

# National Welding Meet - 2023

**1<sup>st</sup> September 2023**

**Registration**

**9:30 am to 10:30 am**

**Inauguration 10:45 AM**

**Welcome address**

**Sri Gyana Ranjan Mohanty, Chairman, IIW – Bhubaneswar Centre**  
**Sri Brahmananda Mishra, President, UCCIL**

**Address by**

**Sri. R. Srinivasan, Past President, IIW-India**  
**Sri. Rahul Sengupta, Vice-President, IIW-India**  
**Prof. Santanu Das, Chairman, Kolkata Branch, IIW-India**  
**Sri Sankar Biswas, Chief Guest, Chief of Mechanical Maintenance, Tata Steel**

**Role of IIW-India**

**Sri. Rituraj Bose, Hony. Secretary General, IIW-India**

**Concluding remarks and vote of thanks**

**Prof. Omkarnath Mohanty, IIW- India Bhubaneswar Center**

**Break: 11:50 - 12:00 PM**

**Technical Sessions and Papers:**

**Session 2: Welding Processes, Control and Characterization 12:00 PM**

- ❖ Control of software on control welding
- ❖ Aluminum-stainless steel dissimilar sheet metal joining by Pulsed CMT
- ❖ Aluminum-copper dissimilar plate joining by Friction Stir Welding
- ❖ Friction Welding of Auto Components- some example

**Lunch : 1:30 pm to 2:30 pm**

**Session 3: Skilling and certification 2:30 PM**

- ❖ AWS Courses for Indian Professionals
- ❖ Training opportunities from IIW-India
- ❖ A presentation on the opportunities offered by SDI
- ❖ Information on WELDEXPO and IMTEX Forming Exhibition

**Break: 3:30 - 3:45 PM**

**Session 4: Welding stresses and distortion 3:45 PM**

- ❖ Residual Stress in Welds and the Measurement Techniques
- ❖ Advanced Welding Technologies used for Aerospace Applications
- ❖ Distortion control in orthotropic steel deck welding
- ❖ Assessing residual stress of TLP-bonded Inconel 718 joint using X-ray diffraction technique
- ❖ Physically based heat source modelling for gas metal arc directed energy deposition process

‡All Programs are subject to last minute changes

# National Welding Meet - 2023

**2<sup>nd</sup> September 2023**

## **Session 5: Reclamation and Repair 9:30 AM**

- ❖ Advanced Welding Solutions for Steel Mills Roll Reclamation
- ❖ Best Practices for Welding Reclamation and Manufacturing approaches of SIS Injectors to advance the EAF process
- ❖ Introduction to Cladding for improving Corrosion Resistance

**Break: 10:30 - 10:40 PM**

## **Session 6: Quality Assessment 10:40 AM**

- ❖ Recent Innovations in Weld Inspection
- ❖ Quality Assurance – a state of mind
- ❖ High Pressure Hydrogen Storage- welding joint failure analysis
- ❖ Arc-welding inspection in Settler washer using phased array UT testing

**Break: 12:15 - 12:25 PM**

## **Session 7 Modern Welding Machines and its features 12:30 PM**

- ❖ Industry 4 and IoT in Manufacturing:LWSOFT 4.0 for welding industries
- ❖ Industry 4.0 in Welding
- ❖ SKS Welding Systems: Pioneering Excellence in Welding Technology
- ❖ With ABICOR BINZEL you're on the way to a Green Factory
- ❖ Industry 4.0: transforming manufacturing and beyond in the fourth industrial revolution

**Lunch: 1:45 – 2:30 PM**

## **Session 8 Processes and Characterization of Welding 2:30 PM**

- ❖ Exploring Interface Characteristics in Wire Arc-Based Additive Manufacturing for Bimetallic Structure
- ❖ An Exploratory Study on TIG based Additive Manufacturing of Nimonic 263 Alloy
- ❖ Challenges in joining miniature specimens using Nd-YAG Laser welding process
- ❖ Effect of Forging Pressure on Microstructure and Mechanical Properties of Rotary Friction Welded Low-Alloy Steel Tube Joints

**Break: 3:30 - 3:45 PM**

## **Session 9 Valedictory Session 4:05 PM**

———— End of Program ————