM), University of New Mexico, Albuquerque, USA), Kateryna Artyushkova, Ivana Matanovic, Alexey Serov, Michael Workman

[Platinum Group Metal-Free Catalysts Integration in MEA: Catalytic Layer Design for PEMFC and AEMFC](#)

12:10 to 12:50 Keynote

Sanjeev Mukerjee (Chemistry and Chemical Biology, Northeastern University, Boston, USA), Qingying Jia

[Enabling Sustainable Non Noble Metal Electrocatalysts for Oxygen Reduction Reaction](#)

Monday 20 March 2017 - Afternoon

Lithium Batteries

Auditorio 1 Valsecchi

Chaired by: Robert Dominko and Daniel Bélanger

15:00 to 15:20

Robert Kostecki (ESDR, LBNL, Berkeley, USA), Maurice Ayache, Hans A. Bechtel, Angelique Jarry, Michael C. Martin

[IR spectroscopy and Imaging Interfaces in Silicon Anode](#)

15:20 to 15:40

Jong-Sung Yu (Energy Systems Engineering, DGIST, Daegu, Korea), Tong-Hyun Kang, Chunfei Zhang

[3D graphene-functionalized silicon anode for lithium ion battery with excellent cycle stability and rate capability](#)

15:40 to 16:00

Tony Jaumann (Institute of Complex Materials, Leibniz IFW Dresden, Dresden, Germany), Eike Ahrens, Holger Althues, Juan Balach, Susanne Dörfler, Lars Giebeler, Andreas Krause, Markus Piwko, Walter Weber

[In situ Synchrotron XRD of Silicon Nanowires on 3D Carbon Substrates for Li-Ion- and Li-Sulfur-Batteries](#)

16:00 to 16:20

Andreas Krause (Nanowire Group, NaMLab gGmbH, Dresden, Germany), Lars Giebeler, Matthias Grube, Tony Jaumann, Ulrike Langklotz, Alexander Michaelis, Thomas Mikolajick, Steffen Oswald, Walter Weber

[Influence of Ultrathin Carbon Coatings on Silicon Nanowires to Capacity and Cycling Stability in Li-Ion Batteries](#)

16:20 to 16:40

Coffee Break

16:40 to 17:00

Giulio Ferraresi (Energy and Environment Research Division (ENE), Paul Scherrer Institut, Villigen, Switzerland), Lukas Czornomaz, Mario El Kazzi, Petr Novák, Claire Villevieille

[Thin Films of Si/Sn and SiO₂/SnO₂ as Model Anodes in Li-Ion Batteries: Understanding the Electrode/Electrolyte Interface Reactions](#)

17:00 to 17:20

Emiliano Primo (IFEG, FaMAF-Universidad Nacional de Córdoba, CONICET, Córdoba, Argentina), Daniel Barraco, Guillermina Luque

[Comprehensive understanding of aqueous polymers as effective binders for silicon nanoparticles-based anodes for lithium-ion batteries](#)

17:20 to 17:40

Meruyert Karim (School of Engineering, Nazarbayev University, Institute of Battery, Astana, Kazakhstan), Moulay-Rashid Babaa, Zhumabay Bakenov, Azhar Moldabayeva, Anara Molkenova, Yongguang Zhang, Anar Zhexembekova

[Development of SiO₂ based Composite Anode Material for Li-ion Batteries](#)

Hydrogen Electrochemical Systems

Aula Magna Cardinal Pironio

Chaired by: Enrique Herrero and Stanko Brankovic

14:30 to 15:00 Invited

Simon Thiele (Institute of Microsystems Engineering, University of Freiburg, Freiburg, Germany), Matthias Breitweiser, Matthias Klingele, Carolin Klose, Riko Moroni, Severin Vierrath

[Direct Membrane Deposition: a New Way in Membrane Electrode Assembly Manufacturing for Fuel Cells](#)

15:00 to 15:20

Baptiste Verdin (DEHT/STP/LCP, CEA-LITEN, Grenoble, France), Frédéric Fouda-Onana, Pierre Millet

[Current Distribution in Large-Surface Area PEM Electrolysis Cells](#)

15:20 to 15:40

Jin-Soo Park (Department of Green Chemical Engineering, Sangmyung University, Cheonan, Korea), Moon-Sung Kang, Mun-Sik Shin, Chan-Ho Song

[Porous Polybenzimidazole Membranes for High Temperature Proton Exchange Membrane Fuel Cells](#)

15:40 to 16:00

Iryna Zenyuk (Mechanical Engineering, Tufts University, Medford, USA)

[Understanding Water Management in Polymer Electrolyte and Anion Exchange Membrane Fuel Cells through *in-operando* X-ray Computed Tomography](#)

16:00 to 16:20

Kenichiro Ota (Green Hydrogen Research Center, Yokohama National University, Yokohama, Japan), Akimitsu Ishihara, Koichi Matsuzawa, Shigenori Mitsushima, Takaaki Nagai

[NPGM Oxide Cathode with Oxide Support for Advanced PEFCs](#)

16:20 to 16:40

Coffee Break

16:40 to 17:00

Adam Weber (Energy Technologies Area, Lawrence Berkeley National Laboratory, Berkeley, USA), Huai-Suen Shiau

[Modeling Water Management: Alkaline-Exchange-Membrane Fuel Cells](#)

17:00 to 17:20

David Levitan (Instituto de Tecnologías de Hidrógeno y Energías Sostenibles, UBA - CONICET, Ciudad de Buenos Aires, Argentina), Pablo Daniel Giunta, Miguel Angel Laborde

[Numerical modelling of CO poisoning induced sustained oscillations in the anode potential of a PEM fuel cell](#)

17:20 to 17:40

Wolfgang Schmickler (Institute of Theoretical Chemistry, Ulm University, Ulm, Germany)

[Oxygen Reduction in Alkaline Media - a Theoretical Study](#)

Tuesday 21 March 2017 - Morning

Lithium Batteries

Auditorio 1 Valsecchi

Chaired by: Ernesto Calvo and Alejandro Franco

09:00 to 09:30 Invited

Robert Dominko (Department of Materials Chemistry, National Institute of Chemistry, Ljubljana, Slovenia), Giulliana Aquilanti, Iztok Arcon, Sara Drvaric Talian, Lorenzo Stievano, Alen Vizintin

[The role of polysulfides in Li-S batteries](#)

09:30 to 09:50

Alar Janes (Faculty of Science and Technology, Institute of Chemistry, University of Tartu, Tartu, Estonia), Enn Lust, Thomas Thomberg, Tauno Tooming, Ronald Vali

[Synthesis and Characterization of D-Glucose Derived Nanospheric Hard Carbon Negative Electrodes for Lithium- and Sodium-Ion Batteries](#)

09:50 to 10:10

Ulrike Langklotz (Institute of Materials Science, TU Dresden, Dresden, Germany), Christian Heubner, Michael Schneider, Mathias Weiser

[Direct electrochemical synthesis of 3D-nanostructured titania anodes for high power lithium ion batteries](#)

10:10 to 10:30

Guillermina Luque (Departamento de Química Teórica y Computacional, Universidad Nacional de Córdoba, Córdoba, Argentina), Daniel Barraco, Paula Bercoff, Victoria Bracamonte, Emiliano Primo, Lisandro Venosta

[Dual lithium uptake anode materials: crystalline Fe₃O₄ nanoparticles supported over graphitic matrices for lithium-ion batteries](#)

10:30 to 10:50

Coffee Break

10:50 to 11:10

Mariela Gisela Ortiz (Electrochemistry, INIFTA-UNLP, La Plata, Argentina), Silvia Real, Arnaldo Visintin

[Synthesis and Electrochemical Properties of Nickel Oxide as Anodes for Lithium Ion Batteries](#)

11:10 to 11:30

Florencia Marchini (INQUIMAE - CONICET, University of Buenos Aires, Buenos Aires, Argentina), Ernesto Julio Calvo, Santiago Herrera, Natalia Mozzhukhina, Alvaro Y. Tesio, Walter Ramón Torres, Federico J. Williams

[Solvent and electrolyte instability during Oxygen Reduction Reaction in Li-O₂ battery cathodes](#)

11:30 to 11:50

Usman Zubair (Department of Applied Science and Technology, Politecnico di Torino, Turin, Italy), Mojtaba Alidoost, Julia Amici, Silvia Bodoardo, Carlotta Francia, Nerino Penazzi

[rGO Wrapped Activated Microporous Carbon from \$\beta\$ -Cyclodextrin Nanosponges for Li/S Batteries](#)

11:50 to 12:10

Amangeldi Torayev (Laboratoire de Reactivite et Chimie des Solides, University of Picardie Jules Verne, Amiens, France), Alejandro A. Franco, Caroline Gaya, Clare P. Grey, Pieter Magusin, Celine Merlet, Yinghui Yin

