

The 3rd



South-East European Welding Congress

“ Welding and Joining
Technologies for a Sustainable
Development and Environment ”

June 3-5, 2015

Timișoara, Romania

Regional Business Centre Timișoara

Joint events

- Workshop – National Welding Capability
- Workshop – Pipelines Construction
- Meeting of the IIW Sub-commission XI-E Transmission Pipelines
- International Conference – Structural Integrity of Welded Structures
- The International Fair 2015 – Innovation in Welding & NDT



National R&D Institute
for Welding and Material
Testing - ISIM Timisoara,
Romania

in cooperation with



Bulgarian
Welding
Society -
BWS, Bulgaria



Romanian
Welding
Society -
ASR, Romania



Serbian
Welding
Society -
DUZS, Serbia



Welding Institute -
Zavod za
Zavarivanje
A.D., Serbia

Circular No. 2

HOST

The National R&D Institute for Welding and Material Testing - ISIM Timișoara
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Registration information

Registration Fees (EUR)	Early Bird by May 03, 2015	Regular May 04, 2015 and later
Regular	300	350
Participants from organizing countries (Romania, Serbia, Bulgaria)	150	200
PhD. Students, accompanying person	100	150

The registration of any accompanying person should be done as well.

The price for tours will be additional to the congress's fee.

Registration fees cover welcome party, attendance at the technical sessions, conference folder, coffee breaks, dinner and proceedings of the conference.

Payment Methods

a) for payment in EURO (participants from abroad)

Bank: BCR Timișoara, Romania

Account number: R058RNCB0249049272150003

Swift code: RNCBROBU

b) for payment in LEI (Romanian participants)*

Bank: BCR Timișoara, Romania

Account number: R015RNCB0249049272150001

**Note The fee for Romanian participants should be paid in LEI at the BNR exchange rate for the day of the payment.*

Cancellations and refund policy

All cancellations must be made in writing to the Congress Secretariat, by e-mail:

seiiw2015info@isim.ro.

An administration fee of 30 EUR will be applied to any cancellation made by May 16, 2015. No refunds will be made for the cancellations after May 16, 2015.

Time

Time zone in Romania: GMT + 2 hrs

Currency

The official currency in Romania is LEU

Language

The official language of the 3rd IIW South-East European Welding Congress is English

Coffee breaks and Dinner

Coffee will be served during breaks at Regional Business Centre Timisoara (CRAFT).

The dinner will be served at the Restaurant of the Regional Business Center Timișoara, on Thursday, June 04, 2015, 18:30 hour.

Badges and Tickets

Upon registration, participants will receive a badge of a specific colour, which must be worn of all times.

Badges are required for all events.

Ticket for Dinner will be distributed together with registration kit at the Registration desk and must be presented at the entrance.

Meals during the IIW Congress

Restaurants, pizzerias or fast foods around CRAFT offer excellent food, good services and pleasant atmosphere.

A list of restaurants will be included in the registration material.

Venue & Accomodation



Venue

Opening Ceremony

The opening ceremony will take place at the Opera House (2 Mărășești Str.).

Congress

The Congress will take place at the Regional Business Centre of Timisoara (22 Eroilor de la Tisa Bv).

Accomodation

Hotel Timișoara

Hotel Timișoara is the biggest hotel in town. The guests benefit from its privileged location, in the very heart of the city. At Belvedere, the visual performance of the street completes the gastronomic presentation of the dishes. The rich multicultural heritage of the city is concentrated into a five star fusion menu. Meridional dominant notes are combined with a contemporary twist. The concept of "urban gastronomy" is influenced by Serbian, Bulgarian, Italian and even Turkish flavours.

