



Plenary Sessions

Plenary 1: Advanced materials and nanotechnologies for the european re-industrialisation

REPUBLIC HALL

Chair: Jonathan Borg Peter Dröll	University of Malta DG Research & Innovation, European Commission Opening words for EuroNanoForum 2017
Chris Cardona Martin Curley	Minister for the Economy, Investment and Small Business of Malta Innovation Value Institute Open Innovation 2.0- The new paradigm for harnessing disruptive digital technologies
Magnus Berggren	Linköping University Large-scale energy storage in paper, artificial nervous systems and electronic plants
Joe Murphy	Ellen MacArthur Foundation Big questions / small answers
Silvio Schembri	Hon. Parliamentary Secretary for Financial Services, Digital Economy and Innovation, Malta

Plenary 2: Nanotechnologies for industrial success

REPUBLIC HALL

Chairs: Martin Curley, Laura Koponen Fabio Gualandris	Innovation Value Institute Spinverse STMicroelectronics Semicond. back-end manufacturing: roadmap and future needs
Berthold Hellenthal	Audi Automotive drives development in advanced materials and nanoelectronics
Ed de Jong	Avantium Renewable chemicals into bio-based materials: from lignocellulose to PEF
Michel Glotin	Arkema Market introduction of nanostructured polymer materials: some lessons learned
Klaus-Michael Weltring	Nanobioanalytic Muenster Nanomedicine driving the new collaborative business model of smart and connected medical devices

Plenary 3: Investing in nanotechnologies

REPUBLIC HALL

Chair: Brigitte Tante Peter Dröll	DG Research & Innovation, European Commission EU-investments in industrial technologies - past, present and future
Lisa Friedersdorf	US NNI (National Nanotechnology Initiative) The U.S. National Nanotechnology Initiative: vision and best practices
Valeria Nicolosi	Trinity College Dublin Exploring the nano-flatlands: new frontiers opened by the world's thinnest materials
Magnus Ryde	Spirit Ventures We need a venture capital industry for high-tech SMEs!

Sessions Track 1: Nanotechnology in industrial applications

Session 1: Advanced Materials and Nanotechnologies for low carbon green energy

REPUBLIC HALL

Chair: Fabrice Stassin	EMIRI Establishing the Industrial Leadership of Europe in Advanced Materials for the Energy Union – The Role of Innovation
Alejandro Perez-Rodriguez	IREC- Catalonia Institute for Energy Research The EU PV cluster
Artur Kupczunas	Saule Technologies Perovskite based flexible ink-jet printed nanostructures for photovoltaic applications
John Bøgild Hansen	Haldor Topsoe Advanced nanomaterials for integration of renewable power production with catalytic fuel synthesis
Sophie Mailley	CEA CEA leads MAT4BAT and SPICY European projects

Session 2: Nanotechnologies applications for electronics

REPUBLIC HALL

Chair: Roberto Zafalon	STMicroelectronics KET pilot lines on smart systems are strategic assets in EU
Elvira Fortunato	Department of Faculty of Science and Technology of New University of Lisbon Sustainable materials applied to electronics
Herbert Pairitsch	Infineon Technologies Nanoelectronics to power your life
Ilkka Varjos	Canatu Ltd Turning any surface into a human interface

Session 3: Nano-enabled healthcare, nano-medicine and medical technologies

REPUBLIC HALL

Chair: Helene Chraye	DG Research & Innovation, European Commission
Iraida Loinaz	Fundación CIDETEC NanoPilot project: a pilot plant for the production of polymer based nanopharmaceuticals in compliance with GMP
Juuso Konttinen	UPM GrowDex® an innovative wood cellulose-based matrix for 3D cell culturing
Patrick Boisseau	CEATech Will medtech SMEs deliver the promises of P4 medicine?
Pilar Aguar	DG Joint Research Centre, European Commission The new EU regulatory landscape for medical devices
PEPTICAPS	Design of polypeptides diblock copolymers as emulsifiers to produce safe, controlled and reliable novel stimuli-responsive nanocapsules for skin care applications
SKHINCAPS	Skin healthcare by innovative nanocapsules
NANOFACTURING	The development of medium- and large-scale sustainable manufacturing process platforms for clinically compliant solid core nanopharmaceuticals
NanoPilot	A pilot plant for the production of polymer based nanopharmaceuticals in compliance with GMP

