Symposium Innovations for the Next Generation of Mobility

October 17, 2023 9:00 am - 6:00 pm

9:00 AM Welcome & Introduction

Laurent FAVRE
CEO
Plastic Omnium

Félicie BURELLE
Managing Director
Plastic Omnium

John Roberts
Executive Director (Interim), MIT Corporate Relations

John Roberts has been Executive Director of MIT Corporate Relations (Interim) since February 2022. He obtained his Ph.D. in organic chemistry at MIT and returned to the university after a 20-year career in the pharmaceutical industry, joining the MIT Industrial Liaison Program (ILP) in 2013. Prior to his return, John worked at small, medium, and large companies, holding positions that allowed him to exploit his passions in synthetic chemistry, project leadership, and alliance management while growing his responsibilities for managing others, ultimately as a department head. As a program director at MIT, John built a portfolio of ILP member companies, mostly in the pharmaceutical industry and headquartered in Japan, connecting them to engagement opportunities in the MIT community. Soon after returning to MIT, John began to lead a group of program directors with a combined portfolio of 60-80 global companies. In his current role, John oversees MIT Corporate Relations which houses ILP and MIT Startup Exchange.
Pattie Maes
Professor of Media Technology, MIT Media Lab

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MIT Media Lab

Pattie Maes is a professor in MIT's Program in Media Arts and Sciences. She runs the Media Lab's Fluid Interfaces research group, which aims to radically reinvent the human-machine experience. Coming from a background in artificial intelligence and human-computer interaction, she is particularly interested in the topic of cognitive enhancement, or how immersive and wearable systems can actively assist people with memory, attention, learning, decision making, communication, and wellbeing.

Maes is the editor of three books, and is an editorial board member and reviewer for numerous professional journals and conferences. She has received several awards: Fast Company named her one of 50 most influential designers (2011); Newsweek picked her as one of the "100 Americans to watch for" in the year 2000; TIME Digital selected her as a member of the "Cyber Elite," the top 50 technological pioneers of the high-tech world; the World Economic Forum honored her with the title "Global Leader for Tomorrow"; Ars Electronica awarded her the 1995 World Wide Web category prize; and in 2000 she was recognized with the "Lifetime Achievement Award" by the Massachusetts Interactive Media Council. She has also received an honorary doctorate from the Vrije Universiteit Brussel in Belgium, and her 2009 TED talk on "the 6th sense device" is among the most-watched TED talks ever.

In addition to her academic endeavors, Maes has been an active entrepreneur as co-founder of several venture-backed companies, including Firefly Networks (sold to Microsoft), Open Ratings (sold to Dun & Bradstreet) and Tulip Co (privately held). Prior to joining the Media Lab, Maes was a visiting professor and a research scientist at the MIT Artificial Intelligence Lab. She holds a bachelor's degree in computer science and a PhD in artificial intelligence from the Vrije Universiteit Brussel in Belgium.

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Marcelo Coelho
Head of Design at Formlabs
Lecturer, MIT Department of Architecture

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Marcelo Coelho is the Head of Design at Formlabs and a lecturer and researcher in the MIT Department of Architecture. Spanning a wide range of media, processes, and scales, his work explores the boundaries between matter and information, fundamentally expanding and enhancing the ways in which we design and create. Coelho's work has been exhibited internationally, including places such as the Olympics Ceremonies, Times Square, and Ars Electronica, and can be found in museums, private collections, and millions of products sold all over the world. He holds a doctorate degree from the MIT Media Lab.

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Reshaping the physical world with new forms of expression and collaboration between human and machine intelligence.
11:30 AM  Break

11:45 AM  Session on Hydrogen Usage for Mobility
Harry Tuller  
Professor of Materials Science and Engineering, MIT Department of Materials Science and Engineering

12:30 PM  Startups Lightning Talks: Innovation for Next Generation of Mobility
Catarina Madeira  
Director, MIT Startup Exchange

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Catarina Madeira  
Director  
MIT Startup Exchange

Catarina Madeira joined the Office of Corporate Relations as Program Director of Startup Exchange, in May 2021. She was promoted to Director of Startup Exchange in December 2022.

