



Sustainability Assessment of materials and technologies for a clean energy transition

Friday 25/02/2021 - 13:00-17:00 – Online

EM4I - Energy Materials for Innovation - 4th webinar - EERA's webinar series for invited speakers

Dr. Amaya Igartua

She is actually the Coordinator of European Actions in Materials in the Research Institution TEKNIKER and co-secretary of the European Platform of Materials EUMAT and the Alliance for Materials (www.eumat.eu). She has been during 10 years, the Head of the Tribology Unit in TEKNIKER. She has been participating in more than 50 EU Projects coordinating many of them related with the Development of Sustainable surface treatments (EFCAP, EREBIO, BIOSMART, NADIA). She is author of more than 200 publications in peer review papers, congress or book chapters. She has been Spanish representative in COST Initiatives (Tribology, Tribotechnology of engines and transmissions and Biotribology). She promoted the creation of the Virtual Tribology Institute (VTI), The Eureka action for Wear prevention and functional surfaces (ENIWEP, E-Surf) and the i-Tribomat Research Initiative. She is active in EMIRI (Materials for Energy Industrial Initiative), European Materials Modelling and Characterization Council (EMMC, EMCC), the Biomass Industry Consortia, the KMM (European Virtual Institute on Knowledge-based Multifunctional Materials), X-Tribology Competence Center (COMET), Network of plastics and composites (ECP4) and the Materials CapTech of EDA (European Defense Agency). She is now collaborating in the EU Project IRISS aiming to establish a EU led international community on sustainable-by-design materials to support embedding sustainability criteria over the life cycle of products and processes.



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Dr. Enrico Benetto

Dr. Benetto holds an environment-process engineering degree (1999, Politecnico Torino, cum laude), a PhD in Life Cycle Assessment (2002, INSA Lyon) and an Executive MBA (2018, ESSEC and Mannheim business schools). Dr Benetto's activity lies at the interface between academic research and industrial innovation, focusing on the development of life cycle-based metrics and models for the sustainability assessment of products, technologies and policies. He has worked as scientific consultant for a start-up he created in 2001 with the support of the Piedmont region. In 2006 he moved to Luxembourg to serve as R&D manager at the Henri Tudor research centre, creating a research group on sustainability assessment. Since 2015, he is leading the "Environmental Sustainability Assessment and Circularity" (SUSTAIN) unit at the Luxembourg Institute of Science and Technology, including 60 scientists. Dr. Benetto has authored 100+ peer reviewed scientific papers, 150+ scientific conference proceedings, 13 chapters in volumes with ISBN and edited one book, his H-index is 32.

He has supervised and/or managed 30+ international research projects on Sustainability Assessment of new technologies and products (funding: FP6-7, National Research Fund Luxembourg, LIFE+, Interreg, ERDF), 25+ collaborative research contracts with SMEs and large multinational industries. Dr. Benetto has contributed to the development of lifecycle metrics for Green and Sustainable Finance and has advised the TEG on Sustainable Finance of the EU Commission. He is serving as advisor in several Boards of industry, start-ups and research institutions. He was recently appointed by the Government of Luxembourg as expert member of the National Observatory for Climate Change policy.

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Prof. Dr. Holger Kohl

Prof. Dr. Holger Kohl is Vice-Director of Fraunhofer Institute for Production Systems and Design Technology IPK and Director of the Division Corporate Management at Fraunhofer IPK, Berlin as well as Professor for Sustainable Corporate Development at the Technical University of Berlin. He studied Business Engineering at the Technical University of Berlin and at the Haas School of Business at the University of California, Berkeley. In 1999 Prof. Kohl joined the Division Corporate Management at Fraunhofer IPK as a Senior Researcher. Since then he has initiated and conducted several national and international projects on Strategic Planning, Intelligent Manufacturing, and Business Process Reengineering and was responsible for their realization. Beside projects all over Europe, Prof. Kohl managed large scale projects in Brazil, Indonesia, Vietnam, Malaysia, UAE, Egypt, China, etc.



His primary research interests are in the area of Sustainable Manufacturing, Strategic Planning and Implementation of Innovation Systems, Intellectual Capital Management, and Benchmarking, in both the public and private sector as well as in the industry and service sector.



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Dr. Simone Manfredi

Simone Manfredi, born in Italy in 1981, obtained his Master degree in Environmental Engineering in 2006 within a double degree programme between the Technical University of Denmark and Padua University. In 2009, Simone obtained his PhD at the department of Environmental Engineering of the Technical University of Denmark with a thesis on “environmental assessment of solid waste management systems”.

He joined the European Commission (EC) Joint Research Centre (JRC) in 2009, where, since 2014 he acted as project leader of the Raw Materials Information System (RMIS), the EC's reference knowledge platform on sustainable raw materials supply chains.



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Dr. Beatrice Salieri

Beatrice Salieri holds a PhD in Environmental Science (Università degli Studi di Bologna). From 2014 to 2020, she worked at Empa, ALCA group, in the research fields of both improving the LCA methodology and integrating it into Safe by Design Approach to address the environmental impact and risk of nanotechnologies.

Since 2021, she works as Sustainability Consultant at TEMAS Solutions where she brings her strong expertise in LCA and nanotechnologies and she supports the development of Safe and Sustainable by design approach within EU-research projects (SUNSHINE, HARMELSS, nanoPAT).

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Dr. Manuel Baumann

Dr. Manuel Baumann is a researcher. He is a member of the group Research for Sustainable Energy Technologies at the Institute of Technology Assessment and Systems Analysis of the Karlsruhe Institute of Technology (KIT).

He is coordinator of the sub-program 6 “Energy storage: Tecno-economics and sustainability” of the Joint Program on Energy Storage of EERA and coordinator of several national and European projects.

His research interests are technology assessment, decision-making methods, techno-economics and life cycle assessment of energy storage technologies.

