

*Publisher*  
ECOLOGICAL MOVEMENT OF NOVI SAD  
21000 Novi Sad, Vojvođanskih brigada 17  
Phone: (+381 21) 6372 940  
Mob: (+381 69) 304 73 38  
E-mail: ekopokretns@gmail.com  
www.ekopokretorg.rs

*Editorial Board*  
Academician Kastori Rudolf, President  
Nikola Aleksić  
Prof. dr Desanka Božidarević  
Prof. dr Radmila Šovljanski  
Prof. dr Velibor Spalević  
Prof. dr Vladan Joldžić  
Dr Vera Popović

*Project Editor*  
Nikola Aleksić

*Copy Editor*  
Vesna Karajović

*Layout and Formatting*  
Vesna Karajović

*For the Publisher*  
Nikola Aleksić

*Print*  
Verzal, Novi Sad

*Circulation*  
300 copies

Publication year: 2018-09-20

XXII INTERNATIONAL ECO-CONFERENCE  
X SAFE FOOD  
26-28<sup>th</sup> SEPTEMBER 2018.  
NOVI SAD, SERBIA

## SAFE FOOD

THE AUTHORS ARE RESPONSIBLE FOR THE  
QUALITY OF ENGLISH TRANSLATIONS

PROCEEDINGS  
2018.

*Organizer:*

- Ecological Movement of Novi Sad

*Co-organizers:*

- University of Novi Sad
- Russian State Agrarian University-MTAA, Moscow, Russian Federation
- International Independent Ecological-Politicology University in Moscow, Russian Federation
- Institute for Food Technology in Novi Sad, Serbia
- Institute for Field and Vegetable Crops Novi Sad, Novi Sad, Serbia
- Pasteur Institute of Novi Sad,
- Legambiente, d' Itali (National environmental Organisation)

*Patronage:*

- Matica srpska, Novi Sad

*Host:*

- Institute for Nature Conservation of Vojvodina Province, Novi Sad

*Honorary Committee:*

*President:*

- Prof. Dr. Dragan Stanić, President of Matica srpska, Serbia

*Vice-Presidents:*

- Prof. Dr. Dušan Nikolić, Rector of the University of Novi Sad
- Prof. Dr. Vladimir M. Bautin, Rector at Russian State Agrarian University-MTAA
- Prof. Dr. Stanislav A. Stepanov, Rector of the International Independent Ecological-Politicology University in Moscow, Russian Federation
- Dr. Svetlana Balašević Tubić, Director of the Institute for Field and Vegetable Crops Novi Sad, Serbia
- Dr Olivera Djuračić, Director of the Institute for Food Technology, Novi Sad, Serbia
- Prof. Dr. Dušan Lalošević, Director of the Pasteur Institute of Novi Sad
- Vittorio Coglianetti Dezza, President of Legambiente d' Italy
- Dr. Biljana Panjković, Director of the Institute for Nature Protection of Vojvodina Province

*Scientific Committee:*

*President:*

- Academician Rudolf Kastori, Academy of Science and Art of Vojvodina, Novi Sad, Serbia and Hungarian Academy of Sciences, Budapest, Hungary

*Vice-Presidents:*

- Prof. Dr. Biljana Abramov, Vice-Chancellor for science at the University of Novi Sad
- Prof. Dr. Evgenij Ivanovich Koshkin, Vice-Chancellor for International Cooperation at the Russian State Agrarian University-MTAA, Moscow, Russian Federation
- Prof. Dr. Marfenin N.N., Russian Federation, Vice-Chancellor of the International Independent Ecological-Politicology University in Moscow, Russian Federation
- Dr. Marijana Sakač, Assistant Director for Science at the Institute for Food Technology, Novi Sad, Serbia
- Dr. Verica Simin, Assistant Director for Science at the Pasteur Institute of Novi Sad,
- Dr. Ana Marjanović Jeronelu, Assistant Director for Science at the Institute for Field and Vegetable Crops in Novi Sad, Serbia
- Stefano Ciafani, Vice-Presidente of Legambiente d' Italy

*Secretary:*

- Ljubica Aleksić, Organizer of the Ecological Movement of Novi Sad

*Members:*

- Academician Srbslav Denčić, Institute for Field and Vegetable Crops, Novi Sad, Serbia
- Vaskrsija Janjić, University of Belgrade, Resident Professor at the Agricultural Faculty, Serbia
- Academician Branka Lazić, University of Novi Sad, Resident Professor at Agricultural Faculty, Serbia
- Academician Vukadin Leovac, University of Novi Sad Faculty of Mathematics and Natural Sciences, Serbia
- Prof. Dr. Desanka Božidarević, University of Novi Sad, Resident Professor at Agricultural Faculty, Serbia
- Prof. Dr. Miodrag Dimitrijević, University of Novi Sad, Resident Professor at Agricultural Faculty, Serbia
- Prof. Dr. Ivana Đujić, University of Belgrade, Resident Professor at Food Chemistry and Biological Faculty, Serbia
- Prof. Dr. Éva Erdélyi, Budapest Business School, University of Applied Sciences, Hungary



