EDITORIAL

The issue of IWJ comes to you with a new look. It shows Robotic MIG welding set up attached with fume chamber. Though it is now a very attractive welding process to the manufacturing industries globally, unfortunately none of the technical paper in this issue dealt with.

This time National Welding Seminar (NWS 2014-15) is being organized jointly by The Indian Institute of Welding-Jamshedpur branch & TATA Steel. The success of NWS 2014-15 has left us with futuristic bench mark. On behalf of the editorial board of IWJ, I congratulate all the award winners of NWS 2014-15.

You may be aware that 68th IIW Annual Assembly & International Conference on **"High Strength Materials - Challenges and Application"** is being held at Helsinki, Finland during 28th June to 3rd July 2015. Interested authors/members could participate in such global forum for the exchange of new technology to improve energy efficiency, safety, total lifecycle cost and design.

This issue of the journal has four technical papers including prestigious **Sir L. P. Misra Memorial Lecture** which was delivered by Dr. Shaju K Albert, Materials Technology Division, IGCAR. He basically shared his experience in different fields from the day he joined IGCAR. He covered weldability studies of Cr-Mo steels, measurement of diffusible hydrogen in steel welds, weldability of Austenitic Stainless Steel, welding technology, metallurgy and technology of hardfacing, repair welding, mathematical modeling of welding process. I hope the readers will get inspiration from the author.

The effect of welding current and welding time combination as well as welding current and electrode force combination on nugget diameter and tensile shear strength of resistance spot welded joints have been studied in the paper **"Resistance spot welding of 304 austenitic stainless steel sheet : part 1: fundamental, simulation, weld growth, tensile strength and failure mode analysis"**. The experimental data could be of interest to the designer.

In the paper **"Some studies on heat affected zone (HAZ) toughness behavior of API 5L X52 steel"**, authors used Gleeble thermal-mechanical simulator to study impact toughness of different regions in simulated submerged arc weld HAZ of API 5L X52 steel. Interestingly, CGHAZ of high heat input showed better toughness compared to base metal at room temperature.

The paper on **"Salvaging of large bell of D furnace of TATA Steel"** has described the adoptive method of reconditioning of a large damaged bell of D furnace with minimum shutdown period and cost. Here, I would like to emphasis the need for bringing such successful indigenous development activities before the welding fraternity. Such development is not only unique in TATA Steel; but in fact it is prevalent other industrial sectors of our country as well.

This issue also carries a report and wonderful picture of NWS 2014-15. The Editorial Board joins me to keep in record the organized efforts to make NWS 2014-15 a grand success.

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