



PROGRAMME

29 October, 2018 | Pre-conference workshops

30–31 October, 2018 | Conference

Vienna, Austria

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PROGRAMME

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 – 16:00 | 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: Innovative Thinking for Clean Growth

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

30 Oct	PILLAR 1: Technologies for sustainable growth PLENARY room	PILLAR 2: Innovative industry for citizens Room STRAUSS 2	PILLAR 3: Ecosystem/framing conditions Room STRAUSS 3	Networking & policy support Room STRAUSS 1
16:00	1.2 – Sustainable and efficient energy <i>Moderator: Fabrice Stassin, Manager EU Government Affairs Umicore</i> <i>Rapporteur: Elisabeth Einhorn</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 for clean mobility <i>Thierry Collard, Solvay</i> Improving the energy efficiency for vehicles – an important factor for sustainable mobility <i>Josef Affenzeller, AVL LIST GMBH</i> Advanced materials and processes for photovoltaics <i>Simon Perraud, CEA Liten</i> Innovative solar energy harvesting technologies <i>Olga Malinkiewicz, SAULE Technologies</i> Industrial heat pump systems for waste heat recovery to save energy in industrial drying processes <i>Veronika Wilk, AIT</i> Teaming up for clean energy & clean mobility technology leadership in Europe <i>Philippe Jacques, EMIRI</i>	2.3 – Role of design inside industry processes <i>Moderator: H��l��ne Chraye, European Commission, DG Research & Innovation</i> <i>Rapporteur: Marcela Alzin</i> Improve the competitiveness of the industry through the provision of design-driven innovative solutions <i>Bertrand Fillon, IPC</i> Design-driven innovation for SMEs <i>Ivo Lamers, Vanberlo BV</i> Sport Infinity project. End-user design aspects <i>Stephan Lintner, KISKA</i> Early upstream collaboration selecting materials, processes and the design approach to get the best product <i>S��ren M��ller, INGWERK GmbH</i> 2.4 – Skills needs <i>Moderator: Doris Schroecker, European Commission, DG Research & Innovation</i> <i>Rapporteur: Marcela Alzin</i> Skill needs anticipation for emerging technologies <i>Stelina Chatzichristou, CEDEFOP – European Centre for the Development of Vocational Training</i> Skills for risk management <i>Ineke Malsch, NANO2ALL</i> Education and Training Resources from Collaborative Projects: SUSCHEM Educate to Innovate and Project SPRING <i>Amy Peace, Britest Ltd.</i> Skills for emerging technologies <i>Bernadette S��gol, Former Secretary-General, European Trade Union Confederation</i>	3.2 European Innovation Council (EIC) – SME Instrument <i>Moderator: Doris Schroecker, European Commission, DG Research & Innovation</i> <i>Rapporteur: Franz Haider</i> The SME Instrument – examples from Spanish SMEs <i>Luc��a I��igo Paarmann, CDTI</i> Development of a Machine for Multi-Material Manufacturing <i>Erich Neubauer, RHP Technology GmbH</i> How to accelerate disruptive innovation in SMEs supporting them to promote consistent innovation and international growth <i>Felix Tiefenbacher, Heliolis</i> 3.3 – Co-funding/other funding <i>Moderator: Martin Buncek, Technology agency of the Czech Republic</i> <i>Rapporteur: Ingo Hegny</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>Marc D’hooge, European Investment Bank</i> Synergies with structural funds <i>Katja Reppel, European Commission, DG REGIO</i>	Matchmaking 2
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	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 - H��l��ne Chraye, Head of Unit, Advanced Materials and Nanotechnologies, European Commission, DG Research & Innovation - Michael Wiesm��ller, Head, Unit III/15 Key enabling technologies for industrial innovation: ICT, Manufacturing and Nanotechnologies, Austrian Ministry for Transport, Innovation and Technology
09:20	Plenary – keynote 3: The Key Role of Nanotechnology in Innovative Industries <i>Lisa Friedersdorf, Director of the NNCO US (National Nanotechnology co-ordination Office of the USA)</i>
09:40	Plenary – keynote 4: Research on Nanotechnology and Advanced Materials at the Chinese Academy of Science <i>Tao Zhang, Vice President, Chinese Academy of Sciences</i>
10:00	Plenary – keynote 5: Human Centric Agile Transformation <i>Tomas Hedenborg, President of ORGALIME</i>

