P R O G R A M M E

29 October, 2018 | Pre-conference workshops

30–31 October, 2018 | Conference

Vienna, Austria

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FFG Promoting Innovation.

Federal Ministry Transport, Innovation and Technology

INDustrial TECHnologies 2018 Innovative Industries for Smart Growth

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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.

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PROGRAMME - PRELIMINARY

29 Oct	**Pre-conference workshops**

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

- *The future of batteries*
- *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*
- *Photonics 4 Industrial Production*
- *A new vision for a sustainable industry partnership*
- *European Materials Characterisation Council: new challenges for advanced materials characterisation in Europe – title t.b.c.*
- *Advanced Materials and related Technologies Governance – From a sectorial to a problem-solving oriented programme*
- *2nd EU-Asia Dialogue on Nanosafety*

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

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 RTD* - *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*
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* - *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, European Commission, DG GROW* - *Lucyna Woźniak, Vice rector for Science and International Affairs and Head of Department at Medical University of Lodzand member of the Lamy group* ***Moderator:*** *Peter Droell, Director of Industrial Technologies, European Commission, DG RTD*
12:00	**Lunch break**

30 Oct	PILLAR 1: Technologies for sustainable growth	PILLAR 2: Innovative industry for citizens	PILLAR 3: Ecosystem/framing conditions	Networking & policy support
	Room LEHAR 2/3/4	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: t.b.c.	*Moderator: Daan Schuurbiers, De Proeffabriek*	*Moderator: Hélène Chraye, European Commission, DG RTD*	
	Promoting the contribution from bioeconomy towards green growth and circular economy *Agnes Borg, EuropaBio*	***The challenge of coupling the Safe by Design principle to the regulatory process of new NMBP Technologies*** *Philippe Hubert, INERIS*	***The role of KETs in the innovation ecosystem*** *Laure Baillargeon, European Commission, DG GROW*	
	Plastics chemical recycling *Maurizio Crippa, GR3N*	***Strengthening the social value of nanotechnologies*** *Daan Schuurbiers, De Proeffabriek*	***Technology infrastructures*** *Hélène Chraye, European Commission, DG RTD*	
	Use of alternatives for green growth *Jürgen Lang, Evonik*	***Regulatory Challenges in Risk Assessment of Nanomaterials*** *Abdelqader Sumrein, European Chemicals Agency and EU Observatory on Nanomaterials (EUON)*	***European pilot line production facilities across Europe*** *Paula Galvão, INL Portugal*	
	New market opportunities in circular economy *Valentina Marino, VIMARK SRL*	***The role of research in supporting safe innovation in the nanotechnology industry*** *Eva Valsami-Jones, NANOSAFETY Cluster*	***Integrating modelling and characterization at CEA Minatec : rationale, ways and challenges*** *Yves Samson, CEA-LETI* *Begoña Sánchez, TECNALIA Research & Innovation*	
	Future steelmaking for sustainable growth *Rachel Pettersson, Jernkontoret*	***White paper on governance (Nanoreg and 7or prosafe)*** *Tom Vanteunenbroek, Nanoreg*	***Key role for Digital Innovation Hubs in the regions. New Open Innovation Test Beds (OITB)*** *Anne-Marie Sassen, European Commission, DG CONNECT*	
	Bringing together the steel, cement, chemicals, minerals and engineering sectors enabling cross-sectorial Industrial Symbiosis to become more efficient and sustainable *Greet Van Eetvelde, Ghent University*	**2.2 – Medical technologies** *Moderator: Klaus-Michael Weltring, Nanobioanalytic Muenster, ETP Nanomedicine*	***Opening labs to industry*** *Alessandro Rainoldi, Joint Research Centre t.b.c.*	