Session 4: Nanotechnologies and advanced materials in consumer goods

REPUBLIC HALL

Chair: Claus Hackmann	BASF Venture Capital GmbH
Carla Joana Silva	CeNTI-Centre for Nanotechnology and Smart Materials Nanotechnologies as a key factor in the development of sustainable and cost-effective products
Farnaz Ghajeri	Svenska Aerogel AB Market applications and developments of a nano-material meeting environmental and cost efficiency in industrial processes.
Jiri Kus	Czech Nanotechnology Industries Association Nanofiber anti-allergic bedding
Paul Kiekens	ETP for Textiles; Ghent University Nanotechnology for textiles and clothing: actual status

Session 5: Advanced materials and nanotechnologies for a bio-based and circular economy

M.A. GRIMA HALL

Chair: Johan Elvnert	European Forest-based Sector Technology Platform
David Sacco	Water Services Corporation Water reclamation in Malta
Jan Meneve	VITO Advanced engineering materials & technologies for a circular economy
Karen Hanghoj	EIT RawMaterials GmbH Raw materials – fundamental for advanced materials and technologies
Matti Heikkilä	Metgen Industrial enzymes for cellulosic sugars and beyond - the power and speed of tailored solutions

Session 6: Nanotechnologies in smart, green and integrated transportation

REPUBLIC HALL

Chair: Josef Affenzeller	EGVIA
Joseph Cilia	Abertax Technologies Ltd Smart energy systems to meet the power and energy demand in domestic and transport applications
Keith Simons	Elastopoli Oy AQVACOMP biocomposites for the automotive sector
Winfried Keiper	Bosch New materials and processes in transportation
Enda Ward	Valeo Automotive vision systems – opportunities & challenges for the future

Session 7: Nanotechnologies in buildings and construction industry

M.A. GRIMA HALL

Chair: George Katalagarianakis	DG Research & Innovation, European Commission
Antonio Porro Gutierrez	TECNALIA RESEARCH & INNOVATION Nanotechnology, value creation for the built environment
Dieter Meissner	Crystalsol Crystalsol's printing of single crystalline solar cells
Michele Andolfo	Selena Advanced nanocomposite material in efficient building
Santeri Suoranta	KONE Corporation KONE UltraRope - pushing high-rise buildings even higher

Session 8: Nanotechnologies and advanced materials for machinery and process tools

M.A. GRIMA HALL

Chair: Sandrine Lebigre	IPC Advanced materials and nanotechnologies as key enablers for smart composites
Amaya Igartua	IK4Tekniker The importance of the tribology in demanding industrial applications.
Patrik Karlsson	Centre For Research and Technology Hellas (CERTH) Protective composite coatings via electrodeposition and thermal spraying
Philipp Dreiß	XETICS GmbH Industry 4.0 in the manufacturing industry

Session 9: Electromechanical and fluidic systems at nano-scale

M.A. GRIMA HALL

Chair: Edward Gatt	University of Malta
Andreas Schütze	Saarland University Using passive fluidics to improve chemical micro-nano-sensor systems – the sensindoor approach
Jason Reese	University of Edinburgh Best of both worlds? How molecular engineering can empower extraordinary nano flow technologies
Mahavir Singh	Lionex Novel, low-cost tuberculosis tests
Sara Manzano	Advanced Innovation and Technology Corporation (ADItch) State of play of European micro and nanofluidics: the net-market-fluidics project

Session 10: Nanotechnologies in printing and additive manufacturing

M.A. GRIMA HALL

Chair: Katariina Torvinen	VTT
Edward Borg	Thought3D Starting-up in 3D printing, from the first layer
Ioanna Zergioti	National Technical University of Athens Laser printing for the development of sensors and organic electronic devices
Michael Thiel	Nanoscribe What if 3D printing was 100× more precise?
Monika Lelonek	SmartMembranes GmbH Nano porous alumina structures for innovative seamless R2R printing tools in high-throughput antireflection applications

Sessions Track 2: Enablers of the nano based success

Session 11: Materials modelling in an industrial context

TEMI ZAMMIT HALL

Chair: Nadja Adamovic	European materials modelling council (EMMC)
Adham Hashibon	Fraunhofer IWM Formulate your problem for getting a broad help! Use MODA tool
Gerhard Goldbeck	Goldbeck Consulting Ltd Translators in action: Bridging from industrial problems to materials modelling solution
Rudy Koopmans	Plastics Innovation Competence Center Show cases on the use of modelling in industry
Salim Belouettar	Luxembourg Institute of Science and Technology Integration of materials modelling into Business Decision Support Systems case of the H2020 COMPOSELECTOR project.

