
From the Joint Editor's Pen :

Dear Members,

Warm Greetings to you.

The second issue of the Indian Welding Journal printed in Bangalore is in your hands. We apologise for the delay in releasing the same, but we thought that National Welding Seminar at Baroda will be a memorable occasion to bringout the issue.



We are indeed very fortunate have a lead article from Professor Harry Bhadesia of Cambridge University for this issue. In this masterly presentation, he has highlighted the methods now available for estimating the microstructure, as a function of time, temperature and alloying additions. Similarly, important properties such as strength, Charpy toughness etc., can be modelled with an indication of uncertainty. We sincerely thank Professor Harry Bhadesia for this article.

The Focus in this issue is on **Automatic Welding**. An introductory article on 'BASICS OF AUTOMATIC WELDING' acts as a starting point. A complete section on 'FRICTION STIR WELDING (FSW)' follows this. To day FSW, a solid state welding process, is making big strides and is proving to be a process of great importance to industry. The article 'FRICTION STIR WELDING – AN OVERVIEW' provides a complete picture of the process, its fundamentals and applications. This is followed by an article on the program in R & D and New application in FSW. The article "FSW – POSSIBILITIES IN SHIPBUILDING" highlights some of the applications in Shipbuilding industry. We are thankful to ESAB AB Sweden for allowing us to publish two articles from 'SVETSAREN'.

The next section deals with Robotic Welding, another automatic welding method. The article by Mr. Nithin Kumar and Mr. Ajay Gopalswamy of Fanuc India explains the Robotic Welding of Automotive components with many practical examples. This is followed by an article by Mr. Dhamdhare and Chakroborty of L & T Powai on 'ROBOTIC WELDING – STEP TOWARDS SIX SIGMA IN WELDING'.

To day, flux cored wires play a major role in giving high quality welding with high productivity using Automatic Welding methods. The article by Mr. D.K. Sarma of ESAB INDIA gives a complete picture of the status in this segment. The Technical Section is concluded with an article on 'ORBITAL WELDING IN THE AEROSPACE INDUSTRY'.

Friends, the next issue is going to be dedicated to 'STAINLESS STEEL'. We propose to bringout a big volume containing almost all aspects of stainless steel for Welding Industry.

Do help us to make this a unique 'Collectors' item'.

Happy Reading

Yours Sincerely

V. R. Ramesh

V. R. RAMESH

Vice President - IIW