

FINAL REPORT

INTERNATIONAL CONFERENCE ON ECO-SENSITIVE DEVELOPMENTS IN SCIENCE & TECHNOLOGY (ESDST-17) 20-21 JANUARY 2017

BABA BANDA SINGH BAHADUR ENGINEERING COLLEGE FATEHGARH SAHIB - 140407 (PUNJAB)

ESDST-2017 was conceived as technical congregation where the latest theoretical and technological aspects in Science and Engineering will be presented and discussed. The objective of the conference was to present the latest findings of the researchers and provide opportunities for the researchers to exchange their ideas face-to-face and establish research relations to find global partners for future associations. The outcome of the conference will significantly contribute to the knowledge enhancement in these fields. The conference was jointly supported by the Science & Engineering Research Board, Department of Science & Technology, and Maharaja Ranjit Singh Punjab Technical University, Bathinda. The college received around 150 research papers and after a review process, 98 papers were selected for presentation in six different tracks, viz. Track - I (Mechanical Engineering), Track - II (Computer Science & Engineering), Track - III (Electronics & Communication Engineering), Track - IV (Civil Engineering), Track - V (Electrical Engineering) and Track - VI (Applied Sciences). The abstract book of the conference was released by the dignitaries. Later, a total of 39 papers as evaluated and favourably reviewed by the experts have been published by International Journal of Engineering Research & Technology (IJERT) (ISSN: 2278-0181), Volume 5, Issue 05.

After a blessed opening ceremony of Gurbani recital by the college students on the morning of January 20, 2017, and a conference brief by Dr Lakhwinder Singh, Chairperson ESDST, Dr GS Lamba, Patron ESDST and Principal, BBSBEC, formally welcomed all the dignitaries. He emphasized the need of the hour to have such technical congregations and collaborations so that the students are motivated for research at young age.

Dr Sarit Kumar Das, Director IIT Ropar, Chief Guest of the day, in his keynote address, invoked the qualities of being courageous, honest and enthusiastic, as the benchmarks of qualifying a good teacher and researcher. He shared his personal experiences as a young fellow, a teacher and a supervisor and propagated the idea of 'thinking out of box'. He accentuated the need of sharing experiences with the students rather than just passing on the information that is available at the click of a mouse. He also mentioned about the having adopted BBSBEC, Fatehgarh Sahib and GNDEC, Ludhiana for mentoring both the faculty and the students and enhance the shared learning environment.

Dr Gurmohan Singh Walia, Vice Chancellor, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Guest of Honour, was more focussed on the local issues concerning the environment in the state of Punjab. He deliberated on the after effects of large scale increase of industrial and vehicular pollution and the abuse of natural resources and stressed that the issues need to be addressed urgently.

Dr GK Singh, Professor, IIT Roorkee, during his interaction with reseachers of Electrical Engineering discussed about the Power Systems, the current issues therein and the advanced techniques used to solve them. Dr. Jitendra Virmani, Senior Technical Officer, Central Scientific Instruments Organisation, Chandigarh, discussed about the Bio-medical engineering with the scholars and faculty members and also shared various venues of research ahead.

Dr Jaspal Singh, Chief Engineer, Punjab Agricultural University, Ludhiana, interacted with the researchers and students and through story telling tried to pass on the significance of team building and team work. The students not only appreciated the idea of presentation but also got the message.

While Dr Raman Maini, Professor, Punjabi University, Patiala, delivered talk on storage solutions and emphasized software solutions used in database implementations to allow maximum utilization of the hardware capabilities, Dr Himanshu Aggarwal, Professor, Punjabi University, Patiala deliberated on effeive paper writing.

Dr HS Bhatti, Professor, Punjabi University, Patiala, sensitised the audience about the depleting natural sources and the harmful effects of global warming and how the next generations are going to be affected by the same. He also proposed some of the techniques and awareness methodologies in the developed countries to be implemented here. Dr Ashwani Kumar, Professor, NIT Kurukshetra, talked about various issues concerning the Distributed Generation.

There were a total of 85 research papers presented in various fields such as, Computer Graphics, Software Engineering, Database management, Big Data, Design and automation, Advanced Materials, Industrial Engineering, Structure, Highways, Soil and Foundation, Environment engg., Power system, Sustainable energy, Hybrid technologies, Mathematical Modelling and optimization, Numerical analysis, High energy physics, green chemistry and organic synthesis. Over these two days, 11 experts from different fields chaired the sessions and interacted with the reseachers, motivating them to take up research as a career option.

The conference concluded on January 21, 2017 with the Chief Guest of the day, Dr Shakti Kumar, Vice Chancellor, Baddi University of Emerging Sciences and Technology, in his address, talking about the ecological sensitivity, presented data on the harmful aftereffects of various sources that have led to loss of life. He cautioned against the continuous increase in usage of vehicles, pesticides etc and also suggested some of the simpler ways in which we can sustain the luxuries of the life and still be sensitive to the environment. Prof. Bhajan Singh

Brar, USA also addressed the gathering of researchers on this occasion. The participants were awarded the certificates by the Chief Guest in company of the Patron and the Chairperson. Dr Amarinder Singh, Organizing Secretary, ESDST, read the brief report of the conference and Dr GS Lamba, Patron, ESDST, expressed his views about the conference and hoped that it would help the researchers in shaping up their work in a better manner. In the end, Dr Lakhwinder Singh, Chairperson proposed a vote of thanks to all those involved, particularly, the Science & Engineering Research Board, Maharaja Ranjit Singh Punjab Technical University, Experts of various fields and the researchers who contributed to the conference with their research work. He also thanked the editor of IJERT for special edition of the conference proceedings.



