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Editorial

Editorial for The Journal of Evolutions in Mechanical Engineering

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Editorial

Mechanical Engineering has become very interdisciplinary in the modern era. So, it is only fair that the recent Evolutions in Mechanical Engineering is being brought out as a separate Journal. Mechanical Engineering in recent times has drawn from areas like Materials Science, Mechatronics, Automotive Engineering and Renewable Energy. Traditional Mechanical Engineering mainly meant Thermal Engineering, Design and Manufacturing Engineering.

Now, the well-drawn out distinctions of the past have become more blurred and, in a sense, "cross-linked" with each other. Advances in Nanotechnology are being used in all fields to conserve energy and manufacture more fuel efficient and energy efficient devices. For Example- Nano Glue can be used to bind materials which were earlier thought to be unbendable. The concept of Nano glue itself originated from Nature, that is from Geckos. Man has to learn and is fast learning a lot from Nature. We have to mimic nature. Advances in Solar Cell and Wind Energy are being taken up on a war footing since man is fighting a time bound battle with nature in order to conserve and preserve nature, while at the same time make life more comfortable.

Many great discoveries were made inadvertently and not for the original purpose for which they were intended. Likewise, new research in Mechanical Engineering may benefit other branches of Engineering and vice-versa. For Example-Research on Transducers could be used in all fields of Engineering. The World itself has become a sort of Global Village, with information being available to all just at the click of a button/mouse. There is an imperative need to think in new, innovative ways to bring solutions to Real life problems using tools of Engineering. We have to build bridges between Traditional ways of thinking and modern ways of thinking. We cannot do away with tradition as traditional methods have served us for centuries. At the same time, the challenges faced by mankind over the last 2 to 3 decades demand a lot of lateral level thinking, with Researches across boundaries collaborating on Joint Projects. These days, you can have a Design office in The United Kingdom, design a new car and send it across to the shop floor in India, or Vice Versa.

Simulation Packages like CREO, ADAMS, PRO-E, CATIA and the like can be used to simulate real life situations. Crash tests can be designed to amazingly real levels. Human safety and comfort have become very imperative in an increasingly complex world. Advances in materials have also helped to design Crash resistant Materials. Environmental Issues have to be addressed urgently whenever we undertake new Research and the Buzz word has been- "Sustainable Manufacture. If we don't keep in mind, Mother Earth's kind demands, we may have to pay a heavy price in future. Already, we are seeing doomsday pundits predicting 1 or 2 degrees rise in temperatures globally and we are feeling the pinch everywhere. So, it is out joint responsibility to carry out Research in a Sustainable way. New Solar cells are being discovered, but the problem is-still we are not in a position to continuously sustain energy being drawn from solar cells. There have, however been exceptions and some places in Europe, The United States and India have been running Solar Power plants that are commercially viable. Some States in The United States have mandated the use of Solar Energy as a percentage of Total Energy. For Example-They have said that 25% of total energy used should be solar energy. Unless, these principles are put into practice through law, it would become difficult to make the common man understand the importance of renewable energy. Same is the case with Wind Power, which I believe some Countries like -The Netherlands have made great advances in. Mechanical Engineering has also wedded with Biology, coming out with Biotechnology and Biomechanics. The human body is being studied in depth like never before. Each part of the human body is being simulated and the Mechanics being observed. Other animals, birds and their motions have also been simulated and their movements have been used for a variety of purposes, ranging from drones to night vision devices.

Water Conservation is another area of Research, which deals with a lot of Mechanical Engineering. Many of the Gulf Countries and Israel are doing a marvelous job in water conservation. Drip Irrigation from Israel is now being practiced the world over and drones are being used to exactly supply the water needed for a particular plant, nothing more and nothing less. I would like to end this Editorial by thanking the Editorial Board of Evolutions in

Mechanical Engineering for giving me an opportunity to write the Editorial. I am sure that there will be more from me in the future too. I hope you all find this Editorial interesting. I also wish that we all continue to work together with more inspiration and tackle the problems being faced the world over by using more and more innovative research methods and techniques.

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