Catarina has been working with the Cambridge/Boston startup ecosystem for over 10 years and joined Corporate Relations with a solid network in the innovation and entrepreneurial community. Prior to MIT, she was part of the team that designed and launched the startup accelerator IUL MIT Portugal later rebranded to Building Global Innovators. She was based in Lisbon and worked in direct relation with the Cambridge team. She held positions including Operations Coordinator, Program Manager, and Business Developer. The accelerator soon achieved steady growth in large part due to the partnerships that Catarina led with regional and global startup ecosystems. After that, she worked at NECEC, leading a program that connects cleantech startups and industry. In this role, she developed and built a pipeline of startups and forged strong relationships with both domestic and European companies. She has also held positions in Portugal and France including at Saboaria e Perfumaria Confiança and L’Oréal as Technical Director and Pharmacist.

Catarina earned her Bachelor in Chemistry at the University of Porto and her Bachelor in Pharmaceutical Sciences at the University of Coimbra in Portugal. She went on to earn her Master of Engineering for Health and Medicines at University Lyon 1 and EM Lyon in France.

Cyrus Shaoul  
Co-founder and CEO, Leela AI

Peter Godart  
Co-founder and CEO, Found Energy

Virj Kan  
CEO, Primitives Biodesign

Lunewave

MLean

1:15 PM  Lunch & Networking Break
Session on Emerging Technologies

Philippe Dewost
Director
EPITA

John Carrier
Senior Lecturer, System Dynamics, MIT Sloan School of Management

John Carrier is a senior lecturer in the System Dynamics Group at the MIT Sloan School of Management and Managing Director of 532 Partners. His expertise is in shaping the dynamics of operating environments to improve productivity, quality, safety, and morale simultaneously. He has helped companies save hundreds of millions of dollars by helping them find and eradicate the hidden systems lurking inside every operation. His current focus is to help prepare companies to compete in the new environment of Industry 4.0.

He has educated over five hundred top-level leaders in the MIT Sloan Executive Education program in Oil & Gas, petrochemicals, mining, and healthcare. When not teaching, he spends most of his time in the operating environment, working directly with the front line to deliver measurable results in less than sixty days.

Dr. Carrier holds a B.S. in Chemical Engineering from the University of Michigan, a Ph.D. in Control Systems from MIT, and an MBA from the Harvard Business School.

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Félicie BURELLE
Managing Director
Plastic Omnium

Chris Smith
VP
Michelin USA

Corinne de Bilbao
CEO
Microsoft France

Liu Qing
President
NICE
3:30 PM
Session on New Materials
Carlos Portela
d'Arbeloff Career Development Assistant Professor, MIT Department of Mechanical Engineering

Carlos Portela is the d'Arbeloff Career Development Assistant Professor in MIT's Department of Mechanical Engineering.

Portela's research lies at the intersection of materials science, mechanics, and nano-to-macro fabrication with the objective of designing and testing novel materials -- with features spanning from nanometers to centimeters -- that yield unprecedented mechanical, optical, and acoustic properties.

View full bio
Ariel L. Furst
Paul M. Cook Career Development Professor, MIT Department of Chemical Engineering

Ariel L. Furst is the Paul M. Cook Career Development Assistant Professor of Chemical Engineering at MIT. Her work centers on inventing technologies to improve human and environmental health by making access to resources more equitable. Her lab develops transformative technologies to solve important problems related to healthcare and sustainability by harnessing the inherent capabilities of biological molecules and cells. She is also a co-founder of the regenerative agriculture company, Seia Bio. She completed her Ph.D. at Caltech developing non-invasive diagnostics for colorectal cancer and was then an A. O. Beckman Postdoctoral Fellow at UC Berkeley, where she developed sensors to monitor environmental pollutants. She is a 2023 Marion Milligan Mason Awardee, a CIFAR Azrieli Global Scholar for Bio-Inspired Solar Energy, and an ARO Early Career Grantee. She was recently awarded the MIT UROP Outstanding Faculty Mentor Award for her work with undergraduate researchers. She is passionate about STEM outreach and increasing participation of underrepresented groups in engineering.
5:00 PM  Synthesis of the Day
Kathleen D. Kennedy
Executive Director, MIT Center for Collective Intelligence

With multiple leadership roles at MIT, Kathleen is on the front lines of technology and innovation. Right now, she is passionate about AI education, digital transformation, and sustainable fashion. She is a strategic leader with a unique skill set for transforming organizations as well as building new ones.

As Executive Director of the MIT Center for Collective Intelligence, Kathleen works with a multidisciplinary research team on Supermind Design, a methodology for designing intelligent human/machine organizations. She is putting that into practice at MIT Open Learning, where she leads MIT Horizon, a digital learning platform helping organizations to train at scale about emerging technologies such as AI.

5:15 PM  Closing Speech
Félicie BURELLE
Managing Director
Plastic Omnium

5:30 PM  Networking Reception