



# PROGRAMME

29 October, 2018 | Pre-conference workshops

30–31 October, 2018 | Conference

Vienna, Austria

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 767162.

## PROGRAMME

### PRELIMINARY

#### 29 Oct Pre-conference workshops

The following events will take place additionally to the INDTECH2018 conference (more to follow soon!):

- *2nd EU-Asia Dialogue on Nanosafety*
- *AMANAC (Advanced Materials and Nanotechnology in Construction) cluster: Branding innovations beyond the technical: the challenges and trade-offs of sustainable growth*
- *NAMEC workshop on advanced materials and nanotechnologies for chemical energy storage*
- *LowCarbonFuture - Exploitation of projects for Low-Carbon future steel industry*
- *A new vision for industrial partnerships*
- *Photonics 4 Industrial Production*

Please find further information via: <https://www.indtech2018.eu/side-events/>

#### 30 Oct First day

Live in room LEHAR 2/3/4 + Broadcasting in room STRAUSS 2 & 3

09:00 Registration

##### 10:00 Welcome & opening

- *Jean-Eric Paquet, Director General, European Commission DG Research and Innovation*
- *Andreas Reichhardt, Secretary General, Austrian Ministry for Transport, Innovation and Technology*
- *Klaus Pseiner, Managing Director, FFG Austrian Research Promotion Agency*

##### 10:20 Plenary – keynote 1

*Bertrand Piccard, Solar Impulse Foundation*

##### 10:40 Plenary – keynote 2

*Sabine Herlitschka, CEO & CTO, Infineon Technologies Austria AG*

##### 11:00 Plenary – panel discussion: Are KETs underpinning Europe's global leadership of different industries? A dialogue between industry and the European Commission

- *Sabine Herlitschka, CEO & CTO, Infineon Technologies Austria AG*
  - *Max Lemke, Head of Technologies & Systems for Digitising Industry, Directorate General CONNECT, European Commission*
  - *Egbert Lox, Senior Vice President Government Affairs, UMICORE*
  - *Bertrand Piccard, Solar Impulse Foundation*
  - *Ariane Thomas, Head of Strategic development Operations L'OREAL and Member High Level Industry 2030 EU Roundtable*
  - *Slawomir Tokarski, Director of Innovation and Advanced Manufacturing, Directorate-General Internal Market, Industry, Entrepreneurship and SMEs (DG GROW), European Commission*
  - *Lucyna Woźniak, Vice rector for Science and International Affairs and Head of Department at Medical University of Lodz and member of the Lamy group*
- Moderator:** *Peter Droell, Director of Industrial Technologies, Directorate-General for Research and Innovation (DG RTD), European Commission*

##### 12:00 Lunch break

30 Oct	<b>PILLAR 1:</b> Technologies for sustainable growth	<b>PILLAR 2:</b> Innovative industry for citizens	<b>PILLAR 3:</b> Ecosystem/framing conditions	<b>Networking &amp; policy support</b>
	Room LEHAR 2/3/4	Room STRAUSS 2	Room STRAUSS 3	Room STRAUSS 1
<b>13:30</b>	<b>1.1 – Green growth and circular economy</b>	<b>2.1 – Risk governance and management of innovation</b>	<b>3.1 – Networks/lab to fab/ecosystems</b>	<b>Matchmaking 1</b>
	<b>Promoting the contribution from bioeconomy towards green growth and circular economy</b> Agnes Borg, EuropaBio	<b>The challenge of coupling the Safe by Design principle to the regulatory process of new NMBP Technologies</b> Philippe Hubert, INERIS	<b>The role of KETs in the innovation ecosystem</b> Laure Baillargeon, DG GROW, European Commission	
	<b>Plastics chemical recycling</b> Maurizio Crippa, GR3N	<b>Strengthening the social value of nanotechnologies</b> Daan Schuurbijs, De Proeffabriek	<b>Technology infrastructures</b> Hélène Chraye, DG Research & Innovation European Commission	
	<b>Use of alternatives for green growth</b> Jürgen Lang, Evonik	<b>Regulatory Challenges in Risk Assessment of Nanomaterials</b> Abdelqader Sumrein, European Chemicals Agency and EU Observatory on Nanomaterials (EUON)	<b>European pilot line production facilities across Europe</b> Paula Galvão, INL Portugal	
	<b>New market opportunities in circular economy</b> Valentina Marino, VIMARK SRL	<b>The role of research in supporting safe innovation in the nanotechnology industry</b> Eva Valsami-Jones, NANOSAFETY Cluster	<b>Example of integrated modelling and characterisation in the same lab</b> Yves Samson, CEA-LETI	
	<b>Future steelmaking for sustainable growth</b> Rachel Pettersson, Jernkontoret	<b>White paper on governance (Nanoreg and 7or prosafe)</b> Tom Vanteunenbroek, Nanoreg	<b>Key role for Digital Innovation Hubs in the regions. New Open Innovation Test Beds (OITB)</b> Anne-Marie Sassen, DG CONNECT, European Commission	
	<b>Bringing together the steel, cement, chemicals, minerals and engineering sectors enabling cross-sectorial Industrial Symbiosis to become more efficient and sustainable</b> Greet Van Eetvelde, Ghent University	<b>2.2 – Medical technologies</b>	<b>Opening labs to industry</b> Alessandro Rainoldi, Joint Research Centre t.b.c.	
	<b>High value products from zero-value waste textiles and fibres via design driven technologies</b> Ivo Lamers, Vanberlo BV t.b.c.	<b>Innovative medical technology solutions for sustainable and equitable health for all</b> Patrick Boisseau, CEA		
	<b>How to accelerate the practical and scalable implementation of the circular economy</b> t.b.c.	<b>Biomimetic strategy for bone regeneration</b> Oskar Hoffmann, University of Vienna		
		<b>Cost-effective micro-structuring technologies for devices aimed to improve clinical diagnostics</b> Anneliese Pönniger, EV Group E. Thallner GmbH		
		<b>Nanomedicine driving the new collaborative business model of smart and connected medical devices</b> Klaus-Michael Weltring, Nanobioanalytic Muenster, ETP Nanomedicine		
<b>15:30</b>	<b>Coffee break</b>			