		Innovative medical technology solutions for sustainable and equitable health for all *Patrick Boisseau, CEA*		
	High value products from zero-value waste textiles and fibres via design driven technologies *Ivo Lamers, Vanberlo BV t.b.c.*	***Biomimetic strategy for bone regeneration*** *Oskar Hoffmann, University of Vienna*		
	How to accelerate the practical and scalable implementation of the circular economy *t.b.c.*	***Cost-effective micro-structuring technologies for devices aimed to improve clinical diagnostics*** *Anneliese Pönninger, EV Group E. Thallner Gmbh*		
		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	PILLAR 2: Innovative industry for citizens	PILLAR 3: Ecosystem/framing conditions	Networking & policy support
	Room LEHAR 2/3/4	Room STRAUSS 2	Room STRAUSS 3	Room STRAUSS 1
16:00	**1.2 – Sustainable and efficient energy**	**2.3 – Role of design inside industry processes**	**3.2 European Innovation Council (EIC) – SME Instrument**	**Matchmaking 2**
	Moderator: Fabrice Stassin, Energy Materials Industrial Research Initiative (EMIRI)	*Moderator: Olga Rio Suarez, European Commission, DG RTD*	*Moderator: Bernd Reichert, European Commission, EASME*	
	Improving the energy efficiency for vehicles – an important factor for sustainable mobility *Josef Affenzeller, AVL LIST GMBH*	***Improve the competitiveness of the industry through the provision of design-driven innovative solutions*** *Bertrand Fillon, IPC*	***The SME Instrument – examples from Spanish SMEs*** *Lucía Iñigo Paarmann, CDTI*	
	Clean energy in construction *Niels Kåre Bruun, BetterHome*	***Sport Infinity project. End-user design aspects*** *Stephan Lintner, KISKA*	***Development of a Machine for Multi-Material Manufacturing*** *Erich Neubauer, RHP Technology GmbH*	
	Energy-enabling materials for Energy Efficiency in Buildings *Jorge Corker, IPN, AMANAC cluster*	***Early upstream collaboration selecting materials, processes and the design approach to get the best product*** *Sören Müller, INGWERK GmbH*	***The SME Instrument – experiences with building a European Accelerator Programme*** *Bernd Reichert, European Commission, EASME*	
	Innovative solar energy harvesting technologies *Olga Malinkiewicz, SAULE Technologies*	***Design shots – design-driven innovation for SMEs*** *Ana Vella, Malta Business Foundation*	***How to accelerate disruptive innovation in SMEs supporting them to promote consistent innovation and international growth*** *Felix Tiefenbacher, Heliovis*	
	Advanced materials and processes for photovoltaics *Simon Perraud, CLUSTER NAMEC*	**2.4 – Skills needs** *Moderator: t.b.c.*	**3.3 – Co-funding/other funding** *Moderator: Martin Buncek, Technology agency of the Czech Republic*	
		Skills for risk management *Dora Fazekas, NANO2ALL, SPI*	***Co-funding: experience from Czech Republic*** *Martin Buncek, Technology agency of the Czech Republic*	
	Title t.b.c. *Fabrice Stassin, Managing Director EMIRI*	***Education and Training Resources from Collaborative Projects: SUSCHEM Educate to Innovate and Project SPRING*** *Amy Peace, Britest Ltd.*	***Promoting an integrated ecosystem for funding and private investment in businesses through a range of custom-made financial instruments*** *Shiva Dustdar, European Investment Bank*	
	Industrial heat pump systems for waste heat recovery to save energy in industrial drying processes *Veronika Wilk, AIT*	***Skills for emerging technologies*** *Bernadette Ségol, Former Secretary-General, European Trade Union Confederation*	***Funding innovation with crowdfunding*** *Carlos Ferrando, Closca*	
	Advanced materials for clean mobility *t.b.c., Solvay*	***Skill needs anticipation for emerging technologies*** *Alena Zukersteinova, CEDEFOP – European Centre for the Development of Vocational Training*	***Synergies with structural funds*** *Katja Reppel, European Commission, DG REGIO*	
18:00	**End pillar 1**	**End pillar 2**	**End pillar 3**	**Matchmaking 3**
18:30	**Networking dinner**			
21:30	**End day 1**			

