

# 57<sup>th</sup> ANNUAL ASSEMBLY OF THE INTERNATIONAL INSTITUTE OF WELDING (IIW) 2004, OSAKA, JAPAN

The 57<sup>th</sup> Annual Assembly of the International Institute of Welding (IIW) was held from 11 to 16 July 2004 at the Osaka International Convention Center in Osaka (Japan).

Over 680 participants representing over 36 countries attended this Annual Assembly.

## 1 OPENING CEREMONY

The opening Ceremony took place on Sunday 11 July in the Osaka International Convention Center.

The welcome address was delivered by Dr. Yuzuru Fujita, Chairman of the Japanese Organising Committee.



**Dr. Yuzuru Fujita, Chairman of the Japanese Organising Committee.**

Mr. Yutaka Takasugi, Vice-Governor of Osaka Prefecture delivered an address on behalf of Mrs Fusae Ohta, Governor of Osaka Prefecture.



**Mr. Yutaka Takasugi,  
Vice-Governor of Osaka Prefecture.**

Mr. Bertil Pekkari, President of IIW, declared the 57<sup>th</sup> Annual Assembly open.



**Mr. Bertil Pekkari, President of IIW.**

These addresses were followed by the presentation of the IIW prizes and awards:

The **Henry Granjon Prize** was presented by Mr. Alain Houdart, President of Institut de Soudure (French Welding Institute) to:

- Category B: Mr. Pekka Nevasmaa (Finland)
- Category A: Mr. Paul Colegrove (United Kingdom). Since the winner was not present, his prize was presented to the United Kingdom delegation during the General Assembly.

The **André Leroy Prize**, sponsored by the French Delegation, was presented to:

- Mr. Martin Bourton (United Kingdom) by Mr. Philippe Bourges
- the United Kingdom delegation during the General Assembly, since the other winner, Mr. David Howarth was not attending the Opening Ceremony.

The **Arthur Smith Award** was presented by Dr. David Widgery, head of the United Kingdom Delegation, to Prof. Dr. Ing. Helmut Wohlfahrt (Germany).

This year, Prof. Yoshiaki Arata honoured IIW by attending the Opening Ceremony. On this occasion, he presented himself the **Yoshiaki Arata Award** to Prof. Masao Ushio (Japan).

The **Paton Prize** was presented by Prof. Konstantin Yushchenko, head of the Ukrainian Delegation, to Prof. Dr. Nobutaka Yurioka (Japan).

The **Thomas Medal** was presented by Pr. James Greer, President of the American Welding Society, to Dr. Kin-ichi Matsuyama (Japan).

The **Houdremont** plaque was presented by Prof. Dr. Ing. von Hofe, Head of the German Delegation to Dr. Ayao Tsuge (Japan).



**From left: Prof. Dr. Ing. von Hofe, Head of the German Delegation and Dr. Ayao Tsuge.**

At the end of the Opening Ceremony, Dr. Yuzuru Fujita, Chairman of the Japanese Organising Committee passed on the IIW flag to Dr. Oldrich Ambroz, Chairman of the Czech Organising Committee for the next Annual Assembly.



**From left: Dr. Yuzuru Fujita, Chairman of the Japanese Organising Committee, Dr. Oldrich Ambroz, Chairman of the Czech Organising Committee.**

The Opening Ceremony was followed by a Welcome Reception that started with the welcome address delivered by Prof. Masao Ushio, Chairman of the Japanese Executive Committee and the greetings from Mr. Jyun ichi Seki, Mayor of Osaka city.

## 2 NEW MEMBER COUNTRIES

During the General assembly, held on Sunday 11 July 2004, the following new Member Country was admitted to IIW:

- **Malaysia**, represented by the Welding Institute (Malaysia) BHD.



**From left: Mr. Bertil Pekkari, President of IIW and Mrs Noor Azidah Abdul Malik.**

## 3 INTERNATIONAL CONFERENCE

The IIW International Conference “Technical trends and future perspectives of welding technology for transportation, Land, Sea, Air and Space”, was held on 15 and 16 July 2004.

The Conference was opened by the Houdremont Lecture on “Mission of Japanese Manufacturing Industries in the 21<sup>st</sup> century” delivered by Dr. Ayao Tsuge from Japan.

30 papers were presented during the Conference.



## 4 IIW WORKING UNITS

As usual, the Annual Assembly offered the opportunity for the Working Units including Commissions, Select Committees, Study groups and other Working Groups to meet from Monday to Thursday.

This year, 114 resolutions were adopted by the various Working Units of IIW.

73 documents were recommended for publication in the IIW Journal “Welding in the World”.