www.hoteltimisoara.ro; office@hoteltimisoara.ro

North Star Continental Hotel

The North Star Continental Resort complex enjoys the vicinity of a relaxing park and is situated a few minutes away from the most important tourist attractions in the central area of the city. Combining high standard services with a constant attention to details, we offer you luxurious comfort, delicious cuisine, modern business and conference facilities and the much needed relaxation (3 restaurants with romanian and international cuisine, Miami Terrace with outdoor swimming pool, Lobby Bar, beauty salon and body-care -Continental Beauty, Galaxy Night Club, the Bodybuilding Center and Fitness, Car Rental, and Casino.

www.hotelcontinental.ro; rezervari@hotelcontinental.ro

Perla Hotels Timisoara

Perla Hotels is the ideal place when looking for accommodation in Timisoara, either for business or leisure, for you or your partners or family. The hotels offer different types of rooms, standard or business, to satisfy all your needs. Perla Hotels has 3 buildings all in one place, just a few minutes away from the city center having 4* and 3* rating.

www.hotelperla.ro; office@hotelperla.ro

Boavista Hotel

The hotel is located near the Regional Bussines Centre Timisoara. Standard room features include air coditioning, Internet access, cable TV, phone, mini-bar. Along with a restaurant, the hotel has an indoor pool and a health club. Free buffet breakfast is provided, as well as free WiFi in public areas, free airport drop-off, and train station pick-up. Additionally, a bar/lounge, a coffee shop/café, and indoor tennis courts are onsite.

www.hotelboavista.ro; rezervari@hotelboavista.ro



Programme

WEDNESDAY, JUNE 03, OPERA HOUSE

18:00-19:00 Opening ceremony (Session 1)

Welcome Addresses

Representative of IAW, organisers, local administration and national representatives.

The Jaeger Lecture - Structural integrity. A probabilistic perspective.

D. Cioclov

Romania

19:00-20:00 Entertainment

20:00-22:00 Welcome Reception

TECHNICAL PROGRAMME

THURSDAY, JUNE 04, Regional Business Centre Timișoara

08:30-13:00 Plenary Session (Session 2), Europa Room

C. Smallbone

The IIW White Paper- Its significance to creating a National Welding Capability"

Australia

S. Keller

Technical and logistical challenges while carrying out welding repairs on a steam turbine and turbogenerator rotor line

Switzerland

E. Assunção, L. Quintino, Sundqvist J., Kaplan A.F.H.,

Tailoring Laser Welding for Complex Applications

Portugal

V. Micloș

Estimation and expectation in assessment of the role of hydrogen on welds cracking

Romania

Coffee Break

H. Dașcău, D. Zivojinović, A. Grbović, A. Sedmak

Fatigue life prediction for Al alloy friction stir welded joint

Romania

V. Grabulov

Fracture mechanics and structural integrity in South-East Europe – 47 years of development

Serbia

A. Zhelev, T. Osikovski

Automated complete system for factory-and-production control of requirements in welding

Bulgaria

M. Uran, U. Kejžar

High energy arc aided deposition of non-metallic materials

Slovenia

Lunch Break

14:30-16:10 Parallel Sessions

Structural Integrity (Session 3 - Special Session dedicated to the memory of Professor Stojan Sedmak) – Europa Room

A. Sedmak, B. Petrovski, N. Gubeljak, J. Legat, I. Samardžić, D. Kozak, S. Kuzmanović, T. Adžiev, G. Adžiev, V. Čulafić, D. Bajić, D. Read

Weldment fracture mechanics

Serbia

S. Kirin, A. Tawengi, A. Sedmak, V. Grabulov

Application of design of experiment to welded joint testing

Serbia

A. Sedmak, R. Bakić, R. Jovičić, S. Sedmak, M. Milošević

Ferrite-austenite welded joint elastic-plastic behaviour

Serbia

M. Jovanović, M. Uran, D. Zuljan, D. Jovanović

Assessing the size of lack-of-fusion imperfections in MIG/MAG welds using computed tomography
Slovenia

I. Čamagić, Z. Burzić, A. Sedmak

Temperature effect on a low-alloyed steel welded joints tensile properties
Serbia

Joining Processes (Session 4) – Bega Room

T. Iamboliev

Tempering of continuous and pulse current GTA welds of AISI 420 (1.4021) martensitic stainless steel
Bulgaria

A. AL-Obaidi, C. Majewski

Ultrasonic Welding of Dissimilar Materials.