[Understanding the role of Li₂O₂ particle size on Li-O₂ battery charge process](#)

12:10 to 12:30

Helmut Baltruschat (Institute of Physical and Theoretical Chemistry, University of Bonn, Bonn, Germany), P. P. Bawol, P. Koenigshoven, P. Reinsberg, A. Weiss

[ORR and OER in Li⁺-Containing DMSO: Further Mechanistic Insights and the Action of Redox-Mediators as Probed by DEMS](#)

Hydrogen Electrochemical Systems

Aula Magna Cardenal Pironio

Chaired by: Dario Dekel and Katrin Domke

09:00 to 09:30 Invited

Sara Cavaliere (Aggregates, Interfaces and Materials for Energy, Institut Charles Gerhardt, University of Montpellier, Montpellier, France), Giorgio Ercolano, Filippo Farina, Ignacio Jiménez-Morales, Deborah Jones, Jacques Rozière

[Pt Thin Film Deposition on Nanofibrous Supports: PEMFC Electrodes with Enhanced Performance and Stability](#)

09:30 to 09:50

Renate Hiesgen (University of Applied Sciences, Department of Basic Science, Esslingen, Germany), K. Andreas Friedrich, Michael Handl, Tobias Morawietz

[Quantitative *in Situ* Analysis of Ionomer Structure in Fuel Cell Catalytic Layers](#)

09:50 to 10:10

Oran Lori (Chemistry, Bar Ilan University, Ramat Gan, Israel), Lior Elbaz, Shmuel Gonen

[Highly Active, Corrosion-Resistant Cathode for Fuel Cells, Based on Platinum and Molybdenum Carbide](#)

10:10 to 10:30

Josef Schefold (Distributed Energy Group, European Institute for Energy Research, Karlsruhe, Germany), Annabelle Brisse

[Stability of Solid Oxide Cells for Steam Electrolysis Analysed in the 10 to above 20 Thousand Hours Range](#)

10:30 to 10:50

Coffee Break

10:50 to 11:10

Elizabeth Santos (Theoretical Chemistry, Ulm University, Ulm, Germany),
Milagros Avila, Maria Fernanda Juarez, Ezequiel Leiva, Oscar Oviedo, Andres
Ruderman

[Hydrogen Oxidation on Nanostructures Electrodes – A Scenario on Stepped Silver Surfaces](#)

11:10 to 11:30

Enrico Pizzutilo (Interface Chemistry and Surface Engineering, Max-Planck-
Institut für Eisenforschung GMBH, Düsseldorf, Germany), Simon Freakley,
Graham J. Hutchings, Karl J.J. Mayrhofer

[Hydrogen peroxide on-site production: a fundamental study on the direct synthesis and electrocatalytic synthesis using Au-Pd catalysts](#)

11:30 to 11:50

Konstantin Petrov (Electrocatalysis, IEES-BAS, Sofia, Bulgaria), Konstantin
Petrov, Dzhamal Uzun

[The Black Sea and Hydrogen Energy](#)

11:50 to 12:10

André Dourado (Fundamental Chemistry, Instituto de Química, USP, São
Paulo, Brazil), Matthias Arenz, Susana Cordoba de Torresi

[H₂ Generation by Electrocatalytic Oxidation of SO₂](#)

12:10 to 12:30

Fernando Zinola (Universidad de la República, Montevideo, Uruguay)

[The role of electrochemical hydrogen evolution at platinum nanoparticles on carbon monoxide oxidation in fuel cells](#)

Tuesday 21 March 2017 - Afternoon

Lithium Batteries

Auditorio 1 Valsecchi

Chaired by: Kristina Edstrom and Thierry Djenizian

14:30 to 15:00 Invited

Silvia Bodoardo (Applied Science and Technology, Politecnico di Torino, Torino, Italy), Julia Amici, Christophe Aucher, Carlotta Francia, Paulina Marquez, Mojtaba Alidoost, Francesco Trotta, Juqin Zeng

[Lithium air batteries: can this be the future for electric vehicles?](#)

15:00 to 15:20

Ernesto Julio Calvo (INQUIMAE, DQIAyQF, CONICET, University of Buenos Aires, Buenos Aires, Argentina), Maria del Pozo Vázquez, Santiago Herrera, Florencia Marchini, Natalia Mozzhukhina, Alvaro Y. Tesio, Walter Ramón Torres, Federico J. Williams

[From the sustainable extraction of lithium to advanced lithium air batteries: An electrochemical approach](#)

15:20 to 15:40

Sergio Brutti (Dipartimento di Scienze, Università della Basilicata, Potenza, Italy)

[1,2-dimethoxyethane degradation chemistry in Li-O₂ batteries](#)

15:40 to 16:00

Julia Amici (DISAT, Politecnico di Torino, Torino, Italy), Mojtaba Alidoost, David Amantia, Silvia Bodoardo, Fabrizio Caldera, Carlotta Francia, Sandra Martinez Crespiera, Nerino Penazzi, Francesco Trotta

[O₂ Selective Membrane Based on a Dextrin-Nanosponge in Polymer Matrix for Li-air Cells Actually Working in Ambient Air](#)

16:00 to 16:20

Gabriela Horwitz (Physics, Comisión Nacional de Energía Atómica, San Martín, Argentina), Henry Andres Cortes Páez, Horacio Corti, Matias Factorovich, M. Paula Longinotti

[Transport of Lithium Ions and Oxygen in Cathodes of Lithium-Air Batteries](#)

16:20 to 16:40

Coffee Break

16:40 to 17:00

Kwangjin Park (Energy Lab, Material Group, Samsung Advanced Institute of Technology, SAIT, Suwon, Korea), Jin-Hwan Park, Byungjin Choi, Suk-Gi Hong, Jun-Ho Park

[Enhancement in the electrochemical performance of zirconium/phosphate bi-functional coatings on \$\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Mn}_{0.05}\text{O}_2\$ by the removal of Li residuals](#)

17:00 to 17:20

Pablo Jiménez Manero (Institut des Matériaux Jean Rouxel, CNRS, Nantes, France), Olivier Aleveque, Franck Dolhem, Joël Gaubicher, Dominique Guyomard, Bernard Lestriez, Eric Levillain, Philippe Poizot

[Properties and performance of a novel lithium-doped state of polyaniline as positive active material and conducting additive for lithium-ion batteries](#)

17:20 to 17:40

Tomáš Kazda (Department of Electrical and Electronic Technology, Brno University of Technology, Brno, Czech Republic), Lubomír Kubáè, Marie Sedlarikova, Lucie Syrová, Tomáš Syrový, Jiří Vondrák

[Cathode material for Li-Ion batteries prepared by screen printing for smart textile applications](#)

Hydrogen Electrochemical Systems

Aula Magna Cardinal Pironio

Chaired by: Simon Thiele and José L. Fernández

14:30 to 15:00 Invited

K. Andreas Friedrich (Electrochemical Energy Technology, German Aerospace Centre (DLR), Stuttgart, Germany)

[Achieving Cost Reduction in PEM Electrolysis by Material Development](#)

15:00 to 15:20

Yasna Acevedo Gomez (Applied Electrochemistry, KTH Royal Institute of Technology, Stockholm, Sweden), Carina Lagergren, Keyvan Raeissi, Hamed Rashtchi, Morteza Shamanian, Rakel Wreland Lindström, Mohammad Zhiani

[Study of electroplated Ni-Mo and Ni-Mo-P coated stainless steel as bipolar plates in PEM fuel cell](#)

15:20 to 15:40

Klaus Wippermann (IEK-3, Forschungszentrum Jülich, Jülich, Germany), Carsten Korte, Susanne Kuhri, Werner Lehnert, Jürgen Wackerl

[Aminoalkylsulfonic Acids as Electrolytes for High Temperature PEM Fuel Cells](#)

15:40 to 16:00

Belen Molina Concha (LEPMI, Grenoble-INP, Grenoble, France), Marian Chatenet, Yasser Ahmad, Nicolas Batisse, Sandrine Berthon-Fabry, Laetitia Dubau, Marc Dubois, Katia Guérin, Frédéric Maillard

[Fluorination surface treatment to mitigate carbon corrosion and improve the durability of Pt electrocatalysts in proton-exchange membrane fuel cells](#)

16:00 to 16:20

Enn Lust (Institute of Chemistry, University of Tartu, Tartu, Estonia), Eneli Härk, Rutha Jäger, Rait Kanarbik, Piia Ereth Kasatkin, Jaak Nerut, Silver Sepp, Indrek Tallo, Thomas Thomberg, Kersti Vaarmets, Peeter Valk

