

Call for Abstracts

Joint event

Twenty-first Annual Conference

YUCOMAT 2019

&

Eleventh World Round Table Conference

*on Sintering – Science of Sintering
& Its Future: Fifty Years Later*

Herceg Novi, Montenegro
September 2 - 6, 2019

Organised by



Materials Research Society of Serbia



International Institute for the Science of Sintering

Endorsed by



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MEETINGS



YUCOMAT and MRS-Serbia

Materials science and engineering incorporate acquiring of knowledge on synthesis and processing of materials, their composition and structure, properties and behavior, functions and potentialities as well as application of that knowledge to various final products. Economic prosperity, life quality, and healthy environment are tightly connected with the improvements in the existing and the development of new materials and processing technologies. These improvements and development can contribute greatly to the national priorities: energy saving, environment and health protection, food, information and communication, infrastructure, transportation, etc.

The First Conference on materials science and engineering, including physics, physical chemistry, condensed matter chemistry, and technology in general, was held in September 1995, in Herceg Novi. An initiative to establish the Yugoslav Materials Research Society was born at the conference and, similar to other MR societies in the world, the programme was made and objectives determined. The Yugoslav Materials Research Society (Yu-MRS), a non-government and non-profit scientific association, was founded in 1997 to promote multidisciplinary goal-oriented research in materials science and engineering. The main task and objective of the Society is to encourage creativity in materials research and engineering to reach a harmonic coordination between achievements in this field in our country and analogous activities in the world with an aim to include our country into global international projects. Until 2003, Conferences were held every second year and then they grew into Annual Conferences traditionally held in Herceg Novi in September of every year. In 2007 Yu-MRS formed two new MRS: MRS-Serbia (official successor of Yu-MRS) and MRS-Montenegro (in founding). In 2008, MRS – Serbia became a member of FEMS (Federation of European Materials Societies).

MRS-Serbia

President: Dragan Uskoković

Vice-presidents: Slobodan Milonjić, Velimir Radmilović, Dejan Raković

Secretary General: Nenad Ignjatović

Members: Snežana Bošković, Milorad Davidović, Vera Dondur, Đorđe Janačković, Đuro Koruga, Smilja Marković, Slavko Mentus, Zoran Petrović, Milenko Plavšić, Zoran Popović, Vladimir Srdić, Momčilo Stevanović, Jovan Šetrajčić, Miodrag Zlatanović

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CONFERENCE PROGRAMME

SYMPOSIUM A Advanced Methods in Synthesis and Processing of Materials

SYMPOSIUM B Advanced Materials for High-Technology Application

SYMPOSIUM C Nanostructured Materials

SYMPOSIUM D Eco-materials and Eco-technologies

SYMPOSIUM E Biomaterials

The final programme will be time-tabled on the basis of submitted abstracts. The preliminary YUCOMAT & WRTCS 2019 scientific programme will be available through the Internet:

<http://www.mrs-serbia.org.rs> on July 6, 2019

Eleven World Round Table Conference on Sintering and IISS

The International Institute for the Science of Sintering (IISS) was established in 1968 in Belgrade, Yugoslavia, today the Republic of Serbia. It began as the International Team for Studying Sintering after the great initiative of late academician, Momcilo M. Ristic, who was its long-term General Secretary and President. Since 1973, the Team has changed its name to IISS and become an umbrella of the Serbian Academy of Sciences and Arts as well as other eminent institutions from membership countries. The IISS has thus far organized ten international conferences on sintering (World Round Table Conferences on Sintering, WRTCS): Herceg Novi, Yugoslavia, 1969, 1971, and 1973; Dubrovnik, Yugoslavia, 1977; Portoroz, Yugoslavia, 1981; Herceg Novi, Yugoslavia, 1985 and 1989; and Belgrade, Yugoslavia, 1998 and 2002. Since 1975, the IISS has organized seven International Topical Symposia on Sintering: Herceg Novi, Yugoslavia, 1975; Warsaw, Poland, 1979; New Delhi, India 1983; Tokyo, Japan, 1987; Vancouver, Canada, 1991; Haikou, P.R. China, 1995; and New Delhi, India, in 2000. After the final WRTCS was held in Belgrade in 2002, IISS activity has drastically decreased

With this Conference, we wish to re-establish the activity of the Institute, which had the important role in bringing scientists together from this field worldwide, having in mind that at the time, our country was the rare meeting place for the scientists from the East and scientists from the West.

