

REPORT ON NATIONAL WELDING MEET 1997

"Welding for Energy Sector"

The prestigious annual event of the Institute – National Welding Meet (NWM) – for the year 1997 was held on 26th July '97 at the Science City Seminar Hall, Calcutta. Organised by the Calcutta Chapter of IIW, the theme of the conference was "Welding for Energy Sector". A day-long exhibition of welding machines and consumables was also held at the Exhibition Hall of the complex, which was inaugurated by Shri Bhakti Bhusan Mandal, Hon'ble Minister, Department of Co-operation, Government of West Bengal.

Later on, in his inaugural speech, Shri Mandal welcomed the initiative of the Indian Institute of Welding for this attempt to bring Man and Technology together for the service of man. He emphasised the need for training facilities for the rural population, in their own language. In his address, the Chief Guest of Honour, Shri Kshiti Goswami, Hon'ble Minister, PWD, Government of West Bengal, highlighted the acute energy shortage prevailing in developing countries in general. He emphasised the role of welding, particularly in maintenance and repair engineering, in the Energy Sector to help reduction of power cuts and load shedding. He

congratulated IIW for its role in disseminating knowledge of welding technology and facilitating related training. The Hon'ble Minister also released the Seminar Souvenir volume.

Earlier on, Shri S. K. Gupta, Chairman, IIW, Calcutta Chapter, welcomed the dignitaries, guests and delegates. While over 200 people attended the inaugural session, approximately 150 delegates attended the day-long technical sessions. Shri A. K. Mukherjee, Hony. Secy, IIW & Convenor NWM'97, outlined the perspective of the occasion in resonance with the objectives of IIW.

In his speech, Shri J. K. Nanda, President-IIW, gave the Institute's activity profile including educational and training facilities in the offing with international perspectives.

S/Shri C. Dasgupta, Jt. Mg. Director, CESC and S. Chakraborty, Director (Projects), Haldia Petrochemicals Ltd., were special guests. They explained the welding scenario in their respective organisations.

While proposing the vote of thanks, Shri A. Haldar, Vice Chairman, IIW Calcutta Chapter & Organising Secretary NWM'97, impressed upon the Hon'ble Ministers present to sanction a

suitable plot of land where the Institute's Head Office could be built. It is heartening to report that the Ministers present assured the organisers of their help in this respect.

The pre-lunch technical session was chaired by Shri D. S. Honavar, Mg. Director of M/s. Honavar Electrodes Ltd. Three Invited Papers were presented.

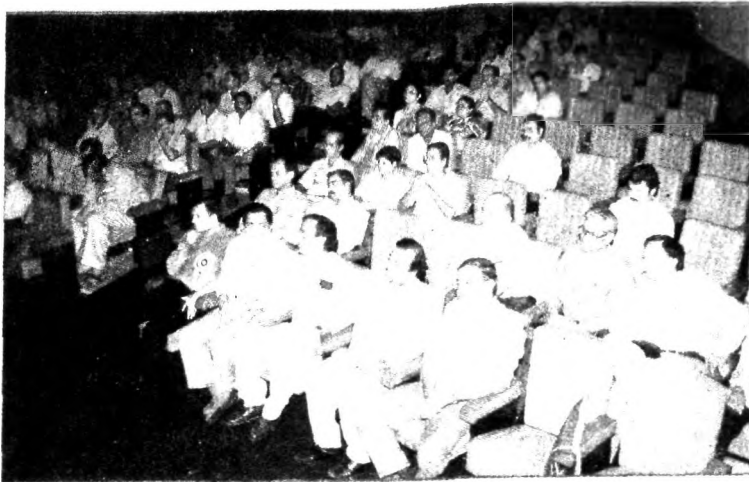
Shri S. Vaidyanathan, Offg. Director (QA), Nuclear Power Corporation, gave an overview of welding in nuclear fabrication. Shri N. Vishwanathan, Director (Tech), National Hydroelectric Power Corpn., spoke on the role of welding in hydroelectric power generation. Shri T. Bharadwaj, Director (Tech), Development Consultants Ltd., described the welding technology and its development in relation to thermal power plants in India.

The post-lunch session was chaired by Shri S. K. Burman, Technical Director (Inspection), M. N. Dastur & Company Ltd. Four Papers were presented.

