

2022

IIW AWARDS

Honouring significant contributions to welding and joining technology
and the International Institute of Welding



INTERNATIONAL INSTITUTE OF WELDING

A world of joining experience



At this Opening Ceremony of the 75th IAW online Annual Assembly of the International Institute of Welding (IIW) is honoring the winners of this year's prestigious IAW Awards and acknowledging their significant contributions to welding and joining around the world.

IIW Awards recognise a wide range of achievements such as outstanding technical accomplishments and contributions to IAW Working Units, illustrious careers in the industry or academia, contributions to global advancement and meritorious service to IAW.

At this 75th IAW online Annual Assembly, IAW Annual Awards acknowledge not only people with outstanding accomplishments or technical achievements, illustrious careers or long and meritorious service to the IAW around the world, but also encourage promising young professionals who are our future industry and Institute leaders.

IIW is proud to promote and recognise distinction through its numerous prizes and awards, often sponsored by Member Societies. Many are named to pay tribute to eminent individuals who were founding fathers of IAW or champions of its global role, or made significant contributions to the development and implementation of scientific and technical advances in welding and allied processes.

It was the dedication and vision of these famous IAW personalities which set the stage for the organisation to be recognised today as the largest and most prestigious worldwide network for the exchange of knowledge and cooperation in a wide range of joining and related technologies.

Our heartiest congratulations go to the 75th IAW online Annual Assembly winners whose achievements and professionalism, whether at the peak of the mountains or in the foothills, are outstanding examples of determination on the pathway to excellence.

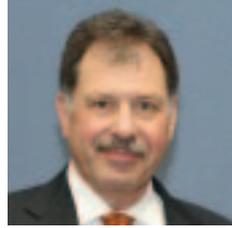
2022
IIW AWARDS



Prof. Dorin Dehelean



Mrs. Teresa Melfi



Dr. John C. Lippold



Dr. Zheng Sun



Dr. Warren Miglietti



Mr. Dan Tadic



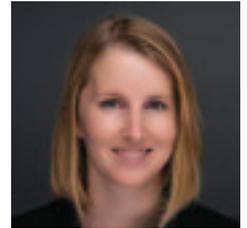
Mr. Bruce Cannon



Mr. Tomoyuke Ueyama



Dr. Jun Xiao



Mrs. Anna Regensburg



Dr. Mitchell R. Grams



Dr. Eng. Eisaku Ito



Dr. Zhang Jinwen



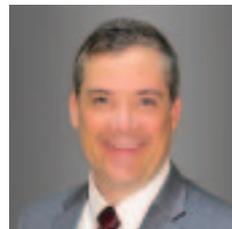
Mr. Florian Pixner



Mrs. Asun Valiente



Dr. Giovanni Meneghetti



Dr. Nick Peterson



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More information about IIW's recognition of people is found at www.iiwelding.org



FELLOW OF THE IIW AWARD

Sponsored by the IIW

Recognises individuals with a minimum of 10 years' active participation in IIW who have made distinguished contributions to welding science and technology and promoted and sustained the professional stature of the field



Prof. Dorin Dehelean

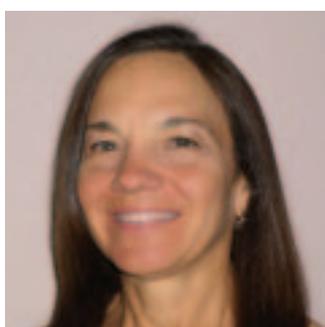
Prof. Dorin Dehelean main areas of competence are related to welding processes, metallurgical behaviour of materials, and training/qualification of welding personnel.

For many years he was Senior Scientist and General Director of the Romanian Institute for Welding and Material Testing ISIM Timisoara, and Professor of Welding Engineering at the Politehnica University Timisoara. Currently he is Executive Director of the Romanian Welding Society ASR.

He has held numerous full-time and volunteer positions and has been actively involved in education, research and industry activities for over 50 years.

