

56th ANNUAL ASSEMBLY OF THE INTERNATIONAL INSTITUTE OF WELDING (IIW) 2003, BUCHAREST, ROMANIA



The 56th Annual Assembly of the International Institute of Welding (IIW) was held from 06 to 11 July 2003 at the Marriott Hotel in Bucharest, Romania.

Over 600 participants representing 42 countries attended this Annual Assembly.

1 OPENING CEREMONY

The opening Ceremony took place on Sunday 06 July in the Parliament.

The welcome address was delivered by Prof. Dr. Dorin Dehelean, President of the Romanian Organising Committee.

Prof. Gheorghe Zaman, Economical Counsellor to the President of Romania, Mr. Ion Iliescu, read a message from the President.

Mr. Bertil Pekkari, President of IIW, declared the 56th Annual Assembly open.



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

The **Sossenheimer Prize**, awarded for the first time, was presented to Prof. Vladislav Alexandrovitch Sudnik, Russia.

The **Ugo Guerrera Prize** winner was Mr. Michael Otlet, United Kingdom.

The **Henry Granjon Prize** winners were

– Category A: Mr. Andrew Joseph, United states and Dr. Hidenori Terasaki, Japan;

– Category C: Dr. Katsuyuki Nakade, Japan and Dr. Ernst Letofsky, Austria;

– Category D: Mr. Chris Redding, United Kingdom.

The **Arthur Smith Award** was presented to Mr. Derek Russell, United Kingdom.

The **Yoshiaki Arata Award** was presented to Dr. Richard Dolby, United Kingdom.

The **Edström Medal** was presented to Mr. Bevan Braithwaite, United Kingdom, immediate Past-President of IIW.

The **Paton Prize** was presented to Professor Bill Lucas, United Kingdom.

The **Thomas Medal** was presented to Mr. Shinsuke Tsutsumi, Japan.

2 NEW MEMBER COUNTRIES

During the General assembly, held on Sunday 06 July 2003, three new Member Countries were admitted to IIW:

– **Indonesia**, represented by the Indonesian Welding Society;

– **Israel**, represented by the Association of Engineers and Architects in Israel;

– **Mexico**, represented by Instituto Nacional de Soldadura.



3 INTERNATIONAL CONFERENCE

The IIW International Conference “Welded construction for urban infrastructure”, was held on 10 July 2003.

The Conference was opened by the Portevin Lecture on “Key developments in the fatigue design of welded constructions” delivered by Mr. Steve Maddox from the United Kingdom.



13 papers were presented during the Conference.

4 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 Wednesday.

This year, 84 resolutions were adopted by the various Working Units of IIW.

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

5 ELECTION OF CHAIRMEN OF WORKING UNITS

Elections were organised in seven Commissions, one Select Committee and one Study Group. The results are as follows:

- Commission II (Arc Welding and Filler Metals): Mr. V. van der Mee (Netherlands) succeeding Dr. D. Kotecki (United States);
- Commission VIII (Health and Safety): Dr. G. McMillan (United Kingdom) for a second term;



- Commission IX (Behaviour of metals subjected to welding): Prof. B. de Meester (Belgium) for one more year;

- Commission X (Structural performances of welded joints – Fracture avoidance): Dr. M. Koçak (Germany) for a second term;

- Commission XIII (Fatigue of welded components and

structures): Dr. S. Maddox (United Kingdom) for one more year;

- Commission XIV (Education and training): Mr. R. Bonneau (Canada) succeeding Prof. Strippelman (Germany);
- Commission XVI (Polymer joining and adhesive technology): Dr. C-Y. Wu (United States) succeeding Dr. A. Benatar (United States);
- SC Env (Environment): Dr. M. Scasso (Italy) for a second term;
- SG Res (Welding research strategy and collaboration): Prof.-Dr. L. Quintino (Portugal) succeeding Dr. R. Dolby (United Kingdom).

6 DECISIONS OF THE BOARD OF DIRECTORS

The terms of office of Prof.-Dr. L. Quintino (Portugal) and Prof. Dr. C.B. Andersen (Denmark) as Director, having expired, Dr. O. Ambroz (Czech Republic) and Prof. S. Ping (P.R. China) were elected as new Directors.

Mr. B. Pekkari expressed his thanks to the outgoing members of the Board of Directors and extended a warm welcome to the newcomers.

