

## EDITORIAL

**The National Welding seminar :** "NWS 2013" was held in Bangalore during February 7-9, 2013, the theme of the seminar being "Recent Developments in Welding Science and Technology". The venue was Karnataka Trade Promotion Organization Center (KTPO), built as a conference center with avant-grade facilities for conferences and exhibitions. The organizers of IIW Bangalore branch has made the seminar first time at this venue.

The seminar was inaugurated by Dr. Prabhat Kumar, Distinguished Scientist, Chairman & MD of BHAVINI. In his inaugural speech he emphasized the development of competent man power in welding through proper training and certification. The guest of honor Shri N. Srinavasa Rao, Director (Project), RINL, Visakhapattanam Steel Plant congratulated IIW for its role in extending technical education and training facilities to a wider section of the populace for a great returning HRD- which indeed is a point to be noted.

In the technical sessions 72 technical papers were presented reflecting the theme of the seminar, 6 papers in two plenary sessions, 66 papers in oral presentation and 10 papers in poster presentation. 70 exhibitors from India and abroad and about 415 registered delegates participated. We congratulate the organizers of NWS 2013 for their untiring efforts to make it a success.

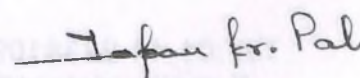
**Sir L. P. Mishra memorial lecture :** for the year 2013, this lecture entitled "Advances in welding and associated inspection technologies to overcome challenges in clean energy sectors" was delivered by Dr. T. Jayakumar, distinguished Scientist and Director, Metallurgy and Materials Group, Professor and Dean (Engineering -IGCAR), Homi Bhabha National Institute, Kalpakkam., at NWS 2013 on 7th February 2013. The lecture traces the development of the concept in welding technologies and corresponding advanced NDE technique for In-service Inspection of welded components in advanced ultra super critical power plants. In-service structural integrity of the welded components particularly for transition metal joints is constantly undermined by premature failure. Stringent welding procedure and PWHT have been recommended to avoid such failure.

**Dr. Placid Rodriguez Memorial lecture :** for the year 2013, this lecture entitled "Welding Developments in strategic sector-An industry perspective" was delivered by Mrs. Renu Gupta, L&T, Powai. The lecture cited few examples on recent developments towards fabrication of equipments in strategic sector carried out at L&T.

This issue contents one Memorial lecture, one ESAB INDIA award paper and one contributed paper. In the ESAB INDIA award paper on "Prediction of weld penetration in circular laser welds of ferrite steel (P91) material", the authors highlighted the prediction of weld penetration in circular laser weld using "Thermal Explosion approach" which can avoid no. of trials and develop confidence to the designer.

In the contributed paper on "Predicting Tensile strength and interface hardness of friction welded dissimilar joints of austenitic stainless steel and aluminum alloy by empirical relationships", the authors developed empirical relationship between process parameters and friction welded joint strength of AISI 304 ASS and AA6082 using statistical techniques and this facilitated to find out maximum tensile strength achievable by selecting the suitable friction welding parameters.

The April issue of IWJ is coming out late during May, 2013. Renew of AWS collaboration apart, late receipt of NWS 2013 report for publication has caused the delay which we sincerely regret.



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