

EDITORIAL


With the demand for stringent quality requirement of weld, the chemical and physical reactions occurring during welding are being researched. Various techniques are being applied to understand those reactions for improved weld performance. In their paper "**Evaluation of arc welding process using digital storage oscilloscope and high speed camera**" N. Savyasachi et al. have emphasized that probability density distribution (PDD) analysis of the voltage and current signals from digital storage oscilloscope (DSO) and a high speed camera with laser light illumination could evaluate the performance of consumables or power sources.

With the development of new potential material, it is almost mandatory to develop electrode/filler wire for effective utilization of the material in various applications. Tapan Sarkar et al., in their paper "**Some aspects on the welding characteristics and formation of microstructures in a newly developed coated electrode for austempered ductile iron (ADI)**" addressed the development of coated electrode for DI followed by suitable welding procedure to produce crack free welding and finally austempering heat treatment was performed to check the response of heat treatment applied to weld metal. This development will facilitate for repair welding of ADI during manufacturing as well as joining DI followed by converting to ADI.

Power sector demand for high performance material is increasing to improve the efficiency of power plant. Different materials are being evolved to withstand high temperature and pressure. Commissioning high performance material could mean reduction of weight by reducing the thickness of material and concurrent cost of welding due to saving in welding consumable and energy needed. Dr. V. Vinoth Kumar et. al, in their paper "**Hot tensile properties of filler added constant current gas tungsten arc welded AISI 304HCu super austenitic stainless steel joints**" has highlighted performance characteristics of TIG welded AISI 304HCu super austenitic stainless steel containing 2.3 to 3 wt% Cu now being used for super heaters and re heaters of ultra super critical (USC) boilers.

The big event NWS 2015, as you must be aware, is closing in fast - 9 to 11th December, 2015 at Mumbai. Its details are available in this issue and no doubt all our members realize that the seminar would provide the right opportunity and forum for global level information on the developments in welding & allied technology.

With Joyous Bijoya and Deepawali Greetings !!!



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