

Young Professionals' International Conference (YPIC-2025)

on the theme

"Transforming Welding Practices through Automation, Additive Manufacturing and AI"

Venue

NSUT, New Delhi

Date

September 05th & 06th, 2025

Organized By

The Indian Institute of Welding

In association with

Netaji Subhas University of Technology, New Delhi

Hosted by

The Indian Institute of Welding, Delhi Branch



The Indian Institute of Welding (IIW-India) is a premier professional body of welding fraternity, devoted to the promotion and advancement of welding science and technology. It was established on 22nd April 1966, with its registered office at Kolkata and the motto of IIW-India is 'Welding for Nation Building'. Presently IIW-India is having 14 branches and several Students' Chapters, spread all over India. It has more than 4500 members including around 150 industries as Industrial Corporate Member. The Institute publishes Indian Welding Journal, which has technical research papers of high standards and published quarterly along with a specific section of American Welding Society (AWS). IIW-India is the only responsible member society of the International Institute of Welding in India and has acquired the status of Authorised Nominated Body (ANB) to award internationally accredited professional Diplomas such as International Welding Engineer (IWE), International Welding Technologist (IWT) etc., and also acquired the status of Authorised Nominated Body for Company Certification (ANBCC) to certify Industries as per ISO 3834.

The Institute also conducts its own National Welding Training & Certification Scheme (NWTCS) and National Welding Inspectors' Certification Scheme (NWICS) through Authorised Training Institutes. It is also associated with educational institutes as knowledge partner and having cooperation with different industry. The Indian Institute of Welding (IIW-India) and Pandit Deendayal Energy University (PDEU) jointly initiated the IIW-India – PDEU Welding Research & Development Centre (IPWRDC). The Centre focuses on advanced welding research, supporting students and solving industry challenges. The Centre aims to strengthen industry-academia collaboration and advance welding technologies.

IIW-India Delhi Branch : At a Glance

The Indian Institute of Welding (IIW-India), Delhi Branch, established on 19th November 1976, is a key branch of IIW-India, dedicated to advancing welding science, technology, and engineering. It actively fosters knowledge-sharing, skill development, and innovation through workshops, seminars, and training programs. The branch is nurturing young talent and bridging the gap between academia and industry. IIW-India Delhi Branch provide a platform for budding engineers to engage in technical activities, research, and industrial exposure. The Delhi Branch continues to be a driving force in promoting welding excellence across industries and academia alike.

Young Professionals' International Conference (YPIC-2025)

The Young Professionals' International Conference (YPIC-2025) will be held on 05th & 06th September 2025 in accordance with the guidelines of the International Institute of Welding (IIW) at Netaji Subhas University of Technology, New Delhi (NSUT). It will offer a global platform for young innovators, researchers, and professionals under the age of 36 years as of 05th September 2025. YPIC-2025 is organized by IIW-India Delhi Branch, in association with NSUT, New Delhi. The knowledge partner of the event is Pandit Deendayal Energy University, Gandhi Nagar. This unique event is dedicated to empowering the next generation of welding leaders by providing them with the opportunity to share their ground breaking research, practical applications, and innovative ideas. YPIC-2025 will foster collaboration and knowledge-sharing among young experts while also connecting them with industry veterans and peers from around the world. The conference will feature technical paper presentations, interactive panel discussions, cutting edge product exhibitions and networking sessions designed to encourage engagement and mentorship. Papers, presented during the conference, will be peer reviewed and published in "Welding International" Journal from Taylor and Francis Group Publication. Participants will also have the opportunity to become active members of the IIW-India community, contributing to its mission of advancing welding excellence globally. With awards and recognition for exceptional contributions, YPIC-2025 is not just a conference but a movement to shape the future of welding.

