

Eurovariety 2015 conference program

Tuesday, 30th of June

14.00-14.30 Opening: **Miia Rannikmäe, Peeter Burk, Iwona Maciejowska**

14.30-15.30 Keynote 1 – **Reiner Salzer** (introduced by Iwona Maciejowska)

Education and Careers of Chemists in the Higher Education Sector in Europe

15.30-16.00 Coffee break

16.00-18.00 Parallel sessions

Room A

Theme: [Training School chemistry teachers](#) (chair Jack Holbrook)

1. **Dragica Trivic & Vesna Milanovic (Serbia)**

Development of chemistry teachers' competencies related to assessment of scientific reasoning

2. **Jack Holbrook & Miia Rannikmäe (Estonia)**

Interdisciplinary chemistry – pre and in service teacher education approach

3. **Iwona Maciejowska, Mustafa Sözbilir & Anthony Smith (Poland)**

Towards Excellence in School Teaching – One of the Goals for European Chemistry and Chemical Engineering Education Network

4. **Insa Melle, Sandra Anus & Inga Kallweit (Germany)**

Individualised teaching in schools, in seminars for students at university and in in-service teacher training

Room B

Theme: [Training university chemistry lecturers](#) (chair Julie Hyde)

1. **Pat O' Malley & Odilla Finlayson (Ireland)**

Implementation and Evaluation of a Laboratory Tutor Training Programme

2. **Natasa Brouwer, Bill Byers, Iwona Maciejowska & Anthony Smith (Netherlands)**

An On-line Platform for Sharing Expertise and Good Practice in University Chemistry Teaching

3. **Ria Dolfing & Jan Apotheker (Netherlands)**

Strategies in developing and implementing protocols in quality assurance and improve educational development in tertiary education

4. **Julie Hyde (UK)**

Can you teach University Chemistry Abroad?

18.00-18.30 Poster session and soft drinks (chair Katrin Vaino)

1. Hanne Rautenstrauch & Maike Busker (Germany)

Academic Language and Subject Specific Language Abilities of Future Chemistry Teachers

2. Katrin Vaino, Toomas Vaino, Miia Rannikmäe & Jack Holbrook (Estonia)

Supporting in-service chemistry teachers' professional development through ESTABLISH modules

3. Elena Vysotskaya, Svetlana Khrebtova & Iya Rekhtman (Russia)

Feel the concept origin: Engaging pre-service teachers into design research of a learner-centered chemistry course for middle-school students

4. Apostolos J. Maroulis, Constantina P. Hadjiantoniou-Maroulis, Lemonia D. Antonoglou (Greece)

Green Chemistry and Sustainability as an Innovative Educational Tool for Future Chemistry Teachers in Greece

5. Ave Vitsut (Estonia)

Problem-based Learning as a Source of Inspiration for Teachers to Develop Curricula

6. Anneli Vahealu, Hille Eek, Malle Solnson & Katrin Vaino (Estonia)

Innovative teaching and innovative thinking in chemistry classroom

7. Klaara Kask & Miia Rannikmäe (Estonia)

Gymnasium graduates knowledge in chemistry - preparation for tertiary chemistry programmes

8. Inga Ploomipuu, Jack Holbrook & Miia Rannikmäe (Estonia)

Bridging a secondary-tertiary gap through implementing context-based teaching-learning modules at the tertiary level

9. Malle Solnson, Klaara Kask, Ana Valdmann, Katrin Vaino, Anne Laius & Miia Rannikmäe (Estonia)

EU project PROFILES in-service provision towards ownership of the teaching optional course „Science – Technology – Society“

18.30-19.30 Keynote 2 – **Peter Childs** (introduced by Dragica Trivic)

‘We’re not in Kansas any more!’: some challenges for teaching and learning third level (university) chemistry“

19.30 Buses to the reception venue (University History Museum)

20.00 – 21.30 Welcome reception

Wednesday, 1st of July

09.00-10.00 Keynote 3 – **Ivo Leito** (introduced by Peeter Burk)

Using MOOCs for teaching analytical chemistry: experiences at the University of Tartu

10.00-10.30 **Mart Noorma**

What is quality of teaching and learning in higher education and how can it be developed?

