



## PROGRAMME

29 October, 2018 | Pre-conference workshops

30–31 October, 2018 | Conference

Vienna, Austria

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## PROGRAMME - DRAFT

**29 Oct Pre-conference workshops**

The following events will take place additionally to the INDTECH2018 conference:

- *The future of batteries* | 09:00 – 12:00 | Room Schubert 2
- *How will biology influence future technologies?* | 09:00 – 12:00 | Room Schubert 3
- *ClusterNanoRoad: Validation of preliminary findings* | 10:00 – 12:30 | Room Schubert 1
- *AMANAC workshop: Branding innovations beyond the technical: Life Cycle Assessment and the trade-offs of sustainable growth* | 12:30 – 17:30 | Room Schubert 2
- *NAMEC workshop on advanced materials and nanotechnologies for chemical energy storage* | 13:00 – 15:30 | Room Business Suite 1-2
- *LowCarbonFuture – Exploitation of projects for Low-Carbon future steel industry* | 13:00 – 17:00 | Room Room Business Suite 3-4
- *Photonics 4 Industrial Production* | 13:00 – 18:00 | external: Marriott Courtyard, Trabrennstraße 4, 1020 Vienna, room Krieau 1+2
- *A New Vision for EU Industrial Partnerships* | 13:00 – 17:00 | Room Schubert 1
- *European Materials Characterisation Council: new challenges for advanced materials characterisation in Europe* | 13:00 – 18:00 | Room Schubert 3
- *Advanced Materials and Related Technologies Governance – From a sector-based to a problem-solving oriented programme* | 14:00 – 18:00 | Room Schubert 5
- *Consortia Building Workshop: Blueprint for Sectoral Cooperation on Skills – Industrial Symbiosis and Energy Efficiency* | 13:00 – 17:00 | Room Schubert 4
- *Safe Chemicals Innovation* | 13:30 - 15:00 | external: FFG, Sensengasse 1, 1090 Vienna, room 7th floor
- *2nd EU-Asia Dialogue on Nanosafety* | 10:00 – 19:00 | external: FFG, Sensengasse 1, 1090 Vienna, room Franziska Seidl

Please find further information via: <https://www.indtech2018.eu/thematic-workshops/>

**30 Oct First day**

Live in PLENARY room + Broadcasting in room STRAUSS 2 & 3

09:00 Registration

**10:00 Welcome & opening**

- *Jean-Eric Paquet, Director General, European Commission, DG Research & 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: KETs as enabler for an innovative industry**

*Sabine Herlitschka, CEO & CTO, Infineon Technologies Austria AG and member of the High Level Group of Industrial Technologies*

**11:00 Plenary – panel discussion: Are KETs underpinning Europe's global leadership of different industries?**

**Moderator:** *Jean-Eric Paquet, Director General, European Commission, DG Research & Innovation*

- *Sabine Herlitschka, CEO & CTO, Infineon Technologies Austria AG and member of the High Level Group of Industrial Technologies*
- *Egbert Lox, Senior Vice President Government Affairs, UMICORE*
- *Bertrand Piccard, Solar Impulse Foundation*
- *Lucilla Sioli, Director for "Artificial Intelligence and Digital Industry", European Commission, DG CONNECT*
- *Ariane Thomas, Head of Strategic development Operations L'OREAL and Member High Level Industry 2030 EU Roundtable*
- *Lucyna Woźniak, Vice rector for Science and International Affairs and Head of Department at Medical University of Lodz and member of the Lamy group*

