

Document: Hydrogen 2022: Virtual Technical Symposium - Exploring ...

Hydrogen 2022: Virtual Technical Symposium - Exploring the Potential of Hydrogen Energy in Latin America and the Caribbean Symposium Scheduled for Dec. 1-2, 2022

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Targeted News Service

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Body

The American Association of Petroleum Geologists has announced the following event:

Title: Hydrogen 2022: Virtual Technical Symposium - Exploring the Potential of Hydrogen Energy in Latin America and the Caribbean

Date of event: Dec. 1-2, 2022

Overview from the organization:

Environmental risks posed by climate change create an urgent need to accelerate the pace at which the energy transition is taking place. Geoscientists and engineers working in today's energy industry no longer look at the subsurface exclusively as a place to extract conventional resources like oil and gas, but also as a permanent sink for carbon dioxide emissions. In addition, through H2 storage, the subsurface becomes a "super battery" that can help to mitigate the intermittency of renewable energy sources.

Resource availability, access to technology, local conditions, public policies, and political

considerations all determine the pace at which the emerging hydrogen economy will develop in the Latin American and Caribbean Region.

This AAPG Virtual Technical Symposium convenes geoscience professionals, engineers, economists and entrepreneurs from the energy industry, academia, and the investment sector to share ideas, best practices, and lessons learned to help the Region face the challenges associated with developing a hydrogen economy.

Agenda:

Thursday, 1 December

07:00-07:15 Welcome and Introductions - Cesar Patino, International Energy Agency and Lorena Moscardelli, **Bureau of Economic Geology**, General Chairs

SESSION I: Hydrogen Business Opportunities, Strategies and Regulations - Chair(s): Carlos Colo, YPF; Pablo Amoedo, ARPEL

08:15-09:00 Keynote Talk - Hans Kulenkampff, Head of Latin America, Hincio

09:00-09:30 Analogies from the Hydrocarbons Exploration and Production Business Applied for the Promotion of the Green Hydrogen Development Offshore Uruguay - Santiago Ferro (presenter), Juan Tomasini, Pablo Gristo, Rodrigo Novo, Hector de Santa Ana - ANCAP

09:30-10:00 Applying Hydrogen Initiatives into a CO2 Reduction Emission Methodology - Cesar Augusto Patino Suarez (presenter), Gustavo Andres Bautista Velandia, Carlos Alejandro Forero Pena - Ecopetrol

10:15-10:45 Repsol's Renewable Hydrogen Strategy and Potential Business Development in Latin American Countries - Manuel Manrique - Repsol

11:00-12:00 Panel: Regulatory Considerations and Roadmaps - Monica Gasca, Executive Director, Hydrogen Colombia; Martin Scarone, Renewable Energies Division, Uruguay National Energy Directorate; Rossana Gaete, Stagno, Green Hydrogen Global Manager, AES Corporation

SESSION II: Natural Hydrogen Exploration (Part I) - Chair(s): Felipe Gonzalez-Penagos, Ecopetrol; Sylvia Anjos, ABGPM

13:30-14:15 Keynote Talk: Natural Hydrogen Emanations: can Multispectral Satellite Image Analysis and Gamma-Spectrometry Acquisition Help to Better Define them? Case Study in Brazil - Isabelle Moretti(1)(3) (presenter), Alain Prinzhofer(2), Leo Aimar(3), Alain Rabaute(3), Christophe Rigollet | (1)LFCR-UPPA; (2)Geo4U; (3)ISTEP; Sorbonne Universite; Geosubsight; CVA

14:15-14:45 Exploration of Natural Hydrogen in Brazil: Search for New Sources of Renewable Energy - Gustavo Camelo Acevedo(1) & Leandro Barros Adriano(1)(presenters), Alain Prinzhofer(2), Eugenio Vaz Dos Santos(1), Maria Auxiliadora Martinez(1), Hans Morales Bopp(1), Misael Franca dos Santos(1), Cesar Patino Suarez(1) | (1)Ecopetrol; (2)Geo4U

15:00-15:30 Development of Workflows for Mapping Prospective Regions for Natural Hydrogen Resources- Geoffrey S. Ellis (presenter) - U.S. Geological Survey

15:30-16:00 Detailed Methodology in the Integration of Geoscientific Information in the Identification of Natural Hydrogen - Liz Valbuena (presenter), Maria Marin, Cesar Patino, Felipe Gonzalez, Hans Morales - Ecopetrol

16:00-16:30 Natural Hydrogen System Assessment with Basin Modelling Applied to the Colombian Foreland Basins - Frederic Schneider(1) (presenter), Matthieu Dubille(1), Cesar Patino(2), Felipe Medellin(3) | (1)BeicipFranlab; (2)Ecopetrol; (3)Beicip Inc.