10.30-11.00 Coffee break

11.00-13.00 Parallel sessions

Room A

Theme: [Chemistry and interdisciplinary science at first year of tertiary education \(chair LEMONIA Antonoglou\)](#)

1. **Chris Thompson Chris & Mary-Rose Carroll (Australia)**

Student-generated drawings of chemistry at the sub-micro scale in the undergraduate laboratory

2. **Aishling Flaherty, Anne O'Dwyer, Sibel Erduran & J. Leahy (Ireland)**

Informing the Advancement of General Chemistry Laboratory Teaching to Ensure Successful Engagement and Progression of First Year Students

3. **Laura Rice, Kieran Nolan & Odilla Finlayson (Ireland)**

Creating More Meaningful Learning in Organic Chemistry

4. **Dieter Meissner, Enn Mellikov, Andres Öpik, Peeter Burk & Enn Lust (Estonia)**

Chemistry and Materials Science - High Level Learning via Research and Practical Training

Room B

Theme: [School chemistry teachers training \(chair Rachel Mamlok-Naaman\)](#)

1. **Jan Reguli (Slovakia)**

Equilibrium between chemical knowledge and teaching skills in pre service teachers' education

2. **Bernard Pawel, Iwona Maciejowska & Karol Dudek (Poland)**

IBSE and its assessment as a part of pre-service teacher training – a Polish case of SAILS project

3. **Maike Busker, Monika Budde & Hanne Rautenstrauch (Germany)**

Fostering of Cognitive Academic Language Acquisition in Chemistry – Consequences and Possibilities for Chemistry Teacher (Language) Training

4. **Rachel Mamlok-Naaman, Dvora Katchevich, Malka Yayon & Avi Hofstein (Israel)**

Teachers' reflective practice as a tool for following the development of their sense of ownership during a CPD workshop

13.00-14.00 Lunch

14.00-15.15 Keynote 4 - **Simon Lancaster** (introduced by Mariann Holmberg)

Facilitating Learning in the Lecture Theatre

15.15-15.45 **Philip Taylor (Belgium), Danuta Baralkiewicz (Poland), Ricardo Bettencourt da Silva (Portugal), Darinka Brodnjak Vončina (Slovenia), Ewa Bulska (Poland), Maria Filomena Camoes (Portugal), Sylvie Childs (France), Ryszard Dobrowolski (Belgium), Marc Elskens (Belgium), Vaidotas Gegevičius (Belgium), Ivo Leito (Estonia), Nineta H. Majcen (Belgium), Petko Mandjukov (Bulgaria), Josephine McCourt (Belgium), Jérôme Randon (France), Paavo Perämäki (Finland)**

A summer school where master students learn the skills needed to work in an accredited analytical laboratory

16.00-18.00 Parallel sessions

Room A

Theme: Context based teaching in chemistry education for promoting employability skills and developing skills that employers want in undergraduate chemistry degrees (chair Jan Reguli)

1. Niina Ronkainen (USA)

Teaching scientific process skills in a modern context in Analytical Chemistry courses at a private American university

2. Saara Kaski & Jan Lundell (Finland)

Developing specialist identity through first year chemistry education

3. Matthew Almond (UK)

Embedding Career Development Skills into the Chemistry Curriculum

4. Aivar Vinne (Estonia)

Is teaching chemistry really difficult and boring?

Room B

Theme: ICT and smart technologies in chemistry education (chair Pascal Mimero)

1. Jomy Samuel (USA)

Clustered Discussion Board: A Better Framework That Enhance Student Learning and Participation

2. Petr Šmejkal, Hana Čtrnáctová, Václav Martínek & Luděk Míka (Czech Rep.)

Stereoscopy in chemistry education - how we use it

3. Pascal Mimero (France)

Continuous Education training program in Chemistry and EChemTest®

4. Jaak Järv, Heli Väärtnõu-Järv (Estonia)

Multimedia in chemistry Education: need or fashion?

18.00 Buses to the Conference Dinner in Alatskivi

Thursday, 2nd of July

9.00-10.00 Workshop 1 **Simon Lancaster (UK)**

Questioning the question?

Workshop 2 **Dragica Trivic (Serbia)**

Development of scientific reasoning of future chemistry teachers – the activities from the chemistry didactics classroom

10.00-10.30 Coffee break

10.30 -11.30 Parallel sessions

Room A

Theme: [Problem-and inquiry-based teaching and learning in chemistry](#) (chair Hana Čtrnáctová)

1. Liliana Mammino (South Africa)

Students' understanding of the rate law, as highlighted by laboratory reports

2. Hana Čtrnáctová, Milada Teplá, Lenka Čtrnáctová & Petr Šmejkal, (Czech Rep.)

IBSE as an important part of chemistry teachers' education

Room B

Theme: [Problem-and inquiry-based teaching and learning in chemistry](#) (chair Luca Szalay)

1. Luca Szalay (Hungary)

Using Inquiry-based Approaches in Traditional Practical Activities

2. Anne O'Dwyer (Ireland)

Scaffolding Inquiry in Introductory Chemistry with molecular models

11.30-12.15 **Jaak Arold & Taavo Romann (Estonia)**

An audiovisual presentation: Large-scale learning material package "100+ Experiments in Chemistry"

12.15 -12.45 Closing Miia Rannikmäe, Iwona Maciejowska

12.45- 13.45 Lunch