

Sixth International Conference with Youth Scientific Session

ECOLOGICAL ENGINEERING AND ENVIRONMENT PROTECTION (EEEP' 2019)

P R E L I M I N A R Y P R O G R A M

05.06.2019 – Wednesday

8⁰⁰ – 9⁰⁰ REGISTRATION

9⁰⁰ – 9³⁰ OPENING

WELCOME ADDRESSES

9³⁰ – 12⁰⁰ PLENARY SESSION 1

Chairs: Alexander Alexandrov, Ivan Simeonov

9³⁰ – 10⁰⁰ - Hristo Najdenski (Bulgaria). Biodegradation of potential hygienic cellulose wastes generated during long-term space missions.

10⁰⁰ - 10³⁰ - Hendrik De Ruyck, Lieve Herman, Tina Van den Meersche (Belgium). Presence and fate of antibiotic residues, antibiotic resistance genes and zoonotic bacteria in swine manure and soil.

10³⁰ – 11⁰⁰ - Vyacheslav Ilyin (Russia). Concept of waste treatment and space crew microbial safety in lunar program implementation.

11⁰⁰ – 11³⁰ - Jérôme Harmand (France). Contribution to the modeling of microbial ecosystems: a review and some news approaches.

11³⁰ – 12⁰⁰ - Oleksandr Tashyrev (Ukraine). Thermodynamic base for development of universal environmental phyto-bacterial biotechnologies.

12⁰⁰ – 13⁰⁰ POSTER SESSION 1

13⁰⁰ – 14⁰⁰ LUNCH

14⁰⁰ – 17³⁰ ORAL PRESENTATIONS

14⁰⁰ – 15¹⁵ Session 1: MAN AND BIOSPHERE

Chairs: Liudmila Kabaivanova, Hendrik De Ruyck

14⁰⁰ – 14¹⁵ – Alexander Alexandrov, Zdravko Bakalov. Natural disasters in Bulgarian forests.

14¹⁵ – 14³⁰ - Neli Siveva, Kalin Krumov, Joro Krumov, Silvia Venkova, Hristofor Skandaliev. Green rocket motors for civil purpose.

14³⁰ – 14⁴⁵ - Vesselin Akivanov. The challenges of the fourth industrial revolution.

14⁴⁵ – 15⁰⁰ - Irina Schneider, Ivaylo Yotinov, Nora Dinova, E. Daskalova, Nikolay Savov, Yana Topalova. Assessment of denitrification and nitrification processes during landfill leachate treatment.

15⁰⁰ – 15¹⁵ - **Hristo Tsakov**, Alexander Alexandrov, Olympia Roeva, Dafina Zoteva. Forest fires in Bulgaria for the period 2009-2018.

15¹⁵ – 16⁰⁰ - COFFEE BREAK

16⁰⁰ – 17³⁰ Session 2: BIOAUTOMATICS AND BIOINFORMATICS

Chairs: Ivan Simeonov, Sette Diop

16⁰⁰ – 16³⁰ - Sette Diop (France). Modeling and estimation of anaerobic digestion reviewed.

(key lecture)

16³⁰ – 16⁴⁵ - Samia Semcheddine, Hanane Bouchareb (Algeria). Robust control and state estimation of a three-stage anaerobic digestion process.

16⁴⁵ – 17⁰⁰ - Milen Borisov, Dencho Denchev, Ivan Simeonov. Mathematical modelling of two-stage

anaerobic digestion with hydrogen and methane production using ADM1.

17⁰⁰ – 17¹⁵ - S. Diop (France), I. Boussada, S. Tliba. On-by-passing bioreactor biomass specific growth rate modeling.

17¹⁵ – 17³⁰ - Jean-Yves Trosset (France), Sami Tliba, Ali El Ati, Hela Friha, Estelle Mogensen, Jawer Kahouli, Robin Lacombe, Ouerdia Arkoun, Sette Diop, Rodrigo Ledesma-Amaro, Islam Boussaada. Influence of micro-environment on yeast population dynamics.

17³⁰ – Discussion on topics and publication activity of the Journal EEEP related to the international references requirements (invited participants).

20⁰⁰ WELCOME PARTY

06.06.2019 Thursday

9³⁰ – 12⁰⁰ PLENARY SESSION 2

Chairs: Hristo Najdenski, Vyacheslav Ilyin

9³⁰ – 10⁰⁰ – Christophe Lasseur & MELiSSA Partners (ESA). Functional Ecology for Mars missions.

10⁰⁰ - 10³⁰ - Vladimir Elisashvili, Eva Kachlishvili, Mikheil Asatiani, Aza Kobakhidze (**Georgia**). Wood-rotting basidiomycetes and their enzymes for bioremediation.

10³⁰ – 11⁰⁰ – Valentin Nenov (Bulgaria). Perspectives in P. recovery from waste.

11⁰⁰ – 11³⁰ – Nicholas Kathijotes (Cyprus). A blue economy approach towards clean and sustainable seas.

11³⁰ – 12⁰⁰ - Yana Topalova (Bulgaria), Irina Schneider, Yovana Todorova, Mihaela Belouhova, Ivaylo Yotinov, Nora Dinova, Elmira Daskalova. Bioinnnovations in clean technologies – key for the circle economy water cycles.

