Press Release

IGCAR Transfers Activated Flux based TIG Process to Industry

Indira Gandhi Centre for Atomic Research, Kalpakkam has entered into a memorandum of agreement with ADOR Welding Ltd., Mumbai for the transfer of an international patented process “Penetration Enhancing Activated Flux for TIG Welding of Austenitic Stainless Steels”. IGCAR has developed several innovative and advanced technologies during establishing the fast breeder reactor technology over the last three decades. Towards transferring some of the spin off technologies of relevance to industries as well as for developing vendors to implement such technologies for utilization IGCAR has recently established a Technology Transfer Cell (www.igcar.gov.in/technologytransfer). A number of such technologies available in the form of patents, high impact technologies and know-how’s are listed in the website, and can be obtained contacting Head, Technology Transfer Cell (kamachi@igcar.gov.in).

Activated Tungsten Inert Gas (TIG) process involves the development of formulation and technology for using a specially designed flux that can enhance the penetration, depth and quality of austenitic stainless steel (SS) welds. The flux thus developed can be used for deep penetration welding of SS plates of 10 mm thickness for one meter long by using one gram of the flux. The process was demonstrated to the industry for transferring to the same for a period of three years on non-exclusive basis.

In an exclusive function at IGCAR, the memorandum of agreement between IGCAR and ADOR Welding Ltd., Mumbai was signed by Dr. Baldev Raj, Director, IGCAR and Mr. Raman Kumar, Managing Director, ADOR Welding Ltd for the transfer of Activated Flux based TIG Process. During the occasion Dr. Baldev Raj addressed the importance of technology transfer and explained how this would enhance the strength of Indian industry with indigenous technologies. He also explained the importance of pooling the technological resources in the country and effectively utilizing the same for demanding applications. Mr. Raman Kumar thanked IGCAR for providing valuable technologies for the benefit of Indian industry and assured the utilization of the technology transferred. Dr. U. Kamachi Mudali, Head, IGCAR Technology Transfer Cell welcomed the gathering and listed the possible technologies to be transferred to the industries in the near future. During the occasion, Shri P. Kalyanasundaram, Shri K.N. Nair, Shri D.Sathyamurthy, Shri D. Sujish, inventors Dr. M. Vasudevan and Dr. A.K. Bhaduri (all from IGCAR), and Shri R. Ravi, ADOR Welding Ltd. were present among the gathering.

Photo: Dr. U. Kamachi Mudali, Dr. Baldev Raj, Shri Raman Kumar, Shri R. Ravi