## 5 ELECTION OF CHAIRMEN OF IIW WORKING UNITS

Elections were organised in five Commissions and two Select Committees. The results are as follows:

- Commission I *Brazing, Soldering, Thermal cutting and flame processes*  
**Mrs L. Heikinheimo** (Finland) was re-elected for a second term.



- Commission IX *Behaviour of metals subjected to welding*  
**Prof. B. de Meester** (Belgium) was re-elected for one more year only.
- Commission XI *Pressure vessels, boilers and pipelines*  
**Dr. M. Prager** (United States) was re-elected for a second term.
- Commission XII *Arc welding processes and production systems*  
**Prof. W. Lucas** (United Kingdom) was re-elected for a second term.
- Commission XIII *Fatigue of welded components and structures*  
**Dr. S. Maddox** (United Kingdom) was re-elected for one more year only.
- Select Committee *Quality Management in welding and allied processes*  
**QUAL**  
**Mr. R. Zwätz** (Germany) was elected succeeding Prof Dr.-Ing. Köstermann.
- Select Committee *Standardization*  
**STAND**  
**Dr. Shackelton** (United Kingdom) was re-elected for a third term.



**From left: Mr. Daniel Beaufile, IIW CEO, congratulating Mr. Rainer Zwätz, new Chairman of Select Committee QUAL.**

## 6 DECISIONS OF THE GENERAL ASSEMBLY

### 6.1. Renewal of the IAB Secretariat

ISQ “Instituto de Soldadura e Qualidade” (Portugal) was unanimously approved as the joint Secretariat of EWF and IAB for five years, from 1 January 2005 to 31 December 2009.

### 6.2. Renewal of the IIW Secretariat

It was unanimously approved to extend the term of the present IIW Secretariat, held by Institut de Soudure, for five years, from 1 January 2006 to 31 December 2010.

### 6.3. Future Annual Assemblies

The proposal to hold the 2009 IIW Annual Assembly in Singapore was unanimously approved.

## 7 RENEWAL OF THE BOARD OF DIRECTORS

The terms of office of Dr. D. Howden (United States) and Mr. C. Smallbone (Australia) as Vice-Presidents having expired, Dr. D. Kotecki was elected as Vice-President.



**From left: Dr. David Howden and Mr. Bertil Pekkari.**



**From left: Mr. Chris Smallbone and Mr. Bertil Pekkari.**

The terms of office of Prof. Dr. H. Cerjak (Austria) and Prof. Dr. Ing. D. Dehelean (Romania) as Directors having expired, Prof. B. de Meester (Belgium) and Prof. J. Packer (Canada) were elected as new Directors.



**From left: Prof. Dr. Horst Cerjak and Mr. Bertil Pekkari.**



**From left: Mr. Bertil Pekkari  
and Prof. Dorin Dehelean.**

Mr. C. Smallbone was appointed as "President Elect".  
Mr. B. Pekkari expressed his thanks to those leaving and a warm welcome to those entering the Board of Directors.

## 8 FUTURE ANNUAL ASSEMBLIES

The future Annual Assemblies will be held as follows:

- 2005: Prague (Czech Republic), 10 to 16 July 2005
- 2006: Quebec City (Canada), 27 August to 2 September 2006
- 2007: in Croatia
- 2008: in Austria
- 2009: in Singapore.

## 9 FUTURE REGIONAL CONGRESSES

The future Regional Congresses will be held as follows:

- **Egypt:** Cairo, 29 November to 01 December 2004
- **Israel:** Tel Aviv, 25 to 28 January 2005
- **India:** Mumbai, 16 to 19 February 2005
- **Kazakhstan:** October 2005
- **South Africa:** Cape Town, March 2006
- **Balkans:** Timisoara, 8/10 June 2006
- **Australia/New Zealand:** Sydney, October 2007.

# 2004 IIW PRIZES AND AWARDS

## HENRY GRANJON PRIZE

The prizes, were presented by Mr. Alain Houdart President of Institut de Soudure (French Welding Institute).

### Category B: “Materials behaviour and weldability”

The prize was awarded to Mr. Pekka Nevasmaa (Finland) for his paper: “Prevention of weld metal hydrogen cracking in high-strength multipass welds”<sup>1</sup>.

**Mr. Pekka Nevasmaa** received his PhD from the Graduate School of Metallurgy of the University of Oulu in 2003. As a student he worked on the characterisation of the factors controlling hydrogen cold cracking in high-strength multipass weld metals and the development of the methodology for predicting precautions against cracking. He is now working with VTT ManufacturingTechnology where he is Project leader in international projects dealing with fracture toughness assessment and structural integrity of welded joints and structures.



**Mr. Paul Colegrove.**

In the absence of the recipient, the prize was presented to the United Kingdom delegation during the General Assembly.