[Development of Novel Catalysts for Polymer Electrolyte Membrane Fuel Cells](#)

16:20 to 16:40

Coffee Break

16:40 to 17:00

Tania Benedetti (School of Chemistry, University of New South Wales, Sydney, Australia), Yibing Li, Lucy Gloag, J. Justin Gooding, Nickson Perini, Edson A. Ticianelli, Richard D. Tilley, Chuan Zhao

[3D Ru-Au branched nanoparticles for OER with enhanced activity and stability](#)

17:00 to 17:20

Lucy Gloag (School of Chemistry, University of New South Wales, Sydney, Australia)

[Structural characterization and growth study of Au-Ru branched nanoparticles for oxygen evolution catalysis](#)

17:20 to 17:40

Ariel Friedman (Department of Chemistry, Bar Ilan University, Ramat-Gan, Israel), Lior Elbaz, Zeev Gross

[Electropolymerization of Metallo-Corroles: Towards a Synergistic Electrocatalyst for Oxygen Reduction Reaction](#)

Wednesday 22 March 2017 - Morning

Lithium Batteries

Auditorio 1 Valsecchi

Chaired by: Guillermina Luque and Brett Lucht

09:00 to 09:30 Invited

Nuria Garcia-Araez (Chemistry, University of Southampton, Southampton, United Kingdom), James Dibden, James Frith, Noramon Intaranont, John Owen, Luyi Yang

[Using redox mediators for Li-O₂ and Li-S batteries and Li recycling](#)

09:30 to 09:50

Johan Hagberg (Department of Applied Electrochemistry, KTH Royal Institute of Technology, Stockholm, Sweden), Kayne Alvim, Alexander Bismarck, Göran Lindbergh, Henry Maples

[Electrophoretic Deposition of LiFePO₄ on Carbon Fibres for Structural Battery Applications](#)

09:50 to 10:10

Aleksei Llusco (Department of Chemical Engineering and Mineral Processing, University of Antofagasta, Antofagasta, Chile), Mario Grageda, Svetlana Ushak

[Synthesis of LiMg_xMn_{2-x}O₄ cathode using lithium compounds with high magnesium content from natural brines](#)

10:10 to 10:30

Chinwe Ikpo (Department of Chemistry, University of the Western Cape, Bellville, Cape Town, South Africa), Ntuthuko Hlongwa, Emmanuel Iwuoha, Zolani Myalo, Miranda Ndipingwi

[Microscopic, Spectroscopic and Electrochemical Properties of Nanocomposite Li₂MnSiO₄/Al₂O₃: a Promising Lithium Ion Battery Cathode](#)

10:30 to 10:50

Coffee Break

10:50 to 11:10

Candace Chan (Materials Science and Engineering, Arizona State University, Tempe, USA), Zachary Gordon, Ting Yang

[Synthesis and Characterization of Nanostructured \$\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}\$ Solid Electrolytes using Electrospinning and Nanocellulose Templating](#)

11:10 to 11:30

Roberto M. Torresi (Instituto de Química, São Paulo, Brazil), Tania Benedetti, Vitor L. Martins, Nedher Sanchez-Ramirez

[Transport properties in ionic liquids and poly\(ionic liquids\) and its lithium mixtures](#)

11:30 to 11:50

Helene Rouault (CEA-French Alternative Energies and Atomic Energy Commission, Liten, Grenoble, France), Anass Benayad, Ewelina Bolimowska, Jorge E. Morales-Ugarte, Catherine C. Santini, Jesus Santos-Pena

[Impregnation Study of Graphite Electrode by Vinylene Carbonate Doped Ionic Liquid Electrolyte](#)

11:50 to 12:10

Marcelina Pyschik (MEET Battery Research Center, University of Münster, Muenster, Germany), Sascha Nowak, Martin Winter

[Decomposition and Reaction of the Additive 1,3-Propane Sultone with Electrolyte Compounds](#)

12:10 to 12:50 *Keynote*

Doron Aurbach (Chemistry, Bar Ilan University, Ramat, Israel), Michal Afri, Aryeh Frimer, Daniel Hirshberg, Wonjin Kwak, Daniel Sharon, Yang-Kook Sun

[Recent Insights related to Li-O₂ Battery Technology](#)

Hydrogen Electrochemical Systems

Aula Magna Cardenal Pironio

Chaired by: Elizabeth Santos and David Zitoun

09:00 to 09:30 Invited

Stanko Brankovic (Cullen College of Engineering, ECE Department, Houston, USA), Hieu Doan, Lars Grabow, Dongjun Wu, Qiuyi Yuan

[Finite Size Effects in Pt Monolayer Catalysts](#)

09:30 to 09:50

Loic Assaud (Chemistry, ICMMO, University Paris-Sud, University Paris-Saclay, Orsay, France), Joumada Al Cheikh, Manuel Antuch, Julien Bachmann, Pierre Millet, Alireza Ranjbari

[Materials and Nanostructures in Electrochemical Energy Conversion: Functionality Understood at the Atomic Level](#)

09:50 to 10:10

Adriana Serquis (Caracterización de Materiales, CNEA - CONICET, Bariloche, Argentina), Mauricio Arce, Alberto Caneiro, Afra Fernández Zuvich, Diego Lamas, Federico Napolitano, Analía Soldati, Horacio Troiani

[Nanostructured Ni/\(Ce,Gd\)O_{2-δ} Anodes For Intermediate-Temperature Solid-Oxide Fuel Cells \(IT-SOFC\)](#)

10:10 to 10:30

Paola Dager (Caracterización de Materiales, Centro Atomico Bariloche, S.C. de Bariloche, Argentina), Alberto Caneiro, Liliana Mogni, Sergio Soria, Guillermo Zampieri

[Influence of Mo-site doping on the electrochemical properties of Sr₂MgMo_{0.9}A_{0.1}O_{6-δ} \(A = Co and Mn\)](#)

10:30 to 10:50

Coffee Break

10:50 to 11:10

Enrique Herrero (Instituto de Electroquímica, Universidad de Alicante, Alicante, Spain), Valentín Briega-Martos, Adolfo Ferre-Vilaplana

[Understanding the ORR in Nitrogen-Doped Graphitic Materials](#)

11:10 to 11:30

Javier Recio (Inorganic Chemistry, Pontifical Catholic University of Chile, Santiago de Chile, Chile), Mónica Ortiz, Ricardo Venegas, José H. Zagal, César Zúñiga

[Study of formal potential of pyrolyzed catalysts as reactivity index for oxygen reduction reaction in basic media](#)

11:30 to 11:50

Gonzalo Montiel (Procesos Superficiales, INTI, San Martín, Argentina), Mariano Bruno, Horacio Corti, Eduardo Fuentes Quezada, Federico Viva

[Optimized mesoporous carbon supports for Pt-Ru catalyst. Synthesis and characterization](#)

11:50 to 12:10

Federico Calle-Vallejo (Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands), Aliaksandr S. Bandarenka, David Loffreda, Marcus D. Pohl, David Reinisch, Philippe Sautet

[How Concavities Enhance the Activity of Platinum Nanostructures for the Oxygen Reduction Reaction](#)

12:10 to 12:50 Keynote

Edson A. Ticianelli (Institute of Chemistry of Sao Carlos, University of Sao Paulo, São Carlos, Brazil), João Victor P. Godoy, Ana M. Gómez-Marin, Nickson Perini, Gabriel C. Silva, Victor M.P. Silva

[Activity and Stability of Carbide- and Oxide-based Electrocatalysts for the H₂/O₂ Evolution Reactions in Acid and Alkaline Electrolytes](#)

Wednesday 22 March 2017 - Afternoon

Lithium Batteries

Auditorio 1 Valsecchi

Chaired by: Roberto Torresi and Nuria Garcia Araez

14:30 to 15:00 Invited

Brett Lucht (Chemistry, University of Rhode Island, Kingston, USA)

[Development of novel electrolyte additives for designed surface modification](#)

15:00 to 15:20

Babak Rezaei Rad (IEK-12, Helmholtz-Institut Münster, Forschungszentrum Juelich GmbH, Muenster, Germany), Serife Kaymaksiz, Martin Winter

[Aluminum dissolution preventing additive for LiTFSI based liquid electrolytes in lithium ion battery application](#)

15:20 to 15:40

Bao Kou Xiong (Université de Tours, France)

[Measurement of Oxygen and Hydrogen Solubilities in Electrolytes for Lithium-ion Batteries](#)

15:40 to 16:00

Nicolas Jäckel (Energy Materials, INM- Leibniz Institute for New Materials, Saarbrücken, Germany), Doron Aurbach, Mikhael D. Levi, Volker Presser, Netanel Shpigel