Particular emphasis is placed on the following topics, but are not limited to:

- Theory and technology of solid state and liquid phase sintering-fundamental and applied aspects
- Grain boundary phenomena for advanced materials processing and application
- Novel sintering methods(sintering under high pressure; shock wave sintering; low temperature sintering; hot pressing and hot isostatic pressing; laser sintering; spark plasma sintering; flash sintering
- Nano-structuring of materials by severe plastic deformation
- Microstructural control during sintering at multiple scales from nano to macro level
- Sintering phenomena in 3D printing
- Application of sintering in advance technology

This eleventh WRTCS marks the beginning of a new series of famous "Yugoslav Sintering Conferences" to be held in the same hotel resort where the International Team for Studying Sintering had organized their Founders Conference in 1969, exactly 50 years ago. And to take part, the IISS as of today has gathered 12 Honorable members, 46 Full members, 16 Corresponding members, and 33 Non-active members from 20 countries all over the world.

Managing Board

President of Managing Board: Dragan P. Uskoković

General Secretary: Vojislav Mitić

Members of Managing Board: Soon-J. L. Kang, Bernd Kieback, Zoran Nikolić, Eugen A. Olevsky, Danilo Suvorov, Andrey B. Ragulya, Masahiro Yoshimura.

Conference Local (Serbia) Co-Chair

Biljana Stojanović and Đorđe Janacković

The final programme will be time-tabled on the basis of submitted abstracts. The preliminary YUCOMAT & WRTCS 2019 scientific programme will be available through the Internet:

<http://www.mrs-serbia.org.rs> on July 6, 2019

GENERAL INFORMATION

Date and venue

The conference will be held on September 2–6, 2019, at the Hunguest Hotel Sun Resort Herceg Novi**** (http://www.hunguesthotels.hu/en/hotel/herceg_novi/hunguest_hotel_sun_resort/), Herceg Novi, Montenegro (www.hercegnovi.com).

Paper presentation and abstract preparation and publication

The conference will comprise invited plenary lectures (30 min) by the leaders in the field, oral (15 min) and poster presentations. Abstract in English and the registration form, should be submitted by May 1, 2019. (the recommended abstract format is given below). The Scientific Committee will evaluate the submitted abstracts and, on the basis of their contents, assign the papers, taking into account author's wishes as much as possible, to the oral or poster presentation. Abstracts will be included in a book of abstracts and distributed to each participant at the conference registration.

The preliminary conference programme and further information about the conference will be sent to registered participants, who paid the registration fee, by **July 6, 2019**.

Conference awards

The Presidency of the MRS-Serbia, at the proposal of the Awards Committee, will award the authors (preferably young members under 35) of the best oral and poster presentation at the conference, and also the authors of highly rated PhD theses defended between two conferences. Awarded researchers are granted free registration at the next YUCOMAT Conference.

Additional Activities

An exhibition of synthesis and characterization equipment will be held during the conference. Traditional cocktail party on Monday evening and an excursion on Thursday afternoon will be organized again.

Conference information

YUCOMAT Conference information is available on its official WEB page: www.mrs-serbia.org.rs or from: **Dusie Nedovic**, Conference Manager, Materials Research Society of Serbia, P. O. Box 433, 11001, Belgrade Serbia, E-mail: yucomat@mrs-serbia.org.rs.

INSTRUCTIONS FOR PREPARING ABSTRACTS

Participants are invited to submit an abstract, with title, names of authors and affiliation included, of no more than one page. Authors should use the following file types: **MS WORD 365** and older (*.doc(x)), or Rich Text Format (*.rtf). The paper size of the abstract should be 21×29.7 cm (A4) with a margin of **2.5 cm** on the left and **6 cm** at the right and **2.5 cm** on the top and **8.0 cm** at the bottom. The abstract should be formatted using **Calibri font** throughout and single-spaced lines.

File name: Last name of the first author-two first words of the title (for example: Smit-Fast_transfer.doc)

Title: 12 pts, bold, centered not all caps (for example, Mechanism of stereoselective...)

Empty space: 10 pts.

Author names: 11 pts, centered, not all caps; use first names, initials (optional) and last name; one author must be underlined as the author who will present the paper
(for example: John Smith, Petar Petrović*, ...)

Affiliation: 11 pts, italic, centered; put all authors' addresses delineated by asterisk () against each name
for example: CNR, Roma, Italy; *ITN-SANU, Belgrade, Serbia...*

Empty space: 10 pts.

Abstract text: 11 pts, justified (maximum one page including Title, Authors names and Affiliation)

Please use **TEMPLATE** to write an abstract (can be downloaded from the conference WEB site)

Please do not forget to add acknowledgement at the end of body text, if your project grant requires it.

Online registration and abstract SUBMISSION: <http://www.mrs-serbia.org.rs/index.php/registration-2019>

Registration form is filled in for a contact author. One registration form per abstract. Please note there is a rule that one conference fee is for one abstract only. Only online submissions will be acknowledged.

DEADLINE FOR ONLINE ABSTRACT SUBMISSION: May 1, 2019

Abstracts for poster presentations can still be submitted online until August 24, 2019, and will be included in the Final conference program, but not in the printed Book of Abstracts.