10:20	Coffee break				First Forum on batteries prize
31 Oct	PILLAR 1: Technologies for sustainable growth PLENARY room	PILLAR 2: Innovative industry for citizens Room STRAUSS 2	PILLAR 3: Ecosystem/framing conditions Room STRAUSS 3	Networking & policy support Room STRAUSS 1	Room SCHUBERT 2
11:00	1.3 – Environment and decarbonisation <i>Moderator: Anne-Chloe Devic, European Chemical Industry Council</i> <i>Rapporteur: Monika Marjanovic</i> Circulating materials <i>Anne-Chloé Devic, European Chemical Industry Council</i> Transition towards a sustainable chemistry and clean technology: use of CO2 as alternative feedstock <i>Ludo Diels, VITO</i> New bioremediation approach for soils and sediments <i>Grazia Masciandaro, CNR</i> How to reduce pollution in cities using a stand-alone traffic system based in modular construction kits made of UHP Concrete <i>Lutz Sparowitz, TU Graz and Wörle Sparowitz Ingenieure</i> <i>Winner of Horizon Prize on materials for clean air</i> <i>Jean-Jacques Theron, Corning European Technology Center</i>	2.5 – Standard setting <i>Moderator: Sean O'Reagain, European Commission, DG Research & Innovation</i> <i>Rapporteur: Marcela Alzin</i> Why standards? Is there a role for EU standards? <i>Luc van den Berghe, CEN-CENELEC</i> Identify, analyse and propose solutions to the standardisation bottlenecks and needs within the process industry <i>Ignacio Martin, CIRCE Foundation</i> Methods for rapid and cost-effective nanotechnology testing and their standardisation <i>Michael Stintz, Technical University Dresden</i> Certification of medical devices <i>Patrick Boisseau, CEA</i>	3.4 – Co-programming partnerships <i>Moderator: Jürgen Tiedje, European Commission, DG Research & Innovation</i> <i>Rapporteur: Ingo Hegny</i> Building the Digitising European Industry innovation ecosystem: complementary roles of the FoF PPP, the ECSEL JU and the national initiatives <i>Max Lemke, European Commission, DG CONNECT</i> 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 <i>Bruno Mastantuono, JTI Clean Sky</i> Case study on working with many European platforms and how national industry platforms can still be taken into account <i>Angels Orduna, A.SPIRE</i> Case study on how to interact with national platforms - focussing on Industry 4.0 in particular <i>Riikka Virkkunen, Factories of the Future</i> European funding and collaborations in the construction sector <i>Alain Zarli, Energy Efficient Buildings</i>	World Café Industry for people <i>Hélène Chraye, European Commission, DG Research & Innovation</i> Prize presentation: Martin Gieb and Valeria Lautizi, European Commission, DG Research & Innovation Experts' panel (alphabetically): <i>Jordi Aibar Sala, Earthdas</i> <i>Sylvia Kleimann, Skeleton Technologies</i> <i>Barbara Kowatsch, MatchLab Innovation</i> <i>Simon Lambert, Faraday Institution</i> <i>Tobias Placke, University of Muenster</i> <i>Philippe Vangeel, AVERE (European Association for electromobility)</i>	
12:00	1.4 – Resources/critical materials <i>Moderator: Olga Rio Suarez, European Commission, DG Research & Innovation</i> <i>Rapporteur: Monika Marjanovic</i> Policy aspects of Critical Raw Materials <i>Daniel Cios, European Commission, DG GROW</i> Life Cycle Sustainable Trade-offs: Implications for Material and Product Development <i>Shahaboddin Resalati, Oxford Brookes University</i> Advanced strategies for substitution of critical raw materials in photovoltaics <i>Edgardo Saucedo, Catalonia Institute for Energy Research</i>	2.6 – Artificial intelligence/Ethical issues of data management <i>Moderator: Doris Schroecker, European Commission, DG Research & Innovation</i> <i>Rapporteur: Marcela Alzin</i> What AI means for industry <i>Philip Brey, University of Twente</i> The EU policy perspective on the importance of AI – industrial and ethical aspects <i>Juha Heikkilä, European Commission, DG CONNECT</i> Innovative IT solutions to enable process and system-spanning data integrity and data usage <i>Torsten Osthus, OSTHUS GmbH</i> Facing protection of intellectual property rights when using artificial intelligence to develop innovation <i>Burkhard Schafer, University of Edinburgh</i>	3.5 – International cooperation <i>Moderator: Hélène Chraye, European Commission, DG Research & Innovation</i> <i>Rapporteur: Franz Haider</i> Research and Innovation Cooperation between Israel and EU <i>Nili Mandelblit, ISERD</i> Facilitating South Africa-EU research collaboration in nanotechnologies for industrial applications <i>Sabelo Mhlana, University of South Africa</i> Japan - EU cooperation in materials for SDGs and industrial technology, expected role of R&D platforms <i>Toshiki Nagano, Japan Science and Technology Agency (JST)</i> Some insights on Nano-materials industrial application (Ukrainia-EU cooperation) <i>Andrey Ragulya, National Academy of Sciences of Ukraine</i> On Mission Innovation global response: the Clean Energy Materials Innovation Challenge (Cooperation with EU and beyond) <i>Hermann Tribukait, Mexico Energy Innovation Funds & Mission Innovation Co-Lead</i>	Open discussion	
13:00	Lunch break				