[In situ monitoring of elastic properties of common binders via electrochemical quartz microbalance with dissipation and dilatometry](#)

16:00 to 16:20

Abdilbari Mussa (Chemical Engineering and Technology, KTH Royal Institute of Technology, Stockholm, Sweden), Matilda Klett, Göran Lindbergh, Raket Wreland Lindström

[Fast Top-up Charging of Lithium-ion Batteries - A Comparative Ageing Study](#)

16:20 to 16:40

Coffee Break

16:40 to 17:00

Ken Darcovich (Energy, Mining and Environment Portfolio, National Research Council of Canada, Canada), Yacine Hazaz, Steven Recoskie, Hajo Ribberink

[Battery Pack Thermal Management in Vehicle-to-Grid Applications](#)

17:00 to 17:20

Elodie Guyot (CP2S, CEM, Institut Jean Lamour Université de Lorraine CNRS, Metz, France), David Bonina, Clotilde Boulanger, Samuel Kenzari

[From End-of-life Lithium Based Batteries to Lithium Value-creation by a Green Electrochemical Innovative Process](#)

17:20 to 17:40

Fabian Benavente (Instituto de Investigaciones Químicas, Universidad Mayor de San Andres, La Paz, Bolivia), Cesario Ajpi, Mario Blanco, Saul Cabrera, Naviana Leiva, Göran Lindbergh, Anders Lundblad, Eduardo Palenque, Max Vargas

[Development of Lithium ion Battery Components in Bolivia: Towards Renewable Energy Applications](#)

Hydrogen Electrochemical Systems

Aula Magna Cardenal Pironio

Chaired by: Ana Castro Luna and Wolfgang Schmickler

14:30 to 15:00 Invited

José H. Zagal (Chemistry of Materials, Santiago, Chile)

[An overview of the reactivity indexes of \$MN_4\$ and \$MN_2\$ molecular catalysts for the reduction of \$O_2\$](#)

15:00 to 15:20

Ting He (Energy and Environment Science and Technology, Idaho National Laboratory, Idaho Falls, USA), Dong Ding

[Perovskite Proton Conductors for Energy Conversion and Storage at Intermediate Temperatures](#)

15:20 to 15:40

Federico Tasca (Química de los Materiales, Universidad de Santiago de Chile, Santiago, Chile), Karinna Neira, Francisco Javier Recio, Jorge Riquelme, Ricardo Venegas, José H. Zagal, César Zúñiga

[Comparison of the Catalytic Activity Towards the \$O_2\$ Reduction of \$FeMN_4\$ Catalysts Simply Adsorbed or Coordinated to Pyridine Anchored to Carbon Nanotubes](#)

15:40 to 16:00

Earving Arciga Duran (Materiales Compuestos y Recubrimientos, CIDETEQ S.C., Santiago de Querétaro, Mexico), Juan Carlos Ballesteros Pacheco, Gabriel Trejo Córdova

[Electrodeposition of \$Co_3O_4\$ thin films for their application in the Oxygen Evolution Reaction](#)

16:00 to 16:20

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

[Electrocatalysis of Oxygen Reduction with Metalloporphyrins: Identification of the Parameters Affecting the Catalyst Activity and Stability](#)

16:20 to 16:40

Coffee Break

16:40 to 17:00

María Retuerto (Instituto de Catalisis y Petroleoquímica, CSIC, Madrid, Spain), Miguel Antonio Peña, Sergio Rojas

[Perovskite-oxide electrocatalysts with high OER activity and durability in acid media: \$\text{Sr}_{1-x}\text{Na}_x\text{RuO}_3\$](#)

17:00 to 17:20

Federico Viva (Department of Condensed Matter Physics, Comisión Nacional de Energía Atómica, San Martín, Argentina), Ana Katherine Diaz Duran, Federico Roncaroli

[Metal Organic Frameworks as Catalyst Precursors for Oxygen Reduction in Fuel Cells](#)

17:20 to 17:40

Ricardo Venegas (Inorganic Chemistry, Pontificia Universidad Católica de Chile., Santiago, Chile), Luis Lemus, Karina Muñoz-Becerra, Javier Recio, Alejandro Toro-Labbé, José H. Zagal

[Reactivity predictors for oxygen reduction reaction \(ORR\) on substituted Cu\(I\) 1,10-phenanthroline-modified electrodes](#)

Poster Presentations

Session 1 on Monday 17:40 to 19:00

Session 2 on Tuesday 17:40 to 19:00

SESSION 1: Poster Presentations - Lithium Batteries

s1-001

Paulina Marquez (Química de los Materiales, Usach, Santiago, Chile), M.J. Aguirre, Julia Amici, Silvia Bodoardo, Carlotta Francia, Juan Luis Gautier, F. Herrera

[Effect of binder on performance of aprotic Li-O₂ cells](#)

s1-002

Graciela Abuin (Procesos Superficiales, INTI-Instituto Nacional de Tecnología Industrial, San Martín, Argentina), Roxana Coppola, Guido de Titto, Liliana Diaz, Patricia Eisemberg

[Preparation and Characterization of Nanofibrillated Cellulose Separators for Lithium-Ion Batteries](#)

s1-003

Daniela Alburquenque (Facultad de Química y Biología, Universidad de Santiago de Chile, Santiago, Chile), Juan Luis Gautier, José Francisco Marco, Loreto Troncoso

[Synthesis, Characterization and Cathodic Behavior of Nanostructured Mixed Oxides LiNi_xCo_yMn_{2-x-y}O_{4±δ} \(x, y = 1/3, 1/4\)](#)

s1-004

Analía Natali Arias (San Salvador de Jujuy, Centro de Investigaciones y Transferencia de Jujuy- CONICET, San Salvador de Jujuy, Argentina), Victoria Flexer, Gabriel A. Planes, Alvaro Y. Tesio

[Electrochemical and spectroscopic studies of carbon-based porous electrodes for lithium-sulfur batteries](#)

s1-005

Violetta Arszewska (Fundamental Aspects of Materials and Energy, Delft University of Technology, Delft, Netherlands)

[Graphite Encapsulation of Silicon Particles Using Different Metals as Template For Negative Electrode in Lithium-Ion Batteries](#)

s1-006

Loic Assaud (Chemistry/ICMMO, University Paris-Sud, University Paris-Saclay, Orsay, France), Anshuman Agrawal, Jean-Claude Badot, Olivier Dubrunfaut, Sylvain Franger, Nicolas Gauthier, Bernard Lestriez

[Charge Transport Limitations in Hierarchical Composite Electrodes of Lithium-ion Batteries](#)

s1-007

Sergio Brutti (Dipartimento di Scienze, Università della Basilicata, Potenza, Italy)

[A carbon-coated mixed olivine \$\text{Li}\(\text{Co}_{1/3}\text{Fe}_{1/3}\text{Mn}_{1/3}\)\text{PO}_4\$ material as positive electrode in lithium cells](#)

s1-008

Cecilia Calderón (Instituto de Física Enrique Gaviola, Universidad Nacional de Córdoba, Córdoba, Argentina), Daniel Barraco, Ezequiel Leiva, German Lener, Karim Sapag, Arnaldo Visintin

[Carbonaceous Separators Modified to Improve the Cyclability of Lithium Sulfur Batteries](#)

s1-009

Susana Chauque (Instituto de Investigaciones en Fisicoquímica de Córdoba, Universidad Nacional de Córdoba, Córdoba, Argentina), Daniel Barraco, Osvaldo R. Camara, Ezequiel Leiva, Fabiana Oliva

[Lithium Titanate Synthesized by Sol-Gel Method: Influence of the Final Calcination Temperature in the Lithium-Ion Storage](#)

s1-010

Susana Chauque (Instituto de Investigaciones en Fisicoquímica de Córdoba, Universidad Nacional de Córdoba, Córdoba, Argentina), Osvaldo R. Camara, Fabiana Oliva, Roberto M. Torresi

[Importance of the binder on the electro-activity of lithium titanate as negative materials in LIBs using ionic liquids as electrolyte](#)

s1-011

Melina Cozzarin (YPF Tecnología S.A., CONICET, Berisso, Argentina), Alejandra Calvo, Antonela Canneva, Miguel Sanservino, Jorge Thomas, Arnaldo Visintin

[High-voltage spinel \$\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4\$ for lithium-ion batteries: synthesis improvement using different thermal treatment](#)

s1-012

Giulio Ferraresi (Energy and Environment Research Division (ENE), Paul Scherrer Institut, Villigen, Switzerland), Mario El Kazzi, Petr Novák, Chih-Long Tsai, Sven Uhlenbruck, Claire Villevieille

