

## 51 years down the memory lane

### THE BIRTH

Rebuilding of Indian Industry was visioned soon after independence and for this, five year plans were launched, in which infrastructure development and industrial growth with self dependence were given the utmost priority. Core industries, such as, coal, steel, railways, capital equipment, oil, fertilizer, cement, petrochemical, nuclear power, defense equipment and supporting ancillary industries were targeted for achieving growth at a farst pace. Technology change was one of the major thrusts provided by the Government of India. As a result, Welding Technology was being developed and used effectively replacing the old methods of Metal Joining Processes.

In pursuance of exploiting Welding Technology, the need for equipment, consumables and professionals arose and even there were no professional bodies in Engineering and Technology to co-ordinate, advocate and foster such growth potential. Driven by this need to form a professional Institute of Welding, members of the erstwhile Indian Chapter of the Welding Institute, London took the initiative and met on 5th May 1960 under the Chairmanship of Late Sir L. P. Misra, the then General Manager of Hindustan Motors Ltd. at the Head office of the Indian Oxygen Ltd, 48/1, Diamond Harbour Road, Calcutta, and decided to form a professional body of Welding engineers to promote the concept and practice of Science and Technology of Welding and its allied subjects.

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The following Founder Members attended the meeting, and established the Institution.

Shri D. S. Desai	M/s. M. N. Dastur & Co. Pvt. Ltd, Calcutta
Shri M. N. Dastur	M/s. M. N. Dastur & Co. Pvt. Ltd, Calcutta
Shri P. K. Mallik	M/s. Burn & Co. Ltd., Howrah
Shri S. Basu	Consulting Naval Architect, Calcutta
Shri A. K. Sen	Indian Oxygen Ltd, Calcutta
Shri J. A. Muliylil	Indian Oxygen Ltd, Calcutta
Shri V. R. Subramanian	Indian Oxygen Ltd, Calcutta
Shri R. Ghosh	Indian Oxygen Ltd, Calcutta
Shri K. Hartley	South Eastern Railway, Calcutta
Shri S. S. Mukherji	Braithwaite & Co., Calcutta
Shri S. K. Pathak	Braithwaite & Co., Calcutta
Shri V. Venkatesan	D. G. S. & Inspection Wing, Calcutta
Shri B. N. Bhattacharya	D. G. S.& D, Calcutta
Shri B. N. Mazumdar	Bridge & Roof (India), Calcutta
Shri B. N. Banerjee	

Subsequently, the Indian Institute of Welding was incorporated and registered on the 22nd April, 1966 in Calcutta with the following office bearers :-

President	:	Sri S. K. Datta
Vice Presidents	:	Sri D. S. Desai
	:	Sri S. S. Mukherji
	:	Sri S. Basu
Hony. Secretary	:	Sri V. Venkatesan
Hony. Treasurer	:	Sri K. Hartley
Chairman, General Purposes Committee	:	Sri S. K. Pathak
Members	:	Sri P. K. Mallik
	:	Sri B. N. Bhattacharya

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## HEAD OFFICE AND BRANCHES

The Institute's registered office and head office is located at Kolkata. The Institute has 11 branches located all over India viz. Bangalore, Baroda, Bhilai, Chennai, Cochin, Delhi, Jamshedpur, Kolkata, Mumbai, Triruchirapalli and Visakhapatnam and a Chapter at Bhubaneswar.

## MEMBERSHIP

The individual membership is provided in various categories viz. Member, Life Member, Life Associate Member, Life Associate Professional Member, Associate Professional Member Life Associate, Associate, Fellow and Industrial Corporate Member based on qualification, professional experience and period of association with IIW -India. The Institute has provision to incorporate industries as Industrial corporate Members. At present Institute has around 4000 individual members and around 200 Industrial Corporate Members.

## MISSION

The Institute has adopted a Mission to become the premier professional institute in India for the advancement of Welding Science and Technology and to promote Education and Qualification in welding in India in line with International Standards which will be globally recognized and accepted. The goal is to assist in making Indian industry locally and globally competitive in welding related activities.

