Scientific Program

1st Global Geotechnical and Water Resource Engineering Summit

September 18-19, 2017   Hong Kong
# Day 1  September 18, 2017

## Keynote Forum

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:15-10:00</td>
<td>Available water resources index as an innovation on water quantity environments</td>
<td>Hi-Ryong Byun, Pukyong National University, South Korea</td>
</tr>
<tr>
<td>10:00-10:45</td>
<td>Constraining groundwater flow model uncertainty: Workflow and application to deep low-permeable formations</td>
<td>Dirk Mallants, Commonwealth Scientific and Industrial Research Organisation, Australia</td>
</tr>
</tbody>
</table>

## Networking & Refreshments 10:45-11:00 @ Foyer

### Group Photo

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00-11:45</td>
<td>Inclusion of hydrological indicators in the evaluation of forest restoration</td>
<td>Kelly Cristina Tonello, Federal University of São Carlos, Brazil</td>
</tr>
</tbody>
</table>

## Sessions:

- Ground Water
- Remote Sensing and GIS for Watershed Analysis
- Watershed Management
- Water Resource Planning and Management
- Environmental Engineering
- Hydrology

## Session Chair:

- **Mehman Agarza Oglu Rzayev**, Scientific Production Association of Hydraulic Engineering and Amelioration, Azerbaijan

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:45-12:15</td>
<td>A hierarchical approach for change detection of water areas using a multi-scale tile map</td>
<td>Yilang Shen, Wuhan University, China</td>
</tr>
<tr>
<td>12:15-12:45</td>
<td>Comprehensive analysis of the CATHY model sensitivity to soil hydrodynamic properties of a tile-drained agricultural micro-watershed</td>
<td>Mushombe Muma, Universite Nouveaux Horizons, DR Congo</td>
</tr>
<tr>
<td>12:45-13:15</td>
<td>Investigation on the swelling characteristics and unsaturated shear strength of expansive soils from Arba Minch in Ethiopia</td>
<td>Bantayehu Uba, Hawassa University, Ethiopia</td>
</tr>
</tbody>
</table>

## Lunch Break 13:15-14:00 @ Ballroom A

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00-14:45</td>
<td>Water as important geocological resource for the strategy of humanity's survival</td>
<td>Alexander Trofimov, Institute for Scientific Research in Cosmic Anthropoecology, Russia</td>
</tr>
</tbody>
</table>

### Special Session Title: Performance, problems and remedial measures for roads constructed on expansive soil in Ethiopia – A review

**Bantayehu Uba**, Hawassa University, Ethiopia

## Networking & Refreshments 15:45-16:00 @ Foyer

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:00-16:30</td>
<td>Groundwater suitability assessment before and after flash flood in the arid region, Western Saudi Arabia</td>
<td>Jalal M Basahi, King Abdulaziz University, Saudi Arabia</td>
</tr>
<tr>
<td>16:30-17:00</td>
<td>Rationalization of sustainability of water resources in Azerbaijan under intensive agriculture</td>
<td>Mehman Agarza Oglu Rzayev, Scientific Production Association of Hydraulic Engineering and Amelioration, Azerbaijan</td>
</tr>
<tr>
<td>17:00-17:30</td>
<td>Raise the compulsion theory of sustainability in rural drinking water supply system</td>
<td>Lila Prasad Limbu, Tribhuvan University, Nepal</td>
</tr>
</tbody>
</table>

## Panel Discussion
Day 2   September 19, 2017

Hall @ Ballroom B

Workshop

EARTH SCIENCE AND CLIMATE CHANGE

and

WATER RESOURCES SUMMIT

Combined Workshop

Title: Aqua-space suit as new geotechnology and universal human preventive mean during of heliophysical and climatic changes

Alexander Trofimov, Institute for Scientific Research in Cosmic Anthropoecology, Russia

Networking & Refreshments 11:00 -11:15 @ Foyer

EARTH SCIENCE AND CLIMATE CHANGE

and

WATER RESOURCES SUMMIT

Combined Workshop

Title: Aqua-space suit as new geotechnology and universal human preventive mean during of heliophysical and climatic changes (CONTINUED)

Alexander Trofimov, Institute for Scientific Research in Cosmic Anthropoecology, Russia

Lunch Break 12:15-13:15 @ Ballroom A

Special Session

13:15-14:00

Title: The Oxygenic Photogranule (OPG) process as a novel technology for wastewater treatment

Ahmed Abouhend, UMass Amherst, USA

Sessions:

Hydrometeorology | Water Quality Modelling | Climate Change | Geotechnical Engineering | Fluid Mechanics

Session Introduction

Session Chair: Mehman Agarza Oglu Rzayev, Scientific Production Association of Hydraulic Engineering and Amelioration, Azerbaijan

14:00-14:30

Title: Removal of excess toxic mercury (II) and arsenic (III) from wastewater by fish scales waste materials

Morlu Stevens, Botswana International University of Science and Technology, Botswana

14:30-15:00

Title: Key factors for flood control operation

Tae Jin Kim, Daegu University, South Korea

15:00-15:30

Title: Evaluation of statistical downscaling methodologies for Indian river basin

Kanhu Charan Patra, National Institute of Technology Rourkela, India

Networking & Refreshments 15:30-15:45 @ Foyer

Panel Discussion

Closing Ceremony

Next in Series

2nd International conference on Sustainable Water Resource Management and Development

April 23-24, 2018   Dubai, UAE