[All-Solid-State Li Battery Based on \$\text{c-Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}\$ Solid Electrolyte and Alloy Anode Materials](#)

s1-013

Eduardo Fuentes Quezada (Physics, Comisión Nacional de Energía Atómica, San Martín, Argentina), Mariano Bruno, Horacio Corti, Matias Factorovich, Gonzalo Montiel, Federico Viva

[Synthesis and Characterization of Mesoporous Carbon Electrodes for Lithium-Air Batteries](#)

s1-014

Nuria Garcia-Araez (Chemistry, University of Southampton, Southampton, United Kingdom), James Dibden, John Owen

[A Quantitative Tool to Predict the Phase Composition of Lithium-Sulfur Batteries](#)

s1-015

Christopher Heim (Electrochemical Energy Storage, German Aerospace Center, Stuttgart, Germany), K. Andreas Friedrich, Ezequiel Leiva, Manuel Otero, Norbert Wagner

[Design-Considerations regarding Silicon/Graphite and Tin/Graphite Composite Electrodes for Lithium-Ion Battery](#)

s1-016

Eduardo Rubén Henquín (INGAR - FAC. de ING. QCA., CONICET - UNL, Santa Fe, Argentina), Pio Antonio Aguirre

[Solar microgeneration and accumulation in Lithium ion Batteries. Simplified phenomenological model](#)

s1-017

Ezequiel Leiva (Facultad de Ciencias Químicas, Universidad Nacional De Córdoba, Villa el Zanjón, Argentina), Maximiliano Gavilan, Beatriz López de Mishima, Oscar Oviedo, Eduardo Perassi, Oscar Pinto

[Computer Simulations of Lithium Ion Storage in Graphite](#)

s1-018

German Lener (Laboratory of Sustainable Energy, IFEG-Conicet, National University of Córdoba, Córdoba, Argentina), Daniel Barraco, Ezequiel Leiva, Manuel Otero

[Energetic and Phonon Dispersion of Lithium Silicates Formed *in Operando* Reduction of SiO₂ with Li in Lithium-ion Battery. A Theoretical and Experimental Study](#)

s1-019

Brett Lucht (Chemistry, University of Rhode Island, Kingston, USA), Jason Dwyer, Jiyeon Kim

[Electrochemical research efforts on lithium batteries, catalysis and nano-structures](#)

s1-020

Guillermina Luque (Departamento de Química Teórica y Computacional, Universidad Nacional de Córdoba, Córdoba, Argentina), Daniel Barraco, Andrea Calderón, Ezequiel Leiva, Patricio Vélez

[Computational studies of polysulfides interaction with graphene oxide structures](#)

s1-021

Pablo Martinez (MMyN, Instituto Balseiro CONICET CAB CNEA, S.C. Bariloche, Argentina), Enio Lima Jr, Mario Sergio Moreno, Fabricio Ruiz

[Synthesis and characterization of LiFePO₄ prepared by high temperature thermal decomposition of organometallic precursors](#)

s1-022

Pablo Martinez (MMyN, Instituto Balseiro CONICET CAB CNEA, S.C. Bariloche, Argentina), Gustavo Morales, Mario Sergio Moreno, Fabricio Ruiz, Maximiliano Zensich

[FeOOH/graphene oxide composite as anode for lithium ion battery](#)

s1-023

Rodrigo Montoya López (SURF, Vrije Universiteit Brussel, Brussels, Belgium), Johan Deconinck, Annick Hubin, Nils Van den Steen

[Simplification of the Porous Electrode Theory for an Efficient 3D Isothermal-Electrochemical Lithium-Ion Battery Model](#)

s1-024

Natalia Mozzhukhina (Institute of Physical Chemistry of Materials, Environment and Energy Chemistry, University of Buenos Aires, Buenos Aires, Argentina), Ernesto Julio Calvo, Lucila Mendez de Leo, Alvaro Y. Tesio

[PYR₁₄TFSI Ionic Liquid for Li-air Battery](#)

s1-025

Pedro Muñoz (Facultad de Ciencias Exactas Físicas y Naturales, Universidad Nacional de Córdoba, Córdoba, Argentina), Gabriel Correa Perelmuter, Arpit Maheshwari, Massimo Santarelli

[Thermal behavior investigation of a LiFePO₄ battery cell determined by optimum power management of fuel cell electric vehicles](#)

s1-026

Manuel Otero (Departamento de Química Teórica y Computacional, Universidad Nacional de Río Cuarto, Río Cuarto, Argentina), María B. Suarez, Estefanía Baigorria, M. Belen Ballatore, Edgardo N. Durantini, Miguel Gervaldo, Ezequiel Leiva, María E. Milanesio, Luis Otero, Agustín Sigal, Claudia Solis

[Tetrapyrrolic Organic Polymers Cathodes for Lithium Ion Batteries](#)

s1-027

Manuel Otero (Departamento de Química Teórica y Computacional, Universidad Nacional de Córdoba, Río Cuarto, Argentina), Daniel Barraco, Segio Ceppi, Ezequiel Leiva, Guillermina Luque, Carla Robledo, Guillermo Stutz

[Inelastic X-ray scattering spectroscopy of Li stage intercalation in graphite](#)

s1-028

Kwangjin Park (Energy Lab, Material Group, Samsung Advanced Institute of Technology, SAIT, Suwon, Korea), Byungjin Choi, Suk-Gi Hong, Jun-Ho Park

[Synergistic effect of Al₂O₃ and LiF dual coating process for structurally stable Li-ion battery cathodes](#)

s1-029

Jun Peng (Faculty of Chemistry, Northeast Normal University, Changchun, Jilin, China), Yanhong Ding, Shifa-Ullah Khan

[Polyoxometalate-assisted Synthesis of Polydopamine Composite as Anode Material for Binder-free High-performance Lithium Ion Batteries](#)

s1-030

Eduardo Perassi (Dto. Química Teórica y Computacional, Fac. de Ciencias Químicas, Universidad Nacional de Córdoba, Córdoba, Argentina), Daniel Barraco, Ezequiel Leiva

[Shedding Light on the Entropy Change Found for the Li-ion Storage in Graphite](#)

s1-031

Konstantin Petrov (Electrocatalysis, IIEES-BAS, Sofia, Bulgaria), Borislav Abrashev, Dzhamal Uzun

[Bi-functional Air electrodes for a Li-Air accumulator](#)

s1-032

Fernando Pignanelli (Centro NanoMat, Cátedra de Física, DETEMA, Facultad de Química, UdelaR, Montevideo, Uruguay), Veronica Diaz, Ricardo Faccio, Alvaro W. Momburu, Mariano Romero, Erika Teliz, Fernando Zinola

[Structural Characterization and Theoretical Modelling of \$\text{LiFe}_{1-x}\text{Co}_x\text{PO}_4\$ cathodes for Li-ion Batteries](#)

s1-033

Facundo Quiñones (Electrotecnia, Universidad Nacional del Comahue, Neuquen, Argentina), Ruben Milocco, Silvia Real

[Modeling, Parameterization, and Identification of Rechargeable Lithium-Ion Batteries](#)

s1-034

Pierre Ranque (Chemical Engineering, Delft University of Technology, Delft, Netherlands), Rémi Dedryvère, Wolter F. Jager, Erik M. Kelder, Frans G.B. Ooms, Ernst J.R. Sudhölter

[New Electroactive Polymer Binders for Li-battery Si-anodes](#)

s1-035

Silvia Real (Electrochemistry, INIFTA-UNLP, La Plata, Argentina), Mariela Gisela Ortiz, Arnaldo Visintín

[Electrochemical Characterization of Carbon/Sulfur as Lithium-Sulfur Battery Cathodes](#)

s1-036

Silvia Real (Electrochemistry, INIFTA-UNLP, La Plata, Argentina), Mariela Gisela Ortiz, Arnaldo Visintín

[Study of the Electrochemical Behavior of Different Carbon Materials as Anodes for Lithium Ion Batteries](#)

s1-037

Valeria Carolina Estefanía Romero (CIT CONICET Universidad Nacional de Jujuy, San Salvador de Jujuy, Argentina), Ernesto Julio Calvo, Victoria Flexer

[Electrochemical reactor modeling and simulation for electrochemical extraction process of lithium chloride from brine](#)

s1-038

Nedher Sanchez-Ramirez (Chemistry, University of São Paulo, São Paulo, Brazil), Daniel Bélanger, Birhanu Desalegn Assresahegn, Roberto M. Torresi

[High-performance Silicon Anodes Using Ionic Liquid as Electrolytes](#)

s1-039

Elizabeth Santos (Theoretical Chemistry, Ulm University, Ulm, Germany),
Maria Fernanda Juarez, Leila Mohammadadze, Wolfgang Schmickler

