

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







At this Opening Ceremony of the 74th IIW online Annual Assembly of the International Institute of Welding (IIW) is honoring the winners of this year's prestigious IIW 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 IIW Working Units, illustrious careers in the industry or academia, contributions to global advancement and meritorious service to IIW.

At this 74th IIW online Annual Assembly, IIW Annual Awards acknowledge not only people with outstanding accomplishments or technical achievements, illustrious careers or long and meritorious service to the IIW 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 IIW 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 IIW 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 74th IIW 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.

____2021____ IIW AWARDS







Prof. Bruno de Meester



Dr. Arun Kumar Bhaduri



Dr. Murali Tumuluru



Dr. Vincent Van Der Mee



Dr. Lars Johansson



Prof. Gary Marquis



Prof. Michael Gehde



Dr. Ang Chee Pheng



Dr. Walter Sperko



Dr. Américo Scotti



Mr. Carl Peters



Dr. Zongyao Chen



Dr. Mayhar Asadi



Dr. Zhili Feng and his Team



Dr. Stephan Egerland



Dr. Arne Kromm



Mr. Andreas Deinböck

TABLE OF CONTENTS

2021 Awards for Career Achievements and Contributions to IIW / Pages 4 – 10 WALTER EDSTRÖM MEDAL, FELLOW OF IIW, ARTHUR SMITH AWARD, EVGENY PATON AWARD, CHRIS SMALLBONE AWARD, and THOMAS MEDAL

2021 Awards for Outstanding Technical Achievement / Pages 11 – 15
YOSHIAKI ARATA AWARD, HALIL KAYA GEDIK AWARD,
HENRY GRANJON CAT. A e CAT. C AWARD,
HEINZ SOSSENHEIMER SOFTWARE INNOVATION AWARD and
WELDING IN THE WORLD BEST PAPER AWARD

2021- 2020 A world of joining experience / Pages 16



WALTER EDSTRÖM MEDAL

Sponsored by the Swedish Delegation



Lauds an individual who has demonstrated outstanding leadership and contributions to the advancement of the IIW as an organisation

Mr. Christian Ahrens.

Education and Training in Welding is the most important part of the professional career of Christian Ahrens. Already during his activity in DVS he has been active as Chairman of the German Examination Board and Chairman of the Working Group for Welding Engineers Education. Since his first participation in an IIW Annual Assembly in 1992 in Madrid he transferred this passion into Commission XIV, Education and Training. As German delegate and member of EWF and IIW he developed together with colleagues and mainly with the IIW/EWF management team the IIW Authorisation, Examination, Qualification, and Certification system and took over responsibility as active person in relevant commissions and Working Groups, like



- Chairman of Commission "Authorisation, Examination, and Qualification C VII", 1995 -2000
- Member of IAB Working Group A "Education, Training and Qualification", 2000 - 2021
- Chairman of IAB Working Group A "Education, Training and Qualification", 2000 - 2011
- Chairman of IAB Working Group A#2a/2b "Engineer/Technologist/Specialist/ Practitioner Guidelines", 2000 - 2012
- Member of IAB Working Group B "Implementation, Authorisation and Certification", 2000 - 2020
- Chairman of IAB Working Group B#1 Rules and Ops", 2011 2018
- Member of the International Authorisation Board IAB, 2000 2020
- Chairman of the International Authorisation Board IAB, 2017 2020
- Peer Assessor, 1997 2009
- Lead Assessor, 2009 2021
- Distance learning Assessor, 2006 2021.

During the period of his activity a lot of international harmonised guidelines have been developed in IAB and nearly 200.000 diplomas and certificates have been issued. Christian Ahrens has also given strong support to different member societies of IIW to set up and execute their own national education and training system based on IIW rules, e.g. for the P.R. of China, for the Republic of Korea, and for Tunisia. Outside of IIW he assisted the training of people in Egypt, Taiwan, Ethiopia, Iran, India, Estonia, and Mongolia according to IIW rules and procedures.







FELLOW OF THE HW 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. Bruno de Meester

Professor Bruno de Meester earned his PhD in Metallurgical Engineering at the University of Kentucky (USA) in 1972. He joined then the Mechanical Engineering Department at the Ecole Polytechnique, Université Catholique de Louvain (Belgium), was promoted to Professor in 1989 and has been responsible of the Manufacturing Processes Laboratory.

