



INN4MECH

SECOND EDITION

➤ OFF-HIGHWAY MACHINE R-EVOLUTION

JULY 12TH-15TH 2021

by TRENTINO SVILUPPO
& POLO MECCATRONICA

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INN4MECH 2021

Inn4Mech, at its second edition, is organized by **Trentino Sviluppo & Polo Meccatronica**, Rovereto (Trentino, Italy), in partnership with some of the **most important industries of the mechatronic sector**.

Inn4Mech addresses industrial researchers, technicians, operation managers of large companies and SME's as well as academics, providing **highlights on technical novelties and future technologies**, and it is conceived as a matchmaking and **networking platform** for industrial **R&D projects**.

Each edition focuses on a different topic concerning Mechatronics and Industry 4.0 and hosts scientific and cutting-edge innovation speeches by primary academic and industrial speakers.

Due to the Covid-19 pandemic, the upcoming event will take place in a hybrid fashion: most of the speakers will be welcomed at the Exhibition & Congress Center of Riva del Garda, but attendees will participate online. The date is July 12th to 15th, 2021.

The central topic of **Inn4Mech 2021** will be **Off-Highway Machine R-Evolution** for automotive and off-road applications, focusing on **Future Workspaces**, **Circular Economy** and **Open Innovation**.

AGENDA

Inn4Mech hosts three plenary sessions focused on **Future Workspaces**, **Circular Economy** and **Open Innovation**, followed by round tables with the possibility of Q&As for the speakers.

There will be technical workshops, each alternating academic studies and industrial experiences regarding **Green Machines**, **New Materials and Processes**, **Smart Technologies**, **Smart Machines** and **Open Innovation**.

Networking sessions will be organized to foster the establishment of R&D partnerships among participants. B2Bs and virtual exhibition stands with sponsors, partners and patrons will be available to attendees and their use encouraged.

› Participation fees

3-days-package + day 4	€ 300 + VAT (if applicable)
1-day-package + day 4	€ 130 + VAT (if applicable)
EARLY BIRD until June 11 th 2021	20% off

Book your seat: riva.fc.onlinecongress.it/Inn4Mech2021

Inn4Mech will take place in the afternoon (Central European Time), and in the morning (Eastern Standard Time). The sessions will be registered and visible for registered participants in the morning hours (Central European Time) of the day after the live event.

CONTACTS

› info@inn4mech.eu
www.inn4mech.eu

Day I

JULY 12th

CET 15.00 - 15.10 EST 9.00 - 9.10 am

> Welcome greetings

by Trentino Sviluppo and Dana

CET 15.10 - 16.10 EST 9.10 - 10.10 am

> Plenary session **Future Workspaces**

Speaker	Organisation	Title
Giulio Lanza	Altran-Capgemini, Italy capgemini-engineering.com/it/it/	People engagement in the Digital Transformation
Sergio Soares	CNH Industrial, Brazil www.cnhindustrial.com/en	The Sustainable Technology Transformation of Off-Highway Machines

CET 16.10 - 16.50 EST 10.10 - 10.50 am

> Plenary round table: **discussion with the keynote speakers and Q&A**

with the special participation of Christophe Dominiak, Dana Inc.

Day I
JULY 12th

CET 17.00 - 18.30 EST 11.00 am - 12.30 pm

> Workshop **Green Machines**

moderated by Lorenzo Serrao, Dana Italia (Italy)

Speaker	Organisation	Title
Luigi Alberti	University of Padova, Italy www.unipd.it/en	The Green SEED project: Design of more-electric tractors
Davide Bagnara	MCI Management Center Innsbruck, Austria www.mci.edu/en	Electrification of heavy duty vehicles
Marcello Canova	The Ohio State University, USA www.osu.edu	Hybrid Energy Storage Systems: Emerging Technologies and Applications
Tatiana Minav	Tampere University, Finland www.tuni.fi/en	Review of Energy efficiency improvement of off-road machinery by means of zonal hydraulics
Andrea Vacca	Purdue University, USA www.purdue.edu	An energy efficient actuation technology for electrified off-road vehicles

CET 18.30 - open end EST 12.30 pm - open end

> B2B

Day II

JULY 13th

CET 15.00 - 15.10 EST 9.00 - 9.10 am

➤ Welcome greetings by **Trentino Sviluppo**

CET 15.10 - 16.10 EST 9.10 - 10.10 am

➤ Plenary session **Circular Economy**

Speaker	Organisation	Title
Silvia Gross	University of Padova, Italy www.unipd.it/en	Design and Manufacturing in a Circular Economy Framework
David Peck	TU Delft, Netherlands www.tudelft.nl/en/	Circular Opportunities and Materials Challenges

CET 16.10 - 16.50 EST 10.10 - 10.50 am

➤ Plenary round table:
discussion with the keynote speakers and Q&A

moderated by Giorgia Marino, Renewable Matter (Italy)

Day II

JULY 13th

CET 17.00 - 18.30 EST 11.00 am - 12.30 pm

> Workshop **New materials and processes**

moderated by Paolo Bosetti, University of Trento (Italy)

Speaker	Organisation	Title
Nicola Battisti	OPTOI, Italy optoi.com/en/home	Smart Sensors in harsh environment, mobile vehicles: how can they offer more functionalities through integration, how can they be reliable and predict maintenances through smart algorithms
Michele Pinelli	University of Ferrara, Italy www.unife.it/it	The Efflics Project for the increasing use of eco-friendly fluids in volumetric machines
Sooky Winkler	Dana Inc., USA www.dana.com	Additive Manufacturing – Process, Structure and Properties
Nicholas Zanasi	CNH Industrial, Italy www.cnhindustrial.com/en	Additive Manufacturing application in Agricultural Machinery hydraulic systems – a redesign study
Valeria Tirelli	AIDRO, Italy www.aidro.it	