[Storage of Ions in Various Forms of Carbon – a Theoretical Investigation](#)

s1-040

Sacha Smrekar (IFEG, Famaf, Cordoba, Argentina), Daniel Barraco,
Guillermina Luque, Emiliano Primo, Jorge Thomas

[Characterization and comparison between different binders applied to Sn-based anodes for lithium ion batteries](#)

s1-041

Jiyong Soon (Chemical and Biological Engineering, Seoul National
Universtiy, Seoul, Korea), Seulki Chae, Seunghae Hwang, Hyejeong Jeong,
Jongjung Kim, Tae Jin Lee, Seung M. Oh, Ji Heon Ryu

[Grafting of Nitrophenyl Group on Carbon Surface by Diazonium
Chemistry to Suppress Irreversible Reactions](#)

s1-042

Cintia Terny (Departamento de Quimica, Universidad Nacional del Sur-
INQUISUR- CONICET, Bahia Blanca, Argentina), Marisa A. Frechero

[Study of doped-Phosphate Polyanion electrode and bismuth-phosphate
glassy electrolyte. Lithium ion solid state batteries](#)

s1-043

Jorge Thomas (INIFTA, CONICET-UNLP, La Plata, Argentina), Lisandro
Giovanetti, Felix Requejo, Miguel Sanservino, Arnaldo Visintín

[Design and Optimization of *In situ* Cell for Lithium Ion Batteries X-ray
Absorption Studies](#)

s1-044

Walter Ramón Torres (INQUIMAE, Universidad de Buenos Aires, Ciudad
Autónoma de Buenos Aires, Argentina), Ernesto Julio Calvo, Maria del Pozo
Vázquez, Santiago Herrera, Natalia Mozzhukhina, Alvaro Y. Tesio

[Oxygen Reduction Reaction in DMSO Lithium Containing Electrolyte](#)

s1-045

Libuse Trnkova (Department of Chemistry, Masaryk University, Faculty
of Science, Brno, Czech Republic), Klara Castkova, Ondrej Cech, Libuse
Trnkova, Petr Vanysek

[Nanostructured Sodium Titanate for Lithium and Sodium Ion Insertion](#)

s1-046

Claudia Zech (X-ray Spectrometry, Physikalisch-Technische Bundesanstalt, Berlin, Germany), Burkhard Beckhoff, Markus Boerner, Andreas Bund, Marco Evertz, Olga Graetz, Daniel Groetzsch, Svetlozar Ivanov, Wolfgang Malzer, Matthias Mueller, Sascha Nowak, Marcelina Pyschik, Ivan Raguzin, Manfred Stamm

[Traceable chemical analyses of new liquid and solid battery components by X-ray spectrometry in UHV environment](#)

s1-047

Martin E. Zoloff Michoff (Departamento de Química Teórica y Computacional, Fac. de Cs. Químicas, Universidad Nacional de Córdoba, Córdoba, Argentina), Ezequiel Leiva

[Underpotential Deposition of Sn on Defective Graphene and its Relevance as Active Material for Li-ion Batteries](#)

s1-048

Henry Andres Cortes Páez (Buenos Aires, Comisión Nacional de Energía Atómica, Buenos Aires, Argentina) Andrea Barral, Veronica Vildosola, Horacio Corti

[An ab Initio Calculation of the Effect of Halogen Dopants on \$\text{Li}_2\text{O}_2\$](#)

SESSION 2: Poster Presentations - Hydrogen fuel cells

s2-001

Graciela Abuin (Procesos Superficiales, INTI-Instituto Nacional de Tecnología Industrial, San Martín, Argentina), Roxana Coppola, Liliana Diaz, Ricardo Escudero, Daniel Herranz, Pilar Ocón

[Composite Polyvinyl Alcohol - Polybenzimidazole Membranes for Alkaline Water Electrolysis and Ethanol Fuel Cell](#)

s2-002

Ali Akbari-Fakhrbadi (Mechanical Engineering, University of Chile, Santiago, Chile), José Ignacio Canales Lemus

[Structural and mechanical properties of \$\text{La}_2\text{NiO}_{4+\delta}\$ synthesized by sonochemical method](#)

s2-003

Gustavo Andreasen (Inst. de Investigaciones Fisicoquímicas Teóricas y Aplicadas, Universidad Nacional de La Plata, La Plata, Argentina), Hernan Peretti, Silvina Ramos, Walter E. Triaca

[Development of a Thermally Coupled Hydrogen Storage and Fuel Cell System](#)

s2-004

Mauricio Arce (Caracterización de Materiales, Centro Atómico Bariloche - CNEA, San Carlos de Bariloche, Argentina), Juan Basbus, Alberto Caneiro, Liliana Mogni, Qing Su, Horacio Troiani, Haiyan Wang

[Study of \$\text{BaCe}_{0.8}\text{Pr}_{0.2}\text{O}_{3.8}\$ / \$\text{BaCe}_{0.4}\text{Zr}_{0.4}\text{Y}_{0.2}\text{O}_{3.8}\$ Bilayer Proton Conductor Electrolytes](#)

s2-005

Earving Arciga Duran (Materiales Compuestos y Recubrimientos, CIDETEQ S.C., Santiago de Querétaro, Mexico), Juan Carlos Ballesteros Pacheco, Gabriel Trejo Córdova

[Efficient \$\text{Co}_3\text{O}_4\$ electrocatalyst for the Oxygen Evolution Reaction \(OER\): Role of Co-Glycine complexes](#)

s2-006

Mariela Brites Helu (PRELINE-FIQ, Universidad Nacional del Litoral, Santa Fe, Argentina)

[Metal-glass interactions during the hydrogen oxidation reaction sensed by scanning electrochemical microscopy on Pt microelectrodes](#)

s2-007

Ana Castro Luna (Universidad Tecnológica Nacional, La Plata, Argentina), Mariano Asteazarán, German Cespedes

[Evaluation and Characterization of Bipolar Plates Printed by 3D Technology for a Fuel Cell](#)

s2-008

Ana Castro Luna (Universidad Tecnológica Nacional, La Plata, Argentina), Mariano Asteazarán, German Cespedes

[Passive Direct Methanol Fuel Cell Catalysts](#)

s2-009

Angela Contreras (Inst. de Investigaciones Fisicoquímicas Teóricas y Aplicadas, Universidad Nacional de La Plata, La Plata, Argentina), Diego Barsellini, Rene Calzada, Barbara Lombardi, Silvina Ramos, Alberto Scian, Walter E. Triaca

[Development of Oxide Modified Nanostructured Carbon Materials for using as Electrocatalyst Supports in Hydrogen/Oxygen Fuel Cell Electrodes](#)

s2-010

Paola Dager (Departamento Caracterización de Materiales, Centro Atómico Bariloche, S.C. de Bariloche, Argentina), Alberto Caneiro, Liliana Mogni, Alejandra Montenegro-Hernandez, Horacio Troiani

[Impregnation strategy to improve Solid Oxide Cells \(SOC\) cathode materials: Gadolinium doped Ceria on La-Sr cobalt-ferrite](#)

s2-011

Liliana Diaz (Centro de Procesos Superficiales, INTI - Centros de Investigación, San Martín, Argentina), Graciela Abuín, Roxana Coppola, Ricardo Escudero, Daniel Herranz, Pilar Ocón

[Evaluation of Polybenzimidazole-c-PVBC/OH as Anion Exchange Membrane for Alkaline Conversion Systems](#)

s2-012

Veronica Diaz (Instituto de Ingeniería Química, UdelaR, Montevideo, Uruguay), Ricardo Faccio, Estefanía German, Erika Teliz, Fernando Zinola

[Density Functional Theory Study of Structural and Electronic Properties of Hydrogenated ZrCr₂ and ZrMo₂ Phases](#)

s2-013

Joaquín Díez (Laboratorio de Electroquímica Fundamental, UdelaR, Montevideo, Uruguay), Verónica Díaz, Ricardo Faccio, Fernando Pignanelli, Fabricio Ruiz, Erika Teliz, Fernando Zinola

[Titanium effect in electrochemical hydrogen storage in \$Zr_{1-x}Ti_xCr_{0.7}NiMo_{0.3}\$ alloy](#)

s2-014

Joaquín Díez (Fac. de Ciencias, UdelaR, Montevideo, Uruguay), Verónica Díaz, Ricardo Faccio, Maximiliano Melnichuk, Erika Teliz, Santiago Vazquez, Fernando Zinola

[Electrochemical and gaseous hydrogen storage in \$LaNi_{5-x-y-z}Al_xCo_yMo_z\$](#)

s2-015

Tomás Falagüerra (CITCA, CONICET-UNCA, FACEN-UNCA, San Fernando del valle de Catamarca, Argentina), Gabriel Correa Perelmuter, Héctor Fasoli

