

2002 IIW PRIZES AND AWARDS

ANDRÉ LEROY PRIZE

The André Leroy Prize was presented on behalf of the French Delegation by Mr. Philippe Bourges, to Mr. David Howarth and Mr. Martin Bourton (United Kingdom) for the CD-ROM: "Basic Metallurgy and Welding" (Fig. 1)



Fig. 1.

Graduating in Metallurgy from Sheffield University in 1975, David J. Howarth (Fig. 2) joined British Steel Forges and Foundries Division at their River Don Works



Fig. 2.
David J. Howarth.

leaving to join Lloyd's Register of Shipping in 1985. David is currently the Manager of the Materials and NDE Department at Lloyd's Register responsible for Materials, Metallurgy, Welding and NDE issues worldwide and the Materials Laboratory based in Croydon. This role not only covers shipping but also Offshore and On-shore Oil and Gas, Nuclear and Power Generating

Industries. Training is an essential part of this role, with a responsibility to provide a working understanding of the subjects to all Lloyd's Register's field surveying force of Naval Architects and Marine Engineers. Developments in training techniques to include modern technology is seen as a fundamental part of his role.

Martin Bourton (Fig. 3) 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 training, reference and promotional



Fig. 3.
Martin Bourton.

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.

HENRY GRANJON PRIZE

Category A: "Joining and fabrication technology"

In the absence of the recipient, Dr. Manuel Paul Marya (USA) (Fig. 4), the Henry Granjon Prize, category A was presented to his father Dr. Surendar Marya, on behalf



Fig. 4.
Dr. Manuel Paul Marya.

of Institut de Soudure (French Welding Institute) by Mr. Guy Richard (Fig. 5) for the paper "Theoretical and experimental assessment of chloride effects in the A-TIG welding of magnesium".

Manuel Marya is a PostDoc Research Associate within the Center for Welding, Joining and Coatings Research, and within the George Ansell Department

of Metallurgical and Materials Engineering at the Colorado School of Mines (CSM). From 1990 to 1995, he received undergraduate degrees in Mechanical Engineering from France (Nantes) and Canada (Montreal). In 1995, he joined the French Air Force for a year to fulfill his military duties. In 1996, he returned to North America to continue his education at CSM. He received his Master of Science in 1999, after working on the laser sheet metal forming of titanium alloys, and his Ph. D. in January 2002 for his research on the weldability of magnesium alloys by lasers and electric arcs. For his proposals on the application of fluxes for the GTA welding of magnesium, Manuel received the AWS Fellowship Award in 2000 and 2001. Manuel is co-author



Fig. 5.

of approximately 30 papers and presentations, particularly with CSM Professor Glen Edwards (his CSM advisor), CSM Professors David Olson and Stephen Liu.

Category C: “Design and structural integrity”

The Henry Granjon Prize, category C was presented to Dr. Afshin Motarjemi (Germany) (Fig. 6) on behalf of Institut de Soudure (French Welding Institute) by Mr. Guy Richard (Fig. 7) for the paper “Fracture assessment



Fig. 6.
Dr. Afshin Motarjemi.

of a repair welded bi-material steel by defect assessment procedure SINTAP”.

After completing his studies in Materials engineering, Dr. Motarjemi worked as a research engineer at the Department of Materials Engineering of the Sharif University of Technology in Iran. He also worked in the Department of Civil and Structural Engineering at UMIST in Manchester, UK,

as a guest research student in the field of numerical and experimental analysis of welded T-joints under fatigue loading. He was involved in technical innovations and improvements that have found application in



Fig. 7.

industry. He obtained a Doctor’s Degree in Materials engineering. In 2000, Dr. Motarjemi joined the Department of Joining and Assessment (WMF) in the Institute for Materials Research at the GKSS Research Centre in Germany, where he works in a team assessing the structural integrity of welded structures. This team provides technical solutions for optimisation of advance welding processes (e.g., Friction stir and Laser welding) and assessing the structural integrity of complex welded structures containing flaws. This team has recently established a R&D program primarily devoted to the development of advance joining technologies and assessment of welded light-weight structures, including aerospace materials and welded sub-structures.

ARTHUR SMITH AWARD

The Arthur Smith Award was presented, on behalf of the United Kingdom Delegation, by Mr. Bevan Braithwaite to Dr. Giulio Costa from Italy (Figs. 8 and 9).



Fig. 8. Dr. Giulio Costa.

Giulio Costa graduated in Industrial Electrical Engineering in 1964 at Genoa University, where he worked as assistant lecturer. He joined Istituto Italiano della Salsatura, the Italian Institute of Welding (IIS) in 1965. After the initial training and preparation, he became responsible for some IIS departments, like training, studies and

research, standardisation. He was IIS Deputy Secretary General in 1985 and IIS Secretary General from 1990 till 1996. Although he is now is retired, he is still active as IIS General Consultant and member of the IIS Executive Council.

In IIW, since 1969 (Warsaw) he has attended 31 Annual Assemblies (all of them, except for Australia and Israel). He has participated in the work of several Commissions (V, XIII, XV) and Select Committees (Aluminium, Standardisation). In particular, he was very active in



Fig. 9.

Commission XV, where he chaired SC XV C “Design”, as well as the main Commission (11 years). During this period some important documents were produced, e.g. those dealing with “fitness for purpose”, “offshore structures statically loaded”, “fatigue of welded components”, “fatigue of offshore structures”, “repairs”. He was Treasurer of IIW for 6 years (1989 - 1986), Director of IIW (1998 till 2001) and Chairman of the Board of Directors’ WG “Publications” for 11 years.