**12:00 Horizon Prize on Materials for Clean Air Award ceremony****12:15 Lunch break**

**12:15-12:30 Official opening of the exhibition area**

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

30 Oct	PILLAR 1: Technologies for sustainable growth	PILLAR 2: Innovative industry for citizens	PILLAR 3: Ecosystem/framing conditions	Networking & policy support
	PLENARY room	Room STRAUSS 2	Room STRAUSS 3	Room STRAUSS 1
16:00	<b>1.2 – Sustainable and efficient energy</b> <i>Moderator: Fabrice Stassin, Manager EU Government Affairs Umicore</i> <i>Rapporteur: Elisabeth Einhorn</i> <b>Improving the energy efficiency for vehicles – an important factor for sustainable mobility</b> <i>Josef Affenzeller, AVL LIST GMBH</i> <b>Clean energy in construction</b> <i>Niels Kåre Bruun, BetterHome</i>	<b>2.3 – Role of design inside industry processes</b> <i>Moderator: H�el�ene Chraye, European Commission, DG Research &amp; Innovation</i> <i>Rapporteur: Marcela Alzin</i> <b>Improve the competitiveness of the industry through the provision of design-driven innovative solutions</b> <i>Bertrand Fillon, IPC</i> <b>Sport Infinity project. End-user design aspects</b> <i>Stephan Lintner, KISKA</i>	<b>3.2 European Innovation Council (EIC) – SME Instrument</b> <i>Moderator: t.b.c.</i> <i>Rapporteur: Franz Haider</i> <b>The SME Instrument – examples from Spanish SMEs</b> <i>Lucia I�iigo Paarmann, CDTI</i> <b>Development of a Machine for Multi-Material Manufacturing</b> <i>Erich Neubauer, RHP Technology GmbH</i>	<b>Matchmaking 2</b>
	<b>Advanced materials for clean mobility</b> <i>Thierry Collard, Solvay</i>	<b>Early upstream collaboration selecting materials, processes and the design approach to get the best product</b> <i>S�oren M�uller, INGWERK GmbH</i>	<b>The SME Instrument – experiences with building a European Accelerator Programme</b> <i>t.b.c.</i>	
	<b>Energy-enabling materials for Energy Efficiency in Buildings</b> <i>Jorge Corker, IPN, AMANAC cluster</i>	<b>Design shots – design-driven innovation for SMEs</b> <i>t.b.c.</i>	<b>How to accelerate disruptive innovation in SMEs supporting them to promote consistent innovation and international growth</b> <i>Felix Tiefenbacher, Heliovis</i>	
	<b>Innovative solar energy harvesting technologies</b> <i>Olga Malinkiewicz, SAULE Technologies</i>	<b>2.4 – Skills needs</b> <i>Moderator: Doris Schroecker, European Commission, DG Research &amp; Innovation</i> <i>Rapporteur: Marcela Alzin</i> <b>Skill needs anticipation for emerging technologies</b> <i>Stelina Chatzichristou, CEDEFOP – European Centre for the Development of Vocational Training</i>	<b>3.3 – Co-funding/other funding</b> <i>Moderator: Martin Buncek, Technology agency of the Czech Republic</i> <i>Rapporteur: Ingo Hegny</i> <b>Co-funding: experience from Czech Republic</b> <i>Martin Buncek, Technology agency of the Czech Republic</i>	
	<b>Advanced materials and processes for photovoltaics</b> <i>Simon Perraud, CEA Liten</i>	<b>Skills for risk management</b> <i>Ineke Malsch, NANO2ALL</i>	<b>Promoting an integrated ecosystem for funding and private investment in businesses through a range of custom-made financial instruments</b> <i>Marc D’hooge, European Investment Bank</i>	
	<b>Teaming up for clean energy &amp; clean mobility technology leadership in Europe</b> <i>Fabrice Stassin, Manager EU Government Affairs Umicore</i>	<b>Education and Training Resources from Collaborative Projects: SUSCHEM Educate to Innovate and Project SPRING</b> <i>Amy Peace, Britest Ltd.</i>	<b>Funding innovation with crowdfunding</b> <i>Carlos Ferrando, Closca</i>	
	<b>Industrial heat pump systems for waste heat recovery to save energy in industrial drying processes</b> <i>Veronika Wilk, AIT</i>	<b>Skills for emerging technologies</b> <i>Bernadette S�egol, Former Secretary-General, European Trade Union Confederation</i>	<b>Synergies with structural funds</b> <i>Katja Reppel, European Commission, DG REGIO</i>	
18:00	End pillar 1	End pillar 2	End pillar 3	Matchmaking 3
18:30	Networking buffet			
21:30	End day 1			

Exhibition from 12:00 - 18:30; 12:15-12:30 Official opening of the exhibition area

31 Oct	Second day
	Live in PLENARY room + Broadcasting in room STRAUSS 2 & 3
08:00	Registration
09:00	<b>Welcome</b> - <i>Video message from Norbert Hofer, Federal Minister for Transport, Innovation and Technology</i> - <i>Video message from Carlos Moedas, Commissioner, European Commission Research, Science and Innovation</i> - <i>H�el�ene Chraye, Head of Unit, Advanced Materials and Nanotechnologies, European Commission, DG Research &amp; Innovation</i> - <i>Michael Wiesm�uller, Head, Unit III/15 Key enabling technologies for industrial innovation: ICT, Manufacturing and Nanotechnologies, Austrian Ministry for Transport, Innovation and Technology</i>
09:20	<b>Plenary – keynote 3: The Key Role of Nanotechnology in Innovative Industries</b> <i>Lisa Friedersdorf, Director of the NNCO US (National Nanotechnology co-ordination Office of the USA)</i>
09:40	<b>Plenary – keynote 4: Research on Nanotechnology and Advanced Materials at the Chinese Academy of Science</b> <i>Tao Zhang, Vice President, Chinese Academy of Sciences</i>
10:00	<b>Plenary – keynote 5: Human Centric Agile Transformation</b> <i>Tomas Hedenborg, President of ORGALIME</i>

