

(30-31st October 2015)

A two day workshop on “Solar Air Heaters: Fundamentals, Design and Applications” was held in Department of Mechanical Engineering, GNDEC Ludhiana on 30th-31st October 2015. The workshop was sponsored by TEQIP-II GNDEC Ludhiana and Punjab Energy Development Agency (PEDA). The workshop was designed for providing comprehensive knowledge, design and applications of solar air heating systems. The workshop was inaugurated by Dr. M.S. Saini, Director, GNDEC Ludhiana on 30th October 2015. Dr. R.P. Saini, Professor, Alternate Hydro Energy Centre (AHEC), IIT Roorkee was the chief guest of the event. Dr. J.N. Jha, Coordinator, TEQIP, GNDEC Ludhiana, Sh. Anupam Nanda, Manager PEDA, Dr. Sehijpal Singh, Head, Department of Mechanical Engineering GNDEC Ludhiana and various Heads and Deans of different departments were also present during inauguration ceremony.

In the first session Dr. R. P. Saini delivered his talk on fundamentals of solar air heaters. He gave an overview of solar energy, its applications, solar air heaters and different methods to improve the performance of solar air heaters. The second lecture was delivered by Dr. Sukhmeet Singh Research Engineer, School of Energy Studies, PAU Ludhiana. He discussed on pricing methods for solar electricity and solar air heaters. In the last lecture of day one, Dr. Vishavjeet Singh Hans, Director, School of Energy Studies, PAU Ludhiana explained the use of heat transfer enhancement techniques in solar air heaters for performance improvement.

On day second i.e. 31st October 2015, Dr. G.N. Tiwari, Professor, Centre of Energy Studies, IIT Delhi was the guest of honour. Dr. Tiwari delivered an expert lecture on solar air heaters design and applications of solar air heaters. In the second talk, Dr. Harmeet Singh Associate Professor Department of Mechanical Engineering, GNDEC Ludhiana, discussed on solar air heaters, solar thermal energy storage, their techniques and materials. The last lecture was delivered by Dr. Subash Chander, Professor, Department of Mechanical Engineering NIT Jalandhar. He introduced on CFD based analysis of solar air heaters.

The workshop was attended by 40 students of B. Tech. Mechanical Engineering and 12 faculty members of Mechanical Engineering Department. Dr. V.S. Hans, Director, School of energy studies distributed the certificates to the participants.