



INTERNATIONALES FORUM
mechatronik

INTELLIGENT & SUSTAINABLE PRODUCTION

28. – 29.09.2023
NOI TECHPARK BRUNECK/BRUNICO
SOUTH TYROL (ITALY)

mechatronikforum.net



Dear Sir/Madam,

Sustainability at its core means doing business in a way that respects future generations. But what does that mean for manufacturing companies in the face of a shortage of skilled workers, volatile raw material prices, interrupted supply chains and rising energy costs? One thing is certain: these challenges can only be met through intelligent and sustainable production, which forms the motto of this year's International Forum Mechatronics.

NOI Techpark will organise the International Forum Mechatronics 2023 in collaboration with partners from Bavaria, Upper Austria, Switzerland, and the Euregio partner regions of Tyrol and Trentino. The forum will provide the automotive, mechanical engineering, agricultural engineering and IT sectors with a platform to present research and development results and initiate new partnerships. Opened in May, the venue is NOI Techpark in Bruneck/Brunico, a centre for the sustainable mobility of tomorrow with a strong focus on sustainable manufacturing.

What can the participants expect? A cooperation exchange will bring companies together with experts, while visits to local showcase companies and reference projects will provide insights into South Tyrol's economy. At the forum, distinguished speakers will shed light on various aspects of mechatronics. The evening reception, organised jointly with the Automotive Excellence network, will provide an opportunity to network and discuss with other participants.

We hope this event will be a success and wish everyone a pleasant visit to South Tyrol.

Arno Kompatscher
Governor of South Tyrol

Helga Thaler
President of NOI Techpark

THURSDAY
28.09.2023

- 9:30 Registration & Welcome Coffee
- 10:00 **B2B MATCHMAKING SESSIONS**
- 12:00 Business Lunch & Networking
Mechatronics and Start-up Exhibition
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- 13:00 **OPENING**
- 13:15 **Sustainability Assessment for SMEs**
Prof. Dr.-Ing. Erwin Rauch | unibz, Sustainable Manufacturing
- 13:45 **Environmentally Friendly Electronics**
Prof. Dr.-Ing. Luisa Petti | unibz, Smart Sensors
- 14:15 **COMPANY TOURS**
- Innovators Open Their Doors**
- Manufacturing of the FIAT500e power unit and cable connections for e-mobility**
GKN Automotive and Intercable [BRUNECK/BRUNICO]
- Hydrogen – the energy source of the future**
GKN Hydrogen [PFALZEN/FALZES]
- 3D Printing and automated quality inspection**
Durst Group [BRIXEN/BRESSANONE]
- Responsible food production**
Loacker Konfekt [HEINFELS, AT]
- 18:00 Return to Bruneck/Brunico
- 19:30 **EVENING RECEPTION**
- supported by Automotive Excellence Südtirol**
Klaus Mutschlechner | AES president
Music & Networking

FRIDAY
29.09.2023

- 8:30 Registration & Welcome
Arno Kompatscher | governor of South Tyrol
Roland Griessmair | mayor of Bruneck/Brunico
Klaus Mutschlechner | AES president
Stefan Peintner | presenter
- INTERNATIONALES FORUM MECHATRONIK**
Mechatronic: Big Challenges
- 9:15 **Twin Transformation: Digital Technologies as Enablers for Sustainable Value Added in Companies**
Prof. Dominik Matt | unibz & Fraunhofer Italia
- 9:45 **Mikroelektronik – Made in Europe**
Manfred Ruhmer | Infineon
- 10:15 **CRISP – the new manufacturing narrative**
Markus Siegert | Siemens
- 10:45 Coffee Break, Networking & Exhibition
- Showcases**
- 11:00 **Sustainable Manufacturing & e-Mobility: the Main Challenge in the Automotive Industry**
Florian Niedermayr | Intercable
- 11:25 **The New Globalisation – Global Thinking, Local Action, Smart Automation and Sustainable Production**
Josef Brandmayr | STIWA Group
- 11:50 **Patterns of Success for Sustainable Production**
Dr.-Ing. Tim Frech | UNITY Schweiz
- 12:15 **Panel Discussion: Sustainable Transformation**
Dominik Matt, Manfred Ruhmer, Markus Siegert, Verena von Dellemann, Nora Dejaco, Dieter Mayr
- 13:00 Business Lunch & Networking

