

INDIAN

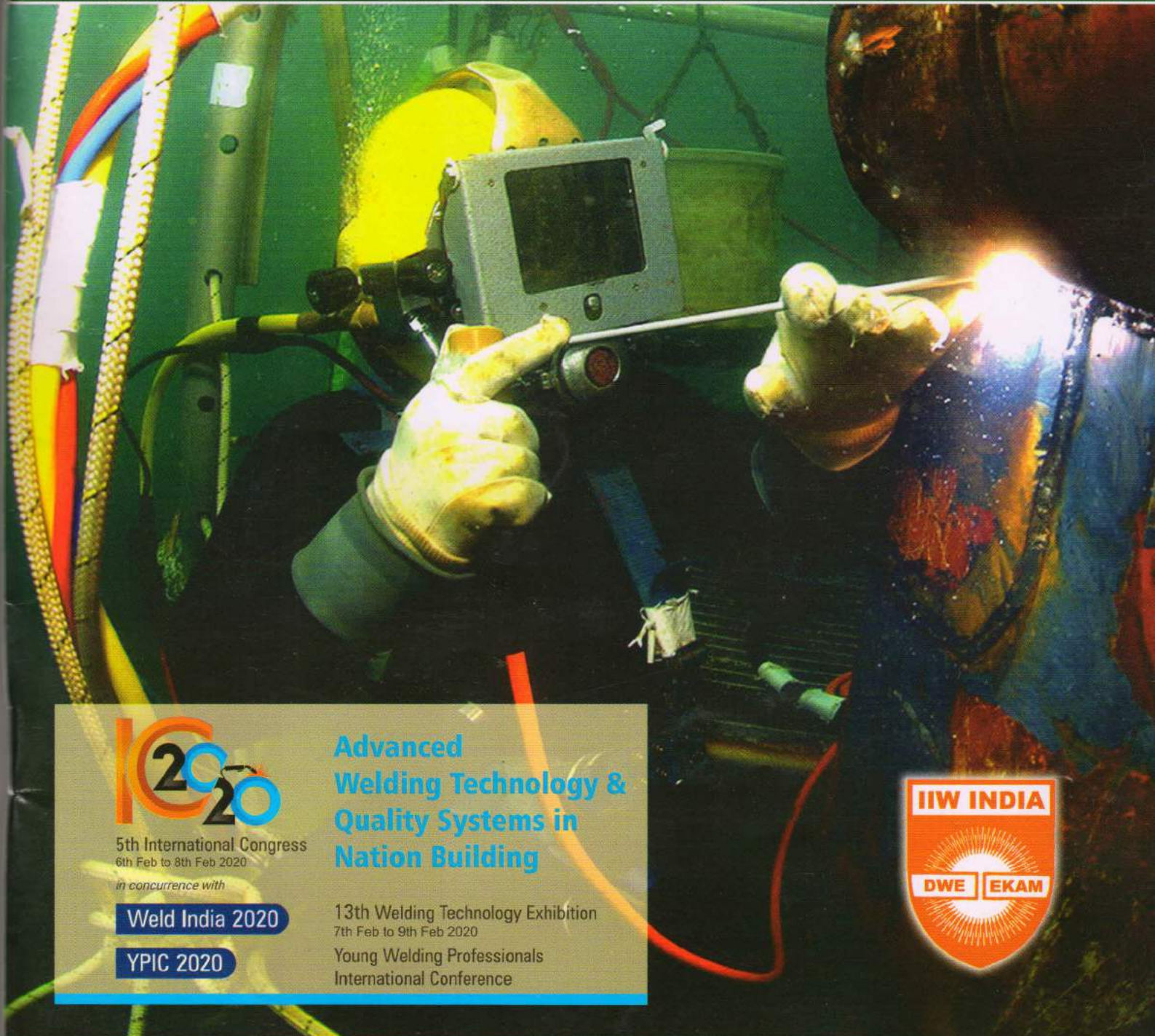
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# WELDING