10:20	Coffee break				First Forum on batteries prize
31 Oct	<b>PILLAR 1: Technologies for sustainable growth</b>	<b>PILLAR 2: Innovative industry for citizens</b>	<b>PILLAR 3: Ecosystem/framing conditions</b>	<b>Networking &amp; policy support</b>	
	PLENARY room	Room STRAUSS 2	Room STRAUSS 3	Room STRAUSS 1	Room SCHUBERT 2
11:00	<b>1.3 – Environment and decarbonisation</b>	<b>2.5 – Standard setting</b>	<b>3.4 – Co-programming partnerships</b>	<b>World Café</b>	
	<i>Moderator: Anne-Chloe Devic, European Chemical Industry Council</i>	<i>Moderator: Sean O'Reagain, European Commission, DG Research &amp; Innovation</i>	<i>Moderator: Jürgen Tiedje, European Commission, DG Research &amp; Innovation</i>	<b>Industry for people</b>	<i>Hélène Chraye, European Commission, DG Research &amp; Innovation</i>
	<i>Rapporteur: Monika Marjanovic</i>	<i>Rapporteur: Marcela Alzin</i>	<i>Rapporteur: Ingo Hegny</i>		<i>Prize presentation: Martin Gieb and Valeria Lautizi, European Commission, DG Research &amp; Innovation</i>
	<b>Circulating materials</b> <i>Anne-Chloe Devic, European Chemical Industry Council</i>	<b>Certification of medical devices</b> <i>Patrick Boisseau, CEA</i>	<b>Building the Digitising European Industry innovation ecosystem: complementary roles of the FoF PPP, the ECSEL JU and the national initiatives</b> <i>Max Lemke, European Commission, DG CONNECT</i>		<i>Experts' panel (alphabetically): Jordi Aibar Sala, Earthdas</i>
	<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>Case study on how Clean Sky involves Member States in its governance (States representatives Group) and whether this is a model for co-programming partnerships</b> <i>Bruno Mastantuono, JTI Clean Sky</i>		<i>Sylvia Kleimann, Skeleton Technologies</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>Case study on working with many European platforms and how national industry platforms can still be taken into account</b> <i>Angels Orduna, A.SPIRE</i>		<i>Barbara Kowatsch, MatchLab Innovation</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>Luc van den Berghe, CEN-CENELEC</i>	<b>Case study on how to interact with national platforms - focussing on Industry 4.0 in particular</b> <i>Riikka Virkkunen, Factories of the Future</i>		<i>Simon Lambert, Faraday Institution</i>
	<b>Horizon Prize on materials for clean air</b> <i>t.b.c.</i>		<b>European funding and collaborations in the construction sector</b> <i>Alain Zarli, Energy Efficient Buildings</i>		<i>Tobias Placke, University of Muenster</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>		
	<i>Moderator: Olga Rio Suarez, European Commission, DG Research &amp; Innovation</i>	<i>Moderator: Doris Schroecker, European Commission, DG Research &amp; Innovation</i>	<i>Moderator: Hélène Chraye, European Commission, DG Research &amp; Innovation</i>		
	<i>Rapporteur: Monika Marjanovic</i>	<i>Rapporteur: Marcela Alzin</i>	<i>Rapporteur: Franz Haider</i>		
	<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>Open discussion</b>
	<b>Policy aspects of Critical Raw Materials</b> <i>Daniel Cios, European Commission, DG GROW</i>	<b>The EU policy perspective on the importance of AI – industrial and ethical aspects</b> <i>Juha Heikkilä, European Commission, DG CONNECT</i>	<b>Facilitating South Africa-EU research collaboration in nanotechnologies for industrial applications</b> <i>Sabelo Mhlanga, University of South Africa</i>		
	<b>Life cycle sustainable trade-offs and the “recyclable by design” model</b> <i>Shahaboddin Resalati, Oxford Brookes University</i>	<b>Innovative IT solutions to enable process and system-spanning data integrity and data usage</b> <i>Torsten Osthus, OSTHUS GmbH</i>	<b>Japan - EU cooperation in materials for SDGs and industrial technology, expected role of R&amp;D platforms</b> <i>Toshiki Nagano, Japan Science and Technology Agency (JST)</i>		
	<b>Advanced strategies for substitution of critical raw materials in photovoltaics</b> <i>Edgardo Saucedo, Catalonia Institute for Energy Research</i>	<b>Facing protection of intellectual property rights when using artificial intelligence to develop innovation</b> <i>Burkhard Schafer, University of Edinburgh</i>	<b>Some insights on Nano-materials industrial application (Ukrainia-EU cooperation)</b> <i>Andrey Ragulya, National Academy of Sciences of Ukraine</i>		
			<b>Biotechnologies and biomaterials, a niche for Iran-EU cooperation</b> <i>Saeed Sarkar, Tehran University of Medical Sciences</i>		
			<b>On Mission Innovation global response: the Clean Energy Materials Innovation Challenge (Cooperation with EU and beyond)</b> <i>Hermann Tribukait, Mexico Energy Innovation Funds &amp; Mission Innovation Co-Lead</i>		
13:00	Lunch break				

31 Oct	<b>PILLAR 1: Technologies for sustainable growth</b>	<b>PILLAR 2: Innovative industry for citizens</b>	<b>PILLAR 3: Ecosystem/framing conditions</b>	<b>Networking &amp; policy support</b>
	PLENARY room	Room STRAUSS 2	Room STRAUSS 3	Room STRAUSS 1
14:30	<b>1.5 – Efficient manufacturing and automation</b>	<b>2.7 – Biotechnologies and biomaterials</b>	<b>3.6 – Metrology – next steps</b>	<b>Fishbowl</b>
	Moderator: Jürgen Tiedje, European Commission, DG Research & Innovation	Moderator: Pamela Habibović, Maastricht University	Moderator: Sean O'Reagain, European Commission, DG Research & Innovation	<b>Governance systems</b>
	Rapporteur: Fazel Ansari	Rapporteur: Mara Weiß	Rapporteur: Mensah Caleb	
	<b>The role of creativity and new enabling technologies for efficient manufacturing and automation</b>	<b>Bridging the gap between science and industry</b>	<b>Capacity-building actions on a national and European level – EMPIR programme</b>	
	Bruno Buchmayr, Montanuniversität Leoben	Adolfo Benedito Borrás, AIMPLAS	Kamal Hossain, National Physical Laboratory (NPL)	
	<b>Shaping the cognitive productions systems of the future</b>	<b>Biotechnology and convergent technologies for efficient biomanufacturing</b>	<b>Emerging metrology needs and related research activities</b>	
	Alois Ferscha, COMET-Centre Pro <sup>2</sup> Future	Marileen Dogterom, University of Delft	Duncan Jarvis, EURAMET	
	<b>Giving a response to the challenges of the 4th Industrial Revolution</b>	<b>Emerging chemistry and material engineering to produce biocompatible, bioactive and bioresponsive biomaterials</b>	<b>Future programming possibilities to extend EU-wide metrology collaboration in emerging strategic challenges for metrology</b>	
	Maurizio Gattiglio, Prima Industrie S.p.A	Pamela Habibović, Maastricht University	Petra Milota, Federal Office of Metrology and Surveying	
	<b>A Cyber Physical System (CPS) that combines new enabling technologies to optimise and enhance control of the injection moulding process</b>	<b>Solutions for resource and energy efficient cellulose-based materials in electrical insulation, and beyond</b>	<b>Redefinition of the International System of Units (SI) with the support of current programmes at an international level</b>	
	Jesús Pablo González, EURECAT	Heli Kangas, VTT Technical Research Centre of Finland	Jörn Stenger, PTB AM-Plattform	
15:30	<b>Strengthening Europe's position in Smart Manufacturing: The role of Digital Industrial Platforms</b>	<b>2.8 – Frugal innovation process</b>		
	Max Lemke, European Commission, DG CONNECT	Moderator: Doris Schroecker, European Commission, DG Research & Innovation		
		Rapporteur: Mara Weiß		
		<b>CEZAMAT as an example of frugal/rational planning of research infrastructure in state-of-the-art high-tech centres</b>		
		Romuald B. Beck, CEZAMAT		
	<b>Advances in flexible continuous plants - novel online sensing equipment and closed-loop control of the key product parameters</b>	<b>Unlocking the potential of EU industries through frugal innovation and engagement with humanitarian aid</b>		
	Manuel Pereira Remelhe, Bayer AG	Andrea Debbane, Airbus Foundation		
	<b>Industry 4.0 for Aerospace &amp; Defence: a Leonardo Perspective</b>	<b>Example of a frugal high tech innovation in European markets</b>		
	Marina Settembre, Leonardo S.p.A.	Javier Ibañez-Guzman, Renault		
		<b>Investigating the relevance of frugal innovations for Austria: achieving "affordable excellence" for Austrian enterprises</b>		
		Rajnish Tiwari, Center for Frugal Innovation (CFI) - TIM/TUHH		
16:30	<b>Coffee break</b>			
17:00	<b>Plenary – final wrap-up and ending</b>			
	- Hélène Chraye, Head of Unit, Advanced Materials and Nanotechnologies, European Commission, DG Research & Innovation			
	- Michael Wiesmüller, Head, Unit III/15 Key enabling technologies for industrial innovation: ICT, Manufacturing and Nanotechnologies, Austrian Ministry for Transport, Innovation and Technology			
17:30	<b>End day 2</b>			

Exhibition & site visits 10:20-17:00