

**P**rogramme  
*of the 2<sup>nd</sup> European Variety  
in Chemistry Education*



Prague, 27-30 June 2007

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**Note: This is the final version of conference programme, corrected and amended according the real state.**

## Scientific Programme

(Presenting author(s) is/are underlined.)

### Wednesday, June 27, 2007

10:00–18:00 **Registration** (Ground floor, Masarykova kolej)

13:00–15:00 **Opening ceremony** (Lecture hall, Masarykova kolej)

Welcoming addressees:

- Prof. Dr. Hana Čtrnáctová  
*the chair of conference*
- Prof. Dr. Stanislav Štech  
*the vice-rector of Charles University*
- Assoc. Prof. Dr. Ivan Jelínek  
*the vice-dean of Faculty of Science, Charles University*

#### Plenary lecture

- Jelínek, I.: *Chemistry education at Charles University.*

#### Intermezzo

- Junior choir “Rolnička”

15:00–15:30 Coffee break

15:30–18:00 **Plenary lecture** (Lecture hall, Masarykova kolej)

- Parchmann, I., Peper, M., Huber, A., Wickleder, M.: *Research-based development of exercises for heterogeneous groups of 1<sup>st</sup> year students of chemistry, life sciences and future chemistry teachers.*

#### Oral session 1 (chairperson: Prof. Ilka Parchmann)

- Bello, S., Herrera, A., Velázquez, L.: *In search of chemistry students' previous ideas related to chemical bonding.*
- Cardellini, L.: *Equilibrium problems: How to solve them.*
- Childs, P.E., Sheehan, M.A.: *What chemistry topics do students find difficult?*
- Cieřla, P., Nodzyńska, M., Pařko, J.R.: *The role of didactics of chemistry in moulding teachers' priorities of goals in chemical education.*

18:00–21:00 **Welcome reception** (Reception room, Masarykova kolej)

**Thursday, June 28, 2007**

- 8:30–9:00 Poster installation (*Arcades of lecture hall, Masarykova kolej*)
- Time for installation of posters of Poster session I (see p. 5).
- 9:00–15:00 **Registration** (*Ground floor, Masarykova kolej*)
- 9:00–9:45 **Plenary lecture** (*Lecture hall, Masarykova kolej*)
- Zoller, U.: *Assessment of beyond (just) “knowledge” – a doable practice in tertiary chemistry education.*
- 9:45–10:15 Coffee break
- 10:15–12:15 **Oral session 2** (*chairperson: Prof. Uri Zoller*)
- Overton, T., Potter, N.: *Context-based open-ended problems in chemistry.*
  - Salzer, R., Machill, S., Schulze, R., Haufe, M.: *Case studies for practicals in analytical chemistry.*
  - Uzuntiryaki, E., Capa Aydin, Y.: *The relationship between high school students’ chemistry self-efficacy and chemistry achievement.*
  - Žoldošová, K., Held, L.: *Content analysis of children’s preconceptions about chemical phenomena as an important resource for further analysis of predispositions required for the preconceptions development.*
  - Kelly, O.: *Snowballs, sugar paper and students – enhancing learning for non-chemists.*
  - Last, A.M.: *The butler did it: the use of detective fiction to illustrate some chemical and physical properties of gases.*
  - Gros, L., Drašar, P., Frankowicz, M., Maciejowska, I., Wallace, R.: *Equipping secondary school teachers with the tools for inspiring the next generation of young chemists.*
- 12:15–13:15 Lunch (*Restaurant, Masarykova kolej*)
- 12:15–13:30 **Poster session I** (*Arcades of lecture hall, Masarykova kolej*)
- 13:30–15:00 **Oral session 3** (*chairperson: Dr. Iwona Maciejowska*)
- Capa Aydin, Y., Uzuntiryaki, E.: *Chemistry self-efficacy: a study of gender and major differences among college students in Turkey.*
  - Lovatt, J., Finlayson, O.E., Ramirez, S.: *Modification of an expository laboratory for 1<sup>st</sup> year undergraduate chemistry.*
  - Finlayson, O.E., Lovatt, J., Ramírez-García, S.: *Small-scale teaching within large groups – empowering the tutors in a 1<sup>st</sup> year undergraduate chemistry laboratory.*
  - Štrofová, J., Richtr, V.: *Structured study of chemistry teaching at University of West Bohemia in Pilsen.*
  - Morgil, I., Yücel, A.S., Seçken, N., Temel, S.: *Effects of project oriented laboratory course on students’ anxiety and performance.*
- 15:00–15:30 Coffee break
- 15:30–19:00 **Sightseeing tour – Prague Old Town**
- 19:30–22:00 **Dinner in downtown Prague** (*Restaurant “Mánes”*)