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JOURNAL

THE OFFICIAL JOURNAL OF THE INDIAN INSTITUTE OF WELDING



5th International Congress  
6th Feb to 8th Feb 2020

*in concurrence with*

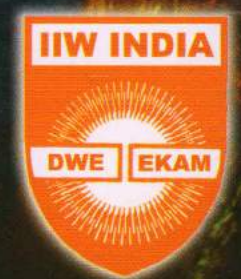
Weld India 2020

YPIC 2020

Advanced  
Welding Technology &  
Quality Systems in  
Nation Building

13th Welding Technology Exhibition  
7th Feb to 9th Feb 2020

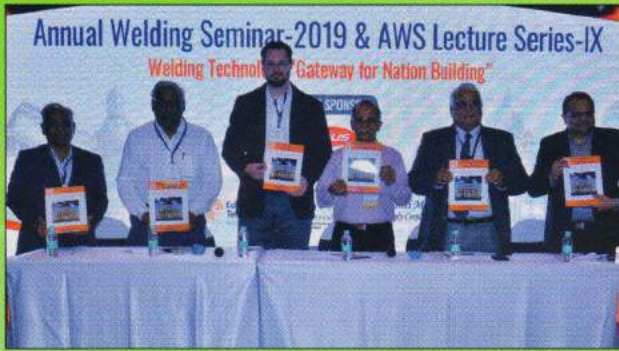
Young Welding Professionals  
International Conference



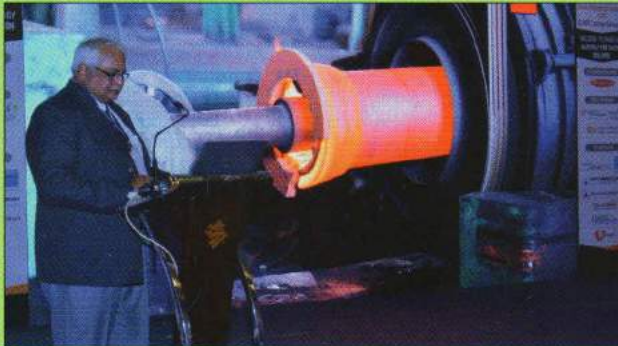
PUBLISHED IN TECHNICAL ASSOCIATION WITH THE AMERICAN WELDING SOCIETY



## MUMBAI BRANCH



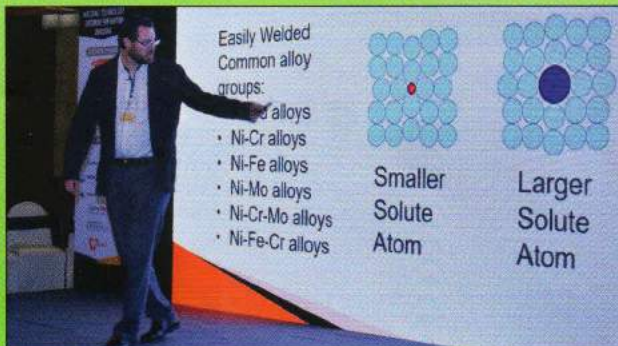
Release of Souvenir



Mr. Deshpande delivering Mr. G.L. Goswami Memorial Lecture



Chief Guest Mr. Kumar delivering address



Mr. Gaal delivering the AWS lecture

## HYDERABAD BRANCH



IITW Hyd - Industry visit organised



IITW Hyd - With Expert speaker KV Phani Parbhakar



IITW Hyd - Valedictory function

## DELHI BRANCH



AWS Lecture Series IX on 6th February 2019 at ISGEC, Yamuna Nagar



## BRANCH ACTIVITIES

### CHENNAI BRANCH

**IIW-India-AWS Lecture Series IX** on **"Welding of Ni/Ni alloys and FCAW/ Metal core wires"** delivered by Mr. Brian Gaal, USA, Technical Director, Arcos Industries LLC was held at New Academic Complex, MME Dept., IIT Madras on 11th February, 2019. Around 45 delegates including students from IIT-M participated in the lecture. The Welcome Address was given by Shri T. V. Prabhu, Chairman, IIW-India, Chennai. The dais was occupied by Chief guest Prof. Dr G. D. Janaki Ram, MME Dept. of IIT-M, overseas speaker Mr. Brian Gaal, Dr. Shaju K Albert of IGCAR, Shri R. Srinivasan, Chairman, IIW-India Foundation. A memento was presented to Mr. Brian Gaal. Vote of Thanks was delivered by Shri Utpal Borah, Secretary, IIW-India Chennai branch.