Prof. Dehelean has attended more than 25 IIW annual assemblies and participated in many IIW work units. He was member of the IIW Board of Directors (2001- 2004 and 2009 - 2012) and organized the 56th IIW Annual Assembly in Bucharest. A special outcome of his participation in IIW was the creation of the South East European Network for Technology Transfer (SEENET). He is the holder of the inaugural IIW Award for Regional Activities, 2014.

For his merits, Prof. Dehelean was awarded the National Order "Star of Romania", the highest Romanian order, and was elected full member of the Romanian Academy of Technical Sciences.



Mrs. Teresa Melfi

Teresa began her career designing welding consumables that are now used in demanding applications world-wide. She designed novel welding processes and is well known for her work with welding waveforms. Her experimental techniques to study the welding arc, metal transfer and weld metal properties have resulted in major advancements in the welding industry. She holds national and international patents, has published many technical papers and is a regular invited speaker. In addition to IIW, Teresa is a member of ASME, AWS, API, CWB and ISO standardization committees and serves as the welding advisor to the National Board's Board of Trustees. She is an ambassador for skilled trades, especially welding.



Dr. John C. Lippold

Emeritus, Welding Engineering Program
Department of Materials Science and Engineering, The Ohio State University



Dr. Lippold is currently Emeritus Professor in the Welding Engineering Program at Ohio State University. He retired from OSU in 2016 after more than 20 years on the faculty having trained over 60 graduate students. He received his B.S., M.S. and Ph.D. degrees in Materials Engineering from Rensselaer Polytechnic Institute where he was a student of Dr. Warren F. Savage. He worked for seven years at the Sandia Livermore Laboratory, Livermore, CA and from 1985 to 1995 for Edison Welding Institute. In 1995, he joined the faculty of the Welding Engineering Program at OSU.

Over the past 40 years, Dr. Lippold has been involved in research activities designed to gain a better understanding of the welding metallurgy and weldability of engineering materials. This includes both fundamental and applied topics with a high degree of industrial relevance. Based on this research, Dr. Lippold has published over 300 technical papers and reports. He is recognized internationally in the field of stainless steel and high alloy welding metallurgy, and weldability testing. He has published three widely used textbooks, *Welding Metallurgy and Weldability of Stainless Steels* (2005), *Welding Metallurgy and Weldability of Nickel-base Alloys* (2009), and *Welding Metallurgy and Weldability* (2014).

Dr. Lippold previously received the Jaeger Lecture Award (2008) and the Yoshiaki Arata Award (2009) from IIW and is a Fellow of both ASM International (1994) and the American Welding Society (1996). He is currently Lead Editor of **Welding in the World** published by Springer in conjunction with IIW.

Dr. Zheng Sun

Dr. Sun obtained his B.Eng (1984), M.Eng (1987) and D.Sc (Tech) (1992) from Tsinghua University, Harbin Institute of Technology and Lappeenranta University of Technology, respectively. Dr Sun has devoted over three decades to developing, applying, and promoting welding science and technology in university, industry, and research institution environments.



He has made outstanding contributions in several areas such as stainless steel weldability studies, welding & cladding for pressure vessel fabrications and laser & electron beam welding of dissimilar metals.

Dr Sun has over 120 publications in journals, book chapters and conference proceedings. He was the recipient of the 1995 Singapore National Technology Award for contributions in marine repair processes using electron beam technology. He is currently a Deputy Director at the Singapore Institute of Manufacturing Technology and the President of the Singapore Welding Society (SWS).

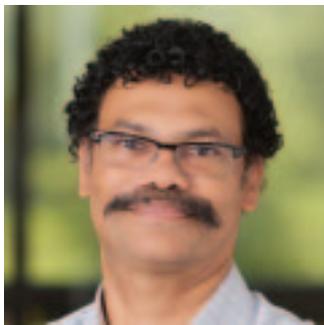




ARTHUR SMITH AWARD

Sponsored by the United Kingdom Delegation

Conferred upon an individual who, over numerous years, has given dedicated service to the objectives of IIW, particularly in the work of the Commissions



Dr. Warren Miglietti

Dr. Warren Miglietti is currently the President of Miglietti and Associates, LLC a consulting company and Principal Engineer at the Prince and Izant Company. Prior to this he was Director of Repair Technology at ProEnergy, Principal Engineer at the Reconditioning/Repair departments at PSM-Alstom, Lead Engineer at GE Energy and both component repair and process engineer at Sermatech International. His principal responsibility is the development of novel repair techniques and processes for components, operating in advanced land-based gas turbine engines. He has 34 years of experience and expertise in the Welding, Brazing, FIC, Acid Stripping and Heat Treatment of Nickel & Cobalt base superalloys, as well as Titanium, Aluminum and Stainless Steels.

