

## **FIFTH INTERNATIONAL MECHANICAL ENGINEERING CONGRESS**

Mechanical Engineering Department of NED University of Engineering and Technology and The Institution of Engineers Pakistan jointly organized the 5th International Mechanical Engineering Congress (FIMEC-2015) on 9th and 10th May, 2015, in collaboration with Federation of Engineering Institutions of Islamic Countries (FEIIC) and Federation of Engineering Institutions of South and Central Asia (FEISCA). Main research areas of the conference were Energy, Sustainability and Mechanical Design. In view of the pressing needs of our country in these areas, this conference was intended to provide an opportunity to the academia and the industry to share innovative ideas and solutions that could stimulate research and development.



**Participants standing for National Anthem at Conference Inaugural Session**

The conference was led by Prof. Dr. Afzal Haque, Patron-in-Chief of the Conference, Chief-Guest at inaugural ceremony and Vice Chancellor of NED University, Prof. Dr. Muhammad Tufail, Convener and Dean of Mechanical and Manufacturing Engineering Department, Prof. Dr. Mubashir Ali Siddiqui, Co-Convener and Chairman Mechanical Engineering Department, Dr. Maaz Akhtar, Conference Secretary and Assistant Professor in Mechanical Engineering Department along with faculty members from Mechanical and other departments of NED University of Engineering and Technology. The keynote address was presented by Prof. Dr. Tasneem Pervez, Assistant Dean of Research & Postgraduate Studies, Sultan Qaboos University, Oman. Professor Tasneem Pervez highlighted the importance of proper utilization of existing materials and their transformation into new tailored materials. Different industries like automotive, aircraft, construction etc. were discussed that are using these tailored materials but his talk mainly focused on their applications in the petroleum industry.



Audience attending conference technical session

Today, Pakistan is facing an unparalleled energy crisis in the form of acute shortages of electricity, natural gas and oil. Persistent load shedding of electricity and natural gas has had a detrimental effect on industrial growth and economic progress of the country. Moreover, the lack of initiative in mechanical engineering design has stifled the progress of our industrial sector. NED's Mechanical Engineering Department and Institution of Engineers Pakistan have taken the initiative to organize this conference in order to jumpstart the search for relevant solutions for Pakistan. Participation of academia and industrial experts from several related fields assisted in producing creative ideas, innovative research and groundbreaking development projects, which could potentially improve our country's technological standing.

The conference received an immense response from all over Pakistan. Due to the large number of paper submissions, the conference was conducted in six oral technical sessions and a poster presentation session. Papers were also received internationally from South Korea, China, Malaysia and Jordan. Technical session themes included Power Generation and Energy Audit, Renewable Energy, Heat Transfer Systems, Materials Science, Mechanical Design and Optimization. Several delegations from industries also attended the conference, including SAITA (Pakistan) Pvt. Limited, Creative Group Lahore, etc.

All the authors submitted their papers via an online submission portal, which was also used by participants to register in advance for the conference. All participants expressed their pleasure at the management of the conference while several praised the efficient usage of the online portal for paper submission and participant registration. Quality of papers and research presented at the conference also attracted the interest of delegates coming from different industries, making FIMEC-2015 a successful event. The organizers plan to hold this event on an annual basis and the next conference is planned for January next year.