

Changing Technologies for Engineering

Saturday 13th November 2021, 10:00 am (IST)

Opening Remarks



Dr. Ajay Pradhan
President
CEAI

Moderator



Mr. Charles Simoes
Core Committee Member CEAI-Western Region Centre
Adjunct Faculty at Sardar Patel College of Engineering
Former Associate Director Aker Solutions

Moderator



Mr. Suhas P Bhagwat
Core Committee Member CEAI-Western Region Centre
Founder & CEO, Avroglide Consultants
Former Vice President L&T Hydrocarbon Engineering

Building Information Modelling (BIM): Use for Project Lifecycle + Integrated Project Delivery + Lean Approach.

Integrating Design, Engineering and Construction using BIM

Speakers



Mr. Sanjeev. R
Process Consulting Manager Manufacturing Applications
Dassault Systemes India



Mr. Kiran Akre
Senior Manager
Pinnacle Infotech

Agile Project Management (in the Engineering Industry)

Hands-on Experience in Immersive Technologies



Mr. Mandar Thakurdesai
Director – Project Delivery Services, Worley India



Mr. Pradeep Naik
Head - Interactive Experience Product Engineering
Wipro Ltd

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Technology - the Big Boon
Transformed Work Life of Engineers
Changes Crept in
Learn, Be Aware – Changes are Inevitable
Be Prepared for the Future

CEAI aims to bring Indian Engineers upto speed with some of the technologies that are disrupting the Engineering industry. This webinar focuses on the technical areas.

We are in the midst of a technological revolution in which BIM - Building Information Modelling (referred to as Multi Dimension Modelling in the Process Industry) stands out. It is a virtual intelligent 3D model-based process that gives architecture, engineering (all disciplines), construction/ erection, operations and maintenance professionals the insight and tools to improve their efficiency to plan, design, construct and manage urban areas, buildings, infrastructure, industrial plant and equipment. The integrated BIM model allows team members from the various disciplines to work on one model understand the interdependencies of their work on the other disciplines and avoid interferences, check for adequacy of space for construction, erection and maintenance. A record of all changes done and by whom are maintained in the system. Once complete it serves as a model to record all maintenance work done.

The concept of Integrated Project Delivery expands the role for enabling close interaction amongst all the stakeholders right from the conceptualisation and planning stages to minimise cost and reduce the time to completion. Thus, the integrated organization through integrated coordination of all the systems connected with a project, brings the owners, architects, engineers and contractors together on a continuous basis to jointly evolve the project. That also results in solving complex problems in a much better manner due to holistic thinking.

Going beyond Integrated Project Delivery, Agile Project Management is a way of moving forward and creating value by the team with a mindset that allows them to meet challenges, learn quickly and respond to change. It is a different and new way of managing teams, individuals, projects and development. Agile is an incremental approach. Work is completed in small batches or sprints and then evaluated and tested. The method is collaborative and allows errors to be fixed or feedback to be taken into consideration as one moves forward.

Immersive technology makes it possible to experience virtual tours of BIM models by making use of devices like technical glasses, suits, headsets and gloves. Virtual reality (VR) provides a complete immersive experience that shuts out the physical world, whilst Augmented Reality (AR) adds digital elements to a live view. The potential of VR/AR technologies in conjunction with BIM are immense.

Speakers

Mr Sanjeev R is Technical Leader, Supply chain & Manufacturing Domain at Dassault Systemes. Earlier he served in the capacity of Solution Architect, Solution consultant in Product Lifecycle & Digital Manufacturing segment catering to Energy & Metals, Construction & Cities, Aerospace & Defense, Transportation & Mobility industries.

Prior to joining Dassault Systemes, he worked with L&T Technology Services and Dassault Systemes R&D in Digital Platform development and implementation. He played a significant role in business transformation by introducing various Digital solutions cutting across the organizational value chain in Product Life cycle Process, Virtual Simulations and IOT 4.0 technologies.

At Dassault Systemes he is leading a team of experts on Sales & Operations, Digital Continuity, Life Cycle & Operations Management, Lean Manufacturing and IOT 4.0, working with different industries and customers by consulting, implementation and deployment of the best practices and business processes. His major achievements are implementing Digital Manufacturing and PLM solution implementation at L&T, Ashok Leyland, Hero Motors, ADA, et al. He is quite conversant with Digital Platform solutions in Capital Facilities Information Management, Asset Management, Engineering Excellence, Optimized Constructions, Operations Excellence, etc.