How Mechatronics Provide Solutions for Our Future Parallel-Sessions

Session A: Sustainable Manufacturing

- 14:00 **I don't need a fence: Human Intention Detection in Human-Robot Collaboration**
Prof. Dr.-Ing. Hans Wernher van de Venn | ZHAW Winterthur
- 14:25 **Turnkey Production Units from DB Matik**
Christian Daschner | DB Matik
- 14:50 **Motor drive systems without rare-earth permanent magnets**
Prof. Dr.-Ing. Matthias Preindl | Columbia University

Session B: Sustainable Mobility

- 14:00 **Connected Mobility: Autonomous Shuttles in Rural Areas**
Achim Przymusinski | AVL
- 14:25 **Going Digital in Public Transport in South Tyrol**
Patrick Dejaco | STA
- 14:50 **Emission-Free: Showcases from the DACH Region**
Gerald Windisch | Standortagentur Tirol
- 15:30 **Start-up Award 2023**
Presentation and pitch of the winning start-up
- 15:45 Handover to next year's organiser
- 16:00 Drinks & Networking

B2B MATCHMAKING SESSIONS [EEN]

Thursday, 28.09.2023 | 10:00

Register for free

mechatronikforum2023.b2match.io



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INTERNATIONALES FORUM MECHATRONIK

Thursday, 28. + Friday, 29.09.2023

including meals and transport

Regular price: 370 € + VAT

Partner price: 290 € + VAT

for Cluster-members

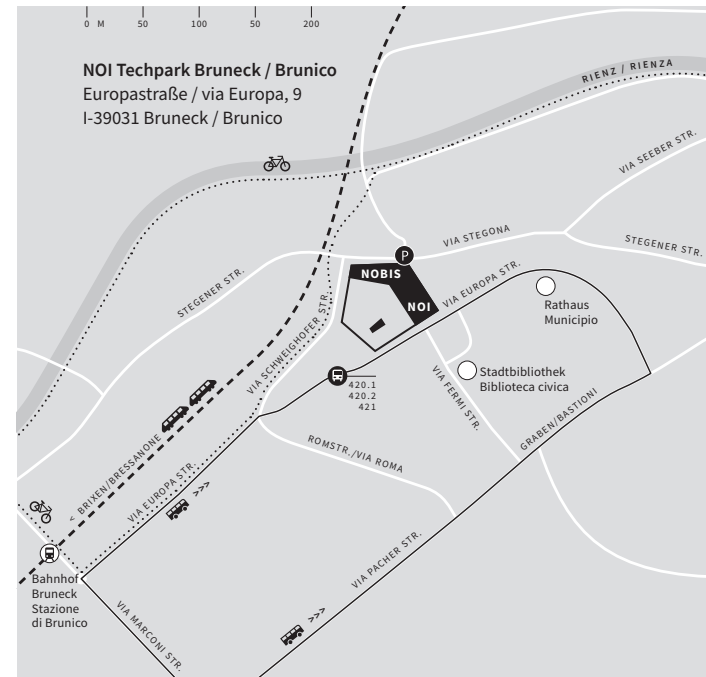
Reduction: within 30.06.2023

Registration: noi.bz.it/forum23

Contact: Johannes Brunner
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This event adheres to the criteria of a green event,
based on ISO 20121 – sustainable events: klimaland.bz

For this reason, we recommend that all participants
arrive by public transport: suedtirolmobil.info



Faculty of Engineering Free University of Bozen-Bolzano

Bachelor:

- Computer Science
- Electronics and Cyber-Physical Systems Engineering
- Industrial and Mechanical Engineering (dual study programme)
- Informatics and Management of Digital Business
- Wood Technology

Master:

- Computing for Data Science
- Data Analytics for Economics and Management
- Energy Engineering
- Industrial Mechanical Engineering



AUTOMOTIVE
EXCELLENCE SÜDTIROL

SUSTAINABLE MANUFACTURING

Forschung, Innovationscommunity und
Unternehmen – gemeinsam in Bewegung
für die Zukunft:

- Die wichtigsten Unternehmen im Automotive Zuliefersektor im Verbund
- Stiftungsprofessur Nachhaltige Produktion (Prof. Erwin Rauch)
- Idea Lab und Community für nachhaltige Mobilität und Produktion

Mitgliedsunternehmen – Automotive Excellence Südtirol

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ORGANISER

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