Shri A. K. Shrivastava of NPC, in his paper on "Planning for Welding of Critical Joints in Nuclear Industry", described a case study of a joint in the Endshield for 500 MWe Project, Shri M. P. Dhanuka of Advani Oerlikon Ltd. reviewed the



NWM '97, Inaugural Session : Hon'ble Minister
Mr. Kshiti Goswami delivering his address.
At the Dais (L to R) : Mr. S. K. Gupta, Mr. Anupam Halder,
Hon'ble Minister Mr. B. B. Mandal, Mr. J. K. Nanda, Mr. C. Dasgupta,
Mr. S. Chakraborty and Mr. A. K. Mukherjee



A section of the Audience at NWM '97

"Revised ANSI/AWS 1996 Specification A 5.5 for Low-alloy Steel Electrodes for Shielded Metal Arc Welding." After about 15 years this ANSI/AWS specification has been revised. Dr. S. L. Mannan of IGCAR, in

his paper on "Materials for Fast Breeder Reactors and their Weldability", discussed briefly the weldability aspects of FBR materials during service as well as fabrication. He explained how the life of dissimilar metal joints

for steam generators can be extended by a suitable choice of joint preparation and welding consumables. This paper bagged the award for **Best Paper** presented during the MEET. Shri B. Malkani of Gullico International India Pvt. Ltd. presented a paper on "An Introduction to Low Cost Modular Automation System". He highlighted the concept of automation in welding using ceramic strips for high quality welding from one side, with the elimination of monotonous and slow back-chipping and gouging process.

The post-tea session was chaired by Shri Subhendu Chaudhury of ESAB India Ltd. Three papers were presented. Dr. P. K. Ghosh of Roorkee University, in his paper "Manual Metal Arc Welding of Modified 9Cr-1Mo Steel Pipe", gave his findings of the investigations carried out at different energy inputs and on post-weld heat treatment at various temperatures. In the second paper of the session, Shri R. Sengupta of ESAB dealt with a case study of successful hardfacing of worn-out PF Bends by high carbon - high chromium alloy deposit to prevent such recurring failures. The last technical paper was presented by Shri N. K. Sarkar of Konkan Railway, on "Repair Welding of Cracked Drums of Captive Boilers", in which he explained the causes of cracks, dealt with the weldability of cracked plates of Railway boilers and the

welding procedure, besides quality control and tests. This paper was awarded the **Second Best Paper** of the MEET.

The concluding and valedictory session was also chaired by Shri D. S. Honavar, who summed up the proceedings with his usual wit and humour. Shri A. Ghatak, Ex-Chairman of Damodar Valley Corporation and WBSEB, in his Valedictory Address explained the importance of using a proper

welding technology in the energy sector. Dr. G. L. Datta, Chairman of the Technical Committee of the MEET, proposed the Vote of Thanks.

A copy of the special supplement brought out by the daily Business Standard on 26th July, '97 on the MEET was handed over to each participant.

The Meet souvenir, released on the occasion, contains messages, the technical

papers and advertisements. A copy of the special supplement on the MEET brought out by the daily "Business Standard" on 26th July '97 was handed over to each participant. Several leading dailies also mentioned the MEET in their engagement columns. Earlier, the Organising Committee had arranged to meet the Press at the Press Club, Calcutta, on 21st July '97.

The Organising Committee

BRANCH NEWS

SEMINAR ON "LATEST TECHNIQUES IN MAINTENANCE WELDING" —

by
P. B. Chetty
Hony. Treasurer
IIW Bhilai Branch

A half day seminar on "Latest Techniques in Maintenance Welding" was organised jointly by IIW Bhilai Branch and Eutectic Division of L & T on 23rd May, 1997 at B.T.I. Assembly Hall.

Mr. P. K. Dubey, Vice Chairman, IIW Bhilai Branch, delivered the welcome address at the august gathering.

This was followed by three lively technical presentations. From L & T group, Mr. Rajneesh Dubey made a presentation on "Case study of reclamation of cut off valve rod of Blast Furnace", and Mr. D. K. Chakraborty's presentation was on "Aspects of Erosional Wear". Mr. S. C. Tuteja from Bhilai Steel Plant presented a paper on "Reclamation of Bottom Frame of Jointing Machine".

These presentations were followed by keen interaction of the house.

Mr. A. S. Khokhar, Chairman, IIW Bhilai Branch and the Chief Guest, in his graceful concluding

remarks, emphasised the use of innovative and improved welding technology and systems in the field of maintenance. Mr. A. S. Khokhar advised IIW Bhilai Branch to expand its activities by increasing involvement with neighbouring industries.

The seminar was attended by approximately 125 invitees, which included senior executives from Bhilai Steel Plant, HSCL, MECON, RDCIS, FSNL, BRP, representatives of L & T and local industries and other welding companies.

Mr. Lakhanlal, Hony. Secretary, IIW Bhilai Branch, proposed the vote of thanks.

BOOKS

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