

17<sup>th</sup> International Conference on

# INDUSTRIAL CHEMISTRY AND WATER TREATMENT

May 21-22, 2018 | New York , USA



## CONFERENCE HALL: LEXINGTON 1

08:00-09:15 Registrations

09:15-09:30 Opening Ceremony

## Keynote Forum

09:30-09:40 Introduction

09:40-10:10 Title: Emerging p-conjugated stretched and contacted helices of substituted polyacetylenes prepared with an organo-rhodium catalyst  
Masayoshi Tabata, Muroran Institute of Technology, Japan

10:10-10:20 Questionnaires

## Panel Discussion

Networking &amp; Refreshment Break 10:20-10:40 @ Lobby Lounge

10:40-11:10 Title: Catalytic water purification driven by solar energy: Fundamental understanding and novel materials  
Junwang Tang, University College London, UK

11:10-11:20 Questionnaires

## Group Photo

11:20-11:50 Title: Enzyme as useful catalyst for precision synthesis of functional polysaccharide materials  
Jun-ichi Kadokawa, Kagoshima University, Japan

11:50-12:00 Questionnaires

12:00-12:30 Title: Application of the products by highly selective photocyclicaromatization of cis-cisoidal poly(substituted phenylacetylene)  
Toshiki Aoki, Niigata University, Japan

12:30-12:40 Questionnaires

12:40-13:10 Title: Improved 2-dimensional materials for hydrogen evolution reactions  
Ram K Gupta, Pittsburg State University, USA

13:10-13:20 Questionnaires

## Panel Discussion

Lunch Break 13:20-14:10 @ Lobby Lounge

## Sessions:

Waste Water Treatment | Polymer Science | Allotrope of Carbon | Industrial Microbiology | Organic Acids, Amines, Esters and Phenols | Chemistry of Alkyl Halides, Alcohols & Ethers | Organometallic Chemistry | Chemicals & Pharmaceuticals

Session Chair: Toshiki Aoki, Niigata University, Japan

Session Co-chair: Jun-ichi Kadokawa, Kagoshima University, Japan

14:10-14:40 Title: Speciation of selenium(IV) (selenite) and selenium(VI) (selenate) levels in human whole blood samples  
Victus Samlafo, University of Education, Ghana

14:40-14:50 Questionnaires

14:50-15:20 Title: Sulfated polysaccharides with potent antiviral activity  
Takashi Yoshida, Kitami Institute of Technology, Japan

15:20-15:30 Questionnaires

15:30-16:00 Title: Viscoelastic micellar solutions of dimeric surfactants in organic additives: 1H-NMR, rheology, SANS and TEM characterization  
Bharatkumar Kanoje, Sardar Vallabhbhai National Institute of Technology, India

16:00-16:10 Questionnaires

## Panel Discussions

Networking &amp; Refreshment Break 16:10-16:30 @ Lobby Lounge

## Sessions:

Chemicals & Pharmaceuticals | Geochemistry | Industrial Water Supply | Boiler Water Treatment | Green Water Treatment | Waste Water Treatment | Alkenes, Alkynes and Aromatic Compounds | Nano Materials in Water Treatment

**Session Chair: Manuel Alvarez Cuenca**, Ryerson University, Canada  
**Session Co-chair: Hussam Jouhara**, Brunel University London, UK

- 16:30-17:00** Title: Relation between total residual oxide (TRO) and redox potential (ORP) in seawater sterilization system based on surface discharge plasma  
Young Sun Mok, Jeju National University, Korea
- 17:00-17:10** Questionnaires
- 17:10-17:40** Title: NADP based colorimetric method for the determination of marine heavy metal pollution using sea urchin (*Tripneustes Gratilla*) egg extract  
Lirazan Marcelina, University of the Philippines Manila, Philippines
- 17:40-17:50** Questionnaires

#### Panel Discussions

**Day 2 May 22, 2018**

### CONFERENCE HALL: LEXINGTON 1

#### Keynote Forum

- 09:50-10:00** Introduction
- 10:00-10:30** Title: Chirality induction to polymers and oligomers using circularly polarized light through enantiomer selective photo excitation  
Tamaki Nakano, Hokkaido University, Japan
- 10:30-10:40** Questionnaires