Exhibition from 12:00 - 18:30

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PROGRAMME - PRELIMINARY

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, European Commission, DG RTD* *- Michael Wiesmüller, Head, Unit III/I5 Key enabling technologies for industrial innovation: ICT, Manufacturing and Nanotechnologies, Austrian Ministry for Transport, Innovation and Technology*
09:20	**Plenary – keynote 3** *Lisa Friedersdorf, Director of the NNCO US (National Nanotechnology co-ordination Office of the USA)*
09:40	**Plenary – keynote 4: Research on Nanotechnology and Advanced Materials at the Chinese Academy of Science** *Tao Zhang, Vice President, Chinese Academy of Sciences*
10:00	**Plenary – keynote 5: Human Centric Agile Transformation** *Tomas Hedenborg, President of ORGALIME*
10:20	**Coffee break**

31 Oct	PILLAR 1: Technologies for sustainable growth	PILLAR 2: Innovative industry for citizens	PILLAR 3: Ecosystem/framing conditions	Networking & policy support
	Room LEHAR 2/3/4	Room STRAUSS 2	Room STRAUSS 3	Room STRAUSS 1
11:00	**1.3 – Environment and decarbonisation**	**2.5 – Standard setting**	**3.4 – Co-programming partnerships**	**World Café**
	Moderator: t.b.c.	*Moderator: Doris Schroecker, European Commission, DG RTD*	*Moderator: Jürgen Tiedje, European Commission, DG RTD*	
	Circulating materials *Anne-Chloe Devic, European Chemical Industry Council*	***Certification of medical devices*** *Patrick Boisseau, CEA*	***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*** *Bruno Mastantuono, JTI Clean Sky*	**Industry for people**
	Transition towards a sustainable chemistry and clean technology: use of CO2 as alternative feedstock *Ludo Diels, VITO*	***Identify, analyse and propose solutions to the standardisation bottlenecks and needs within the process industry*** *Ignacio Martín, CIRCE Foundation*	***Case study on working with many European platforms and how national industry platforms can still be taken into account*** *Angels Orduna, A.SPIRE*	
	How to reduce pollution in cities using a stand-alone traffic system based in modular construction kits made of UHP Concrete *Lutz Sparowitz, TU Graz and Wörle Sparowitz Ingenieure*	***Why standards? Is there a role for EU standards?*** *Andreea Gulacsi, CEN-CENELEC*	***Case study on how to interact with national platforms - focussing on Industry 4.0 in particular*** *Riikka Virkkunen, Factories of the Future t.b.c.*	
	New bioremediation approach for soils and sediments *Grazia Masciandaro, CNR*	***Methods for rapid and cost-effective nanotechnology testing and their standardisation*** *Michael Stintz, Technical University Dresden*	***Case study referring to working with cities and urban regions in Member States*** *Alain Zarli, Energy Efficient Buildings*	
		Support harmonious integration of innovative technologies into factory floors *t.b.c.*		
12:00	**1.4 – Resources/critical materials**	**2.6 – Artificial intelligence/Ethical issues of data management**	**3.5 – International cooperation**	
	Moderator: Olga Rio Suarez, European Commission, DG RTD	*Moderator: Doris Schroecker, European Commission, DG RTD*	*Moderator: Hélène Chraye, European Commission, DG RTD*	
	More efficient use of materials through the industrial exploitation of materials modelling *Nadja Adamovic, Technical University Vienna*	***Providing frameworks to help develop research ethics protocols, professional ethical codes and better legal frameworks for new technologies like artificial intelligence*** *Philip Brey, University of Twente*	***Innovation, technology and marketing cooperation between Israel and EU*** *Nili Mandelblit, ISERD*	
	Recommendations for a Critical Raw Materials policy *Peter Handley, European Commission, DG GROW*	***Innovative IT solutions to enable process and system-spanning data integrity and data usage*** *Torsten Osthus, OSTHUS GmbH*	***Facilitating South Africa-EU research collaboration in nanotechnologies for industrial applications*** *Sabelo Mhlanga, University of South Africa*	