He has contributed to IIW in both technical and leadership roles for over 40 years. His involvement began in 1975 as a member of IIW Commission IX, Behaviour of Metals Subjected to Welding. He served as Vice Chairman of Commission IX from 1987 to 1993 and then as Chair from 1994 to 2005. He has also served terms on the Technical Management Board (2001-2008) and the Board of Directors (2004-2007), and as an IIW Vice President (2008-2011).

In 2008, he volunteered to serve as Editor of Welding in the World. Through his leadership and with the collaboration of his co-Editors, the journal was granted SCI status in 2010 and has now grown to be the world's leading journal associated with materials joining and allied technologies.



Prof. Arun Kumar Bhaduri

Dr. Arun Kumar Bhaduri, a B. Tech. (1983) and PhD (1992) in Metallurgical Engineering from Indian Institute of Technology, Kharagpur, is with Indira Gandhi Centre for Atomic Research, Kalpakkam, India since 1984 where he is presently Distinguished Scientist & Director, and also Senior Professor of Homi Bhabha National Institute (University). He was a Research Fellow of Alexander von Humboldt Foundation, Germany at the Materialprüfungsanstalt, University of Stuttgart, Germany (1994-1995). He anchors the development of materials and their fabrication technologies for Indian programmes on sodium-cooled fast reactors, fusion reactors and advanced ultra supercritical thermal power. He specializes in the field of materials joining, and has to his credit more than 280 journal publications, 415 conference presentations and 2 international patents. He was President, Indian Institute of Welding (2017-2019). At the International Institute of Welding, he has been actively participating in Commissions II, IX and also V since 2005, has been on the Technical Management Board (2007-2010) and Board of Directors (2016-2019), and is presently Vice-Chairman, Commission II (since 2014) and Member, Editorial Board, Welding in the World (since 2008).



Dr. Murali Tumurulu

Murali Tumuluru is a Senior Welding Consultant with more than thirty years of experience in welding research. He spent over twenty years in the steel industry working on weldability of high strength steels.

He has done pioneering research to understand the weldability, fracture behavior, how to successfully weld the Advanced High Strength Steels (AHSS), and has helped with the implementation of Generation 1 and Generation 3 AHSS steel grades in the automotive industry. He has published widely on the subject of weldability of these steels, and has given numerous invited presentations and educational seminars. He holds degrees from Rensselaer Polytechnic Institute and The Ohio State University in Materials and Welding engineering. Since leaving the steel industry, he has been consulting in the field.



Tumuluru has been an active member of Commission III, and now serves as the Co-Chair of Commission IIIA. He is a Principal Reviewer for Welding in the World. He has received numerous awards for his research from the American Welding Society (AWS), some of which include the James F. Lincoln Gold Medal Award (twice), AF Davis Silver Medal Award, Elihu Thomson Medal Award for Outstanding Sustained Contributions to the Advancement of Resistance Welding, and the William Irrgang Medal Award for doing the most to enhance AWS goal of advancing the science and technology of welding over the last five years. Tumuluru is a fellow of the AWS.

Dr. Vincent Van Der Mee

Vincent van der Mee is Director Consumables Research & Development & Industrialization for Lincoln Electric Europe. He graduated in Analytical Chemistry and has been active in the welding industry for almost 45 years, focused on development and application of welding consumables. He holds several patents related to welding consumables.

He has been in IIW for over 25 years in Commissions II, Arc Welding and Filler Metals, Commission IX, Behavior of Metals Subjected to Welding, and C-VIII Health, Safety and Environment. From 2003 to 2012, he served as the Chair of Commission II. He has numerous publications in refereed journals and conference proceedings. Most of these publications address consumables development and application for a wide range of structural metals including duplex stainless steels, nickel alloys, and carbon and low alloy steels. As chair of Commission II, he led the development of standards related to consumables.

He actively promoted the application, development and dissemination of knowledge in welding technology, both in national and international context. He has received the Jaeger Award (2014) from NIL and the Thomas Medal (2020) from IIW.









Dr. Lars Johansson

Mr Lars Johansson (Sweden) graduated in Engineering Physics, MSc, at Uppsala University 1983. He started his professional career in welding technology as head of development laboratory for automatic welding equipment at Esab in Laxå. From 1988 until his retirement 2016 he has worked for the Swedish Welding Commission, SWC, where he has held positions as technical manager and as CEO. He was also CEO and publisher of the welding magazine Svetsen.

Major achievements during his employment at SWC has been implementation of the International Welding Education system in Sweden with more than 80 ATBs and initiation and planning of a Welding Research Centre in Sweden (established 1998).

Mr Johansson was active in IIW for nearly 30 years and has been head of the Swedish IIW delegation for many years. He has been delegate in Commission XIV, SG RES and IAB. He was chairman of IAB WGA3a (welders education) from 2009 until his retirement.

Mr Johansson has received the following prestigious awards; The IIW Kaya Gedik Award 2014, The Kjellberg Medal in gold 2019.

_ 7



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

Prof. Gary Marquis

Professor Gary Marquis joined the IIW as a delegate to Commission XIII in 2000 and was Commission Chair 2006-2014. He was elected to the TMB in 2008 where he served for six years including three years as Chair. He was IIW President 2014-2017 and Treasurer 2019-2020. As TMB Chair he worked to clarify the strategies, industry relevance and procedures of IIW technical working units. He was involved in the partnership agreement made with Springer to publish Welding in the World and worked with the editors to develop early peer review procedures.



EVGENY PATON AWARD

Sponsored by the Ukraine Delegation



For the significant contribution to science and technology, applied research and development in the field of advanced technologies, materials and equipment for welding and allied processe

Prof. Michael Gehde

Prof. Dr.-Ing. Michael Gehde studied mechanical engineering at the Gh-Kassel University. After this he became a research assistant at the Institute of Materials Engineering at the same university, as well as at the Chair of Plastics Engineering at the University of Erlangen-Nuremberg. After finishing his PhD thesis in 1993 and working as a senior engineer in Erlangen-Nuremberg, Prof. Gehde joined Wegener GmbH in 1995 as technical director and from 1997 till 2004 as managing director technique and partner. In 2004 he founded the engineering office 'Ingenieurtechnik Gehde'. In 2005, Prof. Gehde became head of the W3 professorship for plastics at the Chemnitz University of Technology and subsequently university professor in 2006. In 2017, he also took over the management of the Institute for Materials Handling and Plastics at the Chemnitz University of Technology. On his way Prof. Gehde accompanied numerous scientific activities among others as honorary member of the AWS, organizer of the Technomer conference, board member of the WAK, member of the review board 401-04 of the DFG and member of the editorial board of the journal 'Joining Plastics'.









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 improving the global quality of life through optimum use and innovation of welding and joining technologies in their region or internationally



Mr. Ang Chee Pheng

Mr. Ang Chee Pheng Past President of the Singapore Welding Society (SWS), year 2000 - 2012. In this voluntary role, he has led SWS from a local organization to one with regional and, international repute. He was a founder member of the Asian Welding Federation (AWF) in 2004 with a membership of 13 Asian countries. His personal vision of aligning the welding fraternities of the world in creating a better place for all is part of the reason for his active involvement in the Asian Welding Federation. In the pursuit of this specific aim, he worked with the government agencies of member countries of the AWF to help provide affordable training to unemployed youths so that they may become certified welders, enter the workforce, and, in the process, reduce unemployment and poverty. Another of his significant objective was to bring the Asian views on matters of welding to the world body – the International Institute of Welding (IIW). As not all Asian countries are represented in IIW, it is the intent to leverage on the AWF forum to link Asia to IIW, aligning the purposes and objectives of both organizations in the process.

In the IIW, Chee Pheng has actively contributed to the organization. He has served as a member of the IIW Board, two terms as Vice President, member of the IAB Board, Chair of the 2009 IIW Annual Assembly and International Conference, Chair of an IIW International Welding Congress, and active member of the Regional Activity Work Group. He has also progressed SWS to ANB status. His attendance at IIW Annual Assemblies and meetings in Paris has been exemplary and on a personal voluntary basis. Chee Pheng started at Shell in 1973 as a young junior graduate engineer and has progressed from that position to be a member of the Regional Leadership Team. He retired as the Regional Manager, a position that calls on his expertise and guidance to support all manufacturing sites at Shell in meeting the company's production commitments to the business. He oversaw in particular the reliable and LEAN performance of refineries and chemical plants in the East. Chee Pheng has seen operations in Brunei, serving at the largest Shell LNG plant in the world at that time. It was there that he learned the metallurgy of materials and the association with the technologies of welding. Being in a remote area and with no close technical support at that time, Chee Pheng was relied upon to put his academic training to real use. He learned fast to understand failure mechanisms at a young age. From a gas facility, he was sent to Shell's largest primary refinery, the Shell Pulau Bukom Refinery, where his experiences in welding, materials science, metallurgy, failure analysis and, above all, management skills were put to good use. He spent 10 years there before he was seconded to Shell's first chemical plant in the East at Jurona Island, Singapore. After a short spell in the construction of this plant, Chee Pheng was promoted into the site leadership position as the Engineering Manager. His career at Shell has trained him to work effectively with many nationalities and cultures, and has given him invaluable life experiences that he is able to apply for the betterment of his surroundings. He has been recognized many times by his employer with career advancement, and also with global recognition awards from time to time. After his retirement from Shell, he was appointed as Executive Chairman of iMOS Holdings Pte Ltd a company that he has helped to form since 2001. The main preoccupation of iMOS is to provide managerial and administrative support to SWS and AWF in the delivery of the AWF Common Welder Certification Scheme.



THOMAS MEDAL

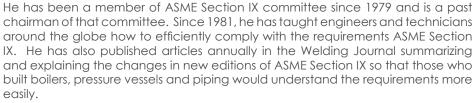
Sponsored by the American Welding Society



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. Walter Sperko

Walter J. Sperko, P.E., has a BS in Metallurgical Engineering from the University of Notre Dame and has worked in the welding industry since 1969. At the suggestion of Glenn Ziegenfuss, he volunteered in 1995 to be an ISO observer to CEN/TC 121/SC 2. His task was to align the US and ISO/CEN materials grouping systems. That goal was achieved with the publication of ISO/TR 15608 in 2005. Since then he has attended meetings of ISO TC44 and many of its Subgroups representing ANSI as Technical Expert and HOD. He played a major role in alignment of ISO 9606-1:2012 and ISO 14732:2012 with the personnel qualification requirements of ASME Section IX. He was also instrumental in getting the Vienna Agreement changed from CEN-lead to ISO-lead; as a result, all revisions and most projects in ISO TC44 today are ISO-lead. He is chairman of TC44 SC11 on personnel qualification and TC44 SC10 WG5 on qualification of welding procedures.



He continues to seek common ground between CEN, ISO and US standards to bring those standards closer together.









YOSHIAKI ARATA AWARD

Sponsored by the Japanese Delegation

To an individual whose outstanding achievements in fundamental research in welding-related science and technology have been recognised as significant contributions to the progress of welding engineering



Prof. Américo Scotti.

BSc and MSc in Mechanical Engineer (Brazil) and PhD in Welding Technology (Cranfield University, UK). Involved with welding since 1981, working for universities, as well as 2 years in an industry research center (Praxair). He got a yearly retirement as full professor at Federal University of Uberlandia (Brazil), where he was the scientific coordinator of the Center for Research and Development of Welding Processes. He has been for the last 6 years serving as professor at University West (Sweden). Supervised several students and published several articles in specialized journals. He held position as Director of the Brazilian Welding Society and a seat in the executive council of the Brazilian ANB, as well as in the TMB and BoD of the IIW. He served as chair of the SG-RES for 2 terms and at the moment he is one of the WitW EinCs.



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. Carl Peters.

He earned an Industrial Engineering degree from Penn State University and joined The Lincoln Electric Co. where he was employed for 41 years. During his career Carl has covered a variety of fields, often related with Education and training activities, from Factory sales Manager to District sales Manager, Director of Motorsports Marketing, Welding School Manager and Director of Global Education. He was the Managing Director of the James F. Lincoln Foundation, Chair of the AWS Education and Scholarship committee, Global Industry Partner for WorldSkills International. In the IIW, Carl was a Member of the Technical Management Board and is currently the Chair of Commission XIV on Education and Training.



HENRY GRANJON CAT. A AWARD

Sponsored by the France Delegation CATEGORY A: Joining and fabrication technology

In recognition of his outstanding research paper 'Intelligent Welding: PenetrationPrediction and Controlthrough Multi-source

Dr. Zongyao Chen

VisualSensingand Deep Machine Learning based Decision Making'

Dr. Zongyao Chen is a research scientist in advance fabrication center of American Air Liquide. He earned his B.S and M.S. in Electrical Engineering from Shanghai Jiao Tong University. He received his Ph.D. in Mechanical Engineer from the University of Tennessee, Knoxville. During his Ph.D. study, he worked in the welding and joining research group at Oak Ridge National Laboratory and focused on applying machine learning and computer vision technology to welding automation. He designed a new algorithm for real time welding defect detection based on Reversed Electrode Image. And the method was applied on both single-pass and multi-pass GTAW process. His Ph.D. work has been published in several peer reviewed journal papers and a monograph. His current research interest includes robotics, computer vision and machine learning applications in welding industry.









HENRY GRANJON CAT. C AWARD

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

In recognition of his outstanding research paper 'Machine-learning-enabled digital twin of welded structures for rapid weld sequence design'



Dr. Mayhar Asadi,

Mahyar is a professional with a high-profile education and work experience in advanced welding engineering, focusing on cyber-manufacturing using machine learning, digital twins, and simulation tools for welding processes, products, and design.

His education consists of a B.Sc. in Materials Engineering, M.Sc. in Welding Engineering, and Ph.D. in Computational Weld Mechanics with the distinguished professor John Goldak. His portfolio includes Professional Engineering Licence (Canada), IWE designation, ASME FFS, Digital Twins, and Machine Learning Certificates. He is also an adjunct professor in the Manufacturing Program at the University of British Columbia with a recognized teaching course, "Welding and Joining of Materials," and research.

Mahyar currently is the manager of advanced welding engineering at Applust-Canada to provide innovation-based business development and industrial R&D. He has collected significant awards in the field of welding from the Canadian Welding Bureau Association, American Society of Mechanical Engineers, Industrial Research Assistant Program, Build in Canada Innovation Program, and the Natural Sciences and Engineering Research Council of Canada. He has over 100 publications as journal papers, conference proceedings, magazine articles, ASM handbook chapters, and patents. www.mahyarasadi.com.



HEINZ SOSSENHEIMER SOFTWARE INNOVATION AWARD

Sponsored by the German Delegation



In recognition of his outstanding software development 'dr-weld: a high-performance computational code for high-fidelity welding and 3d printing simulation'

Dr. Zhili Feng and his Team

Dr. Zhili Feng is Group Leader of Materials Joining and a Distinguished R&D Staff Member at Oak Ridge National Laboratory where he manages multidisciplinary teams to advance materials joining and manufacturing science and technologies for automotive, nuclear energy, fossil energy, hydrogen energy, and defense applications. He is Fellow of International Institute of Welding, and Fellow of American Welding Society. Additional, Dr. Feng is Joint Faculty Professor of Tennessee-Knoxville, and Guest Professor of Tsinghua University, China. Dr. Feng has over 200 publications and 9 patents.



Dr. Hui Huang is a R&D Research Associate at Oak Ridge National Laboratory. He has over 10 years of experience in high-performance computing of welding mechanics by developing novel codes and leveraging commercial software. His current research interests include ultrasonic welding and additive manufacturing modeling. He published 27 peer reviewed journals and gave more than 25 talks on welding stress and distortion. Dr. Huang received his Ph.D degree from Osaka University, Japan in 2016.

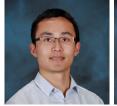
Dr. Jian Chen is a R&D Staff in Materials Joining Group at Oak Ridge National Laboratory. He leads and supports a variety of fundamental and applied research and technology innovations sponsored by government agencies and industries. He has significant experience in developing advanced materials technologies and the associated monitoring, control, and simulation technologies.

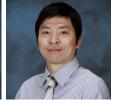
Blair Carlson is currently Lab Group Manager for the Light Weight Systems Manufacturing group and a Senior Technical Fellow at the GM Global R&D. His current focus is the joining of dissimilar materials. He holds a Ph.D. in Materials Science from the University of Michigan, and a Masters in Executive Technology Planning from Chalmers University. He has contributed to 58 patents & 20 applications (with 15 in production), co-authored 113 peer-reviewed journal publications and is a member of the AWS R&D Committee.

Dr. Hui-Ping Wang is a Technical Fellow at GM Global R&D Center. Her research work spans from numerical simulation of welding physics and manufacturing processes to experimental methods for manufacturing process development. She has over 90 peer-reviewed research publications, 12 granted patents, more than 20 GM internal intellectual properties in production and won 3 times GM Boss Kettering Award. Dr. Wang received her PhD degree from The University of Iowa and is an associate editor of Journal of Materials Processina Technology.

Dr. Wayne Cai is a Staff Researcher at General Motors Global R&D Center in Warren, Michigan, USA. His research area is in joining and assembly where mechanics, materials, and mathematics (statistics) are used to predict, optimize, monitor & control manufacturing processes and systems for improved quality, reliability and reduced cost. He co-authored over 90 peer-reviewed research papers and had more than 30 US and international patents and a number of GM trade-secrets inventions. Dr. Cai received his Ph.D. degree from The University of Michigan and is a Fellow of ASME

Greg Frederick is the Program Manager of the Welding & Repair Technology Center (WRTC) at the Electric Power Research Institute (EPRI) in Charlotte, North Carolina. The WRTC program develops and tests advanced materials, joining, and repair technologies for nuclear plant applications, supporting the implementation of safe, effective welding and repair/replacement technologies. Mr. Frederick received his B.S. degree at The Ohio State University, and co-authored numerous technical guidelines, research papers, and has more than 16 US and international patents related to welding processes, material development, and welding methodologies.















Jon Tatman is a Senior Technical Leader in the Welding and Repair Technology Center at the Electric Power Research Institute (EPRI). He obtained his M.S. degree from the Ohio State University Welding Engineering program in 2008. His first engineering position was with Bettis Atomic Power Laboratory in Pittsburgh, PA; where he performed various R&D and emergent repair efforts for the Naval Nuclear Propulsion Program. He then joined the Electric Power Research Institute in 2011, where he now performs engineering R&D for the nuclear power industry and leads the research focus areas on optimization of repair processes and development of advanced welding techniques for reactor internal repairs.







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 low-current TIG welding arcs'



Dr. Stephan Egerland

Stephan ignited his first welding arc on November 25, 1980. Instantaneously hooked on welding since then, he worked as an arc welder across various industrial segments. He got approved DVS Certified Welding Educator in 1988 and graduated European Welding Specialist in 1989. Holding an MSc in Welding Engineering of Cranfield University UK, and passionate devoted to arc welding physics; his PhD Thesis dealt with 'Split Anode Calorimetry of Low Current TIG Arcs'. A Chartered Engineer of United Kingdom's Engineering Society and Senior Member of TWI he serves as Austrian delegate to IIW WU C-XII and active Chair of IIW WU C-XII-B (Welding Processes) since 2010. In addition, he feels privileged to serve as appointed Associate Editor of IIW's flagship journal 'Welding in the World' and as a member of its Editorial Board.

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'



Dr. Arne Kromm

Dr.-Ing. Arne Kromm has been a research associate in the Weld Mechanics division of German Bundesanstalt für Materialforschung und -prüfung (BAM) in Berlin since 2006, where he is responsible for residual stress analysis as well as weldability tests. He studied mechanical engineering with a focus on materials at the Technical University of Berlin. In 2011, he earned his doctorate from Otto-von-Guericke-University Magdeburg with the topic: "Phase transformations and residual stresses when welding LTT alloys". He received the IIW Henry Granjon Award 2011 in the field of "Materials Behaviour and Weldability". Arne Kromm has been an active member of the IIW Commissions II and IX since 2007.

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'



Mr. Andreas Deinböck.

Born 1985, I studied mechanical engineering at Clausthal University of Technology. After graduating "Diplom-Ingenieur" in 2016, I am working as scientific employee at the Institute for Plant Engineering and Fatigue Analysis (IMAB) of the Clausthal University of Technology in the department of Structural Durability and System Behavior. There, I am busy preparing my doctoral thesis on the analytical fatigue life assessment of welded components with focus on size effects.



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)



A WORLD OF JOINING EXPERIENCE

Presented to

Glenn Ziegenfuss

'Terminology' (2011 – 2020)

Akio Hirose

'Microjoining and Nanojoining'

(2011-2020)

Teresa Melfi

'Pressure vessels, boilers and pipelines'

(2011 - 2020)

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



Headquarters and Office: Lungobisagno Istria 15 A -16141 Genoa - Italy

Contacts:

phone +39 010 8341 476 iiw@iiwelding.org - www.iiwelding.org