Mr. Gaal, covered extensively on welding of Ni & Ni alloys, Properties of nickel alloys, Cladding, nickel alloy filler metals, welding metallurgy & Weldability of Ni alloys, minimizing weld defects, etc. He also spoke on grouping of FCAW/ metal core wires, Metal core vs. flux core, Self-Shielding vs. Dual Shield FCAW, FCAW Voltage Type – Welding Polarity – Power Supply, etc.

The event was supported by M/s. MIDHANI, M/s. Shanti Metal Corporation, Mumbai and M/s. Weldwell Speciality, Mumbai who made presentations about their organization and product. IGCAR Kalpakkam and IIT Madras are thanked for their support in organizing the AWS Lecture successfully.

### DELHI BRANCH

IIW-India Delhi Branch organized **AWS Lecture Series IX** on 6th February 2019 at ISGEC, Yamuna Nagar. The event started with a brief visit to Welding Technology Cell of the plant followed by meeting with senior ISGEC Members. Mr. Brian Gaal delivered lecture on **"Joining and Surfacing with Ni and Ni Alloys"** in the presence of 40 engineers of ISGEC. The session was very interactive and fruitful for the delegates.

A two phase training of SMAW Welders at TPR Autoparts Manufacturing Pvt. Ltd., Neemrana was conducted on 21st January, 2019 & 20th February, 2019. The aim of this training was to make the welders efficient in SMAW welding to improve the weld quality during the production.

### HYDERABAD BRANCH

IIW-India Hyderabad Branch collaborated with MVSR Engineering College, Hyderabad in organizing **"Weld ED"** – Welding Theory and Practice with Hands-On, a 30-hour Workshop cum Skill Development programme.

Department of Mechanical Engineering, M.V.S.R Engineering College, affiliated to Osmania University, Hyderabad organized the event for students and technicians of the college on 19.01.2019- 09.02.2019 after college hours, i.e., 4.15 pm to 6.15 pm. Classes were conducted for 42 enrolled students and two lab technicians, being divided into two batches for conducting theory sessions and practice sessions. Dr. J. Kandasamy, Professor and Head, Coordinator of the programme, delivered lectures on basics of welding, weld classification, arc theory, various welding processes and weld defects. Mr. G. Prakasham, Assistant Professor, MED, Co-ordinator, covered the topics on Cold Metal Transfer, Residual stresses and design considerations for weldments. Students in laboratory sessions are trained with exercises on SMAW, Gas welding, TIG, MIG and Resistance Spot welding by co-ordinators along with Mr. N.S.V. Krishna, Certified Welder and Tech-III of the department.

Prof. D. Venu Madhava Chary, Professor and Head of EEE, ignited the minds on **"Welding Transformers"**, the way current is controlled inside transformers to make good welds outside. Mr. K.V. Phani Prabhakar, Scientist 'E', ARCI, Hyderabad shared his experience on Laser Welding and Processing. Dr. M. Madhavi, Professor, MED. enlightened the students with Arc characteristics in a unique approach. Mr. Ponguru Senthil, Scientist "D" DMRL, Hyderabad has shown insight to the advanced welding processes, like Friction Welding and Friction Stir Welding and material failures. A one day industrial visit was arranged for the participants to Rupa Industries, Jeedimetla, Hyderabad manufacturers of MIG wires, SAW flux and stick electrodes. Before concluding the workshop, a skill test and slip test is conducted to find the expected outcome levels of the course.

Dr. P. Venkata Ramana, Honorable Secretary, Indian Institute of Welding, Hyderabad Branch, attended the valedictory function and delivered a lecture on **"Welding as Career"** and motivated students to take up welding as career. Prof. S. G. S.



Murthy, Vice Principal distributed certificates to the participants in the valedictory function.

### KOLKATA BRANCH

During this period, the following activities were done by the IIW-India Kolkata Branch:

**Managing Committee Meeting:** Two Managing Committee Meetings of Kolkata Branch were held during this period. Also, four Organising Committee Meetings for the Annual Branch Seminar were held.

