

# ROSOV PININ 2020

JUNE 5th

Hotel Crystal  
Internacionalnih  
brigada 9

Belgrade

## FOURTH REGIONAL ROUNDTABLE: REFRACTORY, PROCESS INDUSTRY, NANOTECHNOLOGIES AND NANOMEDICINE



**VLADIMIR KOMLEV**  
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Moscow, Russia



**TILL DAMMASCHKE**  
Wilhelms-University Münster,  
Münster, Germany



**VLADIMIR PAPPURA**  
University of Alabama,  
Birmingham, Alabama, USA



**JOVAN NEDELJKOVIĆ**  
Institute of Nuclear Sciences  
„Vinča“, Belgrade, Serbia

Organized by:

Serbian Society for Nanotechnologies and  
Nanomedicine  
Serbian Society for Refractory and Process Industry  
Vinča Institute of Nuclear Sciences, Belgrade  
Medical Academy Serbia  
REAL S Ltd, Belgrade  
ALBOS Ltd, Belgrade

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**SHORT CV  
OF PLENARY LECTURERS  
AT ROSOV PIN 2020**



**Vladimir Parpura, MD, PhD, MAE**, holds both a medical degree, awarded from the University of Zagreb in Croatia in 1989, and a doctorate, received in Neuroscience and Zoology from Iowa State University in 1993. He held faculty appointments at the Department of Zoology and Genetics, Iowa State University, the Department of Cell Biology and Neuroscience, University of

California Riverside, and the Department of Biotechnology, University of Rijeka, Croatia. He is presently a tenured Professor in the Department of Neurobiology, University of Alabama at Birmingham, U.S.A. He has been elected as a Member of Academia Europaea (MAE) in 2012, of Dana Alliance for Brain Initiatives in 2016 and a corresponding member of the Slovenian Academy of Sciences and Arts as well as a Fellow of The American Association for the Advancement of Science (AAAS) both in 2017. Parpura is President (2017-2019 term) of American Society for Neurochemistry. He has been elected to the Council of International Society for Neurochemistry (2019-2023 term). He received 2017-2018 McNulty Civitan Scientist Award given by The UAB Civitan International Research Center and The Chesapeake District of Civitan International. In 2019, Parpura has been awarded Honorary Professor title at University of Rijeka, Croatia. He discovered astrocyte-neuron glutamate-mediated signaling pathway, i.e. gliotransmission. This led to the concept of the tripartite synapse whereby astrocytes, by releasing a gliotransmitter, can modulate synaptic transmission and plasticity. Subsequently, gliotransmission has proven to be important for sleep, respiration, learning and memory, gut motility and secretion, etc. Parpura has been interfacing neuroscience with nanoscience/nanotechnology, neurochemistry, synthetic biology and biomedical engineering.



**Corresponding Member of RAS, Professor,  
Dr., PhD**

**Vladimir S. Komlev**

**Director  
A.A. Baikov IMET RAS**

Corresponding Member of RAS, Professor, Dr., PhD Vladimir S. Komlev currently is the director A.A. Baikov IMET RAS. This is the largest scientific organization in materials science and metallurgy in Russian Federation.

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He has spent most of his professional career in studying and developing biomaterials for tissue engineering. He has been invited as keynote speaker and lecturer at many international congress and meetings, is the author of more than 200 manuscripts in scientific journals, book chapters and co-inventor more than 27 patents. H-index is 30 (google scholar).

Main research fields can be summarized as follows: structure of calcium orthophosphates and isomorphous substitutions; synthesis and sintering methods, including nanoparticles; phase formation characterization through energy-dispersive X-ray diffraction; 3D imaging techniques; 3D printing; 3D biofabrication; 3D biomimetic approaches; Gen-activated biomaterials, 3D tissue fabrication in space; biomaterials for tissue engineering and regenerative medicine of skeletal and soft tissue

**Till Dammaschke**, Prof. Dr. med. dent.

Till Dammaschke was born in 1965 and started studying sociology, political science and history at the University of Göttingen (Germany) in 1986. From 1987 to 1993, he studied dentistry at the University of Göttingen (Germany). Till Dammaschke is working at the Department of Operative Dentistry at the University of Münster (Germany) since 1994 and was appointed senior resident in 1998. In 1996, he completed his doctoral thesis at the University of Göttingen (Germany).

His habilitation thesis on histological research of direct capping with MTA and composite resins in comparison to calcium hydroxide earned him full teaching credentials in 2008. In 2012, he was appointed as Professor.

Since 2015 Till Dammaschke is head of the section "Cariology and Paediatric Dentistry" in the Department of Periodontology and Operative Dentistry in Münster (Germany).

