

Formation of New Commission for Brazing, Soldering and Diffusion Bonding

In Jan 2009, the International Institute of Welding (IIW) [www.iiw-iis.org] announced the formation of a New Commission XVII titled “Brazing, Soldering and Diffusion Bonding”. The chairman of this Commission is Dr. Warren Miglietti, from PSM in the USA, the Vice Chairman is Prof. Mahesh Chaturvedi from the University of Manitoba in Canada and the secretary is Mrs Simone Hoevel from Alstom in Baden, Switzerland. As a recognized world wide expert in one or more of the above technologies, we would like to invite you to become a member of this new Commission and support its activities.

The first meeting is scheduled to coincide with the International Institute of Welding Annual Assembly meeting in Singapore from the 12th—17th July, but thus far only participants from 11 countries out of a possible 54 countries that are members of the IIW, have expressed interest in joining the Commission. Out of these 11 member countries only 4 participants are willing and able to attend the meeting in Singapore. As a result, we are writing to technical experts around the world to invite them to become members and hopefully get enough participation and involvement in this Commission. We obviously understand that this is short notice to attend the first meeting in Singapore, but we are planning now for a meeting in the Kiev, Ukraine from the 11th—16th July 2010. Kiev, Ukraine is where the famous Paton Institute exists, where at one stage over 5000 people did “Joining” research and development.

Our objective of this new Commission XVII are:

- “To organize the exchange of scientific and technical information and provide for the transfer of knowledge related to these techniques.
- To prepare recommendations, state-of-the-art reports and guidelines related to the technical field in question “brazing, soldering and diffusion bonding.

Our Brazing Work Program and potential “champions” for this new Commission are:

- 1) Ceramic to Ceramic and Ceramic to Metal Brazing. Ernesto Indacochea & Toshi Oyama
- 2) Wide Gap Brazing – Warren Miglietti
- 3) Brazing in Microsystems – Michael Aeurlich
- 4) Brazing of Intermetallics – William Gale
- 5) Brazing of superalloys- Mahesh Chaturvedi
- 6) Repair Brazing – Warren Miglietti
- 7) Laser Brazing – ???
- 8) Brazing of Al and Ti-based alloys – (Alex Shiparo)
- 9) Surface Brazing – Harald Krappitz
- 10) NDT of Brazed and Diffusion Bonded Joints – Jolanta Janczak
- 11) Applications of Vacuum Brazed and Diffusion Bonded Joints - everyone
- 12) Development of New Brazing Filler Metals – Anatol Rabinkin
- 13) Testing Methods of Brazed and Diffusion Bonded Joints (i.e. tensile, shear, stress rupture, bending, corrosion and erosion e.t.c) DVS sponsored research work + EMPA
- 14) Low temperature brazing – Hartmut Schmoor

We trust that you may be willing to join this new Commission and if so, can you please reply to us. We look forward to your positive reply. In the event you are interested in joining this Commission, would you kindly send us a brief outline of the work you are involved with in regards these 3 fields of technology, i.e. brazing, soldering and diffusion bonding.

Thanks and regards, Warren Miglietti//Mahesh Chaturvedi/Simone Hoevel, mchat@cc.umanitoba.ca

For more information: ing. E.W. (Erik) Schuring, ECN Engineering & Services, schuring@ecn.nl