

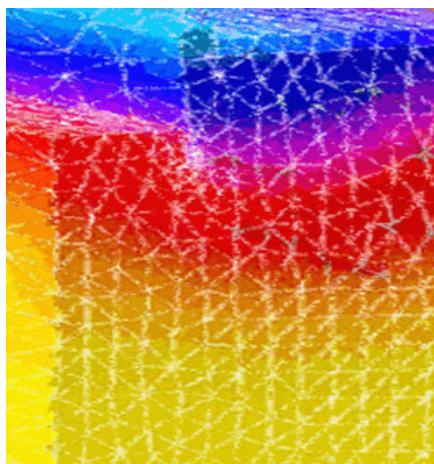
The **10th** International Conference

**STRUCTURAL
INTEGRITY OF
WELDED
STRUCTURES**

ISI Proceedings

July 11-12, 2013
Timișoara, Romania

Circular 2



Organizers



National R&D Institute for
Welding and Material Testing –
ISIM Timișoara



Romanian Academy for
Technical Sciences – Timișoara
Subsidiary



"Politehnica" University of
Timișoara

The 10th International Conference STRUCTURAL INTEGRITY OF WELDED STRUCTURES



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- Dr.Eng. Doru Romulus Pascu – ISIM Timișoara, Romania

ORGANIZATION

- Venue: Mechanical Engineering Faculty, room 150 (1 Mihai Viteazu Bv.)
- Officials languages: English and Romanian
- Accommodation will be booked directly at the hotel. Information about hotels closed to the conference venue can be found on the enrolment form.

CONFERENCE PROGRAM

11.07.2013	
9:00 - 9:20	Conference opening
9:20 - 10:50	Plenary Session
Tóth L.	Fracture Mechanics – Past, Present and Future
Müller M., Cramer H., Bschorr T.	Optimization of the Electrode Processing Methodology for Resistance Spot Welding of Aluminium
Kutin M., Prokolab M., Ristić M., Alil A., Gligorijević B.	Determination and Analysis of the Dynamic Loaded Screws by Structural Analysis, Fractography and Numerical Simulation
10:50 - 11:10	Coffee break
11:10- 13:00	Session 1
Lezhnev S., Panin E., Volokitina I.	Research of Combined Process Rolling-Pressing Influence on the Microstructure and Mechanical Properties of Aluminium
Pernevan M.S., Marșavina L., Pernevan I., Sîrghie C., Popescu M.	Experimental Research Regarding the Tensile Properties of some Polypropylene Based Biocomposites Reinforced with Hemp Shives
Gheorghiu D.A., Toma S.L., Mihordea T.	Peculiarities in Partial Melted Zone in Cast Alloys
Glovnea M., Suciuc C., Spînu S.	Some Aspects Regarding the Analysis of Straight Rods with Polygonal Cross Section Subjected to Torsion