RESEARCH DOMAINS

Domain	Prospective Area of Research
Emerging Welding Technologies	<ul style="list-style-type: none"> Advanced welding processes (Friction Stir Welding, Laser Welding, Electron Beam Welding, etc.). Hybrid welding processes (e.g., Laser-MIG hybrid welding).
Welding for Sustainable Development	<ul style="list-style-type: none"> Welding in renewable energy sectors (solar, wind, and nuclear industries). Green welding practices and energy-efficient techniques. Light-weight materials and their welding challenges (e.g., aluminum, magnesium alloys, composites).
Welding Automation and Robotics	<ul style="list-style-type: none"> Advances in robotic welding (MIG, CMT, Spot Welding, Laser Welding etc.). Role of AI and machine learning in welding automation. Welding simulation, offline programming, and virtual commissioning.
Materials Science and Metallurgy in Welding	<ul style="list-style-type: none"> Welding of advanced high-strength steels (AHSS), duplex stainless steels, and superalloys. Metallurgical challenges in joining dissimilar materials. Heat-affected zone (HAZ) characteristics and microstructural analysis.
Welding Quality and Inspection	<ul style="list-style-type: none"> Advanced non-destructive testing (NDT) techniques for weld quality. Welding defect analysis and mitigation strategies.
Welding for Special Applications	<ul style="list-style-type: none"> Welding in aerospace, defense, and automotive industries. Underwater welding technologies and challenges. Welding in extreme environments (e.g., high temperatures, cryogenic conditions).
Digitalization and Industry 4.0 in Welding	<ul style="list-style-type: none"> IoT-enabled welding systems and smart welding cells. Data-driven welding process optimization. Integration of welding with Industry 4.0 frameworks.
Additive Manufacturing Case	<ul style="list-style-type: none"> Developments in wire-based additive manufacturing (WAAM)/ Directed Energy Deposition (DED). Quality control and surface finishing challenges in additive processes. Industrial applications of additive manufacturing.
Studies and Industry Applications	<ul style="list-style-type: none"> Success stories of welding projects across industries. Practical challenges and solutions in industrial welding setups. Cost-effective welding practices and project management.

CALL FOR PAPERS


This prestigious platform is dedicated to fostering collaboration and knowledge-sharing among the brightest minds shaping the future of welding technology. We encourage authors to submit high-quality, original research papers, case studies, and technical presentations addressing advancements in welding processes, automation, material science, additive manufacturing, sustainability, and digitalization in welding. Contributions exploring emerging trends, practical solutions, and applications in diverse industries are highly welcomed. Selected good quality papers will be published in the special issue of **“Welding International”** a peer-reviewed journal. **“Welding International”** is abstracted and indexed in Citation Index (ESCI) as well as Scopus. This is a unique opportunity to share your insights, connect with peers, and gain recognition from experts in the welding community.



Welding International



ABSTRACT SUBMISSION GUIDELINES

Category	Details
Eligibility	The first author/presenter must be under 36 years of age as of 5 th September 2025.
Language	English
Abstract Word Limit	Maximum 300 words, with 3 to 6 keywords.
Formatting	Times New Roman, font size 12, single-line spacing, with margins of 25 mm on the left and 20 mm on all other sides, formatted for A4-sized paper.
Title and Author Information	Include the title, names of all authors, affiliations, complete postal addresses, and contact information (email and phone number) of the corresponding author below the title.
Abstract Content	Provide a summary of the research, including the objective, methodology, key findings, and conclusions, ensuring technical clarity and relevance.
Presentation Requirement	The first author or one of the co-authors must register and present the paper at the conference.
Review Criteria	Abstracts will be reviewed for originality, relevance, and quality.
Abstract Submission Link	https://tinyurl.com/Abstract-YPIC2025 



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YPIC-2025 REGISTRATION DETAILS

Category	Amount* (₹)
Student/ Research Scholar	5000/-
Faculty/ Research Scientist/Industry Participants	6500/-
International Participants	USD 125
Delegate (IIW-India Members)	5000/-
Delegate (Non-members)	6000/-

*Please add 18% GST extra before making the payments

#10% Early Bird Discount will be given under each category, if the registration will be done before 10th July 2025

YPIC-2025 Awards for Excellence

To recognize and celebrate the exceptional contributions of young professionals in welding technology and innovation, the YPIC-2025 Awards for Excellence will be presented to the three best papers at the conference. These awards aim to encourage creativity, foster research, and promote practical advancements in welding science and engineering.

The awards are categorized as follows :

Category	Amount (₹)
YPIC-2025 Gold Award for Research Excellence	21000/-
YPIC-2025 Silver Award for Innovative Contribution	11000/-
YPIC-2025 Bronze Award for Emerging Talent	5100/-

The selection process will be conducted by an expert panel of industry leaders and academicians. The winning papers will demonstrate ground-breaking innovation, technical rigor, and real-world applicability. Don't miss this opportunity to showcase your talent and gain national recognition for your contributions to the field. Make your mark at the forefront of welding technology with the prestigious YPIC Awards!

