Speakers Details

- **Ms. Gayani De Alwis**

  Supply Chain Transformation Catalyst P&G, WILT Chairwomen, Srilanka.

- **Dr. Tharanga K. Rajapakshe**

  Associate professor, Warrington College of Business, University of Florida, U.S.A

- **Prof. Fazleena Badurdeen**

  Professor, Director of Graduate Studies for Manufacturing Systems Engineering, University of Kentucky, U.S.A.

- **Dr Farah Shazwani**

  School of Engineering, Univeristy of Putra Malaysia, Malaysia.

- **Mrs. Prerna Chatterjee**

  Senior Manager, Sustainability at BASF

All selected papers will be published as Book Chapters after revision

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International Virtual Conference on Circular Economy

Organized by

School of Mechanical Engineering
Vellore Institute Technology
Vellore – 632014

In Association with

CIRCULAR ECONOMY CLUB

IISE

September 29, 2023

About the Conference

The conventional understanding of economic activity is based on a linear model. Natural resources are extracted and transformed into products; the products are bought and used by consumers who, as soon as the products no longer fulfill their needs, throw them away. However, this model ignores the high economic, environmental and social costs related to the extraction, transformation and disposal of resources, and is therefore unsustainable in the long term. A Circular Economy (CE) offers an alternative model where the value of products, materials and resources is maintained for as long as possible and waste is significantly reduced or even eliminated. Keep resources in use for as long as possible, extract the maximum value from them whilst in use, then recover and regenerate products and materials at the end of each service life. Focused on "closing the loops", a CE is a practical solution for living within our planetary boundaries. The transition towards a CE affects different policy areas, ranging from mobility, agriculture, land use and waste management, to business development and consumer education, concerning actors across all sectors and levels of governance. A CE is not something that any single institution or company can do alone. By its very nature, CE fosters connections across individual stakeholders and sectors. However, a transition to a CE is both a necessity and an opportunity, with the potential to offer long-lasting economic, environmental and social benefits. **Considering the need for ensuring circularity in manufacturing and supply chain this virtual conference seeks original manuscripts on the following topics**

- Circular Product design
- Circular Business Model
- Design for Remanufacturing
- Reverse Cycles and Cascades
- Sustainable Manufacturing in Industry 4.0
- Circular Supply Chain Management
- Other case studies related Circular Economy

Target Audience

Faculty members, research scholars, postgraduate and undergraduate students, participants from industries working in the field of engineering management and applied sciences are eligible.

Certification

Participation and presentation e-certificates will be issued by the School of Mechanical Engineering, VIT, Vellore.

About VIT

Vellore Institute of Technology (VIT) was founded in 1984 as Vellore Engineering College by Honourable Chancellor Dr. G. Viswanathan. VIT attracts students from all the states and union territories of India with more than 55 countries due to its academic excellence. The curriculum enables students to think innovatively through applied learning practices. Innovations like Fully Flexible Credit System [FFCS], Project-based Learning [PBL], entirely digitized academic portals and Hackathons assist students in equipping themselves for job skills and kindle their interest and curiosity, thereby molding them to be better problem solvers. VIT has strong tie-ups with Industries as well as to universities of national and international repute. These Memoranda of Understandings provide students with more significant opportunities to pursue higher education in their fields of interest. The national and international clubs and chapters at VIT provide arenas for the students to think out of the box and excel in co-curricular and extra-curricular activities. VIT has been recognized as the "Institution of Eminence" by the Govt. of India and accolades with A++ Grade by NAAC, MHRD, Govt. of India. VIT Information: www.vit.ac.in

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About SMEC

The School of Mechanical Engineering is amongst the premier schools of VIT, started functioning in 1984. The School has a team of elite faculty members, many holding PhDs from institutes of repute across the globe, to teach and train this country's best minds. The School of Mechanical Engineering offers 3 undergraduate and 5 post-graduate programs. The programs are designed to cater to the requirements of the aerospace, defence, manufacturing, energy and automotive sectors. The school has sophisticated infrastructure, industry-sponsored centres of excellence, and state-of-the-art lab facilities to impart and ensure knowledge centric ecosystem. I am elated to inform you that our school is the pioneer in promoting interdisciplinary and multi-disciplinary areas of research including Additive Manufacturing Technology, Electric and Hybrid Vehicle Technology, Composites and Nano-composites, Hydrogen storage, Advanced Materials and Processing, Material Characterization, Robotics, Mechatronics and Automation, Industry 4.0 and few more. The interdisciplinary approach to engineering education and research uniquely positions this school to educate future engineers and prepare them to work in a variety of fields and disciplines. The Memoranda of Understanding (MoUs) and collaborations with renowned industries and top-notch universities enable our students to carry out internships (industry/research) and semester abroad programs respectively. These MOUs enable our students to carry out their research internships through renowned fellowships such as MITACS, DAAD-WISE, etc. Two of the undergraduate degree programmes offered by the school namely B.Tech. Mechanical Engineering, and B.Tech. Mechanical Engineering [Automotive Engineering] is accredited by the Engineering Accreditation Commission of ABET. In Engineering and Technology, VIT stands 240th best in the World and the 9th best in India (as QS World University Ranking 2023). Also based on the same survey, Eight subjects of VIT are within the top 500 in the world. It is ranked the 9th best university and 10th best research institution and the 12th best engineering institution in India (NIRF ranking, Govt. of India 2022). It is ranked within the top 200 universities in Asia (QS – Asia University rankings 2022) and has got A++ in the 4th cycle of NAAC accreditation.

The pride of the school lies in the significant research funding received from several National and International agencies such as DST, DRDO, MNRE, CSIT, CVRDE, CPDO, AR&DB, BRNS, ISRO, NRB, Royal Academy of Engineering, British Council etc. The Department of Science and Technology, Govt. of India has recognized the school for its research activities and supported it in 2003, 2010 and 2022 under the Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions (FIST) Program. The school has also received institutional funding from DST under the Promotion of University Research and Scientific Excellence (PURSE) scheme in 2021 for fostering research in additive manufacturing.