30 Oct	<b>PILLAR 1:</b> Technologies for sustainable growth Room LEHAR 2/3/4	<b>PILLAR 2:</b> <b>Innovative industry for citizens</b> Room STRAUSS 2	<b>PILLAR 3:</b> Ecosystem/framing conditions Room STRAUSS 3	<b>Networking &amp; policy support</b> Room STRAUSS 1
16:00	<b>1.2 – Sustainable and efficient energy</b>  <i>Improving the energy efficiency for vehicles – an important factor for sustainable mobility</i> Josef Affenzeller, AVL LIST GMBH  <i>Clean energy in construction</i> Niels Kåre Bruun, BetterHome  <i>Energy-enabling materials for Energy Efficiency in Buildings</i> Jorge Corker, IPN, AMANAC cluster  <i>Advanced materials and processes for photovoltaics</i> Simon Perraud, CLUSTER NAMEC  <i>Title t.b.c.</i> Fabrice Stassin, Managing Director EMIRI  <i>Industrial heat pump systems for waste heat recovery to save energy in industrial drying processes</i> Veronika Wilk, AIT  <i>Advanced materials for clean mobility</i> t.b.c., Solvay	<b>2.3 – Role of design inside industry processes</b>  <i>Improve the competitiveness of the industry through the provision of design-driven innovative solutions</i> Bertrand Fillon, IPC  <i>Design shots – design-driven innovation for SMEs</i> Ana Vella, Malta Business Foundation  <b>2.4 – Skills needs</b>  <i>Skills for risk management</i> Dora Fazekas, NANO2ALL, SPI  <i>Education and Training Resources from Collaborative Projects: SUSCHEM Educate to Innovate and Project SPRING</i> Amy Peace, Britest  <i>Skill needs anticipation for emerging technologies</i> Alena Zukersteinova, CEDEFOP – European Centre for the Development of Vocational Training  <i>Skills for emerging technologies</i> t.b.c.	<b>3.2 European Innovation Council (EIC) – SME Instrument</b>  <i>The SME Instrument – examples from Spanish SMEs</i> Lucía Iñigo, CDTI  <i>Development of a Machine for Multi-Material Manufacturing</i> Erich Neubauer, RHP Technology GmbH  <i>The SME Instrument – experiences with building a European Accelerator Programme</i> Bernd Reichert, EASME  <i>How to accelerate disruptive innovation in SMEs supporting them to promote consistent innovation and international growth</i> Felix Tiefenbacher, Heliovis  <b>3.3 – Co-funding/other funding</b>  <i>Co-funding: experience from Czech Republic</i> Martin Buncek, Technology agency of the Czech Republic  <i>Promoting an integrated ecosystem for funding and private investment in businesses through a range of custom-made financial instruments</i> Shiva Dustdar, European Investment Bank  <i>Funding innovation with crowdfunding</i> Carlos Ferrando, Closca  <i>Synergies with structural funds</i> Katja Reppel, DG Regio, European Commission	<b>Matchmaking 2</b>
18:00	<b>End pillar 1</b>	<b>End pillar 2</b>	<b>End pillar 3</b>	<b>Matchmaking 3</b>
18:30	<b>Dinner</b>			
21:30	<b>End day 1</b>			