UK

M. Slováček, J. Tejc, M. Vaněk, T. Richter, J. Moravec, T. Kik

Using of welding virtual numerical simulation as the technical support for industry
Czech Republic

M. Dudziak, M. Müller, H. Cramer

Sensor assisted adaptive GMA welding

Germany

P. Petrov, D. Kaicheva, G. Bokuchava, I. Papushkin

A neutron diffraction study of residual stress due to electron beam welding
Bulgaria

Quality Management (Session 5) – Dunarea Room

Dorin Dehelean

New teaching methods for the qualification of welding coordinators

Romania

G. Sofronić, D. Kuzmanović, D. Gruber, V. Zorić

Certification and qualification of NDT personel, welders and welding instructors in Serbia
Serbia

R. D. Pittala

Quality Management during in-situ reconstruction of failed sickle plates by welding at underground
Penstock of Srisaillam Left Bank Hydro Electric Project – A case study
India

T. Osikovski, G. Saev, D. Dimov

On the BWS approval process organization regarding welding specialist's qualification documents
issued in countries non-members of EU and IIW/EFW

Bulgaria

T. Ueyama, T. Era, S. Okamoto, A. Černi

Challenge to quality and productivity improvement of GMA process for sheet metal joining
Japan

Coffee Break

16:40-18:20 Parallel Sessions

Structural Integrity (Session 6 - Special Session dedicated to the memory of Professor Stojan Sedmak) – Europa Room

Z. Burzić, I. Čamagić, A. Sedmak

Fatigue strength of a low-alloyed steel welded joints
Serbia

A. Živković, A. Đurđević, A. Sedmak, H. Dascau, I. Radisavljević, Đ. Đurđević

Possibilities for producing Al alloy T-joints using friction stir welding
Serbia

D. Veljić, B. Medjo, M. Rakin, A. Sedmak, N. Radović, N. Bajić

Metallography and hardness profile of the cross section of the friction stir welded joints in Serbia
Serbia

M. Arsić, V. Grabulov, S. Bošnjak, N. Milovanović, Z. Savić

Technology of repair welding in zones where cracks were detected at generator rotor hubs of
hydroelectric generating sets at hydro power plant „Djerdap 1“
Serbia

Programme

S. Balos, L. Sidjanin, M. Dramicanin, D. Labus, A. Antic

Influence of tool shoulder geometry on mechanical properties and roughness of FSW joints
Serbia

Z. Odanović

An analyse of hydropower turbine cover material degradation
Serbia

Joining Processes (Session 7) – Bega Room

A. Savaş

CFD modeling of FSW process and predicting the hardness around welding tool
Turkey

G. Posch, W. Scherleitner, D. Matei

The evolution of CMT: From joining and cladding to Metal Additive Manufacturing and Pinning
Austria

U. Lukić, R. Prokić Cvetković, O. Popović, R. Jovičić, M. Burzić

The possibility of application of continuous cooling transformation phase diagram obtained by numerical simulation for determination of welding parameters
Serbia

J. Ernesto Indacochea

Metallurgical aspects in welding high strength low alloy (HSLA) steel
USA

D. Mitić, D. Gruber, R. Matejić

Centrifugal pumps housings repairation for working with phosphoric acid (CWN80-26, CNSF200-26, CNSF150-26 and NPW200-40)
Serbia

A. Dimić, G.M. Bakic, M.B. Djukic, V. Sijacki Zeravcic, M. Ristivojevic

Characterization of welded joint made of T24 steel (7CrMoVTiB10-10) with and without post-weld heat treatment
Serbia

18:30

Dinner - Restaurant of Regional Business Centre Timișoara

FRIDAY, JUNE 05, Regional Business Centre Timișoara

08:30-10:30 Parallel Sessions

Structural Integrity (Session 8) – Europa Room

G. Stix, B. Buchmayr

Simulation based optimization of tube K-joints for tower cranes
Austria

N. Bakir, A. Gumenyuk, M. Rethmeier

Numerical simulation of solidification crack formation during laser beam welding of austenitic stainless steels under external load.