7 FUTURE ANNUAL ASSEMBLIES

The future Annual Assemblies will be held as follows:

- 2004: Osaka (Japan), 11 to 16 July 2004;
- 2005: Prague (Czech Republic), 3 to 8 July 2005;
- 2006: Quebec City (Canada), 28 August to 2 September 2006;
- 2007: in Croatia;
- 2008: in Austria.

8 FUTURE REGIONAL CONGRESSES

The future Regional Congresses will be held as follows:

- **Iran:** Tehran, 1 to 3 December 2003;
- **Egypt:** Cairo, October 2004;
- **Israel:** Tel Aviv, 25 to 28 January 2005;
- **India:** Mumbai, February 2005;
- **South Africa:** Cape Town, February/March 2006.



2003 IIW PRIZES AND AWARDS

SOSENHEIMER PRIZE

This prize was awarded for the first time. The winner is Prof. Vladislav Alexandrovitch Sudnik for the MAGSIM and SPOTSIM software.

In the absence of the recipient, the prize was presented by Prof.-Dr. Detlef von Hofe, head of the German Delegation to Prof.-Dr. Dilthey.



Prof. Vladislav Alexandrovitch Sudnik obtained his Doctor's degree in Engineering Science. In 1974, he became Head of the new chair "Equipment and Technology of Welding" at the National University of Tula.

In 1992, he initiated the first German-Russian co-operation contract between the Russian Welding Society Council and the German Welding Association.



GUERRERA PRIZE

In the absence of the recipient, Mr. Michael Otlet (United Kingdom), for the Millennium Stadium of Cardiff, the prize was presented to Mrs. Cristina Lazàr, by Dr. Giulio Costa, head of the Italian Delegation.



A Structural Engineer, **Michael Otlet** is responsible for a team of engineers and technicians. He has worked extensively on the design of challenging projects making use of the best technology available today.

He has worked on many prestigious projects, both in the UK and abroad, including the Cardiff Arms Park Millennium Stadium.

HENRY GRANJON PRIZE

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

Category A: "Joining and fabrication technology"

The prizes were awarded to:

- Mr. Andrew Joseph (United States) for the paper "Measurement and calculation of GMAW-P arc power and heat transfer efficiency".
- Dr. Hidenori Terasaki (Japan) for the paper "Phenomena of molten pool formation in TIG welding process».

In the absence of the recipients, the prizes were presented to:



– Mr. Ernest Levert, immediate past President of the American Welding Society.

– Dr. Manabu (Japan).

Andrew Joseph received both his BS and MS in Welding Engineering from the Ohio State University.

In 1999 he joined the Edison Welding Institute where he is currently an Applications Engineer in the Arc Welding, Materials and Automation team.

He has expertise in arc welding and gas metal arc brazing. He has worked on projects involving tooling and fixturing development, procedure optimisation, qualification of weld procedures.

Dr Hidenori Terasaki graduated in Mechanical Engineering in 1998 from the Nagoya Institute of Technology.

In 2000 he received his MS degree from Osaka University.

He received his Ph. D in 2003 from the Joining and Welding Research Institute of Osaka University. His work was on the phenomena of molten pool formation in TIG welding.

Dr Terasaki is presently at the University of Sydney in Australia.

Category B: “Materials behaviour and weldability”

The prizes were awarded to:

– Dr. Ernst Letofsky (Austria) for the paper “*Behaviour of welded joints of modern power plant materials*».

– Dr. Katsuyuky Nakade (Japan) for the paper “*Sigma phase precipitation and its influence on hydrogen induced cracking duplex stainless steel base metal and weld metal*».



Dr Ernst Letofsky graduated in 1992 in Materials Science from the University of Mining and Metallurgy Leoben. He has worked as a Scientist at Graz University of Technology. In 2001 he obtained his Doctor’s



degree with a dissertation on “The Behaviour of Welding Joints of Advanced Power Plant Materials”. He teaches at the Technical School of Mechanical Engineering in Graz since 2002.



Dr Katsuyuki Nakade received his BS in Engineering from Himeji Institute of Technology in 1996, his MS in 1998 and his PhD in 2001 from Osaka University.

Since 2001 he is a Post Doctoral Research Fellow in the Thermal Spray Laboratory at the Joining and Welding Research Institute of Osaka University.



Category D: “Human related subjects”

The prize was awarded to Mr. Redding C.J. (United Kingdom) for the paper “*Fume model for gas metal arc welding*”.

