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International Conference and Expo on

Water Microbiology & Novel Technologies

July 18-19, 2016 Chicago, USA

Scientific Program



Day 1 July 18, 2016

08:30-09:00 Registrations

Vienna

conferenceseries.com 09:00-09:20 **Opening Ceremony**

Keynote Forum

09:20-09:30 **Introduction**

09:30-10:00 **Title: qPCR and RT-qPCR of Harmful *Cyanobacteria* at Lake Harsha, OH, during Summer**
Jingrang Lu, U.S. Environmental Protection Agency, USA

Session

Drinking Water Microbiology and WasteWater Treatment | Water Related infections

Session Chair: Jingrang Lu, Environmental Protection Agency, USA

Session Co-Chair: Claudia Gallert, University of Applied Science Emden Leer, Germany

Session Introduction

10.00-10.25 **Title: Elimination of micro-pollutants and pathogenic (antibiotic resistant) bacteria by advanced wastewater treatment technologies**
Claudia Gallert, University of Applied Science Emden Leer, Germany

Networking & Refreshments 10.25-10.40 @ Foyer

10.40-11.05 **Title: Legionella ecology in drinking water distribution**
Malka Halpern, University of Haifa, Israel

11.05-11:30 **Title: Assessment of Human Viruses in Municipal Wastewater in Calgary, Canada**
Yuanyuan Qiu, University of Alberta, Canada

11.30-11:55 **Title: Creation of synthetic mutualism to improve understanding of the relationships between microalgae and bacteria in fresh water**
Luz E. de-Bashan, The Bashan Institute of Science, USA

11:55-12.20 **Title: Photodynamic inactivation of microorganisms in wastewaters: an effective approach with low environmental impact**
Adelaide Almeida, University of Aveiro, Portugal

12.20-12.45 **Title: Laser Optical Sensor for Rapid On-Plate Screening of Water and Food-borne Pathogens**
Arun K. Bhunia, Purdue University, USA

12.45-13.10 **Title: Oracle Water, the Safeguard of Humankind against Viruses and Germs**
Han Sup Uhm, Kwangwoon University, South Korea

Lunch Break 13.10-13.55 @ Athens

13.55-14.10 **Title: Microbiology in arsenate and selenate containing groundwater**
Josef Winter, Karlsruhe Institute of Technology, Germany

14.10-14.35 **Title: Future wastewater solutions: removal of pharmaceuticals in conventional wastewater treatment plants**
Thomas Jensen,Technical University of Denmark, Denmark

14.35-15.00 **Title: Methane potential of acetate-rich wastewater and the effect of lignin presence**
Lourdes Maria Rodriguez Chiang, Aalto University, Finland

15.00-15.25 **Title: Dry Preservation of Xylem Water Filters for Point-of-Use Filtration of Microbes from Drinking Water**
Krithika Ramchander, Massachussets Institute of Technology, USA

15.25-15.50 **Title: U-LCA-PWTPs -Using Life Cycle Assessment as a tool for potable water treatment plants (PWTPs)**
Oscar Orlando Ortiz-Rodriguez, Universidad de Pamplona, Colombia, USA

15.50-16.15 **Title: Anomalous behaviour of water**
Chang Q Sun, Nanyang Technological University, Singapore

Networking & Refreshments 16.15-16.30 @ Foyer

16.30-16.55 **Title: Towards a specific controlling strategy to prevent filamentous bulking and foaming considered as the last major unsolved problem in operation of activated sludge systems**
Thiemo Dunkel, University of Duisburg-Essen, Germany

16.55-17.20 **Exhibitor Talk**
Ann Packingham, Innovaprep, USA

Day 2 July 19, 2016

Vienna

Keynote Forum

09.45-10.20 **Title: Synthetic mutualism between microalgae and plant growth-promoting bacteria for tertiary wastewater treatment**
Yoav Bashan, The Bashan Institute of Science, USA

Networking & Refreshments 10.20-10.35 @ Foyer

Session

Water Technology and Its Applications | Biofilms in Drinking Water | Water Borne Disease