Dr. Costa was the Chairman of the Italian Organising Committee of the 2000 Annual Assembly in Florence.

YOSHIAKI ARATA AWARD

The Yoshiaki Arata Award was presented, on behalf of the Japanese delegation, by Professor Yuzuru Fujita to Dr. Stan David from the USA (Figs. 10 and 11).

Dr. David received his Ph. D. degree in Metallurgical Engineering from the University of Pittsburgh. He currently holds adjunct professorships at the University of Pittsburgh and Colorado School of Mines, and a Visiting Professor at Coventry University, Coventry, United



Fig. 10. Dr. Stan David.

Kingdom. In 1977 he joined ORNL where he is currently Corporate Fellow of UT-Battelle, and Leader of the Materials Joining and Non-destructive Testing Group in the Metals and Ceramics Division. He is a Fellow of The Minerals, Metals, and Materials Society (TMS), American Association for the Advancement of Science, ASM International and the American Welding Society. He is the Editor-in-Chief of a new journal, "Science and Technology of Welding and Joining", published by the Institute of Materials, London. Dr. David was the recipient of many prizes and awards from the American Welding Society, the Institute of Materials (London), the Minerals, Metals and Materials Society, the International Metallographic Society and ASM International. Dr. David is a member of the Metallurgical Society of AIME, ASM International, American Welding Society, and the American Association for the Advancement of Science. He has contributed to over 200 papers in the fields of solidification and welding metallurgy and is the editor of seven international conference proceedings. He serves on several national committees of professional societies and industrial advisory board. Dr. David is a member of the IIW Study Group 212 and has attended previous IIW meetings regularly.



Fig. 11.

EDSTRÖM MEDAL

The Edström Medal was presented, on request of the Swedish Delegation, by Mr. Bevan Braithwaite, President of the IIW, to Mr. Stig-Erik Eriksson from Sweden (Figs. 12 and 13).



**Fig. 12.
Mr. Stig-Erik Eriksson.**

Mr. Stig-Erik Eriksson first participated in an IIW Annual Assembly in 1952, when he actively contributed in Commission V to the first Collection of Reference Radiographs of Welds. He was also one of



Fig. 13.

the main contributors to the Bonhomme recommendation covering the minimum requirements on steel to be weldable. Since 1952 Mr. Stig-Erik Eriksson has mainly been active in Commissions V and IX. He has participated in over 40 Annual Assemblies. He has been very active in Sweden promoting IIW. He was one of the key persons in the organisation of the 1972 and 1995 Annual Assemblies in Sweden. He has chaired the Swedish Welding Association and has been the editor of Svetsen (Swedish Welding Association Journal) for the last 16 years. During this period he has been one of the Swedish representatives at the IIW General Assemblies. He has been a member of the Board of Directors of the Swedish Welding Commission for over 30 years. Mr. Stig-Erik Eriksson is awarded the Edström Medal for his 50 year service in IIW and for his valuable contribution to two of the most important IIW documents issued.

PATON PRIZE

The Paton Prize was presented, on behalf of the Ukrainian Delegation, by Professor Konstantin Yushchenko to Mr. Wayne Thomas from the United Kingdom (Figs. 14 and 15).



Fig. 14. Wayne Thomas.

Wayne Thomas is a Principal Research Engineer in the Innovation Unit. He joined TWI in 1983 having spent 23 years in heavy engineering and fabrication in the steel industry. He gained his MPhil from Brunel University (Materials Technology) and has recently gained Eur Ing,

CEng and FWeldI status. He is the author of many technical papers and has been responsible for the conception and/or development of a number of emergent technologies. He was awarded the Sir William J. Larke medal for 1995 in recognition of the advancement of knowledge or practice in respect of the welding process, the Japanese Welding Society's "Welding Process Technology Award" for 2001 for the invention and development of the friction stir welding method., and the American Welding Society's Samuel Wylie Miller Memorial Medal for 2002.



Fig. 15.

THOMAS MEDAL

The Thomas Medal was presented, on behalf of the American Delegation, by Mr. Ernest Levert, to Prof.-Dr. Hans-Joachim Krause from Germany (Figs. 16 and 17).



Fig. 16. Prof.-Dr. Hans-Joachim Krause.

After completing his studies in the Mechanical Engineering Faculty at the Technical University (TU) of Berlin, Hans-Joachim Krause joined the Institute for Machine Elements of the TU as a Scientific Employee in 1959. He later joined the Federal Institute for Materials Research and Testing (BAM) as a Laboratory Manager and, since 1982, as an Expert Group Manager. His main activities were related to arc welding and oxyacetylene processes. As from 1968,

pressure welding was his most important research field. In 1971, he obtained a doctorate as an external student at the Machine Construction Faculty of the Technical University of Karlsruhe. In 1983, he was entrusted with the office of a Director and Professor. The central tasks of his expert group were research activities concerning the safety and reliability of joints, quality assurance and economic viability extended by a robot and sensor test field, a laser laboratory as well as punch-riveting and clinching. H.-J. Krause was chairman and member of a large number of international and national technical and scientific committees and commissions. In 1992, he assumed his office as the Chairman of the DIN Welding Technology Standards Committee, one of the few offices which he still holds today after having retired in 1999. In 1982, he was awarded the DVS Ring of Honour by the DVS-German Welding Society for his outstanding services in the technical and scientific fields and in the German Welding Society. In May 2000, he received the Beuth Commemorative Coin from DIN for his services to standardisation.

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Fig. 17.