**Annual Branch Seminar Weld 2019:** Annual Welding Seminar of The Indian Institute of Welding, Kolkata Branch "WELD 2019" was held on 23rd February 2019, at the hotel, The Stadel, Salt Lake Stadium, Kolkata. The theme of the seminar was "Advances in Welding, Automation & Robotics for Cost Effective Manufacturing". The Chief Guest for the event was Shri A.K. Bharti, Director (I&L), RDSO-Kolkata. Kolkata Branch felt honoured by felicitating Shri Parimal Biswas for his outstanding and relentless contribution to the institute. This year, Engineer Soumitra Kumar De Memorial Lecture was delivered by Prof. (Dr.) Santanu Das, Head, Department of Mechanical Engineering, Kalyani Government Engineering College, Kalyani.

The Role of IIW-India was described by Shri Pabitra Kumar Das, Past President, IIW-India. Other papers were selected from Welding Equipment Manufacturers, Organisations related to Welding Automation and from Educational Institutes. The Speakers were Shaikh Qamar Ali of Kaiyuan WCA India, Shri Amlan Saha of Fronius India, Shri Suman Ghosh of Kempfi India, Shri Indivar Jai Kishan of Tata Hitachi, Dr. Mayuri Baruah of NIT Jamshedpur, Shri Tushar Kanti Bhattacharya of C.V. Raman College of Engineering and Shri Devasis Paul of Nextgen Plasma.

The Voice of the Seminar was of course the requirement of revolution in automation in eastern India, which is definitely possible by the active support of welding fraternities.

**National Welding League of Women Students (NWL-2019):** A Two-Day National Welding League was organised by C.V. Raman College of Engineering in association with IIW-India, where Kolkata Branch was also actively associated. Around 100 Women students from Engineering Colleges, IITs, ITIs and Skill Institutes participated in objective type test, practical tests on MMAW and GMAW processes on

7th March 2019. On 8th March, International Women's Day, a welding quiz was conducted by Shri Rituraj Bose and later there was prize distribution. Shri Parimal Biswas and Smt. Renu Gupta were the Guests of Honour from IIW-India. It was a huge and successful event of this nature. Thanks to the management of C.V. Raman College of Engineering.

**Workshop on WPS, PQR & WPQ:** A Workshop on Preparation of WPS, PQR & WPQ as per ISO and other Standards was organised on 23rd March 2019, where Shri Rituraj Bose was the Course Coordinator.

**Interaction with the Students of IEM Kolkata:** An interaction with the students of Institute of Engineering & Management, Kolkata was done on 1st of March 2019, where Shri P.K. Das, Shri Devasis Paul and Shri Rituraj Bose was present on behalf of IIW-India Kolkata Branch. The Role of IIW-India and the Career Opportunities as Welding Engineer was explained to the students. Also, preliminary discussion was done to form a Students' Chapter there.

**Workshop on Advanced Welding Technology:** A Workshop on Advanced Welding Technology was organised by University of Engineering & Management, Kolkata, in association with IIW-India Kolkata Branch. The lecture on Career opportunities for Engineers in Welding and Role of The Indian Institute of Welding was delivered by Shri P.K. Das and Recent trend and development in Arc Welding Equipment was delivered by Shri Devasis Paul. Other speakers were from IIT Kharagpur and Jadavpur University.

### MUMBAI BRANCH

IIW-India Mumbai Branch conducted "Annual Welding Seminar 2019 and American Welding Society Lecture Series IX", on 15th February 2019 at Kohinoor Continental Mumbai with the theme, "Welding Technology- Gateway for Nation Building". On this occasion, Mr. M.V. K. Kumar, Sr. Vice President- Head Inspection, RIL Project Procurement was the Chief Guest and Mr. Brian Gaal, Technical Director, ARCOS Industries, LLC, USA as Guest of Honour. Mr. Kamal Shah introduced the Chief Guest, Mr. M.V.K. Kumar, and then Mr. Kumar addressed the gathering. Thereafter, the souvenir was released.

Mr. A.A. Deshpande, Director Filwel Products India Pvt. Ltd., Mumbai delivered Mr. G.L. Goswami Memorial Lecture on "Weld Overlay Restoration of Forged Pipe Moulds" Mr. A.A. Deshpande was felicitated with a scroll.