[Sensitivity analysis of water management in cathode side PEMFC varying structural and operational parameters by computational simulation](#)

s2-016

Omobosedé Fashedemi (Chemistry, Augustine University, Ilara-Epe, Lagos, South Africa)

[Oxygen reduction reaction at MWCNT-modified nanoscale Iron \(II\) tetrasulfophthalocyanine: Remarkable performance over Platinum and tolerance to methanol in alkaline medium](#)

s2-017

José Fernández (PRELINE - Facultad de Ingeniería Química, Universidad Nacional del Litoral, Santa Fe, Argentina), Mariela Brites Helu

[Recent advances in the application of scanning electrochemical microscopy for studying the hydrogen electrode reaction mechanism](#)

s2-018

Sirlane Gomes da Silva (IPEN-Instituto de Pesquisas Energéticas e Nucleares, CCCH, USP- Universidade de São Paulo, São Paulo, Brazil), Monica H.M.T. Assumpcao, Almir O. Neto, Júlio César M. Silva

[Electrochemical and Fuel Cell Evaluation of PtIr/C Electrocatalysts](#)

s2-019

Melisa Julieta Gómez (INFIQC - CONICET, FCQ, Universidad Nacional de Córdoba, Córdoba Capital, Argentina), Esteban Andrés Franceschini, Gabriela Inés Lacconi

[Synthesis and characterization of hybrid nickel/mesoporous TiO₂-catalysts for hydrogen evolution reaction](#)

s2-020

Melisa Julieta Gómez (INFIQC - CONICET, FCQ - Universidad Nacional de Córdoba, Córdoba Capital, Argentina), Esteban Andrés Franceschini, Gabriela Inés Lacconi, Luis Alberto Perez

[Synthesis and properties of a hybrid nickel/nitrogenated-GO for hydrogen evolution reaction](#)

s2-021

Eduardo Rubén Henquín (INGAR, Fac. de Ing. QCA., CONICET - UNL, Santa Fe, Argentina)

[Reactors with N⁺¹ bipolar electrode. Simplified mathematical model](#)

s2-022

Moon-Sung Kang (Department of Environmental Engineering, Sangmyung University, Cheonan, Korea), Do-Hyeong Kim, Jin-Soo Park

[Development of pore-filled ion-exchange membranes for efficient electrochemical energy storage and conversions](#)

s2-023

Mariela Lescano (Instituto de Energia y Desarrollo Sustentable, Comision Nacional de Energia Atomica, San Carlos de Bariloche, Argentina), Aurelien Gasnier, Daniel Pasquevich, Maria Laura Pedano, Maria Belen Prados, Mauricio Pablo Sica

[Development and characterization of graphene-based electrodes for microbial electrolysis cells](#)

s2-024

Andrew Lin (Dept. Chem. & Materials Eng, Chang Gung University, Taoyuan, Taiwan), Chih-Ping Chang, Yingjeng James Li

[Performance of catalysts coated Nafion as membrane electrode assembly using at hydrogen oxygen polymer electrolyte fuel cell](#)

s2-025

Maria de los Angeles Montero (PRELINE, Universidad Nacional del Litoral, Santa Fe, Argentina), Abel Cesar Chialvo, Maria Rosa Gennero de Chialvo, Carlos Alberto Marozzi

[Hydrogen Electrode Reaction: a General Description of the Equilibrium Polarization Resistance](#)

s2-026

Maria de los Angeles Montero (PRELINE, Universidad Nacional del Litoral, Santa Fe, Argentina), Abel Cesar Chialvo, Maria Rosa Gennero de Chialvo

[Study of the Hydrogen Electrode Reaction on Iridium Electrodes Covered by a Hydrrous Oxide Film](#)

s2-027

Federico Nores Pondal (Renewable Energy Area, Y-TEC, Berisso, Argentina), Nicolás Fortunato, Pablo Daniel Giunta

[Numerical Simulation of a PEM Fuel Cell: Electrochemical Double Layer Capacity](#)

s2-028

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Ocón, Pilar, *s2-001*, *s2-011*
 Odetola, Christopher, *s2-037*
 Oh, Seung M., *s1-041*
 Oliva, Fabiana, *s1-009*, *s1-010*
 Omar, Noshin, (*Mon s1*)11:10
 Ooms, Frans G.B., *s1-034*
 Ortiz, Mariela Gisela, (*Tue s1*)10:50, *s1-035*,
s1-036
 Ortiz, Mónica, (*Wed s2*)11:10
 Oswald, Steffen, (*Mon s1*)16:00
 Ota, Kenichiro, (*Mon s2*)16:00
 Otero, Luis, *s1-026*
 Otero, Manuel, *s1-015*, *s1-018*, *s1-026*,
s1-027
 Oviedo, Oscar, (*Tue s2*)10:50, *s1-017*
 Owen, John, (*Wed s1*)09:00, *s1-014*

P

Palenque, Eduardo, (*Wed s1*)17:20
 Parekh, Sapun H., (*Mon s2*)10:50
 Park, Hyeon-Yeol, *s2-039*
 Park, Jin-Hwan, (*Tue s1*)16:40
 Park, Jin-Soo, (*Mon s2*)15:20, *s2-022*,
s2-028
 Park, Jun-Ho, (*Tue s1*)16:40, *s1-028*
 Park, Kwangjin, (*Tue s1*)16:40, *s1-028*

Pasquevich, Daniel, *s2-023*
 Pasquini, Luca, (*Mon s2*)09:30
 Pedano, Maria Laura, *s2-023*
 Peña, Miguel Antonio, (*Wed s2*)16:40,
s2-036
 Penazzi, Nerino, (*Tue s1*)11:30,
 (*Tue s1*)15:40
 Peng, Jun, *s1-029*
 Perassi, Eduardo, *s1-017, s1-030*
 Peretti, Hernan, *s2-003*
 Perez, Luis Alberto, *s2-020*
 Perini, Nickson, (*Tue s2*)16:40,
 (*Wed s2*)12:10
 Petrov, Konstantin, (*Tue s2*)11:30, *s1-031*
 Pignanelli, Fernando, *s1-032, s2-013*
 Pinto, Oscar, *s1-017*
 Piwko, Markus, (*Mon s1*)15:40
 Pizzutilo, Enrico, (*Tue s2*)11:10
 Planes, Gabriel A., *s1-004*
 Pohl, Marcus D., (*Wed s2*)11:50
 Poizot, Philippe, (*Tue s1*)17:00
 Prados, Maria Belen, *s2-023*
 Presser, Volker, (*Wed s1*)15:40
 Primo, Emiliano, (*Mon s1*)17:00,
 (*Tue s1*)10:10, *s1-030, s1-040*
 Pyschik, Marcelina, (*Wed s1*)11:50, *s1-046*

Q

Quaino, Paola, *s2-031, s2-032*
 Quiñones, Facundo, *s1-033*

R

Raeissi, Keyvan, (*Tue s2*)15:00
 Raguzin, Ivan, *s1-046*
 Ramos, Silvina, *s2-003, s2-009*
 Ranjbari, Alireza, (*Wed s2*)09:30
 Ranque, Pierre, *s1-034*
 Rashtchi, Hamed, (*Tue s2*)15:00
 Real, Silvia, (*Tue s1*)10:50, *s1-033, s1-035,*
s1-036
 Recio, Francisco Javier, (*Wed s2*)15:20
 Recio, Javier, (*Wed s2*)11:10, (*Wed s2*)17:20
 Recoskie, Steven, (*Wed s1*)16:40
 Reinisch, David, (*Wed s2*)11:50
 Reinsberg, P., (*Tue s1*)12:10
 Requejo, Felix, *s1-043*
 Retuerto, Maria, (*Wed s2*)16:40
 Rezaei Rad, Babak, (*Wed s1*)15:00

Ribberink, Hajo, (*Wed s1*)16:40
 Riquelme, Jorge, (*Wed s2*)15:20
 Robledo, Carla, *s1-027*
 Rojas, Sergio, (*Wed s2*)16:40, *s2-036*
 Romero, Mariano, *s1-032*
 Romero, Valeria Carolina Estefania, *s1-037*
 Roncaroli, Federico, (*Wed s2*)17:00
 Rouault, Helene, (*Wed s1*)11:30
 Rozière, Jacques, (*Mon s2*)09:30,
 (*Tue s2*)09:00
 Ruderman, Andres, (*Tue s2*)10:50
 Ruiz, Fabricio, *s1-021, s1-022, s2-013*
 Ryu, Ji Heon, *s1-041*

