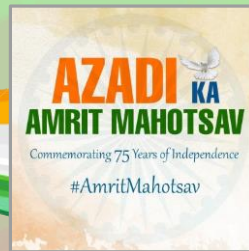


Online Workshop on ICME READINESS OF DIGITAL PLATFORMS

An Invited Technical Presentation Series: July-August, 2021



Organized by
ICME National Hub
in association with
Indian National Academy of Engineering



COMPOSELECTOR

By

Dr. Enrico Nobile

Co-founder, Board Member
& Scientific Advisor, ESTECO

Dr. Carlos Kavka

Head, Research and
Development, ESTECO

Mr. Marco Turchetto

Product Manager,
VOLTA Software Solution

Date and Time

July 20, 2021 (Tuesday), 06:00 PM IST

Zoom link for the event

<https://zoom.us/j/97692031231?pwd=VlJmRXJGMUFyVXJuUVhPczFCZmprdz09>

Meeting ID: 976 9203 1231

Passcode: 740924

About the Workshop

Integrated Computational Materials Engineering (ICME) is an emerging and transformative discipline with a huge potential to accelerate materials discovery, product design and process optimization. The Indian National Academy of Engineering (INAE) is engaged in developing a technology roadmap for "Accelerated Materials Discovery, Scale-up and Exploitation Strategy for Strategic Materials Needs of India". The compilation and integration capabilities of various digital platforms that can assist the ICME community is one of the essential parts of this effort. Therefore, the ICME National Hub at IIT Kanpur, in association with INAE, is organizing a "Workshop on ICME Readiness of Digital Platforms" – a technical presentation series about the capabilities of important digital platforms vis-à-vis accelerated development, production and exploitation of materials and products.

For more details please visit: <https://www.iitk.ac.in/ICME/INAE-Workshop/>

ICME National Hub Website: <https://www.iitk.ac.in/ICME/>

INAE Website: <https://www.inae.in/>

Abstract

This webinar focuses on recent research activities of ESTECO, an independent software provider, highly specialized in numerical optimization and simulation data management, the application of acquired knowledge to drive future product development.

Results of the COMPOSELECTOR European research project will be presented, showing how to leverage Business Process Modelling standards to include people in the loop of simulation through a Business Decision Support System (BDSS). This BDSS can support industry to make intelligent and well-informed decisions on materials and processes for creating new or enhancing composite-based products, selecting and evaluating options based on Key Performance Indicators (KPIs), obtaining an overall assessment of the design in the early concept stage. Presentation will be complemented with a demo of a business decision process for polymer composites.

Last part of the webinar is a discussion on ESTECO's current and future vision to make the most out of the knowledge acquired with Research and Development.

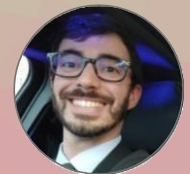
About the Speakers



Dr. Enrico Nobile is a co-founder, board member and scientific advisor of ESTECO. He is a full professor of Thermodynamics and Heat Transfer at the University of Trieste. He is the author or co-author of more than 120 publications. His present research interests are focused upon functional and shape optimization of heat transfer systems and components, and Radial Basis Function meshless methods in fluid flow and heat transfer.



Dr. Carlos Kavka is a PhD in computer science from the University of Paris- Sud. He has been professor at the National University of San Luis, Argentina and director of workshops at the International Centre for Theoretical Physics. He has participated in research activities at the LHC-CMS CERN experiment. He is currently the Head of Research and Development at ESTECO.



Mr. Marco Turchetto is the Product Manager of VOLTA software solution. He holds a MSc. degree in Mechanical Engineering with a thesis on optimization of wide body trains front at Bombardier Transportation Sweden AB. Prior to joining ESTECO in 2016 as a support engineer, he worked as a Test Specialist at FCA. He also had experience in an engineering consulting company focusing on managing torsional vibrations of ship engines.

Conveners

Dr. S. Bhattacharya

MSME, IIT Hyderabad
saswata[AT]msme.iitk.ac.in

Dr. G. Phanikumar

MME, IIT Madras
gphani[AT]iitm.ac.in

Dr. P. Chakraborty

AE, IIT Kanpur
cpitam[AT]iitk.ac.in

Dr. R. Sankarasubramanian

DMRL, DRDO, Hyderabad
sankara[AT]dmrl.drdo.in