12⁰⁰ – 13⁰⁰ POSTER SESSION 2

13⁰⁰ – 14⁰⁰ LUNCH

14⁰⁰ – 18⁴⁵ ORAL PRESENTATIONS

14⁰⁰ – 15¹⁵ Session 3: SPACE TECHNOLOGY AND ENVIRONMENT MONITORING

Chairs: Plamen Angelov, Nicolas Katijotes

14⁰⁰ – 15¹⁵ - Boyko Rangelov, Fathimath Shadyia and WP7 team. The educational platform of CABARET project (FP7).

14¹⁵ – 14³⁰ - Ива Иванова, Теменужка Спасова, Наталия Станкова. Оценка и мониторинг на моментното състояние на Дуранкулашкото езеро на базата на спътникови данни от Sentinel 2.

14³⁰ – 14⁴⁵ - Теменужка Спасова, Ива Иванова, Румен Недков. Сезонна оценка на мокра снежна покривка на база аерокосмически данни на територията на о-в Ливингстън, Нови Шетландски острови в Антарктика и Свалбард в Арктика.

14⁴⁵ – 15⁰⁰ - Andrey Stoyanov, Nikolay Georgiev. Assessment of the situation of forest vegetation in the Natural park „Blue stones“ territory by the methods of remote sensing.

15⁰⁰ – 15¹⁵ - Kameliya Radeva, Nikolay Georgiev. Remote sensing as a contemporary method for ecological monitoring on different types of ecosystems.

15¹⁵ – 15⁴⁵ - COFFEE BREAK

15⁴⁵ – 17⁰⁰ Session 4: RENEWABLE ENERGY AND BIOFUELS

Chairs: Svetla Marinova, Jerome Harmand

15⁴⁵ – 16¹⁵ – A. B. Blagoev. Are the hybride nuclear reactors the answer for the 21st century energy needs? (key lecture)

16¹⁵ – 16³⁰ – Lyudmila Kabaivanova, Venelin Hubenov, Elena Chorukova, Snezhanka Mihaylova, Juliana Ivanova, Ivan Simeonov. Biomethane production as a result of anaerobic digestion followed by algae cultivation in the obtained digestate.

16³⁰ – 16⁴⁵ – C. Daccò, M. Temporiti, S. Tosi (**Italy**). Selection of fungal strains useful for the purification of the lignin fraction from residues of bioethanol production.

16⁴⁵ – 17⁰⁰ - Venelin Hubenov, Jeny Miteva-Staleva, Dencho Denchev. Anaerobic fungi and their biofuels production potential.

17⁰⁰ – 17³⁰ COFFEE BREAK

17³⁰ – 18⁴⁵ Session 5: ENVIRONMENTAL BIOTECHNOLOGY

Chairs: Yana Topalova, Olexander Tashirev

17³⁰ – 17⁴⁵ - Пламен Цветков, Светлана Браткова. Полупасивно третиране на минни отпадъчни води в анаеробни условия.

17⁴⁵ – 18⁰⁰ - Boyko Tsyntsarski, Bilyana Petrova, Ivanka Stoycheva, Miglena Vassileva, Georgi Georgiev, Antoana Bahova, Temenuzhka Budinova, Petko Denev, Nartzislav Petrov. Cadmium removal from water by nanocarbon from biomass.

18⁰⁰ – 18¹⁵ - Yovana Todorova, Ivaylo Yotinov, Yana Topalova, Plamena Marinova, Evgenia Benova, Ivan Tsonev, Mariana Atanasova, Todor Bogdanov. Inhibition of bacterial biofilm formation by microwave plasma torch.

18¹⁵ – 18³⁰ - Yana Topalova, Elmira Daskalova, Nelie Zheleva, Mihaela Beluhova, Pavlina Dolashka. Effect of impact of peptide fraction /mt-20/ isolated from muscus of cornu aspersum on escherichia coli with participation of nanodiamonds.

18³⁰ – 18⁴⁵ – Ivan Simeonov, Snezhana Mihailova, Danka Galabova, Vesselin Akivanov. Anaerobic digestionntion of lignocellulosic waste in a pilot bioreactor.

19³⁰ GALA DINNER

07.06.2019 Friday

9⁰⁰ – 11³⁰ Session 6: MICROBIAL FUEL CELLS

Chairs: Valentin Nenov, Denis Korshunov

9⁰⁰ – 9¹⁵ - Gergana Peeva, Hyusein Yemendzhiev, Bogdan Bonev, Valentin Nenov. Solid waste separation by microfiltration.

9¹⁵ – 9³⁰ - Hyusein Yemendzhiev, Valentin Nenov. A critical review on the status of the bio-electrochemical technologies.

9³⁰ – 9⁴⁵ - Yana Mersinkova, Hyusein Yemendzhiev. Power performance of microbial fuel cell.

9⁴⁵ – 10⁰⁰ - Maya Stancheva, Venelin Hubenov, Hyusein Yemendzhiev. Energy and phosphorus recovering from livestock manure by anaerobic digestion.

10⁰⁰ – 10²⁰ - Хюсein Йеменджиев. Представяне на ЕНОВА Н2О ООД - производител на решения за мониторинг и пречистване на води.

10²⁰ – 11⁰⁰ COFFEE BREAK

11⁰⁰ – 11³⁰ Yana Topalova. The best young researches contributions.

11³⁰ – 12³⁰ – GENERAL DISCUSSION AND CLOSING OF THE CONFERENCE

Moderator: Hristo Najdenski

12³⁰ – 13³⁰ – LUNCH

14⁰⁰ – 19⁰⁰ – EXCURSION to NESSEBAR (the Old Town)