Session 12: Nanomanufacturing, characterisation and metrology

TEMI ZAMMIT HALL

Chair: Emmanuel Sinagra	University of Malta
Marco Sebastiani	University Roma Tre The role of advanced characterisation for nano-manufacturing: coordination in Europe through the European Materials Characterisation Council (EMCC)
Nikos Kehagias	Catalan Institute of Nanoscience and Nanotechnology Advanced manufacturing techniques for high-rate replication and non-invasive monitoring of nano-enabled plastic surfaces
Raffaele Corraeale	NanoTech Analysis A nanotechnology approach for the realisation of a novel generation of miniature and portable analytical instruments
Stefan Dimov	University of Birmingham Advances in micro and nano manufacturing: challenges and opportunities in technology convergence based solutions

Session 13: Technology and business networks in Europe - promoting innovation and new industrial ventures

TEMI ZAMMIT HALL

Chair: Paula Queipo Leon Gielgens	PRODINTEC NanoNextNL, Technology Foundation STW A success formula for societally relevant innovation with public-private partnerships in technology
Marie D'Iorio	NanoCanada Nano ecosystem in Canada
Mark Nicklas	DG GROWTH, European Commission Interregional partnerships to promote innovation and investment in new technologies
Peter Dröll	DG Research & Innovation, European Commission Bringing new technology to industry - Innovation hubs as the next step
Margarethe Hofmann- Amentenbrink	Mat Search Consulting Hofmann Materials Common House – a network of organizations to promoting material research with a view of its industrial relevance

Session 14: Pilot lines for industrial implementation

TEMI ZAMMIT HALL

Chair: Hans H Pedersen CO-PILOT	DG Research & Innovation, European Commission Flexible pilot scale manufacturing of cost-effective nanocomposites through tailored precision nanoparticles in dispersion
EELICON	Enhanced energy efficiency and comfort by smart light transmittance control
INTEGRAL	Initiative to bring the 2nd generation of thermoelectric generators into industrial reality
IZADI-NANO2INDUSTRY	Injection moulding, casting and coating PILOTS for the production of improved components with nano materials for automotive, construction and agricultural machinery
NanoHybrids	New generation of nanoporous organic and hybrid aerogels for industrial applications: from the lab to pilot scale production
NANOLEAP	Nanocomposite for building constructions and civil infrastructures: European network pilot production line to promote industrial application cases
NANOTUN3D	Development of the complete workflow for producing and using a novel nanomodified Ti-based alloy for additive manufacturing in special applications
OptiNanoPro	Processing and control of novel nanomaterials in packaging, automotive and solar panel processing lines
PROTECT	Pre-commercial lines for production of surface nanostructured antimicrobial and anti-biofilm textiles, medical devices and water treatment membranes
PLATFORM	Open access pilot plants for sustainable industrial scale nanocomposites manufacturing based on buckypapers, doped veils and prepregs
PRONANO R2R Biofluidics	Large scale micro-and nanofabrication technologies for bioanalytical devices based on R2R imprinting
SHYMAN SMARTONICS	Sustainable hydrothermal manufacturing of nanomaterials Development of smart machines, tools and processes for the precision synthesis of nanomaterials with tailored properties for organic electronics

Session 15: The societal dimension and governance of innovation

TEMI ZAMMIT HALL

Chair: Helene Chraye Abdelqader Sumrein	DG Research & Innovation, European Commission European Chemicals Agency A first look in EU observatory on nanomaterials
Daan Schuurbijs	De Proeffabriek: Consultancy for Responsible Innovation Reversing the order of innovation – putting people first
Eugenia Valsami-Jones	University of Birmingham EU nanosafety cluster activities
Keld Alstrup Jensen	National Research Centre for the Working Environment calibrate – A H2020 EU project to establish the next generation (innovation) risk governance framework for nanomaterials
Tero Mustonen	Performance Chemicals Division at BASF R&D pipeline steering driven by emerging regulations

Workshops

W1	Match final workshop - European innovation networks on advanced materials	DAVID BRUCE HALL
W2	Developing an industry-driven roadmap for materials characterisation in Europe	VASSALLI HALL
W3	Open innovation by pilot upscaling – the strategic framework and the EPPN	TEMI ZAMMIT HALL
W4	Malta high value-added industrialisation	SYNDICATE LOUNGE 9
W5	Delivering safe nanotechnologies to market	M.A. GRIMA HALL
W6	COST contribution to the fields of nanotechnologies and advanced materials	SYNDICATE LOUNGE 9
W7	Nanotechnologies & advanced materials for the Energy Union – going circular	SYNDICATE LOUNGE 8
W8	Nanotechnologies' scenarios to 2025 and beyond	DAVID BRUCE HALL
W9	NMBP stakeholders	TEMI ZAMMIT HALL
W10	Impact in Horizon 2020: a crash-course in how to make an impression with your project	SYNDICATE LOUNGE 9