Aside from the maintenance of pulp vitality, he has focused on studying calcium silicate cements (Biodentine, MTA) and sealers (e.g. BioRoot RCS) in dentistry, biocompatibility of dental materials and endodontics.

Till Dammaschke has over 120 national and international publications in scientific dental journals (40 in "Web of Science", e.g. Journal of Endodontics, International Endodontic Journal, Journal of Dentistry, Dental Materials, Clinical Oral Investigations, Quintessence International, Journal of Adhesive Dentistry), is co-author in books (e.g. Torabinejad M (ed.) Mineral Trioxide Aggregate: Properties and Clinical Applications.), and peer reviewer of more than 30 national and international dental scientific journals.

He had more than 50 oral and poster presentations at national and international congresses and meetings (e.g. ESE, AAE, IADR) and held over 200 continuing education lectures and invited speaker to several national and international dental congresses and meetings e.g. in Germany, Austria, Switzerland, Hungary, Poland and Russia.

Till Dammaschke is member of the German Society of Restorative Dentistry (DGZ), German Society of Dental and Oral Medicine (DGZMK), German Society of Endodontology and Dental Traumatology (DGET), Association of University Teachers in Dental and Oral Medicine (VHZMK), Certified Member of the European Society of Endodontics (ESE), International Association of Dental Research (2002 - 2003), American Association of Endodontists (2003 - 2013).

He is member of the scientific advisory board of the journals "Endodontie" (Germany) since 2002 and "Magazyn Stomatologiczny" (Poland) since 2014. Furthermore, since 2015 Till Dammaschke is Section Editor of "Head & Face Medicine", and Associate Editor of the "European Endodontic Journal", since 2018 of the "Dentistry Journal" and since 2019 of "Journal of Stomatology" and „Clinical Oral Investigations“.

To honour his scientific researches Till Dammaschke won the first prize of the German Society of Restorative Dentistry (DGZ) in 2000 and 2004, and second prize in 2016. Also in 2004, he won the first prize of the German Society of Dental and Oral Medicine (DGZMK). The journal "Endodontie" award him a prize for the first in 2000 and in 2016, and second best research paper in 2010, respectively.

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## **Jovan Nedeljković**

### **Curriculum vitae**

Jovan Nedeljković got his bachelor's degree at the Faculty of the physical chemistry of the Belgrade University in 1984, and since then he has been employed in the Laboratory for radiation chemistry and physics of the Institute of nuclear sciences Vinča in Belgrade. Jovan Nedeljković obtained his master's degree in 1988 at the Faculty of the physical chemistry of the Belgrade University, and the same year started a Ph.D. study at the Clarkson University (Potsdam, USA) wherein 1991 he successfully defended his Ph.D. thesis. After that, Jovan Nedeljković returned to the Institute of nuclear sciences Vinča, got a position of research associate, then senior research associate, and finally, in 1999 he was appointed as a principal research fellow.

Jovan Nedeljković has extensive international collaboration, and as a visiting scientist, he worked in Argonne National Laboratories (July 1997 - February 1998), National Renewable Energy Laboratory (September 2001 - August 2004), and Texas A&M University at Qatar (November and December 2016).

During his research career, Jovan Nedeljković published 185 scientific papers. Papers published by Jovan Nedeljković have a significant impact, and so far, they have been cited, according to Google Scholar, around 7000 times, and his h-index is 42 (<https://scholar.google.com/citations?user=tlaMZPsAAAAJ&hl=sr&oi=ao>). Jovan Nedeljković is a referee for many journals, such as ACS Applied Materials & Interfaces, Journal of the American Chemical Society, Journal of Physical Chemistry, Langmuir, Journal of Nanobiotechnology, Journal of Industrial and Engineering Chemistry, Materials Research Bulletin, Optical Materials, Journal of the Serbian Chemical Society, Materials Science and Engineering B, Materials Science and Engineering C, Thin Solid Films, *etc.*

Jovan Nedeljković's main research interest includes the development of colloidal methods for the synthesis of nanoparticles of different types of materials (oxides, semiconductors, metals). His research goal is to obtain nanoparticles with high uniformity and controllable shape (spheres, rods, wires, tubes), as well as to understand the size- and shape-dependent properties of materials at the nano-scale. Also, the research interest of Jovan Nedeljković is a synthesis of nanocomposite materials using nanoparticles as building blocks (polymer-based nanocomposites, functionalized textile fibers, thin films, *etc.*). The most recent research interest of Jovan Nedeljković is an improvement in the efficiency of photo-induced catalytic processes over wide-band-gap metal-oxides.