#### Panel Discussion

#### Networking & Refreshment Break 10:40-11:00 @ Lobby Lounge

- 11:00-11:30** Title: The multistage vertical bioreactor in water engineering: Ammonia and phosphorous compounds removal from contaminated water  
Manuel Alvarez Cuenca, Ryerson University, Canada
- 11:30-11:40** Questionnaires
- 11:40-12:10** Title: Pyrolysis of domestic based feedstock up to 300°C and applications of its products  
Hussam Jouhara, Brunel University London, UK
- 12:10-12:20** Questionnaires
- 12:20-12:50** Title: Effects of magnetic treated water on rats and cows hemogasometry  
Geraldo Balieiro Neto, Sao Paulo State Government of Agriculture and Food Supply, Brazil
- 12:50-13:00** Questionnaires

#### Panel Discussions

#### Lunch Break 13:00-14:00 @ Lobby Lounge

#### Sessions:

Waste Water Treatment | Lead Drug Discovery | White Biotechnology and Green Chemistry | Industrial Photo Chemistry | Chemistry of Transition Elements | Material Science and Chemical Metallurgy | Petroleum and Polymer Processing

**Session Chair: Masayoshi Tabata**, Muroran Institute of Technology, Japan

**Session Co-chair: Junwang Tang**, University College London, UK

#### Session Introduction

- 14:00-14:30** Title: The behavior of nitrogen soluble forms in natural water in the presence of anionic and cationic surface-active substances and of mineral substrates  
Francisco Fernandez, Hostos Community College, USA
- 14:30-14:40** Questionnaires
- 14:40-15:10** Title: Effect of adding porcelain on properties of porous ceramic based on electromelted corundum  
Zaw Ye Maw Oo, D. Mendeleev University of Chemical Technology of Russia, Russia
- 15:10-15:20** Questionnaires
- 15:20-15:50** Title: Multifunctional engineering nanobiomaterials  
Prabir K Patra, University of Bridgeport, USA
- 15:50-16:00** Questionnaires

#### Panel Discussions



Networking & Refreshment Break 16:00-16:20 @ Lobby Lounge

Poster Presentations 16:20-18:00

Poster Judge: **Geraldo Balieiro Neto**, Sao Paulo State Government, Brazil

Poster Judge: **Ram K Gupta**, Pittsburg State Univerity, USA

Poster Judge: **Tamaki Nakano**, Hokkaido University, Japan

- INDUS 01** Title: **D-TiO<sub>2</sub>/ZnO degradation of contaminants present in residual water using TiO<sub>2</sub>/ZnO catalysts**  
Berenice Angel Hernandez, Benemerita Autonomous University of Puebla, Mexico
- INDUS 02** Title: **Application of *Chlorella Vulgaris* to wastewater for reuse**  
Celeste Solis Martinez, Benemerita Autonomous University of Puebla Mexico
- INDUS 03** Title: **Identification of genotoxicity in bioindicators produced by wastewater used for agricultural irrigation**  
Perez-Nava Jessica, Benemerita Autonomous University of Puebla, Mexico
- INDUS 04** Title: **Catalytic wet air oxidation for water purification**  
Korrin Saunders, Cardiff University, UK
- INDUS 05** Title: **Gold nanoparticles assembled on multilayer graphene sheets for surface enhanced Raman spectroscopy of glucose and related organic pollutants**  
Laila Al-garni, New Jersey Institute of Technology, USA
- INDUS 06** Title: **Control fouling in membrane distillation**  
Madihah Humoud, New Jersey Institute of Technology, USA
- INDUS 07** Title: **A long term aerosol prediction model based on a bi-directional long short term memory neural network**  
Inyoung Park & Jiwon Lee, Gwangju Institiute of Science & Technology, South Korea
- INDUS 08** Title: **Bacterial isolation capacity to metabolize organic waste from residual water**  
Rivera-Tapia A, Benemerita Autonomous University of Puebla, Mexico

Panel Discussion

Award Ceremony

Thanks Giving & Closing Ceremony

