

ISA_EVINFO / National Symposium

Basic Event Information

- Event Name: **National Symposium on Redefining the Creative Boundaries of Architecture & Construction with 3D Printing & Additive Manufacturing Technology**
- Event Duration: 1 day (19 Oct, 2024)
- Conducted by: ICF AI School of Architecture, Hyderabad in collaboration with National Centre for Additive Manufacturing (NCAM).
- Mode: Offline
- Event Host: ICF AI School of Architecture, Hyderabad.
- Recording available: Yes
- Poster available: Yes
- Symposium Aim : To make various stakeholders in the construction and design industry realize the power and potential of 3D Printing as a technological concept that would break the creative barriers of conventional design and redefine the design approach.
- No. of Participants: 80
- Event Sponsors: KMV Projects Ltd. & Navni Structural Systems Pvt. Ltd.
- **The themes of the symposium:**
 1. Implications of 3D Printing and Additive Manufacturing in Architectural Design & Construction Technology-Current scenario.
 2. Research & Development of New Building Materials in 3D Printing and Additive Manufacturing.
 3. Cost Optimization and Feasibility in 3D Printing and Additive Manufacturing.
- **Event Outcomes:** The event outcome was bringing awareness of the potential of Additive Manufacturing and 3d Printing Technologies among different professionals and stakeholders.

- Event Brief

- The ICFAI School of Architecture (ISArch), IFHE Hyderabad, in collaboration with the National Centre for Additive Manufacturing (NCAM), Hyderabad, organized a National Symposium on "Redefining the Creative Boundaries of Architecture & Construction with 3D Printing & Additive Manufacturing Technology" at Hotel Abode, Lakdikapul, Hyderabad.
- The symposium was convened by Prof. Munavar Pasha Mohammad and co-convened by Dr. Aruna Sri Reddi.
- The symposium was patronized by Dr. LS Ganesh, Vice-Chancellor of IFHE Hyderabad, Dr. K L Narayana, Director of the Faculty of Science and Technology at IFHE, Mr. Jaspreet Sidhu, CEO of NCAM Hyderabad, and Prof. Venkat Peesapati, Design Chair of ISArch.
- The event was graced by N Sobharani Yasawy, Chairperson ICFAI Society and gathered experts from the fields of architecture, civil engineering, and additive manufacturing to discuss the future potential of 3D printing in reshaping the design and construction industry.
- Dr. LS Ganesh, Vice-Chancellor of IFHE Hyderabad, addresses the core themes of the symposium and can help people from various industry professionals and stakeholders as a knowledge sharing platform bringing awareness of potential of additive manufacturing and 3D printing technologies.
- The event featured a keynote address by Dr. Suryakumar S., Dean of Innovation, Translation & Startups at IIT Hyderabad, who highlighted the potentials of 3D printing in architecture and construction. NCAM provided a comprehensive presentation on the latest developments in additive manufacturing technology, focusing on its practical applications in the building and design sectors.
- Expert speaker Ar. L Krishna Murthy from Folds Design Studio, Mumbai, who discussed the creative possibilities of 3D printing in architecture showcasing some of the examples that are implemented by the studio using 3D printing methods to bring complex geometries and advanced fluid forms to life, not just as molds but as final finished products. His explorations spanned a wide range of scales from intricate miniature to 2-inch furniture products to monumental 30 feet fluidic columns. He emphasized on the importance of human intelligence

and 3D printing, CNC and AI to be integrated as processors but the input is from Human Intelligence(HI).

- Dr. Najeeb Shariff Mohammad from IIT Bombay, offered insights into cutting-edge research on new materials and processes in additive manufacturing, with Industry 5.0 to bring back the Human centric approach to AI.
- Mr. Hrithik Thakur and Mr. Sarath Raj from TVASTA, Chennai, shared their experience with 3D-printed construction projects, emphasizing cost optimization and design feasibility, generative design workflows and the optimization of advanced construction methods.
- Mr. Kraveenthar Kamal from Maker Global, Hyderabad, explored the synergy between technology and architectural design. The seminars showcased how complexity in design could be overcome through 3D printing and Additive Manufacturing coupled with various technological advancements.
- An engaging panel discussion, moderated by Dr Aruna Sri Reddi of ISArch Hyderabad, featuring industry leaders Ar. L Krishna Murthy of Folds Design Studio, Mr. Shreeshha C V of Imaginarium, Mumbai, Mr. Suman Gowda of Philips Additive, Navi Mumbai, and Mr. Lakshmi Narayana of EDS Technologies, Hyderabad. The panel explored the challenges, opportunities, and future directions of 3D printing in the construction industry, with a focus on material innovation, cost-efficiency, and redefining design approaches.

Photographs:





