

Conference Report

Report on WELD-2022

Annual Seminar, WELD-2022 of Kolkata Branch of The Indian Institute of Welding (IIW-India) was organised on April 22 2022 at Techno India University, Salt Lake, Kolkata on the theme "Recent Trends & Innovations in Welding". WELD-2022 was arranged to commemorate the 56th Foundation Day of The Indian Institute of Welding, and also to gear up the Celebration of the 50th year of Kolkata Branch of IIW-India during 2022-23.

The seminar was designed with:

- A Keynote Address and Invited Technical Papers from eminent scientists and scholars from Academia, Research Institute and the Industry.
- Special Lecture on the history of IIW-India Kolkata Branch on the occasion of its 50th year celebration.
- A special Session to present the latest technology and innovations in welding field.
- A Technical Session for Papers from Members of the Students' Chapter of IIW-India.

The Chief Guest of the event was Prof. Dr. Goutam Sengupta, Vice Chancellor, Techno India University (TIU). Prof. Dr. Rina Paladhi, Director, TIU, Prof. Dr. Avijit Kar, Director Principal, Techno India Main, Salt Lake (TMSL), Prof. Soumitra Sasmal, Registrar, Prof. Dr. Sujoy Biswas, CEO, Techno India Group (TIG), and Mr. Anit Adhikary, Director, TIG were the Guests of Honour. Dr. Mahadev Shome, Vice President, IIW-India and Mr. Rahul Sengupta, Convenor, WELD-2022 were also present on the dais.

Inaugural function started at 10:30am. The Welcome Address was given by Prof. G. L. Datta, Chairman, Kolkata Branch. Mr. Deepak V. Acharya, President, IIW-India

delivered the Inaugural Speech in Virtual Mode and congratulated Techno India University and Kolkata Branch of The Indian Institute of Welding and all the delegates for their cooperation and support to make this event happen. Dr. Mahadev Shome, Vice President, IIW-India addressed the gathering. Chief Guest, Prof. Dr. Goutam Sengupta, Vice Chancellor, Techno India University delivered his speech and asked students to get more and more involved with the activities of The Indian Institute of Welding. He tried to boost the young blood to come up with their innovative ideas and utilize this forum as the stepping stone in building their career. All the Guests of Honour briefly addressed the audience. The entire event of WELD 2022 was compeered by Shri Subhodwip Saha, a Life Member of IIW-India and Assistant Professor, Mechanical Engineering Dept., Techno India Main, Salt Lake, Kolkata. Mr. Devasis Paul, Honorary Secretary, Kolkata Branch of IIW-India gave the Vote of Thanks.

After this, Mr. Pabitra Kumar Das, Past President, IIW-India, narrated the History of The Indian Institute of Welding since its inception in 1966 and different activities of it and that of the Kolkata Branch in particular.

Mr. Johann Kubu of M/s. Cloos, Germany, and Mr. D. Bert of EBIW, USA delivered presentations on the latest developments in automated welding. These deliberations were arranged online from Germany and USA respectively. Delegates present in online as well as offline mode got the idea of different types of automations in welding fabrications being employed by these companies.

Technical Session I had Er. Soumitra Kumar De Memorial Lecture which was delivered by Mr. Somenath Ghosh, Chairman, Skill Development

Committee and Life Fellow of the Indian Institute of Welding on the topic “Skill Development Scenario– Contribution of different stakeholders”.

Technical Session II was Chaired by Prof. G. L. Datta, Chairman, Kolkata Branch, IIW-India and this session had the Keynote presentation first. It was delivered online by Prof. Dr. Swarup Bag of Indian Institute of Technology-Guwahati bearing the title, “Material Defects in FSW through Finite Element Simulation”. It follows the first Invited Paper that was delivered by Dr. Manidipto Mukherjee, CSIR-Central Mechanical Engineering Research Institute, Durgapur, West Bengal on an interesting topic, “Innovations in Wire Arc Additive Manufacturing (WAAM)”. The second Invited Paper in this session was delivered by Mr. Arunava Datta of Kalyani Government Engineering College, Kalyani, West Bengal on “Optimisation path strategies for Bulk Deposition using Finite Element Analysis”.

Technical Session III included paper presentations by students representing the

Students’ Chapters of IIW-India. Also there were brief addresses by Prof. Rajib Bandyopadhyay and Mr. Debashish Ghosh of Jadavpur University giving stress on industry-based projects to undertake by students. This session was chaired by Prof. Santanu Das, Vice Chairman, Kolkata Branch and Chairman, Welding Education Committee of IIW-India, and Chief Editor, Indian Welding Journal. Details of the presentations are given below:

- i) Ms. Deepika Verma spoke on “Introduction to Robotic Welding”. She was from Techno India Main, Salt Lake, Kolkata.
- ii) Mr. Saunak Banik deliberated on “Recent Studies on TIG Welding” representing Institute of Engineering & Management (IEM), Salt Lake, Kolkata.

At the end, Valedictory Session was held with Mr. Rituraj Bose, Honorary Secretary General, IIW-India and Vice Chairman, Kolkata Branch, in the Chair.

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