Since University graduation (B.Sc. & M.Sc. from University of Natal-South Africa and Ph.D. from University of Pretoria-South Africa) Warren's career has focused on developing repair techniques and processes for turbomachinery components for industrial, aircraft and aero-derivative components.

Warren supported the international community as chairman of Commission XVII – “Brazing, Soldering and Diffusion Bonding” of the International Institute of Welding (IIW). He was past chairman of the Manufacturing, Materials and Metallurgy Committee of IGTI/ASME. He has also authored/co-authored the publication of 47 technical papers and has 13 technology patents granted. He was some awards from the AWS, ASME/IGTI and IIW, including a few Best Paper Awards.



CHRIS SMALLBONE AWARD

Sponsored by IIW Member Societies from Bulgaria, Greece, Romania, Slovenja and Serbia

Conferred on an outstanding individual who has made a significant contribution to improve the global quality of life through optimum use and innovation of welding and joining technologies in their region and internationally



Mr. Dan Tadic

Dan Tadic joined the CWB Group in 2009 as Executive Director of the CWB Association. He traveled extensively across Canada promoting welding careers to students. During his eleven-year tenure, the Association thrived with significant growth in membership, established annual conferences: CanWeld for industry and Educators Conference for teachers, developed trades promotions programs, etc.

Dan especially enjoyed travelling to annual IIW Assemblies and loved the networking aspect of these events. Since 2010 he was actively involved with WG-RA and became its Chair from 2017-2020. Working with many industry colleagues and contacts a joint Association/IIW Congress was held in 2014 with a "Welding in the Arctic theme".

Dan is grateful to have been a liaison with industry, education and government. For nearly 50 years, he has worked to improve the quality of life through welding education and industry events.





THOMAS MEDAL

Sponsored by the American Welding Society

Rewards an individual who has been involved in IIW/ISO international standards activities and can deliver a lecture on the incorporation of global studies into the standardisation for welding technologies



Mr. Bruce Cannon

Bruce graduated with a Bachelor of Applied Science (Metallurgy) from what is now the Federation University in 1977, commencing at Al&S's Port Kembla steelworks in 1977. He held positions in mechanical testing, metallography, and marketing, before joining the welding group in 1985.

In 1993, Bruce was seconded to the Welding Technology Institute of Australia as its Welding Engineer, providing technical support to the welding industry, revision of the WTIA's Technical Notes, facilitation of seminars, training programmes and conferences, and representing the WTIA on national Standards committees.

Bruce re-joined BHP Steel in July 1995, and continued to provide welding engineering support to their mills and customers in Australia and internationally, and, presented lectures to post graduate welding engineering students at the University of Wollongong.

In April 2001, Standards Australia invited him to chair its Committee on structural steel welding, and joined the WTIA's Education Board in October.

In May 2003, Bruce was awarded his Diploma as an International Welding Engineer.

Bruce retired from BlueScope (formerly BHP Steel) in November 2015 before taking up his current position with the WTIA (now Weld Australia) as Technical Publication Manager, working in roles including representing the interests of the Australian welding industry on national and ISO standards committees, revising its technical notes and authoring new technical documents to support local industry.

His interests include brass bands and he is an accredited swimming referee.

Born in 1955 in Melbourne, he married Anne in 1987 and they have four adult children.



