



*Society of Physical Chemists of Serbia*  
*Second Circular*

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# PHYSICAL CHEMISTRY 2020

*15th International Conference on  
Fundamental and Applied Aspects of  
Physical Chemistry*

# PC2020

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*The Conference is dedicated to the  
30<sup>th</sup> Anniversary of the founding of the Society of Physical Chemists of Serbia  
and  
Year of electrochemistry in Serbia*



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*Belgrade  
21-25 September 2020*



# PHYSICAL CHEMISTRY 2020

## 15th International Conference on Fundamental and Applied Aspects of Physical Chemistry

Organized by

*The Society of Physical Chemists of Serbia (SPCS)*



*in co-operation with*

*Institute of Catalysis, Bulgarian Academy of Sciences*



*Boreskov Institute of Catalysis, Siberian Branch of Russian Academy of Sciences*



*and*

*Members of the University of Belgrade:*



*Faculty of Physical Chemistry*



*Institute of Chemistry, Technology and Metallurgy*



*VINČA Institute of Nuclear Sciences*



*Faculty of Pharmacy*



*and*

*Institute of General and Physical Chemistry, Belgrade*





# PHYSICAL CHEMISTRY 2020

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## Aim of the Conference

The 15<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry "PHYSICAL CHEMISTRY 2020" is organized to bring together scientists from the domains of Physical Chemistry in order to exchange their recent experience and achievements, and to improve scientific co-operation.

The Organizing Committee has the pleasure of inviting you to participate at PHYSICAL CHEMISTRY 2020.

## Language

The official language of the conference will be English.

## Topics

- A** Chemical Thermodynamics
- B** Spectroscopy, Molecular Structure, Physical Chemistry of Plasma
- C** Kinetics, Catalysis
- D** Nonlinear Dynamics, Oscillatory Reactions, Chaos
- E** Electrochemistry
- F** Biophysical Chemistry, EPR Investigations of Bio-systems
- G** Organic Physical Chemistry
- H** Material Science
- I** Physical Chemistry of Condensed Phases, Solid State and Fluids
- J** Macromolecular Physical Chemistry
- K** Environmental Protection, Forensic Sciences, Geophysical Chemistry, Radiochemistry, Nuclear Chemistry
- L** Phase Boundaries, Colloids, Liquid Crystals, Surface-Active Substances
- M** Complex Compounds
- N** General Physical Chemistry
- O** Pharmaceutical Physical Chemistry
- P** Education, History
- Q** Food Physical Chemistry
- R** Physico-Chemical Analysis
- S** Photochemistry, Radiation Chemistry
- T** Free Topic

## Contributed papers

The papers will be divided into oral presentation and posters. The Scientific Committee retains the option of deciding on the presentation form, based on the number/type of contribution, but will try to take into account the author's expressed preference.

## Publication

All contributed papers accepted for the Conference, will be published in the Conference Proceedings. The plan is that the Scientific Committee will invite the Authors of selected papers to prepare original manuscripts for the publication in *the Russian Journal of Physical Chemistry A* and *Reaction Kinetics, Mechanisms and Catalysis* as regular articles, in accordance with journal practice



# PHYSICAL CHEMISTRY 2020

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## International Organizing Committee

- Chairman:** S. Anić (Serbia)  
**Vice-chairman:** M. Gabrovska (Bulgaria)  
A. A. Vedyagin (Russia)  
S. N. Blagojević (Serbia)
- Members:** N. Cvjetičanin (Serbia), S. M. Blagojević (Serbia), M. Daković (Serbia), J. Dimitrić-Marković (Serbia), T. Grozdić (Serbia), Lj. Ignjatović (Serbia), D. Jovanović (Serbia), M. Kuzmanović (Serbia), D. Marković (Serbia), B. Milosavljević (USA), M. Mojović (Serbia), N. Pejić (Serbia), M. Petković (Serbia), A. Popović-Bjelić (Serbia), B. Simonović (Serbia), M. Stanković (Serbia), B. Šljukić (Serbia), G. Tasić (Serbia), S. Veličković (Serbia), N. Vukelić (Serbia),