Exhibition from 12:00 - 18:30

## PROGRAMME

### PRELIMINARY

#### 31 Oct **Second day**

Live in room LEHAR 2/3/4 + Broadcasting in room STRAUSS 2 & 3

08:00 Registration

#### 09:00 **Welcome**

- Video message from Norbert Hofer, Federal Minister for Transport, Innovation and Technology

- Video message from Carlos Moedas, Commissioner, European Commission Research, Science and Innovation

- Peter Droell, Director of Industrial Technologies, Directorate-General for Research and Innovation (DG RTD), European Commission

- Michael Wiesmüller, Head, Unit III/15 Key enabling technologies for industrial innovation: ICT, production and nanotechnology, Austrian Ministry for Transport, Innovation and Technology

#### 09:20 **Plenary – keynote 3**

Lisa Friedersdorf, US director of the NNCO (National Nanotechnology co-ordination Office of the USA)

#### 09:40 **Plenary – keynote 4**

Prof. Tao Zhang, Vice President, Chinese Academy of Sciences

#### 10:00 **Plenary – keynote 5**

Tomas Hedenborg, President of ORGALIME

#### 10:20 **Coffee break**

31 Oct	<b>PILLAR 1:</b> Technologies for sustainable growth Room LEHAR 2/3/4	<b>PILLAR 2:</b> <b>Innovative industry for citizens</b> Room STRAUSS 2	<b>PILLAR 3:</b> Ecosystem/framing conditions Room STRAUSS 3	<b>Networking &amp; policy support</b> Room STRAUSS 1
11:00	<b>1.3 – Environment and decarbonisation</b> <b>Circulating materials</b> <i>Anne-Chloe Devic, European Chemical Industry Council</i>	<b>2.5 – Standard setting</b> <b>Certification of medical devices</b> <i>Patrick Boisseau, CEA</i>	<b>3.4 – Co-programming partnerships</b> <b>Best-case examples within the contractual public-private partnerships (cPPPs)</b> <i>Daniel Gauthier, A.SPIRE Chairman</i>	<b>World Café</b> <b>Industry for people</b>
	<b>Transition towards a sustainable chemistry and clean technology: use of CO2 as alternative feedstock</b> <i>Ludo Diels, VITO</i>	<b>Identify, analyse and propose solutions to the standardisation bottlenecks and needs within the process industry</b> <i>Ignacio Martín, CIRCE Foundation</i>	<b>EMPIR, art. 185 initiative</b> <i>Duncan Jarvis, EURAMET</i>	
	<b>How to reduce pollution in cities using a stand-alone traffic system based in modular construction kits made of UHP Concrete</b> <i>Lutz Sparowitz, TU Graz and Wörle Sparowitz Ingenieure</i>	<b>Why standards? Is there a role for EU standards?</b> <i>Andreea Gulacsi, CEN-CENELEC</i>	<b>Example of Clean Sky MoUs</b> <i>Bruno Mastantuono, JTI Clean Sky</i>	
	<b>New bioremediation approach for soils and sediments</b> <i>Grazia Masciandaro, CNR</i>	<b>Methods for rapid and cost-effective nanotechnology testing and their standardisation</b> <i>Michael Stintz, Technical University Dresden</i>		
		<b>Support harmonious integration of innovative technologies into factory floors</b> <i>t.b.c.</i>		
12:00	<b>1.4 – Resources/critical materials</b>	<b>2.6 – Artificial intelligence/Ethical issues of data management</b>	<b>3.5 – International cooperation</b>	
	<b>More efficient use of materials through the industrial exploitation of materials modelling</b> <i>Nadja Adamovic, Technical University Vienna</i>	<b>Providing frameworks to help develop research ethics protocols, professional ethical codes and better legal frameworks for new technologies like artificial intelligence</b> <i>Philip Brey, University of Twente</i>	<b>Innovation, technology and marketing cooperation between Israel and EU</b> <i>Nili Mandelblit, ISERD</i>	
	<b>Recommendations for a Critical Raw Materials policy</b> <i>Peter Handley, DG GROW, European Commission</i>	<b>Innovative IT solutions to enable process and system-spanning data integrity and data usage</b> <i>Torsten Osthus, OSTHUS GmbH</i>	<b>Some insights on Nano-materials industrial application (Ukrainia-EU cooperation)</b> <i>Andrey Ragulya, National Academy of Sciences of Ukraine</i>	
	<b>Life cycle sustainable trade-offs and the “recyclable by design” model</b> <i>Shahaboddin Resalati, Oxford Brookes University</i>	<b>Facing protection of intellectual property rights when using artificial intelligence to develop innovation</b> <i>Burkhard Schafer, University of Edinburgh</i>	<b>Biotechnologies and biomaterials, a niche for Iran-EU cooperation</b> <i>Saeed Sarkaz, Tehran University of Medical Sciences</i>	
	<b>Advanced strategies for substitution of critical raw materials in photovoltaics</b> <i>Edgardo Saucedo, Catalonia Institute for Energy Research</i>	<b>Ethical issues of emerging technologies</b> <i>t.b.c.</i>	<b>On Mission Innovation global response. The future of Energy (Mexico-EU cooperation)</b> <i>Hermann Tribukait Vasconcelos, Ambassador to North America &amp; Mission Innovation Task Force Leader (Mexico)</i>	
			<b>Facilitating South Africa-EU research collaboration in nanotechnologies for industrial applications</b> <i>M. Gulumian Pr.Sci.Nat, ATS t.b.c.</i>	
			<b>Japan – EU cooperation in critical materials. The IRENA project</b> <i>Shigeo Maruyama, Japanese PC of the IRENA project t.b.c.</i>	
13:00	<b>Lunch break</b>			