## MAJOR OBJECTIVES

- To promote the advancement of science and technology of welding and its allied subjects
- Assist Human Resource Development in Welding
- Facilitate Technology diffusion to Industry and the individual
- Foster R& D in welding
- Promote Health and Safety concerns in welding.

## ACTIVITIES

The Indian Institute of welding through its Head office at Kolkata and the eleven branches at different parts of India has been carrying out activities as specified in the objective of the Institute.

1. Seminars, workshops, conferences, technical talks, short terms courses, exhibitions are organised regularly both by Headquarter and Branches. Some of such events are conducted at sites / premises of industrial organizations. IIW - India is now organizing International Conferences ( IC) and International Exhibitions at regular intervals.
2. National Welding Seminar (NWS) is held every year by different Branches which provides a common platform for exchanging practical problem solving experiences and a forum for understanding the technological development and its direction. Various awards under different categories are given to the authors for high quality technical papers and presentations put up in these seminars. Prior to NWS, a technical course called Pre Conference Tutorial (PCT) is generally organized by the respective Branch for last couple of years in the same venue for the benefit of assembled delegates and other interested individuals. The Institute also conducts "Best Welding Engineer and Best Welder competition" during NWS .
3. The Indian Welding Journal (IWJ), the official technical journal of the Institute is published quarterly with articles on welding and allied technologies since 1967. Apart from transferring knowledge, IWJ is widely used by welding industry for promoting their product and services through advertisements. The journal is being published in technical association with American Welding Society since 2007. The Institute also publishes other technical documents like monographs.

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4. The Institute conducts Associate Membership (AMIIW) Examinations at different centres all over India based on its own course designed to meet the need of industry for qualified personnel. The examination is recognized to be equivalent to engineering degree by the Ministry of HRD of the Government of India.
  5. The Indian Institute of Welding in its capacity as a Member Society of the International Institute of Welding has now been authorized by them as the only Authorised National Body (ANB) in India to appoint Authorised Training Body (ATB) to provide training of Welders, Technicians and Engineers to Internationally accepted standards and certifying successful professionals. Qualifications like IWE/IWS/IWT/IWP/IWIP can be obtained through different courses run by IIW-India.
  6. IIW - India is organizing AWS Lecture Series programme in different parts of the country for the last 4 years. Under this scheme a distinguished expert of American Welding Society visits India once in a year and shares his knowledge with Indian welding fraternity.
  7. The Indian Institute of Welding provides consultancy services to the industry in the areas of Technology upgradation and improvement.
  8. The Indian Institute of Welding provides a comprehensive library service to its members.
  9. The Institute is in constant touch with various Engineering and Technical Institutes in India for promoting academic studies in welding. The Institute is giving awards for best PhD thesis and best M.Tech thesis in welding every year for the work done in these institutes. The awards are presented during NWS.
  10. The Institute operates an informative website [www.iiwindia.com](http://www.iiwindia.com) which provides updated information on welding technology and programmes and activities of IIW India and International Institute of Welding.

#### **ORGANISATION**

The Memorandum and Articles of Association of the Indian Institute Welding specify in details the organization and functioning of the Institute and Branches.

The Institute is governed by a Council that is elected annually in the general body meeting of all members. The Council is the representative of all Branches and all classes of members including Industrial Corporate Members. The Council is headed by the President assisted by four Vice Presidents, Hony. Secretary General, Hony. Treasurer and Chairpersons of various functional committees as described below.

#### **INTERNATIONAL COMMITTEE**

To advise and act for the Council and responsible for liaison with similar Institution outside India and to encourage interaction. Indian Institute of Welding is having reciprocal arrangement under MOU with AWS-USA, TWI-UK, SWS-Singapore, Romania. These bilateral relations are on the increase. The Committee maintains a close contact and co-ordination with the International Institute of Welding.

#### **TECHNICAL COMMITTEE**

To advise and to act for the Council in matters directly or indirectly relating to welding science and technology and other allied matters. It is responsible for formation and monitoring of activities of various Technical Commissions, assist the General Purposes Committee in publication of technical articles and nomination of IIW award winners.