HALIL KAYA GEDIK AWARD

Sponsored by the Turkish Delegation



Recognises a scientist or engineer's significant contributions to the advancement
welding science and technology

Mr. Tomoyuke Ueyama

After graduating from Graduate School of Welding Engineering, Osaka University in 1987, Dr. Ueyama joined DAIHEN Corporation and started his career in the R&D division, engaging in research on arc welding process with digital and inverter control technology. These results has been adopted at various welding field and contribute to the advance of manufactureing in the world. In 2006, he received PhD (Engineering) from Osaka University. Currently, he is a senior executive officer of Daihen Corporation. He was also a member of board directors of Japan Welding Society from 2010 to 2019, during this period he served as Vice Chairman.



He has participated twelve IIW annual assemblies and three intermediate meetings of IIW C-XII and SG212 as a national delegate since 1993. He has also contributed to the operation of two intermediate meetings of C-XII (2008 and 2018) as a representative of host company, and preparing annual assembly in Osaka (2004) as an organizing committee member. Currently he is working for preparation of annual assembly in Tokyo (2022) as a technical program and advertising committee member.



HENRY GRANJON CAT. A AWARD

Sponsored by the France Delegation
CATEGORY A: Joining and Fabrication Technology

In recognition of his outstanding research paper
'Full Decoupling Control of Metal Transfer in GMAW'



Dr. Jun Xiao

Dr. Jun Xiao conducted his PhD research aiming at decoupling the heat and mass transfer to achieve current-independent metal transfer in GMAW process, at the Harbin Institute of Technology, China and the Welding Laboratory of University of Kentucky, USA, as a visiting student.

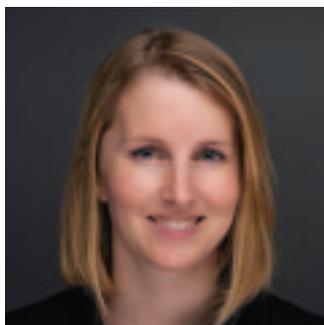
After receiving his Phd degree from Harbin Institute of Technology in 2014, he joined the welding research institute at Beijing University of Technology where he had won grants as PI to continue his research on the metal transfer topic and other innovative welding/additive manufacturing processes characterized by novel precise control of heat and force input.



HENRY GRANJON CAT. B AWARD

Sponsored by the France Delegation
CATEGORY B: Materials Behaviour and Weldability

In recognition of his outstanding research paper
'Hybrid Friction Eutectic Bonding (HFEB) of aluminium and copper'



Mrs. Anna Regensburg

Starting my academic and professional career as a research associate at Ilmenau University of technology, I specialized in solid state welding technologies like ultrasonic and friction stir welding. Together with Prof. Jean Pierre Bergmann and my team, I successfully worked on several research projects as well as international and national publications, mostly for e-mobility applications. In 2018, I started my industrial career at Robert Bosch GmbH and have since then worked in technology development for braking and driver assistance systems as well as in production planning. In my current position as assistance of the technical plant manager, I am focusing on the digital transformation in manufacturing.



HENRY GRANJON CAT. C AWARD

Sponsored by the France Delegation
CATEGORY C: Design and Structural Integrity



In recognition of his outstanding research paper
'A Novel Approach to Prediction of Welding Residual Stress and Distortion'

Dr. Mitchell R. Grams

Mitchell obtained a PhD in Materials Engineering (2021) from the University of Alberta, following the completion of a BSc in Mechanical Engineering (2015).

His thesis research focused on the development of predictive expressions for welding residual stress and distortion. Mitchell is currently an industrial post-doctoral researcher at the Canadian Centre for Welding at Joining (CCWJ), in partnership with the welding and manufacturing company, Apollo-Clad Laser Cladding.

His current work is focused on combining state-of-the-art experimental and analytical modelling techniques to optimize catchment efficiency in powder-fed coaxial laser cladding.



THE HOUDREMONT LECTURE AND LECTURER

The Houdremont Lecture and lecturer is the introductory
lecture of the IIW International Conference.