Germany

C. A.C. Castro, D. de Carvalho Urashima, E. Pereira da Silva

Study of vibration in the GMAW process to verify the weldability, microstructure, mechanical and geometric properties

Brazil

I. Hajro, E. Buljubašić

Review of experiences in structural integrity assessment of welded steel tanks for oil storage
Bosnia and Herzegovina

S. Sakhawat, M. N. Baig, A. Falahati, H.P. Degischer, M. Dománková, A. Mahmood

Investigations of precipitation in two different types of precipitation hardening stainless steels
Pakistan

G. Bărbos

Creep study on ultra – high performance concrete (UHPC) bended beams
Romania

Joining Processes (Session 9) – Bega Room

J. De Backer, X. Wei, J. Martin

Robotic FSW for three-dimensional components
UK

O. Popović, R. Prokić Cvetković, U. Lukić, R. Jovičić, M. Burzić

Fume emission during self-shielded arc welding

Serbia

M. Vaněk, M. Slováček, J. Tejc, J. Moravec, T. Kik

Numerical simulation of welding processes and their validation

Czech Republic

S. Balos, L. Sidjanin, M. Dramicanin, D. Labus

SMAW Welding Aided by TiO₂ Nano Particles

Serbia

F. Oliveira, C. Castro, M. Costa, W. Pereira

Study of macro and microstructural changes of the weld by steel FCAW process SAE 4340

Brazil

M. Ristić, L. Radovanovic, M. Prokolab, I. Vasovic, B. Katavic

Increase energy efficiency of thermal power plant Kostolac B by reducing wear of parts in ventilation mills

Serbia

Coffee Break

10:50-12:30 Parallel Sessions

Structural Integrity (Session 10) – Europa Room

St. Hristov

Criteria for application the local explosive treatment for diminution of the residual welding stresses

Bulgaria

S. Crăsteți

Information systems and modules for intelligent materials testing

Romania

Z. Karastojković, R. Perić, M. Srećković, Z. Janjušević, A. Sedmak, M. Rakin, N. Bajić

Microhardness changes in laser welds at annealed and cold rolled strips from golden alloy 585

Serbia

P. Tashev, H. Kondov, E. Tasheva, A. Tasev

Durability of nano-modified layers produced by manual arc overlay welding

Bulgaria

G. Antonov, J. Argirov

Study fatigue in materials of drill pipes

Bulgaria

I.E. Volokitina, A.B. Nayzabekov, S.N. Lezhnev, G.G. Kurapov, M.J. Knapinski

Influence of initial structural state of 35HM steel on the obtaining ultrafinegrained structure during ECA-pressing

Kazakhstan

Joining Processes (Session 11) – Bega Room

A. Maslarevic, G. Bakic, V. Sijacki Zeravcic, B. Rajcic, U. Lukic

Plasma transferred arc hardfacing with 316L

Serbia

C. Bosque, V. Serban

Influence of CO₂ in argon on MAG welding efficiency and productivity

Spain

J. Dobránszky, T. Sándor

Increasing the productivity of tungsten inert gas welding

Hungary

M. Mrdak, N. Bajić, M. Rakin, D. Veljić, V. Grabulov

Analysis of the structure of weld metal made with a basic type coated electrode

Serbia

H. Lakhnati

Innovative welding in plant engineering, vessel and pipe construction – manual and mechanised

Germany

Joint Events

International Fair 2015 - Innovation in Welding and NDT

June 3-5, 2015 / Regional Business Centre of Timisoara (CRAFT), Grand floor

Access: June 3, 2015 10:00-17:00.

