

AUSSEN
WIRTSCHAFT
FORUM

MIT EUROPE CONFERENCE 2023

A CHANGING WORLD. HOW TECHNOLOGY TACKLES GLOBAL CHALLENGES.

Wednesday, March 29 – Thursday, March 30, 2023

PROGRAM (Subject to change, 30.01.2023)

Venue: Wirtschaftskammer Österreich | Julius-Raab-Saal | Wiedner Hauptstraße 63, 1045 Vienna

Language: English

in cooperation with:



supported by



Federal Ministry
Republic of Austria
Labour and Economy



a joint initiative of the Austrian Federal Ministry of Labor and Economics
and the Austrian Federal Economic Chamber



WEDNESDAY, 29.03.2023

13.00 – 14.00

CHECK-IN

14.00 – 14.15

WELCOME & OPENING

Wolfgang Hesoun | Vice-President, Austrian Federal Economic Chamber (WKÖ)

Florian Frauscher | Director General, Economic Affairs, Innovation and International Policy, Federal Ministry of Labour and Economy

Todd S. Glickman | Senior Director of Corporate Relations

Host: **Randall S Wright** | Program Director, MIT Office for Corporate Relations

Moderator: **Claudia Unterweger**

14.15 – 14.45

BUILDING TECHNOLOGY

Uncertainties and Consequences of Climate Change — and Pathways Toward Mitigation and Adaptation in Every Aspect of Society

John Fernandez | Professor of Building Technology, Department of Architecture

14.45 – 15.05

MICROBES FOR NITROGEN FIXING – INFECTIOUS DISEASE

New Technologies to Develop Sensors for Infectious Disease, Development of Antibiotics, and Microbial Fuel Cells

Ariel Furst | Paul M. Cook Career Development Professor, MIT Department of Chemical Engineering

15.05 – 15.25

GENERAL ENERGY TRANSITION

Searching for Materials that Collect and Store Energy

Mircea Dincă | W. M. Keck Professor of Energy, MIT Department of Chemistry

15.25 – 15.45

AUDIO-BASED NAVIGATION

How the world's first audio-spatial navigation app guides visually-impaired people in their everyday lives

Hugo Furtado | Founder and CEO at Dreamwaves

15.45 – 16.30

NETWORKING BREAK

16.30 – 16.50

BIO-INSPIRED MATERIALS (TBC)

Bio-inspired materials to mitigate and prevent environmental impact with applications in precision agriculture, food safety, and food security

Michael Strano | Carbon B. Dubbs Professor in Chemical Engineering

in co-operation with:

16.50 – 17.10	CONSTRUCTION MATERIALS FROM RECYCLED PLASTIC Permanently and Sustainably Solving Homelessness Using Recycled Consumer Plastics to 3D Print Environmentally Friendly Home Structures David Hardt Professor of Mechanical Engineering; Ralph E. and Eloise F. Cross Professor in Manufacturing AJ Perez MIT Alumnus and Professional Founder Presidential Fellow, MIT Department of Mechanical Engineering
17.10 – 17.40	DESIGNING TRUSTWORTHY AUTONOMOUS SYSTEMS Wilfried Steiner Director, TTTech Labs
17.40 – 17.50	WRAP UP Randall S Wright Program Director, MIT Office for Corporate Relations
17.50 – 18.30	SHUTTLE SERVICE TO MIT CONFERENCE EVENING RECEPTION MIT CONFERENCE EVENING RECEPTION Venue: Museum für Angewandte Kunst MAK
19.00 – 19.10	WELCOME & OPENING Mariana Kühnel Deputy Secretary General, Austrian Federal Economic Chamber Todd S. Glickman Senior Director of Corporate Relations, MIT
19.10 – 19.30	KEYNOTE: EXPEDITION MARS – SETTING OUT FOR A NEW WORLD Gernot Grömer Director, Austrian Space Forum
22.00	END OF MIT CONFERENCE EVENING RECEPTION

in co-operation with:

THURSDAY, 30.03.2023

DEEP-DIVES

Instructional program with hands-on learning activities and specific takeaways with MIT faculty. Limited number of participants.

There are 8 Deep-Dives in 4 different tracks available, four in the morning, and four prior to lunch.

- [Track A Management](#)
- [Track B Design and Manufacturing](#)
- [Track C New Technology](#)
- [Track D Climate and Energy](#)

08.45-09.00

REGISTRATION MORNING DEEP-DIVES 1-4

09.00-09.30

THE MIT EXPERIENCE (TBC)

John Fernandez | Professor of Building Technology, Department of Architecture

09.30-09.45

BREAK

**MORNING
DEEP-DIVES**

09.45-11.15

Deep-Dive 1

[A Management](#)

1. WHAT'S GOING WRONG WITH CORPORATE INNOVATION?

Philip Budden | Senior Lecturer at MIT's Management School

Deep-Dive 2

[B Design and Manufacturing](#)

2. DESIGN FOR SUSTAINABILITY

AJ Perez | MIT Alumnus and professional founder

David Hardt | Professor of Mechanical Engineering; Ralph E. and Eloise F. Cross Professor in Manufacturing

Deep-Dive 3

[C New Technology](#)

3. NEW TECHNOLOGIES TO DEVELOP SENSORS FOR INFECTIOUS DISEASE, DEVELOPMENT OF ANTIBIOTICS, AND MICROBIAL FUEL CELLS

Ariel Furst | Paul M. Cook Career Development Professor, MIT Department of Chemical Engineering

Deep-Dive 4

[D Climate and Energy](#)

4. ENERGY TRANSITION

Mircea Dincă | W. M. Keck Professor of Energy, MIT Department of Chemistry

11.15-11.30

BREAK / REGISTRATION LUNCH DEEP-DIVES 5-8

in co-operation with:

LUNCH DEEP-DIVES 11.30-13.00	Deep-Dive 5 5. HOW TO FORGE A CLEAR PATH TO INDUSTRY 4.0 John Carrier Senior Lecturer at MIT Sloan	A Management
	Deep-Dive 6 6. CAUSING A PARADIGM-SHIFT: MACHINE INTELLIGENCE IN MANUFACTURING OPERATIONS Duane Boning Associate Director, Microsystems Technology Laboratories	B Design and Manufacturing
	Deep-Dive 7 7. BUILDING THE NEXT GENERATION OF ELECTRONICS - FLEXIBLE ELECTRONICS Jeehwan Kim Associate Professor of Mechanical Engineering	C New Technology
	Deep-Dive 8 8. CLIMATE AND ENERGY (TBC) John Fernandez Professor of Building Technology, Department of Architecture (tbc)	D Climate and Energy
13.00-14.00	NETWORKING LUNCH	

in co-operation with: