



Romanian Alliance of Technical Universities



**Romanian Welding
Society**



**Politehnica University
Timișoara**

Round table discussion

”Developments in welded steel constructions”

Programme

6.09.2018

Conference Center of Politehnica University Timișoara
Bd. V. Pârvan nr. 2

Sponsors:



SALVPOD

Preamble

The emergence of new efficient materials, innovative welding processes, the high demands on the quality of the welded joints, while ensuring their safety in operation, the outstanding aesthetic forms, the complexity of the new European welding standards, the pressure of the short execution times, lead to the need to emphasize the multidisciplinary character of the welding field, and of reevaluation the education in this direction. The collaboration between the architect, the welding steel designer and the welding specialist is now essential. At the same time, in a global economy, a harmonization of the welding education becomes necessary.

The Round Table aims to discuss the issues raised and to establish general recommendations in the field of design and execution of welded steel constructions as well as of the high level education in welding.

The speakers are well-known specialists with international recognition in the field of metallic construction and welding engineering.



Theme 1

Innovative trends in the field of joints and welded steel constructions; materials, processes, constructive solutions, analysis and remarkable executed welded structures.

Theme 2

Harmonization at European level of education in welding and allied processes.

Programme

9:00 – 9:20 - V. Șerban (Rector, Univ. Politehnica Timisoara, Romania) -
Opening speech

9:20-10:40

R. Băncilă (Univ. Politehnica Timisoara, Romania) - *The place and role of the welding specialist in the design and execution of welded steel constructions; interdisciplinary connection between the architect, the design engineer and the welding specialist.*

R. Boecking (DVS Duesseldorf, Germany) - *Value added by welding technology in Germany and the EU in 2017 - Are technology and DVS interesting for the up-and-coming generation in the skilled trades and the academic field?*

L. Coutinho (EWF, Oeiras, Portugal)- *Research and development in welding and allied techniques - European collaboration projects*

H.Cramer (GSI, Munich, Germany) - *Innovation and research in welding in Germany*

10:40 – 11:00 - Coffee break

11:00 - 12:40

J. Dos Santos (Helmholtz Institute Geesthacht, Germany) - *New developments in Friction Stir Welding and related technologies*

S. Amancio (Techn. Univ. Graz, Austria) - *Joining of Polymer-Metal and Composite-Metal Hybrid Structures*

L. Blaga (Helmholtz Institute Geesthacht, Germany) - *Applications of polymeric composite materials and related technologies for bridge constructions*

J. Fink (Techn. Univ. Vienna, Austria) - *Analysis of the fatigue behavior by notching concept of the hole dowel strips as shear connectors in a novel SCSC sandwich panel*

E. Petzek (SSF Timișoara, Romania), **G. Retter** (Retter Group Sibiu, Romania) - *Use of high-strength steels in welded steel structures; examples and problems*

12:40-14:10 - Coffee break

14:10 – 15:50

N. Popa (Civil Eng. University Bucharest, România) - *Defects and errors in design and execution of welded constructions*

V. Grabulov (DUZS Belgrade, Serbia) - *Modern approach of tested weldability for safety weldments and welded structures*

A. Sedmak (Techn. Univ. Belgrade, Serbia) - *Safety assessment of welded steel structures trough NDT methods and fracture mechanics*

D. Boehme (DVS Munich, Germany) - *Cases of damage in welding technology- some examples of a sworn court expert*

V. Gaivoronschi (Univ. Politehnica Timișoara, România) - *Aesthetic of welded steel constructions; problems, achievements*

15:50 – 16:10 - Coffee break

16:10 – 17:30

D. Dehelean (ASR Romania) - *Education in welding - Challenges and paradigm*

P. Darjanov (BWS Sofia, Bulgaria) - *Results and current challenges in the field of training and education of welding personnel in Bulgaria*

J. Dobranszky (Techn. Univ. Budapest, Hungary) - *State of the art and challenges of welding education in Hungary*

J. Huete (CESOL Madrid, Spain) - *New training methodes in the education/qualification in welding engineering*

17:30 – 18:00 - Final discussions, Conclusions, Statement

The round table discussion is held in English.

Participation is free.

The participants are requested to confirm their participation by email at asr@asr.ro.



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