MIT Industrial Liaison Program Faculty Knowledgebase Report

2024 MIT Chile Symposium

April 2, 2024 - April 4, 2024

Antofagasta | April 2, 2024

[redacted]

Enjoy Hotel,
Av. Angamos N° 01455, 1272037, Antofagasta, Región de Antofagasta, Chile
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8:00 AM	Registration
9:00 AM	Welcome and Opening Remarks Alan Muchnik VP of Strategy and Innovation Antofagasta Minerals S.A. Eduardo Garrido Program Director MIT Corporate Relations

9:15 AM

Mining of the Future
Elsa Olivetti

Co-Director, MIT Climate and Sustainability Consortium
Jerry McAfee (1940) Professor, Department of Materials Science and Engineering
Associate Dean, MIT School of Engineering

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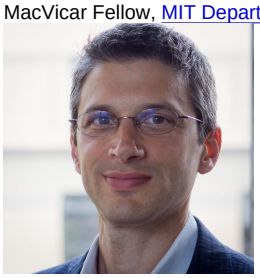
Professor Elsa Olivetti's research focuses on improving the environmental and economic sustainability of materials. Specifically, she develops analytical and computational models to provide early-stage information on the cost and environmental impact of materials. Professor Olivetti and her research-group colleagues work toward improving sustainability through increased use of recycled and renewable materials, recycling-friendly material design, and intelligent waste disposition. The Olivetti Group also focuses on understanding the implications of substitution, dematerialization, and waste mining on materials markets.

10:00 AM

Innovative Technologies for Valuable Materials Recovery
Jeffrey Grossman
Professor of Materials Science and Engineering
MacVicar Fellow, MIT Department of Materials Science and Engineering



Jeffrey Grossman
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View full bio

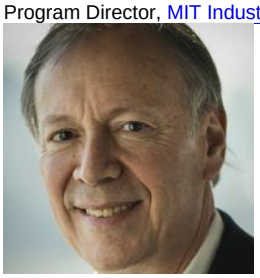
Our planet's health needs an acceleration in the pace of progress towards clean and sustainable technologies that are critically dependent on materials innovation. In particular, the ability to recover critical materials will be essential in order to support the energy transition to clean energies. Materials science and engineering provides the ability to understand and control matter at the atomic scale to realize optimized performance across an exhaustive set of metrics. This lecture will discuss the impact of materials design, with a focus on two examples from our recent work on resilient nanofiltration membranes, which are currently being commercialized. These new membranes can be used in a range of applications important to the recovery of critical materials, from up-concentration of highly acidic streams to more energy-efficient recovery of metals with much less chemical input to enhanced and low-cost remediation mining-influenced water. I'll highlight recent results showing the potential application of these technologies in the leaching process and valorization of tailings.

10:45 AM

Coffee Break

11:15 AM

MIT Alumni Companies Showcase
Eduardo Garrido
Program Director, MIT Industrial Liaison Program



Eduardo Garrido
Program Director
MIT Industrial Liaison Program

Eduardo Garrido is a Program Director at the Office of Corporate Relations at MIT.

Eduardo Garrido has a strong multicultural and multidisciplinary background, with deep expertise in higher education, banking and management consulting, acquired in Argentina, Spain and USA. He currently serves as Program Director at the Industrial Liaison Program, Office of Corporate Relations (MIT), the largest conduit between corporations and MIT.

Before joining MIT, Eduardo was the Director of Santander Universities at Santander Bank, N.A., based in Boston, MA. In this role, he managed the institutional and business relationship with 46 universities, mainly in the northeastern US. He also served as Santander US representative at President Obama's 100,000 Strong in the Americas initiative and the Woman for Africa Foundation, among other relevant global higher education projects, and as Member of the Global President's Council at NYU and the Advisory Boards of the Deming Cup, ECLA (Columbia University) and Newcastle University Business School.

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Co-Founder and Chief Scientist
SiTration

Joseph Kenrick
Project Manager
Lunar Outpost

Rafael Villamor-Lora
VP of R&D
Eden Geotech

Moran David
CEO
GPR

Martin Capriles
Chief Strategy Officer
InEnTec

Michael Ford
Co-Founder
Femto Energy

12:15 PM Chilean Startups

12:45 PM Closing and Networking Reception

Santiago | April 4, 2024

W Hotel,
Isidora Goyenechea 3000, 7550653 Las Condes, Región Metropolitana, Chile
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Antofagasta Minerals S.A.

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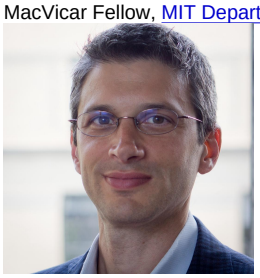

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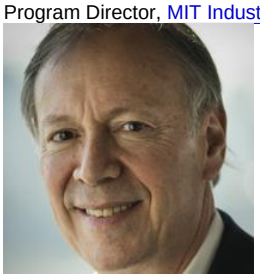

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