CET 18.30 - open end EST 12.30 pm - open end

> B2B

Day III

JULY 14th

CET 15.00 - 15.10 EST 9.00 - 9.10 am

➤ Welcome greetings by **Trentino Sviluppo**

CET 15.10 - 16.10 EST 9.10 - 10.10 am

➤ Plenary session **Open Innovation**

Speaker	Organisation	Title
Salvatore Majorana	Kilometro Rosso, Italy www.kilometrorosso.com/en/	Science Parks as Enablers of Open Innovation in the Global Ecosystem of Mechatronics
Andrea Pontremoli (tbc)	Dallara, Italy www.dallara.it/it/en	

CET 16.10 - 16.50 EST 10.10 - 10.50 am

➤ Plenary round table: **discussion with the keynote speakers and Q&A**

Day III JULY 14th

moderated by Lucia Chierchia, Gellify (Italy)

CET 17.00 - 20.00 EST 11.00 am - 2.00 pm

➤ Workshop **Smart machines and smart technologies**

moderated by Stefano Fiorati, CNH Industrial (Italy) and Gaétan Bouzard, Siemens (Belgium)

Speaker	Organisation	Title
Gabriele Caiulo	Pure Power Control, Italy www.purepowercontrol.com/en/	Energy Management Strategies for Fuel Consumption Minimization of Parallel Hybrid Vehicles
Claudia Elisabetta Campanella	CNH Industrial, Italy www.cnhindustrial.com/en	Ergonomics and Virtual Reality on CNH agricultural tractors
Francesca Perino	Mathworks, Italy it.mathworks.com/	Artificial Intelligence for Agriculture
Alejandro Secades Rodríguez	MCI Management Center Innsbruck, Austria www.mci.edu/en/	On the Digital Representation of Heavy-Duty Vehicles: a case study and outlook
Andrea Gaiola	University of Modena and Reggio Emilia, Italy www.international.unimore.it	Modelling and Simulation of the Hydraulic Circuit of the Wheel Loader
Massimo Galbiati	Enginsoft, Italy www.enginsoft.com	E-Motors and E-Axles design by Simulation
Massimiliano Ruggeri	CNR - Consiglio Nazionale delle Ricerche, Italy www.cnr.it/en	Control System Architectures for Smart Agricultural Tractors from Functional Safety to "Farming as a service"
Henry Tanner	Romax Technology, United Kingdom romaxtech.com	Designing Electrified Off-Highway transmissions using a modified systems engineering "V" model

CET 20.00 - open end EST 2.00 pm - open end

Day IV JULY 15th

CET 9.00 - 13.00

➤ Brokerage event **Enterprise Europe Network**

Special Networking Event for EEN members

CET 15.00 - 15.10 EST 9.00 - 9.10 am

➤ Welcome greetings by **Trentino Sviluppo**

CET 15.10 - 17.30 EST 9.10 - 11.30 am

➤ Workshop Open Innovation:

The Mechatronic accelerators experience, with startups operating in the field of Open Innovation in Mechatronics

moderated by Alfredo Maglione, Optoi (Italy)

Day I JULY 12th

CET 9.00 - 13.00

CET 15.00 - 15.10
EST 9.00 - 9.10 am

CET 15.10 - 15.40
EST 9.10 - 9.40 am

CET 15.40 - 16.10
EST 9.40 - 10.10 am

CET 16.10 - 16.50
EST 10.10 - 10.50 am

CET 17.00 - 18.30
EST 11.00 am - 12.30 pm

CET 18.30 - 20.00
EST 12.30 pm - 2.00 pm

- Welcome greetings
By Trentino Sviluppo & Dana
- Future Workspaces

Plenary 1

Sergio Soares
CNH Industrial (Brazil)

Plenary 2

Giulio Lanza
Altran (Italy)

Plenary roundtable

with keynote speakers
and special guest Christophe
Dominiak, Dana Inc.

Workshop

Green Machines

moderated by
Lorenzo Serrao
Dana (Italy)

Day II JULY 13th

- Welcome greetings
By Trentino Sviluppo
- Circular Economy

Plenary 1

Silvia Gross
University of Padova (Italy)

Plenary 2

David Peck
TU Delft (Netherlands)

Plenary roundtable

with keynote speakers,
moderated by Giorgia Marino
Renewable Matter (Italy)

Workshop

New Materials and Processes

moderated by
Paolo Bosetti
University of Trento (Italy)

Day III JULY 14th

- Welcome greetings
By Trentino Sviluppo
- Open Innovation

Plenary 1

Salvatore Majorana
Kilometro Rosso (Italy)

Plenary 2

Andrea Pontremoli (tbc)
Dallara (Italy)

Plenary roundtable

with keynote speakers,
moderated by Lucia Chierchia
Gellify (Italy)

Workshop

Smart Machines &
Smart Technologies

moderated by Stefano Fiorati
CNH Industrial (Italy) and
Gaétan Bouzard
Siemens (France)

Day IV JULY 15th

Enterprise Europe Network
Brokerage Event

Special networking event for
EEN members

- Welcome greetings
By Trentino Sviluppo

Workshop

The Mechatronic Accelerator
Experience, with startups
operating in the field of
Open Innovation
in Mechatronics

moderated by
Alfredo Maglione,
Optoi (Italy)

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