## International Scientific Committee

- Chairman:** Ž. Čupić (Serbia)  
**Vice-chairman:** V. Bukhtiyarov (Russia)  
S. Todorova (Bulgaria)  
B. Adnađević (Serbia)
- Members:** S. Anić (Serbia), A. Antić-Jovanović (Serbia), A. Azizoğlu (Turkey), R. Cervellati (Italy), G. Ćirić-Marjanović (Serbia), V. Dondur (Serbia), I. I. Grinvald (Russia), R. Jerala (Slovenia), M. Jeremić (Serbia), G. N. Kaluđerović (Germany), E. Kiš (Serbia), A.V. Knyazev (Russia), Lj. Kolar-Anić (Serbia), U. Kortz (Germany), T. Kowalska (Poljska), A. Lemarchand (France), G. Lente (Hungary), Z. Marković (Serbia), S. Mentus (Serbia), K. Novaković (UK), N. Ostrovski (Serbia), V. Parmon (Russia), Z. Petkova Cherkezova-Zheleva (Bulgary), M. Plavšić (Serbia), J. Savović (Serbia), G. Schmitz (Belgium), I. Schreiber (Czech), L. Schreiberova (Czech), D. Stanisavljev (Serbia), N. Stepanov (Russia), M. Stojanović (USA), E. Szabó (Slovakia), Zs. Szakacs (Romania), Z. Šaponjić (Serbia), Á. Tóth (Hungary), M. Trtica (Serbia), V. Vasić (Serbia), D. Veselinović (Serbia), V. Vukojević (Sweden)

## Local Executive Committee

- Chairman:** S. N. Blagojević  
**Vice-chairman:** A. Ivanović-Šašić  
N. Jović-Jovičić  
A. Stanojević
- Members:** M. Ajduković, I. N. Bujanja, A. Dobrota, J. Dostanić, D. Dimić, I. Ilić, S. Jovanović, Z. Jovanović, D. Lončarević, M. Kragović, J. Krstić, B. Marković, S. Maćešić, J. Maksimović, S. Marinović, V. Marković, D. Milenković, K. Milošević, B. Milovanović, T. Mudrinić, M. Pagnacco, S. Pavlović, N. Potkonjak, B. Stanković, I. Stefanović, A. Stoiljković, H. Šalipur, M. Vasić



# PHYSICAL CHEMISTRY 2020

## Paper preparation

The authors are kindly asked to respect the all proposition of the paper. Otherwise, the paper will be immediately returned for technical revision before sending to reviewer. The proposition includes strict four-page limit for the regular papers and 8 pages limit for the invited papers (including abstract, introduction, results and discussion, and conclusion) in A4 format singly spaced. Margins of 4.85 cm on the top and bottom should be left and 4 cm on both right and left of the text. The paragraphs should be indented 5 mm, except the first one in each heading. The title should be centered at the first page of the manuscript and written in font 14 (Times New Roman) and in bold capital letters. The rest of the text should be in 12- point fonts (Times New Roman) justified. The author's names should be given as initials followed by surname: P. Petrović, I. N. Bujanja, C. B. Delgado, J. P. Hsu. Name of the corresponding author should be underlined and his/her e-mail address should be given with other affiliation details. The author's address (with indication of the corresponding University, where it is appropriate) should be given in italics. The title and names of authors should be followed by the abstract of the paper. The section titles of the paper should be typed in 12-point bold capital letters. References to the literature within text should be placed in square brackets: [1], [2], ..., and cited at the end of the text.

Illustration (tables, figures, photographs, etc.) must be inserted into the text as a picture with at least 300 dpi and no larger than 12.5cm width and 18cm height including the caption (please allow 12 pts for each line of caption text). Tables must stay within text margins, too. Table caption and number should be given above each table, centered. Figure captions should be given at the bottom of each figure. The style of table and figure captions should be identical. Figure lettering should be done in a character not smaller than 12 pt. in final version of figure.

Submission of paper to our Conference assumes that all coauthors are informed and that these results are not submitted or published in any other Conference or scientific journal in the same form. It is full responsibility of the corresponding author.

The papers should be submitted by e-mail ([paper15@socphyschemserb.org](mailto:paper15@socphyschemserb.org)) before **May 31, 2020**. The papers received after that deadline cannot be guaranteed the publication in the Conference Proceedings. The authors are limited to no more than three regular contributions and one invited lecture. Invited lectures will be printed in full-length (eight pages maximum).

**Participants from Serbia are kindly recommended to include one line of the Acknowledgement.**

File title should be based on the surname of the first author, and if you submit more than one paper with the same first author, than add some ordinal number, next, add preferred type of presentation (poster or oral) and finally a letter identifying one preferred section (eg. Petrovic\_3\_oral\_J.doc).