S

Sanchez-Ramirez, Nedher, (*Wed s1*)11:10,
s1-038
 Sanservino, Miguel, *s1-011, s1-043*
 Santarelli, Massimo, *s1-025*
 Santini, Catherine C., (*Wed s1*)11:30
 Santos, Elizabeth, (*Tue s2*)10:50, *s1-039,*
s2-032
 Santos-Pena, Jesus, (*Wed s1*)11:30
 Sapag, Karim, *s1-008*
 Sautet, Philippe, (*Wed s2*)11:50
 Schefold, Josef, (*Tue s2*)10:10
 Schmickler, Wolfgang, (*Mon s2*)17:20,
s1-039
 Schmidhalter, Ignacio, *s2-029, s2-030*
 Schneider, Michael, (*Tue s1*)09:50
 Schougaard, Steen Brian, (*Mon s1*)09:50,
 (*Mon s1*)10:50
 Schulte, Erica, *s2-031, s2-032*
 Scian, Alberto, *s2-009*
 Sedlarikova, Marie, (*Tue s1*)17:20
 Sepp, Silver, (*Tue s2*)16:00
 Serov, Alexey, (*Mon s2*)15:40
 Serquis, Adriana, (*Wed s2*)09:50, *s2-033*
 Shamanian, Morteza, (*Tue s2*)15:00
 Sharon, Daniel, (*Wed s1*)12:10
 Shiau, Huai-Suen, (*Mon s2*)16:40
 Shin, Mun-Sik, (*Mon s2*)15:20, *s2-028*
 Shpigel, Netanel, (*Wed s1*)15:40
 Shypunov, Illia, *s2-034*
 Sica, Mauricio Pablo, *s2-023*
 Sigal, Agustín, *s1-026*
 Silva, Gabriel C., (*Wed s2*)12:10
 Silva, Júlio César M., *s2-018*

Silva, Victor M.P., (*Wed s2*)12:10
 Smrekar, Sacha, *s1-040*
 Snowden, Michael E., (*Mon s1*)10:50
 Soldati, Analía, (*Wed s2*)09:50
 Solis, Claudia, *s1-026*
 Song, Chan-Ho, (*Mon s2*)15:20, *s2-028*
 Sood, Rakhi, (*Mon s2*)09:30
 Soon, Jiyong, *s1-041*
 Soria, Sergio, (*Wed s2*)10:10
 Stamm, Manfred, *s1-046*
 Stievano, Lorenzo, (*Tue s1*)09:00
 Stutz, Guillermo, *s1-027*
 Su, Qing, *s2-004*
 Suarez, María B., *s1-026*
 Sudhölter, Ernst J.R., *s1-034*
 Sun, Yang-Kook, (*Wed s1*)12:10
 Syrová, Lucie, (*Tue s1*)17:20
 Syrový, Tomas, (*Tue s1*)17:20

T

Tallo, Indrek, (*Tue s2*)16:00
 Tasca, Federico, (*Wed s2*)15:20
 Teliz, Erika, *s1-032*, *s2-012*, *s2-013*, *s2-014*,
s2-035
 Terny, Cintia, *s1-042*
 Tesio, Alvaro Y., (*Tue s1*)11:10,
 (*Tue s1*)15:00, *s1-004*, *s1-018*, *s1-024*,
s1-044
 Thiele, Simon, (*Mon s2*)14:30
 Thomas, Jorge, *s1-011*, *s1-040*, *s1-043*
 Thomberg, Thomas, (*Tue s1*)09:30,
 (*Tue s2*)16:00
 Ticianelli, Edson A., (*Tue s2*)16:40,
 (*Wed s2*)12:10
 Tilley, Richard D., (*Tue s2*)16:40
 Tooming, Tauno, (*Tue s1*)09:30
 Torayev, Amangeldi, (*Tue s1*)11:50
 Toro-Labbé, Alejandro, (*Wed s2*)17:20
 Torrero, Jorge, *s2-036*
 Torres, Walter Ramón, (*Tue s1*)11:10,
 (*Tue s1*)15:00, *s1-018*, *s1-044*
 Torresi, Roberto M., (*Wed s1*)11:10, *s1-010*,
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 Trejo Córdova, Gabriel, (*Wed s2*)15:40,
s2-005
 Trevani, Liliana, *s2-037*
 Triaca, Walter E., *s2-003*, *s2-009*
 Trnkova, Libuse, *s1-045*

Troiani, Horacio, (*Wed s2*)09:50, *s2-004*,
s2-010
 Troncoso, Loreto, *s1-003*
 Trotta, Francesco, (*Tue s1*)14:30,
 (*Tue s1*)15:40
 Tsai, Chih-Long, *s1-012*

U

Uhlenbruck, Sven, *s1-012*
 Ushak, Svetlana, (*Wed s1*)09:50
 Uzun, Dzhamal, (*Tue s2*)11:30, *s1-031*

V

Vaarmets, Kersti, (*Tue s2*)16:00
 Vali, Ronald, (*Tue s1*)09:30
 Valk, Peeter, (*Tue s2*)16:00
 Van den Steen, Nils, *s1-023*
 Van Mierlo, Joeri, (*Mon s1*)11:10
 Vanysek, Petr, *s1-045*
 Vargas, Max, (*Wed s1*)17:20
 Vaz, Carlos A.F., (*Mon s1*)10:10
 Vazquez, Santiago, *s2-014*
 Vélez, Patricio, *s1-020*
 Venegas, Ricardo, (*Wed s2*)11:10,
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 Venosta, Lisandro, (*Tue s1*)10:10
 Verdin, Baptiste, (*Mon s2*)15:00
 Vierrath, Severin, (*Mon s2*)14:30
 Vildosola, Veronica, *s1-048*
 Villeveuille, Claire, (*Mon s1*)16:40, *s1-012*
 Visintin, Arnaldo, (*Tue s1*)10:50, *s1-008*,
s1-011, *s1-035*, *s1-036*, *s1-043*
 Viva, Federico, (*Wed s2*)11:30,
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 Vizintin, Alen, (*Tue s1*)09:00
 Vondrák, Jiří, (*Tue s1*)17:20

W

Wackerl, Jürgen, (*Tue s2*)15:20
 Wagner, Norbert, *s1-015*
 Wang, Haiyan, *s2-004*
 Wang, Li, (*Mon s2*)10:10
 Wang, Yi-Ta, *s2-038*
 Weber, Adam, (*Mon s2*)16:40
 Weber, Walter, (*Mon s1*)15:40,
 (*Mon s1*)16:00
 Weiser, Mathias, (*Tue s1*)09:50
 Weiss, A., (*Tue s1*)12:10

Williams, Federico J., (*Tue s1*)11:10,
(*Tue s1*)15:00, *s1-018*
Winter, Martin, (*Wed s1*)11:50,
(*Wed s1*)15:00
Wippermann, Klaus, (*Tue s2*)15:20
Workman, Michael, (*Mon s2*)15:40
Wreland Lindström, Rakel, (*Mon s2*)11:10,
(*Tue s2*)15:00, (*Wed s1*)16:00
Wu, Dongjun, (*Wed s2*)09:00

X

Xiong, Bao Kou, (*Wed s1*)15:20

Y

Yang, Hsiharn, *s2-038*
Yang, Luyi, (*Wed s1*)09:00
Yang, Ting, (*Wed s1*)10:50
Yin, Yinghui, (*Tue s1*)11:50
Yu, Jong-Sung, (*Mon s1*)15:20, *s2-039*
Yuan, Qiuyi, (*Wed s2*)09:00

Z

Zagal, José H., (*Wed s2*)11:10,
(*Wed s2*)14:30, (*Wed s2*)15:20,
(*Wed s2*)17:20
Zampieri, Guillermo, (*Wed s2*)10:10
Zaton, Marta, (*Mon s2*)09:30
Zech, Claudia, *s1-046*
Zeng, Juqin, (*Tue s1*)14:30
Zensich, Maximiliano, *s1-022*
Zenyuk, Iryna, (*Mon s2*)15:40
Zhang, Chunfei, (*Mon s1*)15:20
Zhang, Yongguang, (*Mon s1*)17:20
Zhao, Chuan, (*Tue s2*)16:40
Zhexembekova, Anar, (*Mon s1*)17:20
Zhiani, Mohammad, (*Tue s2*)15:00
Zhu, Xinhua, (*Mon s1*)11:10
Zinola, Fernando, (*Tue s2*)12:10, *s1-032*,
s2-012, *s2-013*, *s2-014*, *s2-035*, *s2-040*
Zitoun, David, (*Mon s2*)09:50
Zoloff Michoff, Martin E., *s1-047*
Zubair, Usman, (*Tue s1*)11:30
Zúñiga, César, (*Wed s2*)11:10, (*Wed s2*)15:20

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