**From left: Mr. Pekka Nevasmaa and Mr. Alain Houdart.**

### Category A: “Joining and fabrication technology”

The prize was awarded to Mr. Paul Colegrove, (United Kingdom) for his paper “Modelling and development of the trivex™ friction stir welding tool”<sup>2</sup>.

<sup>1</sup> This paper was already published in *Welding in the World*, May/June 2004, vol. 48, no. 5/6, pp. 2-18. [See Doc. IIW-1617-03 (ex-doc. IX-2066-03)].

<sup>2</sup> This paper, Doc. IIW-1647-04 (ex-doc. III-1289-04) is published in *Welding in the World*, July/August 2004, vol. 48, no. 7/8.

## ANDRÉ LEROY PRIZE

The prize was presented on behalf of the French Delegation by Mr. Philippe Bourges to:

- Mr. Martin Bourton (United Kingdom)
- the United Kingdom delegation during the General Assembly, since the other winner, Mr. David Howarth was not attending the Opening Ceremony

for their CD-ROM: “*Interpretation of weld radiographs*”.

**Mr. Martin Bourton** joined TWI in 1987 with a degree in Electronic Systems Engineering from the University of East Anglia. As a Senior Software Engineer in the Business Systems and Development Group he manages the design of multimedia applications for



**From left: Mr. Philippe Bourges and Mr. Martin Bourton.**





**Mr. David Howarth.**

training, reference and promotional activities. Martin has also been closely involved in the development of a number of expert systems and web-based software solutions. Clients have been drawn from the automotive and offshore industries, equipment and consumables suppliers and the Health and Safety Executive.

## ARTHUR SMITH AWARD

The award was presented on behalf of the United Kingdom Delegation by Dr. David Widgery to Prof. Dr. Ing. Helmut Wohlfahrt, Germany.

**Prof. Dr. Ing. Helmut Wohlfahrt** graduated in Physics from the University of Stuttgart in 1965. He received his Doctor's degree from the University of Karlsruhe in 1970.

Prof. Wohlfahrt became well-known in the international scientific community as an excellent expert in the field of residual welding stresses and fatigue of welded joints.

Prof. Wohlfahrt's contacts with IIW started at the 1987 Annual Assembly in Sofia. Since this time he has been very active as an expert on Commissions X and XIII contributing mainly with documents on residual stresses due to welding.



**From left: Dr. David Widgery and Prof. Dr. Ing. Helmut Wohlfahrt.**

## YOSHIAKI ARATA AWARD

The award, sponsored by the Japanese Delegation, was presented by Prof. Yoshiaki Arata himself to Prof. Masao Ushio (Japan).

**Prof. Masao Ushio** received his Master's degree in Engineering in 1969 and his PhD in 1975, both from Osaka University. Since 2000, he is Director General of the Joining and Welding Research Institute (JWRI) at the Osaka University.



**From left: Prof. Masao Ushio and Prof. Yoshiaki Arata.**

Prof. Ushio's lifetime work is concerned with the physics of arc plasma and its applications to welding and other materials processing.

Author of many papers and books, Prof. Masao Ushio has also dedicated much time to IIW. He has been Chairman of Commission XII from 1998 to 2001 and since 2002, he is Vice-President of IIW.

## PATON PRIZE

The prize was presented on behalf of the Ukrainian Delegation by Prof. Konstantin Yushchenko, to Prof. Dr. Nobutaka Yurioka (Japan).

**Prof. Dr. Nobutaka Yurioka** received two MS in Engineering from Kyoto University in 1965 and from the Massachusetts Institute of Technology (MIT) in 1972. In 1981, he received his PhD in Engineering from Kyoto University and became head of the Welding and Joining Research Center at Nippon Steel.

In 1980s, he proposed a heat affected zone hardness prediction formula used worldwide. He also clarified by a heat conduction analysis a relation between the ideal hardenability diameter used in steel heat treatment and carbon equivalency used in welding. As chairman of IIW SC-IX-J, he contributed to the creation of a low alloy steel weld metal database.



**From left: Prof. Konstantin Yushchenko and Prof. Dr. Nobutaka Yurioka.**

## THOMAS MEDAL

The medal was presented by Pr. James Greer, President of the American Welding Society, to Dr. Kin-ichi Matsuyama (Japan).

**Dr. Kin-ichi Matsuyama** received his BS in Welding Engineering in 1969, his MS in Welding Engineering in 1971 and his PhD. in Welding and Production Engineering in 1992 from Osaka University.

He is currently Research Associate Professor in the Department of Mechanical Engineering/Manufacturing Institute of the Massachusetts Institute of Technology (MIT).

Author of many papers and books, he has devoted much time to standardisation both in Japan and in ISO.



**From left: Pr. James Greer and Dr. Kin-ichi Matsuyama.**