In 2022 the Houdremont Lecturer is awarded to Dr. Eng. Eisaku Ito with the keynote lecture
"Initiatives of Mitsubishi Heavy Industries Group for Energy Transition"
at the International Conference in Tokyo 2022

Dr. Eng. Eisaku Ito

Eisaku Ito joined Mitsubishi Heavy Industries, Ltd in 1987 and started as a turbine aerodynamics researcher/engineer in the Turbomachinery Laboratory at Takasago R&D Center. He joined the more than 20 design teams of GTs including D, F, G, H and J as well as several GTs used in Japanese self-defense ministry. He has led MHI's GT R&D activities for about 20 years. He led 1700 degrees C GT technology development since 2004. He received the Industrial Gas Turbine Technology Award at Turbo-Expo 2017. His current title is Executive Vice President, CTO of MHI.





GUERRERA PRICE

Sponsored by the Italian Institute of Welding Award

Recognises an individual or team responsible for fabrication of an outstanding recently completed welded construction from the viewpoints of design, materials or fabrication methods. The Ugo Guerrera Prize 2022 is awarded to Professor Zhang Jinwen Representing the Engineering team of the outstanding "Hong Kong Zhuhai Macao Bridge".



Dr. Zhang Jinwen

Dr. Zhang Jinwen, Professor. Academic background of "Highway, Bridge and Tunnel Engineering" and "Project Management". He received his Ph.D. degrees in Civil Engineering from Central South University of China. He has more than 20 years of practical experience in Mega-projects construction.

From 2004 to 2020, he participated in the Hong Kong-Zhuhai-Macao Bridge as one of the core team members, took the lead in the whole Project Management and was responsible for long steel bridge, artificial island and immersed tunnel construction management. He led the team completed the manufacturing and installation of 425,000 tons of steel girders and steel towers for 22.9 km bridges with high quality and efficiency. He successfully planned and designed the first automatic welding and assembly production line of steel structure for bridges in China.

Since 2020, he has been the Dean of the School of Civil Engineering and Management of Guangzhou Maritime University/ Guangzhou Jiaotong University (Preparatory).



WELDING IN THE WORLD BEST PAPER AWARD

Sponsored by the IIW



Category A: Welding Processes and Additive Manufacturing [In recognition of his outstanding research paper 'Influence of shielding gas nozzle design on power density distribution in lowcurrent TIG welding arcs'](#)

F. Pixner, R. Buzolin, S. Schoenfelder, D. Theuermann, F. Warchomicka, N. Enzinger

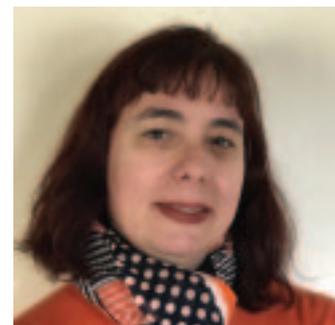
Florian Pixner obtained his bachelor's and master's degrees in mechanical engineering and business economics from the Graz University of Technology in Austria. Since 2018, he is working on and currently finishing his PhD under the supervision of Professor Norbert Enzinger in the field of wire-based additive manufacturing using arc and beam welding techniques. His primary research interests include additive manufacturing, welding, in-situ process monitoring, metallurgy and alloy design for filler metals for additive manufacturing. He holds an IWE diploma and has been actively contributing to the IIW Committees C-I, C-IV, and C-IX for several years. He is a member of the Austrian Society for Metallurgy and Materials (ASMET) and the Austrian Society of Welding (ÖGS).



Category B: Materials and Metallurgy [In recognition of his outstanding research paper 'influence of welding stresses on relief cracking during heat treatment of a creep-resistant 13crmov steel part ii: mechanisms of stress relief cracking during pwht'](#)

A. Valiente Bernejo, K. T. Pandian, B. Axelsson, E. Harati, A. Kisielewicz, L. Karlsson

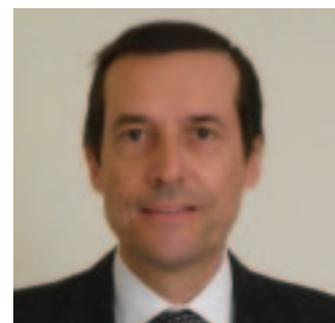
Asun Valiente is a senior lecturer and researcher in the Division of Welding Technology at University West in Sweden. She got her Ph.D. in Materials Science and Metallurgical Engineering at the University of Barcelona. For that research, she was awarded the Henry Granjon prize in 2012. She also has a Master in Welding and a diploma as International Welding Engineer with 10 years' experience in the welding industry. Her main field of research is the metallurgy of welding and additive manufacturing of stainless steels, where she has more than 20 journal papers published.