## Duration of presentation

Plenary lectures:	30 minutes
Section lectures:	20 minutes with discussion
Oral presentation:	10 minutes with discussion
Posters:	120 minutes Poster dimension should be 80 cm wide, 100 cm high

*The Power Point presentation must be available on flash memory and prepared with Power Point. Optionally, laptop can be used. Overhead projector will be available.*

## Correspondence

For Registration:	<a href="mailto:registration15@socphyschemserb.org">registration15@socphyschemserb.org</a>
For Paper:	<a href="mailto:paper15@socphyschemserb.org">paper15@socphyschemserb.org</a>
For Information:	<a href="mailto:information@socphyschemserb.org">information@socphyschemserb.org</a>

**Deadline for Submission of papers for Proceedings: May 31. 2020.**



# PHYSICAL CHEMISTRY 2020

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## Program

### Conference Venue



**Captain Misa's Building** (Капетан Мишино Здање) Rectorate of University of Belgrade (Studentski trg 1) where on September 21 it will be held the Opening Ceremony and Plenary Lectures of the Conference.

**Ilija M. Kolarac Foundation** (Задужбина Илије М. Коларца) (Studentski trg 5) where Roundtable, Section Lectures and Ceremonial Assembly of the Society of Physical Chemists of Serbia will be on September 22.



**The Natural Sciences Building** located opposite to the Rectorate of the University of Belgrade (Studentski trg 12-16, Entrance C) where Registration Desk, Section Lectures, Oral and Poster Presentations of Conference will be on September 24 and 25.

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# PHYSICAL CHEMISTRY 2020

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## Registration

Registration desk will be located in the Natural Sciences Building, Faculty of Physical Chemistry, Entrance B and it will be opened during all time of the Conference, except the first day, when it will be at the entrance of the Rectorate.

## Conference Events

### University of Belgrade, Rectorate Building, Main Hall

#### Monday

21 September

**Opening Ceremony and Plenary Lectures**  
(Starting from around 09:30)

### Ilija M. Kolarac Foundation

#### Tuesday

22 September

**Round table, Section Lectures,  
and Ceremonial Assembly**

### Vinča archeological site near Belgrade

#### Wednesday

23 September

**Excursion**

### Natural Sciences Building

#### Thursday

24 September

**Section Lectures, Oral and poster Presentations**

#### Friday

25 September

**Section Lectures, Oral and poster Presentations  
Closing Session (at about 17:00)**

## Tentative List of Invited Lecturers:

Ashkenasy Gonen  
Dietrich Johannes  
Drakulić Dunja  
Jerala Roman  
Kaluderović Goran N.  
Kortz Ulrich  
Kowalska Tereza  
Lemarchand Annie  
Mau Jochen  
Morozova-Roche Ludmilla

Katarina Novakovic  
Orlik Marek  
Ostrovski Nikolaj  
Schmitz Guy  
Schreiber Igor  
Stojanović Milan  
Toth Agota  
Vedyagin Aleksey  
Zarić Snežana  
Petkova Cherkezova-Zheleva Zara

*List is not exhaustive)*



# PHYSICAL CHEMISTRY 2020

## Financial Support or Registration Fee to Conference

**Financial support** of Conference organization would ensure free registration for a limited number of participants. For Institutional or other kinds of donor support, please consult the Organizing Committee: [information@socphyschemserb.org](mailto:information@socphyschemserb.org)

## Registration fee or Financial Support

**For all Conference Participants 190 EUR**

### 1. Domestic participants should use the following payment instruction:

The amount of local currency payments is calculated according to the daily exchange rate of EUR on the day of payment. For the pro-forma invoice please send request to the Organizing Committee at: [information@socphyschemserb.org](mailto:information@socphyschemserb.org)

**Purpose of payment:** Registration fee of the Conference

**Beneficiary Customer:** DRUŠTVO FIZIKOHEMIČARA SRBIJE, Studentski trg 12-16, 11000 Beograd, Serbia

**Account of the Society:** 200-2712770101033-69

### 2. Foreign participants should use the following payment instructions:

**Intermediary Bank:**

Name: DEUTSCHE BANK AG  
Address: Frankfurt am MAIN  
SWIFT code: DEUTDEFF

**Beneficiarys Bank:**

EUR  
Name: BANKA POŠTANSKA ŠTEDIONICA AD  
Address: 11000 Beograd, Serbia  
SWIFT code: SBPORSBG

**Beneficiary Customer:**

IBAN number: RS35200271277010100362  
Name: DRUŠTVO FIZIKOHEMIČARA SRBIJE  
Address: Studenski trg 12-16, 11000 Beograd, Serbia

### Remark for all Conference Participants:

**The Conference Organizer does not recognize Banking Services.**





# PHYSICAL CHEMISTRY 2020

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*Dear colleagues*  
*Welcome to Belgrade*