In his absence, the prize was presented to Dr. Grant McMillan, Chairman of Commission VIII “Health and Safety”.



Chris Redding gained a degree in Biochemical Engineering at University College London. He then worked for British Petroleum Research following before leaving to care for his mother who has Alzheimer's disease. He was subsequently employed part time by The Metal Fume Research Group (later Metal Fume

Research Unit) at Bradford University first as a laboratory technician and later as a research assistant. There he obtained his MS on the subject of ozone and hexavalent chromium formation in continuous arc welding.

ARTHUR SMITH AWARD

In the absence of the recipient, Mr. Derek Russell (United Kingdom), the award was presented by Mr. Bevan Braithwaite, head of the British Delegation and immediate past President of IIW to Mr. Duncan Yates.



Derek RUSSELL has served IIW for 14 years on Commission IV "High Energy Density" Processes, and also on Sub-Commission I-D on Laser Cutting. He was one of very few people in the world having in-depth experience in all high energy density processes, both from equipment development and application viewpoints.



He was elected Vice Chairman of Commission IV in 1989 and Chairman in 1996. He held the post until his retirement in 2002, also serving on the IIW Technical Committee in his last two years.

YOSHIAKI ARATA AWARD

The award was presented, on behalf of the Japanese delegation, by Professor Yuzuru Fujita to Dr. Richard Dolby (United Kingdom).



Dr Richard Dolby graduated in metallurgy from the University of Cambridge. He obtained his PhD in 1972. He received an honorary doctorate from the University of Sheffield in 1998.

He joined TWI (then the British Welding Research Association) in 1965. In 1980 he moved from leading the Materials Department to become Research Manager and, in 1985, Director of Research and Technology.



Due to his knowledge and expertise across all technologies in welding and allied fields, Dr Dolby has been appointed in many advisory committees. He has also served as Vice-President of IIW, Chairman of the Technical Management Board, and Chairman of the Welding Research Strategy Group.

EDSTRÖM MEDAL



The medal was presented by Mr. Bertil Pekkari, head of the Swedish Delegation and President of IIW, to Mr. Bevan Braithwaite (United Kingdom).

Bevan Braithwaite originally trained as a welder and then went on to take a degree in Mechanical Sciences at Cambridge University.



He joined TWI (then the British Welding Research Association) in 1961 and was appointed to the Executive Board in 1966. He became Chief Executive in 1988.

As CEO of TWI, he has supported IIW for many years by committing TWI staff to participate in IIW Working Unit activities. He was himself a member of the Technical Committee.

However, Bevan Braithwaite's own contributions to the aims and operations of IIW came only in the last six years. He joined the Executive Council (now Board of Directors) in 1996 as Treasurer and became President in 1999. In this short period the IIW has been transformed into an active and vigorous organisation of over 40 countries.

PATON PRIZE

The prize was presented, on behalf of the Ukrainian Delegation, by Professor Konstantin Yushchenko to Prof. Bill Lucas (United Kingdom).



Prof. Bill Lucas is Technology Manager in the Arc, Laser and Sheet Processes Department at TWI. He received his PhD from Queen's University of Belfast. He joined TWI in 1970. In 1986 he became Head of the Arc Welding Department. In 1987, he became the first research engineer at TWI to be awarded Doctor of Science for his contribution to arc welding and computer technology.

His research work has been largely devoted to process development and application studies in welding and cutting and the production of modelling, expert systems and multimedia packages. He has been Programme



Manager of several National and European collaborative projects.

He is presently Chairman of Commission XII, "Arc Welding Processes and Production Systems".

THOMAS MEDAL

The medal was presented, by Mr. Thomas Mustaleski, President of the American Welding Society, to Mr. Shinsuke Tsutsumi (Japan).



Shinsuke Tsutsumi completed his studies at Yokohama National University. He joined Kobe Steel in 1975 and began working as a research engineer on various types of welding consumables.

He is presently a member of IIW Sub-commission II-E and ISO/TC44/SC3. In January 1998, he proposed the "cohabitation idea", a way for two systems to "live together". After the idea was accepted by ISO in 1999, ISO/TC44/SC3 has prepared the cohabitation drafts of ISO standards for welding consumables.

Since 1998, he chairs the Subcommittee on ISO standardisation, Technical Committee, Welding consumables Division of the Japan Welding Engineering Society.