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Friday, 2 December

SESSION III: Natural Hydrogen Exploration (Part II) - Chair(s): Sylvia Anjos, ABGP; Felipe Gonzalez-Penagos, Ecopetrol

08:45-09:15 Advances of Natural Hydrogen Exploration in Sedimentary Foreland Basins of Colombia - Felipe Gonzalez-Penagos (presenter), Maria del Pilar Marin, Cesar Patino, Eduardo Lopez-Ramos, Katherine Orozco, Andres Rodriguez-Torres - Ecopetrol

09:15-09:45 Natural Hydrogen System and Fluid-Rock Interaction within the Northern Andes Cordillera Ophiolites of Colombia - German Rodriguez-Charry(1) (presenter), Andres Fuenzalida(2), Juan Carlos Molano(3), Ariel Cadena Sanchez(3), Alejandra Carrillo(1), Valeria Rodriguez(1), Julisa Torres(1), Diego Velasquez(2) - (1)Atlas Research Group; (2)Servicio Geologico Colombiano; (3)Universidad Nacional de Colombia

09:45-10:15 Natural Hydrogen Frontier Exploration Workflow Applied to the Southern Caribbean, Northern Colombia and Venezuela - Joan F. Flinch (presenter), Sandra Merten, John Skero - Elsevier

10:30-11:00 Gas Seeps and Hydrogen in the Bolivian Altiplano - Isabelle Moretti(1) (presenter), P. Baby(2), P. Alvarez Zapata(3), R. Villegas Mendoza(3) | (1)LFCR-UPPA; (2)IRD; (3)YPFB

11:00-11:30 Natural Accumulation of Hydrogen, "Gold Hydrogen", Aragon, Spain - Chris Matchette-Downes (presenter), Chris Atkinson, Sandra Garcia - Helios Aragon Pty Limited

11:45-12:15 The Decarbonization of the Spanish Economy through the Use of Renewable Hydrogen - The Role of DH2 Energy as a Producer - Marcos Lopez-Brea - DH2 Energy

SESSION IV: Hydrogen and Subsurface Storage - Chair(s): Eduardo Vallejo, YPF Tecnologia; Vera Hernandez, BP

13:00-13:30 Compositional Variation of the Zechstein Group in the Norwegian North Sea and Challenges for Hydrogen Storage in Salt Caverns - Dora Marin (presenter), Nestor Cardozo, Alejandro Escalona - University of Stavanger, Norway

13:30-14:00 Hydrogen Geo-Storage: Opportunities and Current Understanding - Stefan Iglauder (presenter) - Edith Cowan University

14:00-14:30 Evaluation of the CO2 Storage Potential in the Neuquina and Golfo de San Jorge Basins, Associated with Future Projects of Blue H2 generation and CCUS - Matias Di Benedetto(3) (presenter), C.G. Grasetti(1), T.M. Pique(1) (2), R. Manoni(3), I. Brisson(3), G.S. Vila(1) (2), M. Noya(1), D. De Leo(3), N. Canale, N. Fortunatti(3), M. Zalazar(1) (2), C. Cabana, F. Lebinson5, M. Tunik, M. Bahia, S. Grill - (1)YPF Tecnologia S.A. (Y-TEC); (2)CONICET; (3)YPF S.A.; Universidad Nacional de Rio Negro; Universidad Nacional del Sur

14:30-15:00 Modeling Hydrogen Storage Capacities, Injection and Withdrawal Cycles in Salt Caverns Using the GeoH2 Salt Storage and Cycling App - Leopoldo M. Ruiz Maraggi (presenter), Lorena G. Moscardelli - **Bureau of Economic Geology**, The University of Texas at Austin

15:15-15:45 Effect of Grid Resolution on Underground Hydrogen Storage Compositional Reservoir Simulation - Muhammad Alhotan (presenter), Mojdeh Delshad, Kamy Sepehrnoori - University of Texas at Austin

15:45-16:15 Significance of Paleogeography for Cavern Development in Bedded Salts: A Case Study from New Mexico and West Texas - C. Nur Schuba(1) (presenter), Lorena Moscardelli(1), Tim Lawton(1), Gary G. Gray(2) - (1)**Bureau of Economic Geology**, The University of Texas; (2)Rice University

Speakers:

Cesar Patino, General Co-Chair, EOR, Technology Collaboration Program, International Energy Agency, Colombia

Lorena Moscardelli, General Co-Chair, Research Associate / Principal Investigator, The University of Texas at Austin, USA

Sylvia Anjos, Session Chair, Director, Associacao Brasileira de Geologos de Petroleo (ABGP), Brazil

Felipe Gonzalez, Session Chair, Basin and Petroleum System Modeler, Ecopetrol, Colombia

Pablo Amoedo, Session Chair, Upstream Projects Manager, ARPEL, Uruguay

Carlos Colo, Session Chair, Reserves Auditor, YPF, Argentina

Eduardo Vallejo, Committee Member, Science and Technology Program Leader, YPF TECNOLOGIA SA, Argentina

Vera Hernandez Navea, Session Chair, Sr Business Development Analyst, Exploration Business Development, Repsol, Spain

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