#### **GENERAL PURPOSES COMMITTEE**

To advise and act for the Council in matters relating to the Membership, Meetings & Publication, Library Information & the Website of the Institute and promote education in welding. It functions through three sub-committee on Membership, Meetings & Publications and Information Technology.

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#### **WELDING EDUCATION COMMITTEE**

To advise and act for the Council in matters relating to fixing of curriculum of AM-IIW Examination in line with industry Indian and International Standard, administer and conduct AM-IIW Examination with full independence and finally put up recommendation to the Council on the basis of its evaluation.

#### **FINANCE COMMITTEE**

To advise and act for the Council and is responsible for supervising financial matters including budgeting, accounting, collection of funds, monitoring expenses and meeting Statutory and audit requirement.

#### **ANB INDIA COMMITTEE**

To advise and act for the council and is responsible for supervising the various functions and activities of ANB - India as per the guideline of ANB-India Council and International Institute of Welding.

#### **NWTCS COMMITTEE**

In December 2008, National Welders Training and Certification Scheme (NWTCS) programme has been launched to meet the long standing demand from Indian Industry for competent and certified welders at the National level.

#### **MES COMMITTEE**

IIW-India became empanelled as assessing body under DGE&T MES/SDI scheme for the fabrication sector courses under the MES SDI scheme in all states and union territories within India.

AGREEMENT WITH AWS FOR COLLABORATIVE PUBLICATION OF IWJ : An agreement was signed with the American Welding Society for collaboration in publication of the Journal effective from April -2007 issue. Indian Welding Journal publishes an "AWS Section" for which matters are being provided by AWS.

#### **IIW FOUNDATION**

To foster research and development activities in Welding and related areas, IIW-India Foundation was formed at Mumbai on 22nd December, 2010 to raise, administer and spend funds to support students and research scholars who are pursuing higher studies in Welding.

#### **LANDMARKS**

The major events in the annuals of the Indian Institute of Welding are worth recording at this stage and mentioned below :

- The first welding Seminar was held at Calcutta on 28th and 29th April, 1967.
- The first delegation from IIW-India to attend the Annual Assembly of the International Institute of Welding held in Japan from 12th to 16th July 1969 was three member team led by Late Mr. K. Hartley, the then President of the Institute. Other members were Late Mr. I. T. Mirchandani of M/s. Advani Oerlikon Ltd., Mumbai and Mr. J. K. Ahluwalia of M/s. Stewarts & Lloyds of India Ltd, Calcutta.
- The Indian Institute of Welding joined the International Institute of Welding in 1970 as the only member from this sub-continent. Mr. I. T. Mirchandani of M/s. Advani Oerlikon Ltd., Bombay was elected as a Vice President of the International

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Institute of Welding from 1977 to 1980.