	Life cycle sustainable trade-offs and the "recyclable by design" model *Shahaboddin Resalati, Oxford Brookess University*	***Facing protection of intellectual property rights when using artificial intelligence to develop innovation*** *Burkhard Schafer, University of Edinburgh*	***Some insights on Nano-materials industrial application (Ukrania-EU cooperation)*** *Andrey Ragulya, National Academy of Sciences of Ukraine*	
	Advanced strategies for substitution of critical raw materials in photovoltaics *Edgardo Saucedo, Catalonia Institute for Energy Research*	***Ethical issues of emerging technologies*** *t.b.c.*	***Biotechnologies and biomaterials, a niche for Iran-EU cooperation*** *Saeed Sarkaz, Tehran University of Medical Sciences*	
			On Mission Innovation global response. The future of Energy (Mexico-EU cooperation) *Hermann Tribukait, Ambassador to North America & Mission Innovation Task Force Leader (Mexico)*	
			Japan – EU cooperation in critical materials. The IRENA project *t.b.c.*	
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
	Room LEHAR 2/3/4	Room STRAUSS 2	Room STRAUSS 3	Room STRAUSS 1
14:30	**1.5 – Efficient manufacturing and automation**	**2.7 – Biotechnologies and biomaterials**	**3.6 – Metrology – next steps**	**Fishbowl**
	Moderator: Jürgen Tiedje, European Commission, DG RTD	*Moderator: Pamela Habibović, Maastricht University*	*Moderator: Sean O'Reagain, European Commission, DG RTD*	
	The role of creativity and new enabling technologies for efficient manufacturing and automation *Bruno Buchmayr, Montanuniversität Leoben*	***Biotechnology and convergent technologies for efficient biomanufacturing*** *Marileen Dogterom, University of Delft*	***Capacity-building actions on a national and European level – EMPIR programme*** *Kamal Hossain, National Physical Laboratory (NPL)*	**Governance systems**
	Shaping the cognitive productions systems of the future *Alois Ferscha, COMET-Centre Pro²Future*	***Emerging chemistry and material engineering to produce biocompatible, bioactive and bioresponsive biomaterials*** *Pamela Habibović, Maastricht University*	***Emerging metrology needs and related research activities*** *Duncan Jarvis, EURAMET*	
	Giving a response to the challenges of the 4th Industrial Revolution *Maurizio Gattiglio, Prima Industrie S.p.A*	***Solutions for resource and energy efficient cellulose-based materials in electrical insulation, and beyond*** *Heli Kangas, VTT Technical Research Centre of Finland*	***Future programming possibilities to extend EU-wide metrology collaboration in emerging strategic challenges for metrology*** *Petra Milota, Federal Office of Metrology and Surveying*	
	A Cyber Physical System (CPS) that combines new enabling technologies to optimise and enhance control of the injection moulding process *Jesus Gonzales, EURECAT*	***Bridging the gap between science and industry*** *Garcia Amador, AIMPLAS t.b.c.*	***Redefinition of the International System of Units (SI) with the support of current programmes at an international level*** *Jörn Stenger, PTB AM-Platform*	
15:30	***Advances in flexible continuous plants - novel online sensing equipment and closed-loop control of the key product parameters*** *Manuel Pereira Remelhe, Bayer AG*	**2.8 – Frugal innovation process**		**Networks/lab to fab/ecosystems**
		Moderator: Doris Schroecker, European Commission, DG RTD		
		Investigating the relevance of frugal innovations for Austria: achieving "affordable excellence" for Austrian enterprises *Tiwari, Rajnish - Center for Frugal Innovation (CFI)- TIM/TUHH*		
	Driving up reliability, sustainability and efficiency of additive manufacturing *t.b.c.*	***CEZAMAT as an example of frugal/rational planning of research infrastructure in state-of-the-art high-tech centres*** *Romuald B. Beck, CEZAMAT*		
		Example of a frugal high tech innovation in European markets *Javier Ibañez-Guzman, Renault*		
16:30	**Coffee break**			
17:00	**Plenary – final wrap-up and ending**			
17:30	**End day 2**			

Exhibition & site visits 10:20-17:00