Krivtsova O., Viventsev A., Talmazan V., Musin D., Arbuz A.	Study of Used Rolls Profile Influence on the Quality of Hot Rolled Metal
Böhme D., Cramer H.	Plasma Welding – State of the Art
13:00 - 15:00	Lunch break
15:00 - 16:50	Session 2
Arsić M., Odanović Z., Bošnjak S., Mladenović M., Savić Z.	State Analysis and Integrity of Welded Structures of the Upper Ring of the Turbine Runner Guide Vane Apparatus of Hydroelectric Generating Set A6 on Hydro Power Plant Djerdap 1
Petzek E., Toma L., Meteş E.	Deconstruction of existing railway and highway bridges
Odanović Z., Arsić M., Grabulov V., Djurdjević M.	Investigation of the Repair Welding Technology Using Ni Base Electrode
Petzek E., Butisca A., Toma L.	Eye Bars - Pins Connections
Seidl G., Petzek E., Băncilă R.	Composite Dowels in Bridges - Efficient Solution
Birsan D.C., Scutelnicu E., Visan D.	Modeling of Heat Transfer in Pipeline Steel Joint Performed by Submerged Double-Arc Welding Procedure
15:00 - 16:50	Parallel Poster session
<i>Dissemination of EU Projects coordinated by ISIM and the most significant patents and patent applications of ISIM.</i>	
<ul style="list-style-type: none"> • Exploratory research on the opportunities to increase the life time and efficient recycling of the active components of agricultural equipments • Implementation of International Guidelines for Welded Structural Designer Training" • Health, Safety and Environmental training for Welding Personnel 	
16:50 - 17:10	Coffee break
17:10 - 19:00	Session 3
Ciubotariu V.-A.	Crashing Behaviour Analysis of TWB Thin-Walled Structures with Various Cross-Sections
Pascu D.R., Buzdugan D., Drăgoi S.	Structural and Mechanical Characterization of Hard Layers Obtained by Plasma Jet Thermal Spraying of Amorphous Powders
Suciu O., Bereteu L., Drăgănescu Gh., Ioanovici T.	Determination of the Elastic Modulus of Hydroxyapatite Doped with Magnesium through Nondestructive Testing
Toma S.-L., Bejinariu C., Gheorghiu D.A., Baciu C.	The Improvement of the Physical and Mechanical Properties of Steel Deposits Obtained by Thermal Spraying in Electric Arc
Pintilie Gh., Albuț A.	Studies on the Material Anisotropy Influence in Case of Sheets Made From Magnesium Alloy AZ31B on the Stress Concentration Factor in the Presence of a Circular Concentrator
Galațanu S.-V., Pascu D.R., Döme M., Dragoi S.	Comparative Assessment of Composite Materials Performance Subjected to Fillet and Butt Welding
19:00	Cocteil

12.07.2013

8:30 - 10.36	Session 4
Cojocaru R., Boțilă L., Ciucă C., Dașcău H., Verbițchi V.	Friction Stir Lap Welding of Light Alloy Sheets
Arghirescu A., Baciu C., Cimpoșu N.	Experimental Results on Micrometric Profile of Substrate and Thickness and Roughness of Deposited Layers through Thermal Spraying
Rățoi M., Stanciu S., Cimpoșu N., Cimpoșu I., Constantin B., Paraschiv C.	A Potential Biodegradable Metallic Material with Shape Memory Effect Based on Iron

Bîrdeanu A.-V., Ciucă C., Joni A.	Pulsed laser welding of automotive advanced high strength steels thin sheets
Bereteu L., Moisa R., Popescu M., Drăgănescu Gh., Roșu R.A., Burcă M.	Determination of some Mechanical Characteristics by Vibration Testing of Welded Structures with Tubular Wire
Dulucleanu C., Bancescu N., Severin T.	Technological Characteristics of a Dual-Phase Steel with 0.09% C and 1.90% Mn Obtained by Intercritical Quenching
Bereteu L., Medgyesi T., Popescu M., Drăgănescu Gh., Roșu R.A., Simoiu D.	Vibration Tests at Thin Stainless Steel Sheets Joined by CMT Pulse with CuSi3 Filler Material for Determination of the Elasticity Modulus
10:36 - 10:56	Coffee break
10:56 - 13:00	Session 5
Murariu A.C., Crâșteți S.	Nondestructive Assessment of Anticorrosive Aluminium Coatings by Active Infrared Thermography
Dragoș D., Vizureanu P., Cimpoșu R., Achiței D.	Technological Development Perspectives and Experimental Results of MIG Welding Soldering
Mihăilescu D., Frîncu O., Gheonea M.C.	The Comparative Analysis of Gas Emissions during Mechanized MAG Welding Using Cored Wires
Cofaru I.I., Brîndașu P.D., Cofaru N.F., Roman L.	Computer Simulation Paradigm Regarding the Structure and Mechanical Characteristics of Human Long Bones
Mihăilescu D., Frîncu O., Gheone M.C.	The Comparative Analysis of the Concentration of Microparticles during Mechanized MAG Welding Using Cored Wires
Olaru I.	Brazing of Aluminum Bimetallic Sheets in the Design of Heat Exchangers
Verbițchi V., Dașcău H.F.	Quality Requirements for the Design, Fabrication and Repair of Welded Vessels
13:15 - 15:20	Visit of ISIM Timisoara Laboratories
15.20	Conference closing

Conference Secretariat



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the conference web site
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