31 Oct	<b>PILLAR 1:</b> Technologies for sustainable growth Room LEHAR 2/3/4	<b>PILLAR 2:</b> <b>Innovative industry for citizens</b> Room STRAUSS 2	<b>PILLAR 3:</b> Ecosystem/framing conditions Room STRAUSS 3	<b>Networking &amp; policy support</b> Room STRAUSS 1
14:30	<b>1.5 – Efficient manufacturing and automation</b> <i>The role of creativity and new enabling technologies for efficient manufacturing and automation</i> Bruno Buchmayr, Montanuniversität Leoben <i>Shaping the cognitive productions systems of the future</i> Alois Ferscha, COMET-Centre Pro <sup>2</sup> Future <i>Giving a response to the challenges of the 4th Industrial Revolution</i> Maurizio Gattiglio, Prima Industrie S.p.A <i>A Cyber Physical System (CPS) that combines new enabling technologies to optimise and enhance control of the injection moulding process</i> Jesus Gonzales, EURECAT	<b>2.7 – Biotechnologies and biomaterials</b> <i>Biotechnology and convergent technologies for efficient biomanufacturing</i> Marileen Dogterom, University of Delft <i>Emerging chemistry and material engineering to produce biocompatible, bioactive and bioresponsive biomaterials</i> Pamela Habibović, Maastricht University <i>Solutions for resource and energy efficient cellulose-based materials in electrical insulation, and beyond</i> Heli Kangas, VTT Technical Research Centre of Finland <i>Bridging the gap between science and industry by developing processes based on methods and tools from nature</i> t.b.c.	<b>3.6 – Metrology – next steps</b> <i>Capacity-building actions on a national and European level – EMPIR programme</i> Kamal Hossain, National Physical Laboratory (NPL) <i>Emerging metrology needs and related research activities</i> Duncan Jarvis, EURAMET <i>Future programming possibilities to extend EU-wide metrology collaboration in emerging strategic challenges for metrology</i> Petra Milota, Federal Office of Metrology and Surveying <i>Redefinition of the International System of Units (SI) with the support of current programmes at an international level</i> Jörn Stenger, PTB AM-Platform	<b>Fishbowl</b> Governance systems
15:30	<b>Advances in flexible continuous plants - novel online sensing equipment and closed-loop control of the key product parameters</b> Manuel Pereira Remelhe, Bayer AG <i>Driving up reliability, sustainability and efficiency of additive manufacturing</i> Elena Bassoli, UNIMORE t.b.c.	<b>2.8 – Frugal innovation process</b> <i>Investigating the relevance of frugal innovations for Austria: achieving “affordable excellence“ for Austrian enterprises</i> Tiwari, Rajnish - Center for Frugal Innovation (CFI)- TIM/TUHH <i>CEZAMAT as an example of frugal/rational planning of research infrastructure in state-of-the-art high-tech centres</i> Romuald B. Beck, CEZAMAT <i>Example of a frugal high tech innovation in European markets</i> t.b.c.		<b>Networks/lab to fab/ecosystems</b>
16:30	Coffee break			
17:00	Plenary – final wrap-up and ending			
17:30	End day 2			

Exhibition & site visits 10:20-17:00