- The first Afro-Asian Conference on Welding and Metals Technology was arranged at the Vigyan Bhawan, New Delhi from 8th to 10th February, 1978 by the Indian Institute of Welding in association with the Indian Institute of Metals and the Association of Indian Engineering Industry.
- Mr. S. V. Nadkarni of M/s. Advani Oerlikon Ltd., Bombay was nominated as the Chairman of the newly constituted "Working Groups for Liaison with the Developing Countries" during the Governing Council Meeting of the International Institute of Welding held at Yugoslavia.
- On the invitation of the Japan Welding Society, an 18 member team of the Institution visited Japan for 3 weeks from 17th September to 6th October, 1983.
- The Indian Institute of Welding shifted its office to its new premises at 3A, Dr. U. N. Brahmachari Street, Kolkata - 700 017 on 1st January, 1984.
- The International Welding Conference organized by the Tiruchirapalli Branch jointly with Welding Research Institute and Bharat Heavy Electricals Ltd. was held at New Delhi from 12th to 14th January, 1987.
- The Indian Welding Journal of IIW-India got the International Documentation recognition, the index No. being IISN 0046-9092 by which the articles published in this journal are now indexed internationally.
- Welding Research Laboratory, Roorkee along with the Indian Institute of Welding organized an international Welding Conference at the University of Roorkee in October 1988.
- The Institute started the Associate Membership Examination from January 1988 which is held twice a year in June and December at different centres. On 18th November 2000 the AM-IIW Examination got approval from the Ministry of Human Resource Development of the Government of India through Gazette Notification as equivalent to Engineering Degree recognition. To attract more candidates for the AM-IIW Examinations the Institute has recently taken number of initiatives by way of amending the entry requirements to enable pre-final year and final year engineering student and final year diploma students to apply.
- The Silver Jubilee Celebration of the IIW-India started in Mumbai during November, 1990 and completed in Calcutta in April 1991.
- The International Welding Conference (IWC-99) was held in the India Habitat Centre, Lodi Road, New Delhi between 15-17th February, 1999 followed by Exhibition at Pragati Maidan, New Delhi.
- The 2nd International Welding Conference, IWC-2001 was held on 15-17th February, 2001 at the India Habitat Centre, New Delhi. The conference was organized by the Indian Institute of Welding and was supported by Confederation of Engineering Industry (CII). Along with the conference an exhibition was also held at Pragati Maidan, New Delhi.
- The first International Welding Congress (IC-2005) of the International Institute of Welding was held during 16-19th February, 2005 at Nehru Centre, Mumbai.
- The IIW-India Mission and vision plan was finalized during IC-2005 at Mumbai.
- An agreement was signed with the American Welding Society during NWS-2006 at Chennai, for collaboration in publication of the Indian Welding Journal effective from April -2007 issue.
- The ANB-India got accreditation from International Institute of Welding on 3rd July, 2007 and was authorized to award the Diplomas for International Welding Co-ordination Personnel, viz. IWE, IWS, IWT and IWP and also the International Welder Diploma (IW).
- The second International Welding Congress (IC-2008) of the International Institute of Welding was held during 8-10th January, 2008 at Chennai Trade Centre, Chennai.

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- National Welders' Training and Certification Scheme (NWTCS) was launched during NWS 2008-09 at Mumbai in December 2008, to meet the ever growing demand for competent and certified welders at the National level of Indian Industry.
  - To improve the identity of our Institute and for better interaction with our members , five Technical Monographs including Members Resource Directory was published during NWS 2008-09 at Mumbai - sponsored by Mumbai Branch of IIW India.
  - During IC 2008 at Chennai in January 2009, the first 13 candidates were awarded the International Diploma through transition route. In January 2009, the first ATB was given approval.
  - IIW-India got empanelled as an assessing body under DGE&T - MES/SDI (Modular Employment Scheme-Scheme Development Initiative) scheme for the fabrication sector courses in all states and union territories within India, on 9th June, 2009.
  - A Five Year strategic plan for the Institute based on the recommendations of the Technology Innovation Workshop organized in January 2008 at Chennai was adopted defining the roadmap of IIW India's action plan to promote the economic and scientific growth of welding technology in India.
  - IIW India Foundation was formed in 22nd December, 2010 to generate, administer and spend funds to promote research and education in welding technology and allied subjects.
  - ANB-India was authorized to award the International Welding Inspection Personnel (IWIP) diploma through the transition route with effect from January 2010.
  - IIW-India Centre for Welding Education was opened at 8/19, Fern Road, Gariahat ,Kolkata on 20th March, 2011.
  - IIW India Council in its meeting held in Chennai on 9th April 2011 decided to apply for ANBCC and formed a core committee for the same.

#### **INTERNATIONAL EXHIBITION**

- The first International Welding Technology Exhibition (WELD INDIA-2005) was held in February-2005 at Nehru Centre, Mumbai during IC-2005.
- The second International Welding Technology Exhibition (WELD INDIA-2006) was held in November-2006 during NWS-2006 at Chennai Trade Centre, Chennai.
- The third International Welding Technology Exhibition(WELD INDIA-2008) was held in January-2008 during IC-2008 at Chennai Trade Centre , Chennai.
- The fourth International Welding Technology Exhibition (WELD INDIA-2009) was held in February-2009 during NWS 2008-09 at Bombay Exhibition Centre, Mumbai
- The fifth International Welding Technology Exhibition (WELD INDIA-2009-10) was held in December-2009 during NWS-2009-10 at Netaji Indoor Stadium, Kolkata.

