10th International Conference on
Chemistry Education and Research
June 21-22, 2018 | Oslo, Norway

Theme: “Contemporary Advances and Innovations in Chemistry”

Scientific Program

- Interactive Sessions
- Keynote/Plenary Lectures
- Workshops/Symposiums
- YRF/Best Poster Awards
- Exhibitors
- B2B Meetings

https://chemistryeducation.chemistryconferences.org/
June 21, 2018

Conference Hall: Tromso

09:00-09:45 Registrations

09:45-10:00 Opening Ceremony

10:00-10:40 Keynote Forum

Title: Conceptual assessment of learning outcomes from animations and simulations
Jerry P. Suits, University of Northern Colorado, USA

Title: Changes in science education for the 21st century
Eva Trnova, Masaryk University, Czech Republic

Networking & Refreshments Break 11:20-11:40 @ Foyer

11:40-12:20

Title: Changing trends in chemistry research modes and the imperative needs of chemistry education for gifted students
Manabu Sumida, Ehime University, Japan

Title: Electronic properties of various B-doped diamond (111)/dye molecule interfaces
Karin Larsson, Uppsala University, Sweden

Group Photo

Lunch Break 13:00-14:00 @ Brasserie Bassit

Sessions: Role of New Technologies: Chemistry Education | Polymer Chemistry
Session Chair: Jerry P. Suits, University of Northern Colorado, USA
Session Co-Chair: M Gloria Quintanilla, Universidad de Alcalá, Spain

14:00-14:30

Title: STEM education abroad: yes you can!
Kimberly B. Fields, University of South Florida, USA

Title: Graphene – exciting insights into the synthesis and chemistry of the miracle material of the 21st century and its implementation in chemistry lessons for the first time
Andreas Schedy, University of Education Freiburg, Germany

14:30-15:00

Title: Weekly reflection papers: Development of the strategy
Gloria Quintanilla, Universidad de Alcalá, Spain

Networking & Refreshments Break 15:30-15:50 @ Foyer

15:50-16:20

Title: Embedding petrochemical/nuclear components into analytical curricula: The chemical STEM bridging
Mian Jiang, University of Houston Downtown, USA

Title: Polymerization in monomer-water heterogeneous systems
Arnos Arshaki Hovhannisyan, National Academy of Sciences of Republic of Armenia, Armenia

Poster Session 16:50-17:40

P1
Double layered nanostructured composite coatings for biomimetic implant applications
Laura Floroian, Transilvania University of Brasov, Romania

P2
Title: Wear behaviors of boron-bearing new hardfacing alloys
Yi-ting Chang, National Tsing Hua University, Taiwan

P3
Title: Electrical conduction mechanism of amorphous As–S–Se chalcogenides with small concentration of Ag
S.R. Lukić-Petrović, University of Novi Sad, Serbia

P4
Title: Pooling of ideas after writing the individual "weekly reflection papers": Collaborative reflection
Gloria Quintanilla, Universidad de Alcalá, Spain

P5
Title: Theoretical study of pentyl alcohol acetylation
Silvana Claudia Caglieri, National Technological University, Argentina

Panel Discussion
June 22, 2018

**Sessions:** Chemistry Education | Biochemistry | Polymer Chemistry

**Session Chair:** Eva Trnova, Masaryk University, Czech Republic

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:30-10:00</td>
<td>Title: Enquiry for innovation in a primary science classroom - A pilot study focusing on a lesson on 'dissolving' in grade 5</td>
<td>Manabu Sumida, Ehime University, Japan</td>
<td>Ehime University, Japan</td>
</tr>
<tr>
<td>10:00-10:30</td>
<td>Title: How to motivate students to learn chemistry</td>
<td>Eva Trnova, Masaryk University, Czech Republic</td>
<td>Masaryk University, Czech Republic</td>
</tr>
<tr>
<td>10:30-11:00</td>
<td>Title: Understanding photography as applied chemistry: Using Talbot's calotype process to introduce chemistry to design students</td>
<td>Esther S. Rösch, Pforzheim University of Applied Sciences, Germany</td>
<td>Pforzheim University of Applied Sciences, Germany</td>
</tr>
</tbody>
</table>

**Networking & Refreshments 11:00-11:20 @ Foyer**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:20-11:50</td>
<td>Title: Cellular communication: Novel endocannabinoid-like lipids, fruit flies and other insects, N-acyltransferases, and subtraction lipidomics</td>
<td>David J. Merkler, University of South Florida, USA</td>
<td>University of South Florida, USA</td>
</tr>
</tbody>
</table>

**Young Research Forum**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:20-12:50</td>
<td>Title: Monitoring the level of knowledge of learners to tailor web-based exercises at an individual level</td>
<td>Oda Dahlen, Norwegian University of Science and Technology, Norway</td>
<td>Norwegian University of Science and Technology, Norway</td>
</tr>
</tbody>
</table>

**Lunch @ Brasserie Bassit**

- Award Ceremony
- Panel Discussion