

## **IMECHE SHOWCASES A FRESH CROP OF INNOVATORS**

With 9 innovations having 9 innovators, the event titled 'Technology, Innovation and Start-ups in Process Industries' held on 27<sup>th</sup> October 2018 at Victor Menezes Convention Centre, IIT Bombay organised by the Process Division of Institution of Mechanical Engineers (IMechE) - India, scored a perfect "10".



100 minutes of original idea presentations and proactive Q&A sessions that left the audience spellbound with respect to originality of idea; and a wide range of application possibilities, to help the common mansolve some of his rudimentary problems and make his life easier.

Presentations were multifaceted and multidimensional covering, agriculture, waste water treatment, data sciences, mother and child care, solid fuel technology, automobile engineering and lifestyle enhancing products.

With customary registrations for the delegates starting at 315 PM, Mr. Uday Wankawala of SINE Mumbai orchestrated the entire program, rich in information, and supported by a hugely participative audience.

Mr. Prabal Sarma welcomed the delegates and gave a crisp insight into the functioning of IMechE, highlighting the 3 pillars that form the crux of what IMechE stands for internationally. Mr. Prabal informed the gathering that the Institution of Mechanical Engineers (IMechE), is one of the world's leading engineering institutions and exists to promote the advancement of mechanical engineering , providing internationally recognized accreditation of training , education and standards , and opportunities for engineers to develop their knowledge , status , and professionalism through continuous professional development. It also acts as a campaigning learned society for interests of mechanical engineering worldwide. Established in 1847 the Institution's heritage is today combined with its modern approach to international business. While members can benefit from this level of experience and established standards, it also means that its process of assessment is notoriously stringent and retains worldwide acclaim for its accuracy of assessment.



Dr Milind Atrey, Chair Professor of Mechanical Department of IIT Bombay and Chair Process Division (IMechE), explained the essentials of the event focussing on the context of the event



The event was put on roll with Mr. Mohammad Ayub Ali incubate at the MIT-ADT, Pune presenting his Autonomous Farm Bot, that would take care of pesticide & fungicide spraying in farms, to be followed by another agro domain product presentation by Mr Shubham Ghavane of the Deogiri Institute of Engineering and Management Studies who walked us through his solar powered Wheat Harvester.



Mr. Indrakant Jha of Energy Enviro (P) Ltd incubate at SINE , Mumbai gave a deep insight into the working of his Integrated Wetland Technology (IWT) which essentially is a natural wastewater treatment technology meant for treatment of sewage to make able reuse of water as per prescribed standards.

Mr. Manthan Trivedi of Innovation Labs (MANCORP) – presented his design ideas, for algorithms enabled by constraints, to enable modelling and decision support system implementations, these have limitless applications and end use. This was followed by Mr. Saurabh Markandeya of Adrian Engineering Technologies (P) Ltd, Bangalore showcasing the innovative Continuous Variable Transmission (CVT) Technology that optimizes drive train efficiencies for conventional engines and electric motors.



Mr. Siddarth Mayur of h2e Power Systems (P) Ltd, Pune presented the multi fuel capable solid oxide fuel cell based heat and power generation system, it was heartening to note that this much needed product to solve the rapidly increasing energy requirements, will soon roll out as a mass produced item thereby ensuring 24X7 clean green and affordable power technology.

CareNx Innovations (P) Ltd explained the working of FETON – the Foetal heart ratemeasurement and analysis device developed as and IoT, to monitor, support and save hundreds of high risk pregnancies, so common in hinterland areas of the country.



Mr. Vinit Tamhankar, took the floor away with his unique idea of visualising sound as solid state object having three dimensions, He showed how to model using strength of parametric modelling to convert sound in three dimensions.

Ms. Hrishita Shrivastava & Mr. Aman Goel presented their Artificial Intelligence (AI) and Chatbox enabled query handling system that would be so useful in institutions like banks and insurance companies to help solve some basic doubts of customers and frequently asked questions, through a pre-programmed routine of Q&A using a digital assistant guiding the call in party.





Dr Milind Atrey and Mr. Vijay Raman gave away event mementoes to all the participating innovators.

Mr. Uday Wankawala summarised the entire event and a Vote of Thanks was proposed by Mahesh Shinde (Secretary, IMechE India Branch & Process Division), highlighting the collective and collaborative efforts of all that makes programs like these a grand success.



The program concluded with networking over high tea. Most of the participants had an opportunity to interact for their quest and surely had some takeaways from the event.