Session Chair: Yoav Bashan, The Bashan Institute of Science, USA
Session Co-Chair: Robert Armon, Israel Institute of Technology, Israel

Session Introduction

10.35-11.00 **Title: Macromolecular Fingerprinting in Sol-gel Materials for Rapid Bacterial Recognition in Water Samples via QCM Detection**
Robert Armon, Israel Institute of Technology, Israel

11.00-11.25 **Title: Microbial community analysis of anaerobic digesters during biotransformation of nonylphenol diethoxylate**
F Dilek Sanin, Middle East Technical University, Turkey

11.25-11.50 **Title: Comparison of four membranes in a bioelectrochemical system designed for nitrate removal from groundwater**
Selim Latif Sanin, Hacettepe University, Turkey

11.50-12.15 **Title: Surveillance of intestinal protozoans and multidrug resistant bacteria from various water samples from the Philippines**
J Dungca, Centro Escolar University, Manila, Philippines

12.15-12.40 **Title: Composition and structure of denitrifying bacterial biofilm**
Anuradha S Nerurkar, The Maharaja Sayajirao University of Baroda, India

Lunch Break 12.40-13.30 @ Athens

13.30-13.55 **Title: Biofilm Disassembly and prevention by Glycosyl Hydrolase**
Luyan Z Ma, Chinese Academy of Sciences, China

13.55-14.20 **Title: Bioactivity Effect of Two Macrophytes Extracts on Growth Performance of Two Bloom-Forming Cyanophytes**
Ghobrial M G, National Institute of Oceanography and Fisheries, Egypt

14.20-14.45 **Title: Effects of Captopril & Lisinopril (ACE Inhibitor drugs) on Insulin Release**
Ghulam Rasool Mashori, PUMHS for Women, Pakistan

14.45-15.10 **Title: Water Borne Diseases, Its Adversity With Compromised Immune System**
Kausar Khan, University of Karachi, Pakistan

15.10-15.35 **Title: HABs Identification system based on mobile Networked technologies Morphologic, genetic and optic caracterization of toxic and non toxic Microcystis *Aeruginosa* HABs**
Susana Deus Alvarez, Instituto de Investigación Biológica Clemente Estable (IIBCE), Uruguay

Networking & Refreshments 16.05-16.20 @ Foyer

Poster Sessions @ 15.35-16.35

Poster Judges: Josef Winter, Karlsruhe Institute of Technology, Germany
Malka Hapren, University of Haifa, Israel

P01 **Title: Determination of Rotavirus in raw Colombian water by using fluoromagnetic detection**
Raquel Amanda Villamizar Gallardo, Universidad de Pamplona, USA

P02 **Title: Phage therapy in the inactivation of *Aeromonas salmonicida* in aquaculture systems: Inactivation in water and in juvenile Senegalese sole (Solea senegalensis)**
Adelaide Almeida, University of Aveiro, Portugal

P03 **Title: Anti-norovirus activity of lemongrass essential oil**
Sung-Joon Lee, Republic of Korea University, Korea

P04 **Title: Isolation of environmental bacteria from surface and drinking water in Mafikeng, South Africa and characterization using their antibiotic resistance profiles**
Suma George Mulamattathil, University of Limpopo, South Africa

P05 **Title: Development of silver nanorods enhanced fluosrscece substate for microarray analysis**
Seok-min Kim, Chung-Ang University, Korea

P06 **Title: A novel approach toward the biodegradation of xenobiotic polymer**
Nazia Khatoon, Duke University, USA