31 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
14:30	1.5 – Efficient manufacturing and automation <i>Moderator: Jürgen Tiedje, European Commission, DG Research & Innovation</i> <i>Rapporteur: Fazel Ansari</i> The role of creativity and new enabling technologies for efficient manufacturing and automation <i>Bruno Buchmayr, Montanuniversität Leoben</i> Giving a response to the challenges of the 4th Industrial Revolution <i>Željko Pazin, EFFRA</i> Advances in flexible continuous plants - novel online sensing equipment and closed-loop control of the key product parameters <i>Manuel Pereira Remelhe, Bayer AG</i> A Cyber Physical System (CPS) that combines new enabling technologies to optimise and enhance control of the injection moulding process <i>Jesús Pablo González, EURECAT</i>	2.7 – Biotechnologies and biomaterials <i>Moderator: Pamela Habibović, Maastricht University</i> <i>Rapporteur: Mara Weiß</i> Biotechnology and convergent technologies for efficient biomanufacturing <i>Marileen Dogterom, University of Delft</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> Emerging chemistry and material engineering to produce biocompatible, bioactive and bioresponsive biomaterials <i>Pamela Habibović, Maastricht University</i> Bridging the gap between science and industry <i>Adolfo Benedito Borrás, AIMPLAS</i>	3.6 – Metrology – next steps <i>Moderator: Sean O'Reagain, European Commission, DG Research & Innovation</i> <i>Rapporteur: Mensah Caleb</i> Capacity-building actions on a national and European level – EMPIR programme <i>Hans Arne Frøystein, EURAMET</i> Redefinition of the International System of Units (SI) with the support of current programmes at an international level <i>Jörn Stenger, PTB AM-Plattform</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>	Fishbowl Governance systems
15:30	Shaping the cognitive productions systems of the future <i>Alois Ferscha, COMET-Centre Pro²Future</i> Strengthening Europe's position in Smart Manufacturing: The role of Digital Industrial Platforms <i>Max Lemke, European Commission, DG CONNECT</i> Industry 4.0 for Aerospace & Defence: a Leonardo Perspective <i>Marina Settembre, Leonardo S.p.A.</i>	2.8 – Frugal innovation process <i>Moderator: Doris Schroecker, European Commission, DG Research & Innovation</i> <i>Rapporteur: Mara Weiß</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> Unlocking the potential of EU industries through frugal innovation and engagement with humanitarian aid <i>Andrea Debbane, Airbus Foundation</i> Example of a frugal high tech innovation in European markets <i>Javier Ibañez-Guzman, Renault</i> Investigating the relevance of frugal innovations for Austria: achieving "affordable excellence" for Austrian enterprises <i>Rajnish Tiwari, Center for Frugal Innovation (CFI) - TIM/TUHH</i>		
16:30	Coffee break			
17:00	Plenary – final wrap-up and ending <i>- Hélène Chraye, Head of Unit, Advanced Materials and Nanotechnologies, European Commission, DG Research & Innovation</i> <i>- Michael Wiesmüller, Head, Unit III/15 Key enabling technologies for industrial innovation: ICT, Manufacturing and Nanotechnologies, Austrian Ministry for Transport, Innovation and Technology</i>			
17:30	End day 2			

Exhibition & site visits 10:20-17:00