MILESTONE DATES



Registration for Delegates	:	01 st March 2025 onwards
Abstract Submission Deadline	:	20 th June 2025
Notification of Acceptance	:	30 th June 2025
Early Bird Deadline	:	10 th July 2025
Authors' Registration Deadline	:	25 th August 2025
Full-Length Paper Submission Deadline	:	20 th September 2025
Conference Dates	:	05 th - 06 th September 2025

SOUVENIR

A technical souvenir will be published in the printed form to mark the occasion. Souvenir will contain abstract of all the papers, other relevant information about YPIC-2025, city, organizers and advertisements. It will be an excellent reference material. Rates for advertisements are as follows :



Category	Amount* (₹)
Front Fold (Color)	75,000/-
Back Cover (Color)	75,000/-
Center Spread (Color)	75,000/-
Inside Front (Color)	45,000/-
Inside Back (Color)	45,000/-
Full Page (Color)	20,000/-

*Please add 5% GST extra before making the payments

SPONSORSHIP OPPORTUNITIES

The organizers request kind patronage from various related Industries for the successful conduct of the seminar through sponsorships under following categories, which will be duly acknowledged

Category	Amount* (₹)
Diamond Sponsor	7,50,000/-
Platinum Sponsor	4,50,000/-
Gold Sponsor	3,00,000/-
Silver Sponsor	1,50,000/-
Bronze Sponsor	75,000/-

*Please add 18% GST extra before making the payments

- A banner will be displayed for the Diamond, Platinum, Gold, Silver and Bronze sponsors. Diamond, Platinum, Gold, Silver and Bronze sponsors will be entitled to send nine, seven, five, three and two delegates respectively.
- Companies can also display advertisement banners on self-supporting stands, inside the seminar hall of maximum size 3' x 8' @ Rs. 25,000/- (Please add 18% GST Extra before making the payment).
- Companies can also put insertions (information brochures, pamphlets, product catalogues etc.) inside the bags to be given to all the delegates @ Rs. 25,000/- (Please add 5% GST Extra before making the payment).
- Sponsorships are also invited for bags, folders, writing pens, pads, etc. Please contact the convener for details.
- Material for advertisement to be sent to iiv.delhi@iiwindia.com.



EXPLORE NSUT, NEW DELHI

Netaji Subhas University of Technology (NSUT), formerly known as Netaji Subhas Institute of Technology (NSIT), is a premier autonomous institution under the Government of NCT of Delhi, located in Sector-3, Dwarka, New Delhi. Established in 1983, NSUT has a legacy of producing highly skilled professionals who contribute significantly to industry, academia, and research. NSUT fosters innovation and entrepreneurship through its dedicated incubation center and actively engages in collaborations with reputed industries and international universities. Its highly qualified faculty, coupled with a strong alumni network, provides an ideal environment for holistic development. The university is committed to nurturing future leaders and innovators, making it a sought-after destination for aspiring engineers and technologists.

DISCOVER DELHI: THE VENUE FOR YPIC-2025

Delhi, the heart of India, is a vibrant blend of history and modernity, making it the perfect venue for YPIC-2025. As the capital city, Delhi boasts a rich cultural heritage, with iconic landmarks like the Red Fort, Qutub Minar, and India Gate standing as testaments to its glorious past. Old Delhi's bustling streets and monuments echo tales of Mughal grandeur, while the tranquil beauty of Humayun's Tomb and Lotus Temple captivate visitors.

Modern Delhi-NCR, including Gurgaon and Noida, is a hub of technology, innovation, and infrastructure. Known for its state-of-the-art metro system, glittering skyscrapers, and world-class malls, it showcases India's rapid development. With top-notch facilities, a thriving IT and industrial sector, and a rich historical backdrop, Delhi offers an inspiring and dynamic environment for the conference. Come explore this city where tradition meets innovation, setting the stage for groundbreaking ideas and collaborations.

PAYMENT INFORMATION

The payments should be made in form of a Cheque or Demand Draft, drawn in favor of "The Indian Institute of Welding, Delhi Branch" payable at Delhi and may be sent to: Mr. Rajeev Khanna (Treasurer), FA38, 4th Floor, Shivaji Enclave, Near Shivaji College, Rajouri Garden, New Delhi - 110027, Mob. : 9811351743

Online Bank transfer/NEFT can also be possible in the IIW-Delhi Branch bank account:

Name : The Indian Institute of Welding
A/c No. : 702377287
IFSC Code : IDIB000W006
Branch : Indian Bank, West Patel Nagar, New Delhi-110008



CONTACT INFORMATION

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YPIC-2025

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