#### **LOOKING AHEAD**

In its life span of about 51 years since its inception to this day, the Indian Institute of Welding (IIW-India) has emerged as the only professional body of the welding fraternity in India, acknowledged by International Welding Societies and Institutions. It has an increasingly important role to play in days to come in promoting the growing need of the welding industry to continuously upgrade technology and develop human resources to meet the challenges of global competition.

**List of all our Past Presidents and secretaries including present incumbents**

Year	President	Secretary
1966-67	S. K. DATTA	S. BASU
1967-68	K. HARTLEY	B. C. BHAR
1968-69	K. HARTLEY	B. C. BHAR
1969-70	K. HARTLEY	B. C. BHAR
1970-71	W. BURT	V. P. KHATRI
1971-72	W. BURT	B. KUMAR
1972-73	W. BURT	B. KUMAR
1973-74	R. J. SHAHANEY	B. KUMAR
1974-75	I. T. MIRCHANDANI	B. KUMAR
1975-76	I. T. MIRCHANDANI	L. M. PASRICHA
1976-77	L. M. PASRICHA	S. MALLIK
1977-78	L. M. PASRICHA	N. MUKERJEA
1978-79	J. A. MULIYIL	N. MUKERJEA
1979-80	J. A. MULIYIL	N. MUKERJEA
1980-81	P. N. ARUMUGHAM	N. MUKERJEA
1981-82	P. N. ARUMUGHAM	N. MUKERJEA
1982-83	S. V. NADKARNI	N. MUKERJEA
1983-84	S. V. NADKARNI	N. MUKERJEA
1984-85	S. V. SAMBAMURTI	N. MUKERJEA
1985-86	S. V. SAMBAMURTI	N. MUKERJEA
1986-87	P. S. VISVANATH	N. MOORTHY
1987-88	P. S. VISVANATH	R. BANERJEE
1988-89	P. S. VISVANATH	R. BANERJEE
1989-90	A. K. BASU	R. BANERJEE
1989-90	A. K. BASU	A. MUKHERJEE
1990-91	V. G. JAGANNATH	A. MUKHERJEE
1991-92	V. G. JAGANNATH	K. K. TANDON
1992-93	P. RODRIGUEZ	K. K. TANDON
1993-94	P. RODRIGUEZ	K. K. TANDON
1994-95	J. K. NANDA	K. K. TANDON
1995-96	J. K. NANDA	K. K. TANDON
1996-97	S. K. BURMAN	A. K. MUKHERJEE
1997-98	S. K. BURMAN	A. K. MUKHERJEE
1998-99	M. K. MITTAL	J. C. SHAHANI
1999-2000	M. K. MITTAL	A. K. MUKHERJEE
2000-01	BALDEV RAJ	A. K. MUKHERJEE
2001-02	K. M. PANTHAKI	PARIMAL BISWAS
2002-03	K. M. PANTHAKI	PARIMAL BISWAS
2003-04	K. M. PANTHAKI	PARIMAL BISWAS
2004-05	A. K. MUKHERJEE	PARIMAL BISWAS
2005-06	A. K. MUKHERJEE	PARIMAL BISWAS
2006-07	A. K. MUKHERJEE	PARIMAL BISWAS
2007-08	A. K. MUKHERJEE	PARIMAL BISWAS
2008-09	C. C. GIROTRA	PARIMAL BISWAS
2009-10	R. RAVI	PARIMAL BISWAS
2010-11	R. RAVI	PARIMAL BISWAS