Sanjeev holds a Master's Degree in Computer Integrated Manufacturing and a Bachelor's degree in Mechanical Engineering and has an industry experience of more than 12 years.

Mr. Kiran Akre is the Sr. Manager for MEP design department at Pinnacle Infotech, a global BIM leader providing innovative engineering solutions to AEC firms worldwide. He is responsible for designing MEP systems for different types of buildings.

Kiran is a Mechanical Engineer with about 13 years of experience, and an esteemed member of ASHRAE. He has worked with numerous clients on iconic projects in multiple verticals. His focus is on driving Integrated Design with BIM. Kiran works with his team on leveraging, identifying and driving new opportunities based on innovative capabilities and cutting-edge technologies.

Mr. Mandar Thakurdesai is a Civil Engineer with Masters in Construction Management. He has over 27 years of experience in EPC Oil and Gas Industry having worked in Project Management, Project Controls and Business Planning functions. Experience covers working in all phases of projects from Concept to Pre-commissioning. Worked in Client and EPC companies like Shell, BASF, Thyssenkrupp Industrial Solutions (Uhde) and Toyo Engineering before joining Worley in 2016. He is currently working as Director – Project Delivery Services and overseeing the Project Controls, Estimation and Document control functions pan India region at Worley India.

Mr. Pradeep Naik (Pandurang) has over 28 years of professional experience mostly with Wipro Ltd and EDS Inc USA. At Wipro CTO office, Pradeep is heading Interactive Experience Practice for Product Engineering in AR/VR Technology. He has architected and designed multiple products using AR and AI technology.

He is a technologist, experienced in Artificial Intelligence technology supporting research, innovation and product development in AR/VR technology. He is an active speaker in various forums and has 2 patents.

He is a Vice President of VR AR Association Pune Chapter. The VR AR Association, is an international body headquartered in USA. He is also a member of the Financial Service Committee of the Association.

He has been a regular speaker at various conferences covering topics on In-memory Computing, Distributed Computing and Human Machine Interaction technology.

Moderators

Mr. Charles Simoes holds a Bachelor's degree in Civil Engineering from VJTI, Mumbai, a MTech degree in Structural Engineering from IIT Bombay and a Master of Financial Management from Jannatal Bajaj Institute of Management Studies, Mumbai. He is a Fellow of the Institution of Engineers, India.

He worked at Tata Consulting Engineers (TCE) where he gained experience in the design of several chemical, man-made fibre, nuclear and thermal power projects. He later joined Aker Solutions where he worked his way to Associate Director.

During his professional career of over 35 years, he acquired vast multi-disciplinary technical knowledge, sound management skills and strategic thinking abilities playing leadership roles on prestigious and mega grass root Oil refinery, Gas, Offshore Platforms, Petrochemical, Chemical and Metals Projects for reputed Clients in India, North, Central & South America, Europe, Africa, Middle-East, East Asia and Australia. He has expertise in Project Management, Engineering Management, Operations Management, Systems Management, Quality Management, Construction Management, Problem Solving and Crisis Management.

Mr. Simoes has been actively involved in training, mentoring and coaching Engineers over several years and has a keen interest in academic studies. From 2018, he is an Adjunct Faculty at Sardar Patel College of Engineering for MTech classes in Structural Engineering and Construction Management.

Suhas P Bhagwat is the Founder & CEO, Avroglide Consultants. He was formerly a Vice President at L&T Hydrocarbon Engineering. Current focus as a Consultant is in deployment of Digital technology based solutions for Industrial applications. He has professional experience of over 39 years with Larsen & Toubro (L&T) and L&T Hydrocarbon Engineering and short stints at Ude India Limited and Thermax.

He has handled complete range of functions in the field of EPC Project implementation for Oil & Gas and Process industry; steered implementation of Operational Excellence Initiatives of the Organization, and deployment of integrated Digital Solutions for implementation of large scale Projects, all with the objective to enhance efficiencies and effectiveness.

He did his B. Tech., Chemical Engineering from IIT Madras and M. Tech., Chemical Engineering from IIT Bombay

He is a Core Committee Member of CEAI-WRC and an active member of the VR AR Association, USA as the Co-lead for Oil & Gas for Asia Pacific and member of their Energy Committee.

He has co-authored the Energy White Paper on VR AR for Energy Sector released recently by VRARA and also other publications on the subject.

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