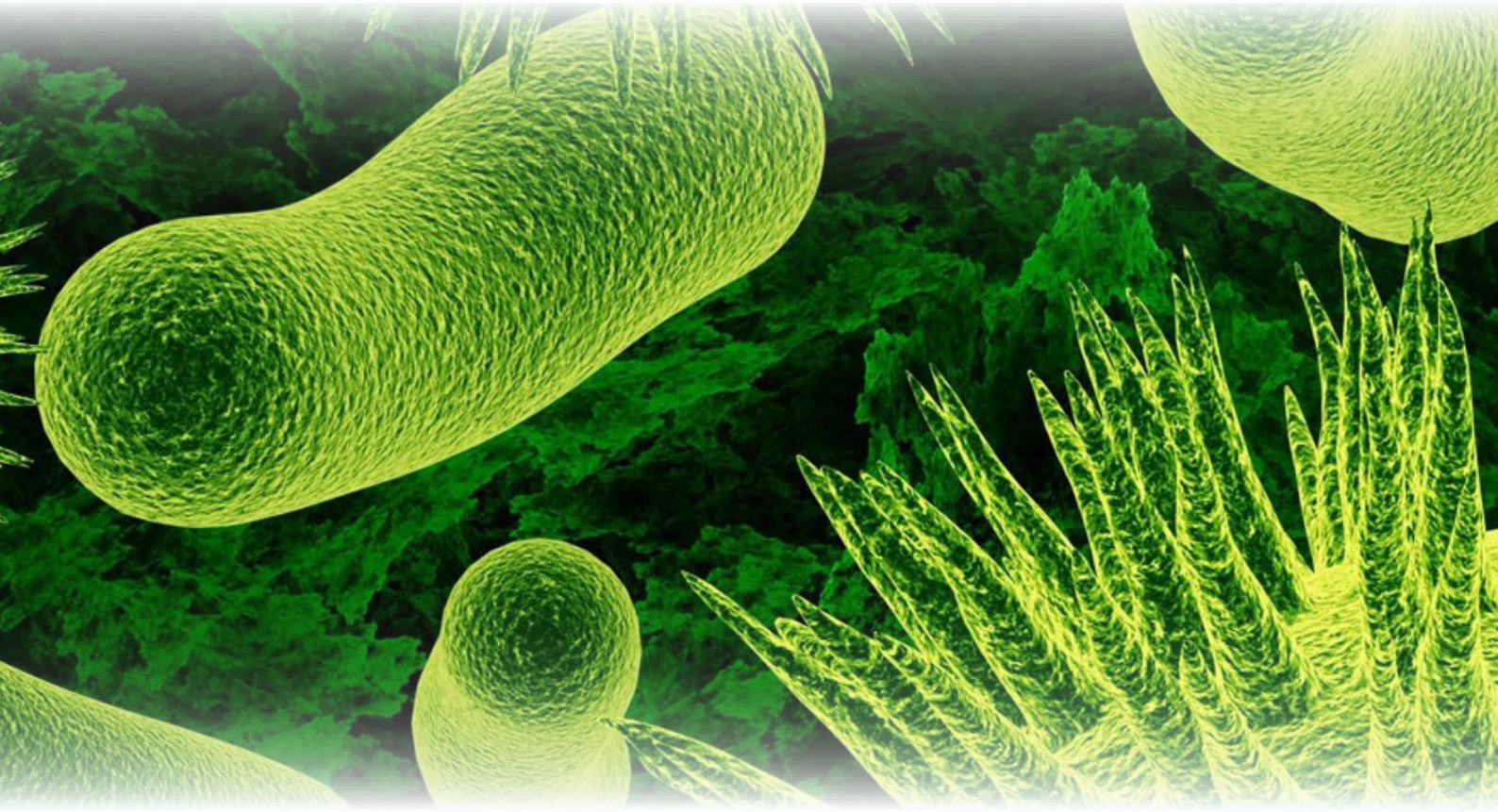
P07 **Title: Microbiological quality assessment of handmade juice in street of the Dhaka city Bangladesh**
Kaniz Fatema, Primeasia University, Bangladesh

P08 **Title: The importance of purifying textile waste water and making it a part of nature again**
Hayri Sen, University of Trakya, Turkey

P09 **Title: Aerobic Granulation for Wastewater Treatment: Performance evaluation at elevated temperature using real waste water**
Mustafa M Bob, Taibah University, Saudi Arabia

Panel Discussion

Award Ceremony



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2nd Water Microbiology Conference

June 26-28, 2017 Philadelphia, USA

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