## IIW INDIA WELDING AWARDS

<b>Honouring Significant Contributions to Welding and Joining Technology</b> (Awarded every year in the National Welding Seminar)	
<b>LIFETIME ACHIEVEMENT AWARD</b>	This award instituted in 2002, is given annually at the inaugural Ceremony of the National Welding Seminars / International Congress / Conference to individuals who have rendered dedicated and outstanding service to the Indian Institute of Welding over a sustained period. Recipients are individuals who apart from being distinguished professionals in the field of welding, have contributed to IIW-India activities to enable the institute to significantly advance its objectives.
<b>SIR L.P.MISRA MEMORIAL LECTURE AND KIETH HARTLEY MEMORIAL LECTURE</b>	Since 1974, these awards are given to an eminent and distinguished professional in India who has made outstanding contributions in the field of welding in India and is chosen to deliver these memorial lectures during the National Welding Seminars / International Welding Congress / Conference of the Institute in alternative years.
<b>PROF PLACID RODRIGUEZ MEMORIAL LECTURE-2010</b>	Instituted in 2008 by IIW-India Chennai Branch, this award is given annually to a welding engineer / scientist below 45 years of age, who has contributed significantly in the field of welding science and technology in India and is chosen to deliver this memorial lecture during the National Welding Seminars / International Welding Congress / Conference of the Institute.
<b>MINATI BHATTACHARJEE MEMORIAL AWARD</b>	This Award was instituted by Mr. R.R. Bhattacharjee, a veteran member and Life Fellow of the Institute, in 1995 in memory of his beloved wife, Late Minati Bhattacharjee and presented annually during the National Welding Seminars / International Welding Congress / Conference of the Institute to the best performing branch of the institute with respect to excellence in membership development.
<b>ESAB INDIA AWARD</b>	The ESAB India Award, instituted in 2009, is given annually for the best technical paper presented in the National Welding Seminar or International Conference held in the previous year on a work done in India.
<b>I.T. MIRCHANDANI MEMORIAL RESEARCH AWARD</b>	This award is given annually for the best Research Paper presented on Welding Metallurgy, Modeling, and Extensive Testing presented in the National Welding Seminars / International Welding Congress / Conference of the Institute held in the previous year.
<b>H.D. GOVINDRAJ MEMORIAL RESEARCH AWARD</b>	This award is given annually for the second best Research Paper presented on Welding Metallurgy, Modeling, and Extensive Testing presented in the National Welding Seminars / International Welding Congress / Conference of the Institute held in the previous year.
<b>PANTHAKI AWARD</b>	This award is given annually for the best Paper on Welding of Non-ferrous metals presented in the National Welding Seminars / International Congress / Conference of the Institute held in the previous year.
<b>SHARP TOOLS AWARD</b>	Instituted in 2010, this award is given annually for the Best & Second Best Papers in Welding Fabrication and Practices specifically in Welded fabrication, quality assurance, Testing and inspection of components presented in the National Welding Seminars / International Congress / Conference of the Institute held in the previous year.
<b>EUTECTIC AWARD</b>	This award is given annually for the Best Paper in Reclamation and Repair presented in the National Welding Seminars / International Congress / Conference of the Institute held in the previous year.
<b>MD BSP AWARD</b>	This award is given annually for the Best Paper in Reclamation and Repair Welding in Steel Plant Repair presented in the National Welding Seminars / International Congress / Conference of the Institute held in the previous year.
<b>D &amp; H SECHERON AWARD</b>	The award is given annually for the paper, which has been adjudged as the best-presented paper in the National Welding Seminars / International Congress / Conference of the Institute held in the previous year.
<b>WELDMAN AWARD</b>	Instituted in 2009, this award is given annually for the best paper presented in any one of the three following areas of welding during National Welding Seminars / International Congress / Conference of the Institute. in the National Welding Seminars / International Congress / Conference of the Institute held in the previous year.
<b>WELDWELL SPECIALITY AWARD</b>	Instituted in 2010 this award is given annually to a student for the "Best thesis in the field of Welding" submitted for the award of Ph.D. in any of the Indian Universities, Indian Institutes of Welding, Indian Institute of Science, National Institutes of Technology or any other Institute approved under UGC in the preceding year.
<b>ASSOCIATE ENGINEERS AWARD</b>	Instituted in 2009, this award is given to a student for the best thesis submitted for fulfillment of M.Tech. degree in the previous academic year.
<b>BEST WELDER AWARD</b>	Instituted in 2008, and sponsored by Mr. N. Kalyan a veteran member of the institute, this award is given to the Best Welder (Pipe) and Best Welder (Structural) in the nationwide competition held every year.
<b>BEST WELDING ENGINEER AWARD</b>	Instituted in 2008, and sponsored by Mr. N. Kalyan a veteran member of the institute, this award is given to the Best Welding Engineer in the nationwide competition held every year.