

Auspicia



PROGRAM

resources LUNARIS 2025

where Earth meets space

Monday, April 21, 2025

08:00 - 10:00 Accreditation

Inauguration

- 10:00 - 10:05 *Welcome words by the Executive Director of the Seminar, Mr. Marco Muñoz*
- 10:05 - 10:15 *Welcome words by the Dean FCFM U. de Chile, Mr. Francisco Martínez*
- 10:15 - 10:20 *Welcome words by the Director of the Dept. of Mining Eng, Mr. Leandro Voisin*
- 10:20 - 10:25 *Speech by the President of the Inst of Mining Eng. of Chile, Mr. Marco Alfaro*
- 10:25 - 10:30 *Speech by the SEREMI of the Ministry of Mining, Mr. Carlos Hunt*
- 10:30 - 10:40 *Speech by His Excellency Ambassador of Australia, Mr. Andrew Martin*
- 10:40 - 10:50 *Speech by His Excellency Ambassador of South Korea, Mr. Hakjae Kim*
- 10:50 - 11:00 *Speech by Mgr. Chilean Italian Chamber of Commerce, Ms. Francisca Ragazzini*
- 11:00 - 11:10 *Speech Senator of the Republic of Chile, Mr. Kennett Pugh*
- 11:10 - 11:20 *Speech by General Luis Felipe Sáez, Chilean Air Force - FACH*
- 11:20 - 11:45 *Keynote Speech Dr. Angel Abbud-Madrid, Director of Center for Space Resources, Colorado School of Mines, USA*

11:45 - 12:00 *Coffee break*

Panel 1 Overview of lunar and space resources activities

Moderator: Carlos Espejel

- 12:00 - 12:30 *Commercial outlook for lunar missions and space resources*
Carlos Espejel, CEO RS Space, Luxembourg
- 12:30 - 12:45 *Artificial Intelligence in Mining - The New Paradigm*
Jim Keravala, CEO Offworld, Luxembourg
- 12:45 - 13:00 *From Earth to Moon: ispace's Journey in Lunar Exploration and Resource Utilization*
Marchel Holle, U.S. Government Relations Lead of Ispace, USA
- 13:00 - 13:15 *ESRIC: The centre for space resources in Europe*
Dr. Kathryn Hadler, Director, ESRIC
- 13:15 - 13:40 *Space resources activity in Australia and its relationship with the mining companies.*
Serkan Saydam, Deputy Director, Australian Centre for Space Engineering Research (ACSER)
- 13:40 - 14:00 *Questions*
- 14:00 - 15:00 *Lunch break*

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Panel 2 Technologies relevant to the space and terrestrial mining industry.

Moderator: Robert Mayne-Nicholls

15:00 - 15:15 **Muography for astromineries**

Giovanni Leone, Planetary Geologist, Universidad de Atacama

15:15 - 15:30 **Revolutionizing the future of mineral exploration with ambient noise tomography (ANT), AI and remote sensing predictive geology.**

Alain Zubrzycki, President, Geophysics GPR, Canada

15:30 - 15:45 **"Robotics, Automation and Teleoperation in mining: convergence Between Earth and Space".**

Fernando Bracco, General Manager of Godelius, part of the SK Group.

15:45 - 16:00 **AI in exploration targeting**

Javier Muñoz, CEO of Mineral Forecast

16:00 - 16:15 **Copernicus Presentation**

Jaime Ortega, Scientific Director CopernicusLAC Chile

16:15 - 16:30 **Applied Dynamical Systems: N-body dynamics, Chaos, Space, and Machine Learning**

Jeremy J. Wojcik of BlueHalo

16:30 - 16:50 **Questions**

16:50 - 17:10 **Coffee break**

Panel 3 Organizations around Space

Moderator: Marco Muñoz

17:10 - 17:30 **National Space Program**

Colonel Héctor Contreras, Chilean Air Force

17:30 - 17:40 **Brazilian Space Agency**

Rodrigo Leonardi, Director AEB

17:40 - 18:00 **Chilean Space Association**

Loreto Moraga, President

18:00 - 18:20 **Satellite systems in mission areas**

Coronel Pablo Silva Ibaceta

18:20 - 18:40 **Questions**

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Tuesday, April 22, 2025

Panel 4 Socio-cultural and ethnographic aspects in the development of space resources. ESG regulations and spatial sovereignty.

Moderator of afternoon: Alexander Sutulov

- 10:00 - 10:30** **CITA Challenges (Navy Technological Innovation Center)**
Cmdr. Francisco MacKay, Director CITA, Chilean Navy

- 10:30 - 11:00** **Space ngurra Sky Country**
Deen Sanders, ESG Space Mission Consultant, Deloitte, Australia

- 11:00 - 11:20** **Role of Space architecture in the space ecosystem; infrastructure, Innovation and investment potential**
Erin Flores, Architect UTFSM

- 11:20 - 11:40** **Biofuels for the aerospace and aeronautics industry**
Cristóbal Estrada, General Manager, Petrólisis, Chile

- 11:40 - 12:10** **IntiMERIKA Initiative**
Matias Birrell, World expert in Theory of Constraints (TOC).
PHAXIS Consortium, Chile

- 11:10 - 12:30** **Questions**

- 12:30 - 13:00** **Coffee break**

- 13:00 - 13:30** **Roundtable discussion**

- 13:30 - 14:00** **StarWine, first Chilean wine in orbit.**
Speech by Adriano Torres, Presidente, Fundación Spatio Australis
Presentation by Pablo Vivanco, CEO, Sea Wines Chile

- 14:00 - 14:30** **Plenary / VIP Allegorical Artwork Handover Ceremony**

- 14:30 - 15:00** **Folk Dancing & Closing, Dance Company Bailemos Todos**

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See next page for location and other details



Spatio Australis Foundation



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Location

Enrique D'Etigny Room of the Faculty of Physical and Mathematical Sciences of University of Chile

Address: Beaucheff 851, Santiago Centro, Santiago, Chile

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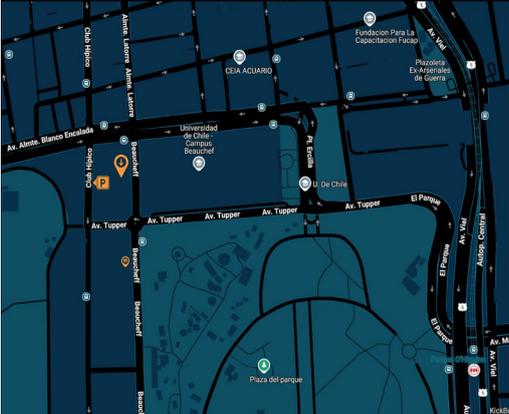
where earth meets space

21 y 22 de Abril
Primer seminario de Recursos Espaciales en Chile



Universidad de Chile, Beaucheff 851
Auditorio Enrique D'Etigny, Nivel 1
ESTACIONAMIENTOS DISPONIBLES





Estacionamiento
Se encuentran disponibles espacios de estacionamiento por la calle Club Hípico.

Cafetería "Voy al Grano"
La universidad dispone de una cafetería ubicada en el primer piso, que ofrece platos de comida preparada, incluyendo opciones vegetarianas y veganas.

Alternativas para el almuerzo
En las inmediaciones del campus existen diversas opciones adicionales para almorzar.

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