- Research, University of Belgrade, Resident Professor at the Biological and Chemical Faculty, Serbia
- **Prof. Dr. Marjan Još, JOST Seed-Research, Križevci, Croatia**
- **Prof. Dr. Gabriele Jovtchev, Institute of Biodiversity and Ecosystem Research, Bulgaria**
- **Prof. Dr. Nila Kapor Stanulović, University of Novi Sad, Resident Professor at the faculty of Philosophy**
- **Prof. Dr. Borivoj Krstić, University of Novi Sad Faculty of Mathematics and Natural Sciences, Serbia**
- **Prof. Dr. Ivana Maksimović, University of Novi Sad, Resident Professor at Agricultural Faculty, Serbia**
- **Prof. Dr. Dragutin Mihalović, University of Novi Sad, Resident Professor at Agricultural Faculty, Serbia**
- **Prof. Dr. Elizabeta Miskoska Milevska, University "Saints Cyril and Methodius", Faculty of Agricultural of Skopje, Republic of Macedonia**
- **Prof. Dr. Olga Najdenovska, University "Saints Cyril and Methodius", Faculty of Agricultural of Skopje, Republic of Macedonia**
- **Prof. Dr. Rodoljub Oljača, University of Banja Luka, Resident Professor at the Faculty of Forestry, Bosnia and Herzegovina**
- **Prof. Dr. Aleh Rodzkin, International Sakharov Environmental University, Minsk, R. Belarus**
- **Prof. Dr. Atila Salvai, University of Novi Sad, Resident Professor at the Agricultural Faculty, Serbia**
- **Prof. Dr. Veljko Spalević, University of Montenegro, Research associate at the Biotechnical Faculty of Podgorica, Montenegro**
- **Prof. Dr. Ivan Šimunović, University of Zagreb, RESIDENT Professor at the Agricultural Faculty, Croatia**
- **Prof. Dr. Marija Škrinjar, University of Novi Sad, Resident Professor at the Technology Faculty, Serbia**
- **Prof. Dr. Radmila Šovljanski, University of Novi Sad, Resident Professor at the Agricultural Faculty**
- **Prof. Dr. Ion C. Ungureanu, Professor at the University of Agricultural Sciences and Veterinary Medicine, Bucearest, Romania**
- **Prof. Dr. Victor Veniamović Zakrevski, North-Western State Medical University named after I.I.Mechnikov, Resident Professor, Saint-Petersburg, Russian Federation**
- **Prof. Dr. Lu Zhongmei, Resident Professor at the Wu Han Law University, China**
- **Doc. Dr. Marina Putnik Delić, University of Novi Sad Faculty of Agriculture, Serbia**

- **Dr. Vladimir Filipović, University of Novi Sad, Faculty of Technology, Serbia**
- **Ph. Dr. Djordje Okanović, Research Associate of the Institute for Food Technology in Novi Sad, Serbia**
- **Ph. Dr. Vera Popović, Senior Research Associate, Institute of Field and Vegetable Crops Novi Sad, Alternative Crops Department**

#### *Organizing Committee:*

##### *President:*

- **Nikola Aleksić, Director of the Ecological Movement of Novi Sad**

##### *Vice-president:*

- **Angelo Mancone, Co-ordinator Legambiente Veneto, Rovigo, Italy**

##### *Secretary:*

- **Zoran Kovačević, Organizer of the Ecological Movement of Novi Sad**

##### *Members:*

- **Prof. Dr. Milan Stanulović, University of Novi Sad, Resident Professor at the Medical Faculty**
- **Prof. Dr. Dragoslav Stojilković, University of Novi Sad, Faculty of Technology, Serbia**
- **Mr. Stadjana Djuranović, Translator and Lector of the Ecological Movement of Novi Sad, Serbia**
- **Mr. Milenko Košutić, Engineer, Expert Assistant at the Institute for Food Technology (FINS), Serbia**
- **Mr. Bratimir Nešić, Translator and Lector of the Ecological Movement of Novi Sad, Serbia**
- **Dr. Stevan Domazet, Institute of Field and Vegetable Crops Novi Sad**
- **Marina Samsonov, Translator and Interpreter of the Ecological Movement of Novi Sad**
- **Dr. Vera Dekić, Center of Small Grains, Kragujevac**
- **Luka Vujašinović, Organizer of the Ecological Movement of Novi Sad**
- **Milan Vurdelja, Rectors Office, University of Novi Sad, Serbia**
- **Dr. Jela Ikanović, University of Belgrade, Faculty of Agriculture, Zemun-Belgrade, Serbia**
- **Dr. Vera Rajčić, Centre of Small Grains, Kragujevac, Serbia**

*Official host of the XX International Eco-Conference® 2018*

- **Institute for Nature Conservation of Vojvodina Province in Novi Sad**