Category C: Structural Integrity, Design and Fitness for Service [In recognition of his outstanding research paper 'increased accuracy of calculated fatigue resistance of welds through consideration of the statistical size effect within the notch stress concept'](#)

G. Meneghetti, A. Campagnolo, S. Masaggia

Giovanni Meneghetti is full professor of Machine Design at the Department of Industrial Engineering of the University of Padova, where he teaches Mechanics of Materials and Design of Mechanical Systems at the Undergraduate and Master courses in Mechanical Engineering. His research interests are on local approaches for structural durability analysis of mechanical components, with particular reference to fatigue design of welded structures, experimental analysis of strains and in-field load data acquisition. He is Expert Member of Commission XIII (Fatigue Behaviour of Welded Components and Structures) of the International Institute of Welding since 2008. He is author of more than 200 scientific publications, with contributions in high impact journals and international conferences.

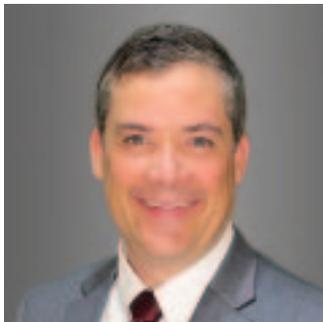




ANDRÈ LEROY PRIZE

Sponsored by the French Institute of Welding

For the contribution to scientific and/or technical training or teaching, welding processes or allied processes, the quality control of welded joints or of the results of the application of allied processes; problems raised by the behavior of materials and welded construction
The Andrè Leroy Prize is awarded to Dr Nick Peterson



Dr. Nick Peterson

Nick Peterson has worked for Miller Electric Mfg. LLC. since early 2000 and is the administrator for Miller OpenBook. He has re-edited all of Miller's training booklets and helped develop and administers Miller OpenBook® a Free LMS platform for welding education after having been a Miller District Sales Manager in Arizona.

Nick represented the USA in Taipei, Taiwan at the WorldSkills Welding Competition and was awarded a Bronze Medal in 1993. That event awarded Nick a \$40,000 scholarship from Miller Electric to earn a Welding Engineering Degree from Ferris State University in 1998. Nick has worked as a welder since 1990 and was most recently elected to the American Welding Society Board of Directors as a Director at Large for the 2022 to 2024 term.

Nick serves on SkillsUSA's National welding technical committee and is Vice Chair for the AWS WorldSkills Competition Committee, and a member of the AWS Education, AWS Professional Development and The AWS Foundation Grants Committees. Nick recently set aside teaching evening classes at Arizona State University to have more time for AWS responsibilities. Nick is also a Director, Treasurer, and Corporate Secretary for Nocti Business Solutions a professional assessment company located in Michigan, USA.

2022
IIW AWARDS

A WORLD OF JOINING EXPERIENCE

Presented to

David Fink

30 years

Mathias Lundin

20 years

Inderpal S. Jaswal

10 years

Patricio F. Mendez

10 years

Prof. Dr. Ir. Jacob Wardenier

20 years

Dr. Sorin Keller

20 years

Michinori Okubo

10 years

2021
IIW AWARDS

A WORLD OF JOINING EXPERIENCE

Presented to

Posh Gerhard

'Arc welding and Filler Metals'
(2012 - 2021)

Tanaka Manabu

'The Physics of Welding'
(2012- 2021)

Fumiyoshi Minami

'Structural performance of welded joints – Fracture avoidance'
(2012 - 2021)

IIW MISSION

To advance welding and joining through a worldwide network

IIW VISION

The leading global community linking industry, research and education to the advancement of welding and joining for a safer and sustainable world



INTERNATIONAL INSTITUTE OF WELDING
A world of joining experience

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