

Inter-American Conference on the Science and Technology of Nuclear Fusion and Its Applications

Science, Government and Industry

26–27 August 2025

Chilean Nuclear Energy Commission

La Reina Nuclear Studies Center

Agenda

Tuesday, 26 August 2025

09:00 – 09:30. **Welcome Remarks**

- Luis Huerta, Executive Director, Chilean Nuclear Energy Commission (CCHEN)
- Matteo Barbarino, International Atomic Energy Agency (IAEA)
- Ulisses Barres, Director, Latin American Center for Physics (CLAF-UNESCO)

09:30 – 10:45. **Session 1. International Overview of Nuclear Fusion**

- Steven Cowley, Director, Princeton Plasma Physics Laboratory (PPPL) (25 min)
- Thawatchai Onjun, Director, Thailand Institute of Nuclear Technology (TINT) (25 min)
- Leopoldo Soto, Coordinator, Nuclear Fusion Unit, Latin American Center of Physics (CLAF) and Director, Research Center on the Intersection of for Plasma Physics, Matter & Complexity (P²mc–CCHEN) (15 min)

10:45 – 11:00. **Coffee Break**

11:00 – 12:45. **Session 2. Latin America Advances I**

- Hugo Ferrari, Argentina (15 min): *“Nuclear Fusion Modeling and Computational Capabilities at CNEA and Human Resource Development at the Balseiro Institute”*
- Horacio Corti, Argentina (15 min): *“Electrochemical Methods of Lithium-6 Enrichment for Tritium Breeder Materials”*
- Alejandro Clausse, Argentina (15 min): *“Research and Development of Plasma Focus Technology in Argentina”*
- Gustavo P. Canal, Brazil (20 min): *“Current Status of Nuclear Fusion and Plasma Science Activities in Brazil”*

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12:45 – 14:00. **Lunch**

14:00 – 15:30. **Session 3. Latin America Advances II**

- Iván Vargas, Costa Rica (20 min): *“Status and Perspectives of Nuclear Fusion Research in Costa Rica”*
- Julio Herrera, Mexico (20 min): *“History and Perspectives of Nuclear Fusion Research in Mexico”*
- Felipe Veloso, Chile (15 min): *“High Energy Density Physics with Z-Pinch Plasmas: Facilities, Capabilities and Applications to Nuclear Fusion at UC Chile”*
- Alejandro Prada, Chile (15 min): *“Computational Simulations of Matter at Extreme Conditions”*
- Leopoldo Soto, Chile (15 min): *“Fusion Research with Miniaturized Plasma Focus Devices at CCHEN: Physics, Matter at Extreme Conditions and Pulsed-Power Technology”*

15:30 – 15:45. **Coffee Break**

15:45 – 17:15. **Session 4. Roundtable 1. Challenges and Opportunities for Industry: Nuclear Fusion as an Industrial Driver**

Introduction: Global outlook on fusion industry , Fusion Industry Association (TBD) (15 min)

- ENEL Group Representative
- Brazilian Manufacturing Industry Representative
- Hernán Cáceres Venegas, Executive Director, Lithium and Salars Institute (to be confirmed)
- CODELCO Representative, National Copper Corporation, Chile
- Moderator: Ulisses Barres, Director Latin American Center for Physics (CLAF)

19:30 – 21:00. **Dinner**

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09:30 – 10:30. Session 5. Roundtable 2. Science in Global South Power Generation: Energy Equity and Energy Justice

- Thawatchai Onjun, Director, Thailand Institute of Nuclear Technology (TINT)
- Ulisses Barres, Director, Latin American Center for Physics (CLAF)
- Luis Huerta, Executive Director, Chilean Nuclear Energy Commission (CCHEN)
- Cristian Cuevas, Undersecretary, Ministry of Science, Technology, Knowledge and Innovation, Chile (to be confirmed)
- Moderator: Matteo Barbarino, International Atomic Energy Agency (IAEA)

10:30 – 10:45. Coffee Break

10:45 – 12:15. Session 6. Roundtable 3. Institutional Challenges for Government, Academia and Industry

- Minister of Science, Technology, Knowledge and Innovation, Chile
- Senator, Future Commission on Science, Technology, Knowledge and Innovation, Chilean Senate
- Steven Cowley, Director, Princeton Plasma Physics Laboratory, (PPPL), USA
- Máximo Pacheco, Board President, National Copper Corporation (CODELCO), Chile
- One Latin American expert (to be confirmed)
- ENEL Group Representative
- Moderator: Luis Huerta, Executive Director, Chilean Nuclear Energy Commission, CCHEN

12:15 – 13:00. Lab Visit. Visit to the Research Center for Plasma Physics, Matter and Complexity (P²mc) laboratories, CCHEN

13:00 – 14:00. Lunch

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14:00 – 15:30. Session 7. Roundtable 4. Nuclear Fusion as a Bridge between Latin America and the World

- Thawatchai Onjun, Director, Thailand Institute of Nuclear Technology (TINT)
- Steven Cowley, Director, Princeton Plasma Physics Laboratory, PPPL
- Ulisses Barres, Director, Latin American Center for Physics (CLAF)
- Expert representatives from Argentina, Brazil, Chile, Costa Rica and Mexico (one per country)
- Moderator: Leopoldo Soto, Coordinator CLAF Nuclear Fusion Unit and Director, P²mc-CCHEN

15:30 – 16:30. Closing Remarks and Final Reflections

- Summary of key conclusions
- Follow-up proposals and regional initiatives

16:30 – 17:00. Coffee

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