June 4-5, 2015 10:00-18:00.

Workshop - National Welding Capability

June 3, 2015 / CENTA Room*) 10:00-14:30

*) ISIM Timisoara, 30 Mihai Viteazul Bv., headquarter

Workshop - Pipeline Construction & Meeting of the IIW Sub-commission XI-E Transmission Pipelines

June 5, 2015 / CRAFT - Dunarea Room 8:30-16:30

International Conference - Structural Integrity of Welded Structures – ISCS15

June 5, 2015

14:00-18.30 Plenary Session, CRAFT - Europa Room

10:30-14.00 Poster Session, CRAFT - Coffee Break area



WINE TASTING EVENING-MINIS CELLARS

June 5, 2015 – includes travel fee, wine tasting, dinner

The Minis vineyard has been known for its famous red wines throughout history. Famous families owned lands on this historical vineyard. For example: the Grassalkovich, Hatvany, Bánffy, Rákóczy, Bohus, Báthory, Haraszthy families. On the foothills of Arad the former famous historical wine-growing region known as Minis, sank into oblivion in the XX century's whirl. The legendary red aszú, the spicy Cadarca, the velvety red wines and the mild Feteasca Regala-s were once known all across Europe. The Merlot, Pinot Noir, Cabernet Sauvignon, Burgund and the Cadarca are the firm's excellent and top wines.



TOUR OF CASTLES

June 5-6, 2015 (Alba Iulia, Hunedoara, Deva) – includes travel fee, 1 night accommodation, 2 lunches, the entry fees at castles, touristic guide within the castles

The Alba Iulia Citadel, designed by Italian architect Giovanni Morando Visconti, was built between 1716 and 1735, using the Vauban military architectural system - the largest of this kind in Southeastern Europe. The fortress is outstanding both for its architectural elements and for the beauty of its six gates, unique in European military structures. Doubtless artists, sculptors such as Johann Koning, Johan Vischer and Giuseppe Tencalla, had been inspired by ancient mythology. The entire history of the current Alba Carolina Citadel is visible to this day, as



the visitors walk through the concentric ruins.

The Corvin Castle, also known as Hunyad Castle, is one of the most impressive medieval constructions in Romania. Many say that it is even more amazing than the famous Bran Castle. Iancu of Hunedoara was a leading Hungarian military and political figure in Central and Southeastern Europe during the 15th century. He started the construction of this magnificent castle.



Deva Fortress. The first evidence of the medieval Deva Fortress dates back to the second half of the 13th century; in 1269, Stephen V, King of Hungary and Duke of Transylvania, mentioned "the royal castle of Deva" in a privilege-grant for the Count Chyl of Kelling. From the foot of the hill, the city of Deva spreads out, beginning with Magna Curia and the public park. Nearby is the lower funicular station, which tourists use to reach the fortress.

TOUR OF NATURAL LANDSCAPES

June 5-6, 2015 (Oravita - Anina Mocanita, Bigar Waterfall, The Danube Gorges) – includes travel fee, 1 night accommodation, 1 lunch, 1 dinner

The Oravita-Anina railroad section is the fifth railway built on Romanian territory, respectively the first mountain railway and, many would agree, perhaps the most beautiful. Built during the Austrian Empire, it is a unique cultural monument in Romania, as well as a great technical achievement.

Bigar Waterfall, located in the nature reserve in Anina Mountains, the amazing waterfall is indeed a unique one. The water falls from a cliff, which is covered with moss. It is said



to be the most beautiful waterfall in the country. The underground spring streams from the cave above and then falls into the Minis River.

The Danube Defileu is along 7km long between Dubova and Ogradena, and consists of Cazanele Large, with a length of 3.8 km, and 170, 300 m wide, and Cazanele Little, with a length of 3.6 km, and 150-350 m wide. At the entrance to the golf Mraconia it is visible the statue of Decebal, and close to it Scritul Mraconia. On the serbian side the Tabula Traiana can be found.



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