2nd World Conference on

INDUSTRIAL CHEMISTRY AND WATER TREATMENT

May 22-23, 2017   Las Vegas, USA

Scientific Program
Day 1  May 22, 2017
08:00-08:45 Registrations

HAMPTON EVENT CENTER B

08:50-09:20 Opening Ceremony

Keynote Forum

09:20-09:40 Introduction
09:45-10:15 Title: Emerging of Stretched and Contracted Helices of Substituted Polyacetylenes and its Molecular Oscillation in Solution
Masayoshi Tabata, Muroran Institute of Technology, Japan
10:15-10:45 Title: Integrated membrane processes for sustainable industrial production and water treatment
Lidietta Giorno, Institute on Membrane Technology, National Research Council, Italy

Lidietta Giorno,
Group Photo
Networking & Refreshment Break 10:45-11:05 @ Foyer

11:05-11:35 Title: Chemoenzymatic Synthesis of Polysaccharide-grafted Polymeric Materials
Jun-ichi Kadokawa, Kagoshima University, Japan
11:35-12:05 Title: Numerical simulation of laterally confined vertical buoyant jets
Majid Mohammadian, University of Ottawa, Canada

Sessions:

Session Chair: Masayoshi Tabata, Muroran Institute of Technology, Japan
Session Co-Chair: Jun-ichi Kadokawa, Kagoshima University, Japan
Session Co-Chair: Majid Mohammadian, University of Ottawa, Canada

Session Introduction

12:05-12:30 Title: Properties of porous alumina ceramics
Zaw Ye Maw Oo, Mendeleev University of Chemical Technology of Russia, Russia
Title: Optimization using central composite design (CCD) and the desirability function for biosorption of methylene blue from aqueous solution onto dried sunflower seed hull
Gbekeloluwa Oguntimein, USA
12:30-12:55
12:55-13:00 Lunch Break 13:00-13:50 @ Coral

Jin Yong Park, Hallym University, South Korea
Title: Small organic molecules as catalysts for asymmetric direct aldol reactions in aqueous media: A green chemistry approach for industrial applications
Kartick C Bhowmick, University of Texas at San Antonio, USA
14:20-14:45

Sessions:

Sessions: Boiler Water Treatment | Cooling Water Treatment | Green Water Treatment | Membrane Treatment | Raw Water / Potable Water Preparation | Waste Water Treatment | Nano Materials in Water Treatment | Ultrapure Water Production

14:45-15:10 Title: Process improvement for arsenic removal from“dirty acid wastewater
Dongyun Du, South-Central University for Nationalities, China
Title: Graphene Modified Anodes in a Cross-Linked Microbial Fuel Cell (CMFC) for the Treatment of Real Wastewaters and Energy Generation
Arvind Mungray, National Institute of Technology, India
Title: Continuous fixed-bed column study for the removal of nitrate from water using chitosan/alumina composite
Wondalem Misganaw Golie, Indian Institute of Technology Delhi, India
16:05-16:30  Title: Water-saving eco-friendly cooling tower development and its performance evaluations  
Xiaomin Wu, Tsinghua University, China

Networking & Refreshment Break 16:30-16:50 @ Foyer

16:50-17:15  Title: Functionalized gold nanoparticles based colorimetric sensors for heavy metal ions from waste water  
Palash Mondal, Arizona State University, USA

Title: Membrane condensers as emerging technology for water recovery from waste gaseous streams  
Adele Brunetti, The University of Calabria, Italy

Title: The potential of natural gelatin generated from Sisymbrium irio seed in water treatment processes  
Soraya Hosseini, Malyasia

17:40-18:05  Title: Reduction on water consumption on a cooling tower with the application of a novel biocide  
Anderson Jose Beber, Solenis Water Technologies, Brazil

Day 2  May 23, 2017
HAMPTON EVENT CENTER B

Keynote Forum

09:00-09:30  Title: Precise Synthesis of Substituted Polyacetylenes  
Fumio Sanda, Kansai University, Japan

09:30-10:00  Title: Crystalline/amorphous low energy bandgap TiO$_2$ materials prepared in solution and their industrial applications  
Hyoyoung Lee, Sungkyunkwan University, Republic of Korea

10:00-10:30  Title: Unusual phenomena in helix-sense-selective polymerization of achiral acetylenes  
Toshiki Aoki, Niigata University, Japan

Networking & Refreshment Break 10:30-10:50 @ Foyer

10:50-11:20  Title: Hydrogen Technology for Automobiles in the 21st Century Towards a More Secure and Cleaner  
Dhanesh Chandra, University of Nevada, USA

11:20-11:50  Title: Color gradation of substituted polyacetylenes: Molecular design, synthesis, and characterization of their helical structures  
Yasuteru Mawatari, Muroran Institute of Technology, Japan

Sessions:

Session Chair: Lidietta Giorno, Institute on Membrane Technology, National Research Council, Italy
Session Co-chair: Hyoyoung Lee, Sungkyunkwan University, Republic of Korea
Session Co-chair: Toshiki Aoki, Niigata University, Japan

Session Introduction

11:50-12:15  Title: Filed Demonstration of a portable TS-af-HFM nanofiltration process for the cost-effective treatment of oilfield produced water  
Jianjia Yu, PRRC/New Mexico Tech, USA

12:15-12:40  Title: Application of Ultrasound to control and Enhance Performance of Dynamic Membrane in Anaerobic Bioreactor  
Alka A. Mungray, National Institute of Technology, India

12:40-13:05  Title: Quality assessment of groundwater from Avenorfeme: Akatsi District, Ghana  
Victus Samaifo, University of Education, Ghana

Lunch Break 13:05-14:00 @ Coral
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
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</thead>
<tbody>
<tr>
<td>14:00-14:25</td>
<td>Preparation and characterization of chitosan coated diatomaceous earth for hexavalent chromium removal</td>
<td>Suhaib Salih</td>
<td>University of Missouri-Columbia, Missouri</td>
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<td>14:25-14:50</td>
<td>A numerical study on longitudinal vortex induced enhancement of mass transfer in a membrane channel</td>
<td>Jingchun Min</td>
<td>Tsinghua University, China</td>
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<tr>
<td>14:50-15:15</td>
<td>Decontamination of polluted water by veterinary antibiotics by studying the photochemical behavior under light excitation</td>
<td>Soumaya Mezghich</td>
<td>Blaise Pascal University, France</td>
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<tr>
<td>15:15-15:40</td>
<td>A Green Polyester and Products from Carbon Dioxide, Water and Solar Power</td>
<td>Jian Yu</td>
<td>University of Hawaii at Manoa, USA</td>
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<tr>
<td>15:40-16:05</td>
<td>Porous Silicon Nanoparticles and Magnetite-Chitosan-Reduced Graphene Oxide for Simultaneous Removal of Heavy Metals and Anionic Surfactant</td>
<td>Mingtan Hai</td>
<td>University of Science and Technology Beijing, China</td>
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<tr>
<td>16:05-16:30</td>
<td>Microwave Applications in Petroleum Processing</td>
<td>Adango Miadonye</td>
<td>Cape Breton University, Canada</td>
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<td>16:30-16:55</td>
<td>Networking &amp; Refreshment Break</td>
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<td>17:00-18:00</td>
<td>Poster Presentation</td>
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**INDUSCHEM 01**
- Title: Inactivation and degradation of antibiotic-resistant bacteria and its gene by Cu(II)/\(\text{H}_2\text{O}_2\) system
- Speaker: Byung-Taek Oh
- Institution: Chonbuk National University, Republic of Korea

**INDUSCHEM 02**
- Title: Physico-Chemical Analysis of Bore – Well Water Of Kheda District, Gujarat (India)
- Speaker: Disha Soni
- Institution: J&J College of Science, India

**INDUSCHEM 03**
- Title: Water-saving eco-friendly cooling tower development and its performance evaluations
- Speaker: Rasoul Kazemi
- Institution: Azad University, Iran

**INDUSCHEM 04**
- Title: Water Hyacinth: from threat to value-added product via HTC
- Speaker: Silvia Roman
- Institution: University of Extremadura (UEX), Spain

**INDUSCHEM 05**
- Title: Microalgae nitrogen recovery using hydrothermal carbonization
- Speaker: Silvia Roman
- Institution: University of Extremadura (UEX), Spain

**INDUSCHEM 06**
- Title: Other Seawater Desalination Method
- Speaker: Guyteau Bayard
- Institution: Cape Breton University, Canada

**INDUSCHEM 07**
- Title: Modelling of temperature for Simple Solar Still hybrid with Heat Pump (SSDHP)
- Speaker: Hidouri Khaoula
- Institution: National engineering school of Gabes, Tunisia

**INDUSCHEM 08**
- Title: Investigation of the efficiency of conventional water treatment processes for the elimination of DOC in Jalaliyeh water treatment plant, Tehran, Iran
- Speaker: Ali Asghar Najafpoor
- Institution: The University of Newcastle, Australia

**INDUSCHEM 09**
- Title: Synthesis of \(\text{Fe}_3\text{O}_4/\text{kaolin}\) magnetic nano-composite and its application in wastewater treatment
- Speaker: A Magdy
- Institution: Alexandria University, Egypt

**INDUSCHEM 10**
- Title: Kinetics and mechanism of sorption of Cr(VI) by nanoparticles of synthetic magnetite
- Speaker: O D Linnikov
- Institution: Russian Academy of Sciences, Russia

**Panel Discussion**

**Award Ceremony**