## Friday, June 29, 2007

- 8:30–9:00 Poster installation (*Arcades of lecture hall, Masarykova kolej*)
- Time for installation of posters of Poster session II (see p. 6).
- 9:00–9:45 **Plenary lecture** (*Lecture hall, Masarykova kolej*)
- Tausch, M.W., Bohrmann-Linde, C.: *Curriculum modernization in chemical education.*
- 9:45–10:15 Coffee break
- 10:15–12:15 **Oral session 4** (*chairperson: Dr. Peter E. Childs*)
- Byers, B.: *ECTN (The European Chemistry Thematic Network): Promoting cooperation, harmony, synergy, and innovation throughout the EC.*
  - Čipera, J., Klímová, H., Chlubna, P., Dvořák, M., Kamlar, M., Roštejnská, M., Teplý, P.: *Chemistry education – computers – ICT.*
  - Ehses, M.: *Adapted remote learning: live video-streaming versus podcasting, a practical approach.*
  - Kwiatkowski, M., Karpińska, M., Rekić, E.: *Student's multimedia presentation as a part of chemistry teachers' training: a practical approach.*
  - Šulčius, A.: *Chemistry in Lithuanian schools and University of Technology.*
  - Węgrzynowicz, A., Gulińska, H.: *Interesting chemistry – multimedia collection of tasks.*
  - Seery, M.K.: *Development and implementation of problem-based and context based chemistry laboratories*
  - *Sponsor's presentation*
- 12:15–13:15 Lunch (*Restaurant, Masarykova kolej*)
- 12:15–13:30 **Poster session II** (*Arcades of lecture hall, Masarykova kolej*)
- 13:30–15:00 **Oral session 5** (*chairperson: Dr. Raymond Wallace*)
- Orlik, Y., Gonzalez, G.: *Using the schematic representation of teaching and learning materials in science classes.*
  - Fryzková, M., Adamec, M.: *Approach to implementation of science curriculum, with a special view to chemistry.*
  - Morgil, I., Yücel, A.S., Seçken, N., Temel, S.: *Determination of variables affecting secondary school chemistry teachers' technology utilization skills in teaching chemistry*
  - Maciejowska, I.: *Helping chemistry students to enter a labour market.*
  - Mimero, P.: *ECTNA, a major actor in European chemistry education. Eurobachelor® / Euromaster quality labels and EChemTest assessment tool to ease students mobility.*
- 15:00–15:30 Coffee break
- 15:30–19:00 **Sightseeing tour – Hradčany and Prague Castle**

19:30–22:00 **Conference dinner** (*Restaurant, Masarykova kolej*)

**Saturday, June 30, 2007**

9:00–9:45 **Plenary lecture** (*Lecture hall, Masarykova kolej*)

- Janiuk, R. M.: *Trainers of chemistry teachers – what we know about them and their work?*

9:45–10:15 Coffee break

10:15–11:30 **Oral session 6** (*chairperson: Assoc. Prof. Dr. Ryszard M. Janiuk*)

- Nesměrák, K.: *Laboratory course in analytical chemistry – some discussion remarks.*
- Šmejkal, P., Stratilová-Urválková, E.: *A comprehensive approach to experiments using the multifunctional data logger.*
- Miranowicz, N.: *Interactive Internet tools for practicing the correct representation of chemical compounds by means of structural formulae.*
- Burewicz, A., Miranowicz, M., Miranowicz, N.: *E-learning in continuously learning – I\*teach project.*

11:30–12:00 **Closing ceremony**

## List of Posters

(Presenting author(s) is/are underlined.)

### Poster session I (Thursday, June 28, 2007)

#### **Problem and context based chemistry education**

- P01 Arroio, A., Porto Francisco, R.H.: *Communicating science: Writing.*  
P02 Arroio, A.: *Discourse analysis into the preservice training of chemistry teacher.*  
P03 Gulińska, H.: *Teacher pre-learning as a problem included in the "Ciekawa Chemia" ("Interesting Chemistry") handbook*  
P04 Karawajczyk, B.: *Knowledge of solutions taken towards environmental protection – the survey among students*

#### **New methods in chemistry education**

- P05 Estteban, S., Pérez-Esteban, J.: *Chemistry and agriculture: A success of Liebig's ideas.*  
P06 Ganajová, M., Kukřová, L.: *Chemistry popularizing by means of project works dealing with the topic of "Constant sustainable development"*  
P07 Hernández, G., Carrillo, M., Irazoque, G., López, M. N., Nieto, E.: *Iron experiment as an example of knowledge integrating nucleus.*  
P08 McCrudden, E., Finlayson, O.E.: *The use of PADs in continuous assessment.*  
P09 Nieto, E., Carrillo, M., Hernández, G., Irazoque, G., López, M. N.: *Teaching innovations of themes difficult to understand in chemistry.*  
P10 Rideg, N., Pavlath, A., Nemeth, V.: *"Pictures of an exhibition" – a possible way to make chemistry more popular*

#### **Practical chemistry education – part I**

- P11 Burewicz, A., Jagodźński, P., Wolski, R.: *How to solve laboratory problems and tasks in chemical education?*  
P12 Di Fuccia, D.-S., Ralle, B.: *Lab work and the understanding of science.*  
P13 Maciejowska, I., Woźniakiewicz, M., Wietecha-Postuszny, R., Strzelecki, A., Słoboda, M., Kościelniak, P.: *The Flash MX supported manual for forensic chemistry students.*  
P14 Martínek, V., Šulcová, R., Martínková, M.: *How could chemistry teachers explain tobacco smoke toxicity and carcinogenicity to students?*  
P15 Melichová, Z., Nagyová, I.: *Electrochemistry and redox reactions in chemistry education.*  
P16 Skoršepa, M.: *Computer supported electrochemistry*

**Poster session II (Friday, June 29, 2007)****Practical chemistry education – part II**

- P17 Šulcová, R., Böhmová, H., Pisková, D.: *Present conception of laboratory activities in chemistry education*

**Information and communication technology (ICT) in chemistry education**

- P18 Ardac, D., Akaygun, S.: *Students' interpretations and gains from different animations on H-bonding.*
- P19 Bartoszewicz, M., Gulińska, H.: *The interactive voting system and the interactive display board in teaching elements of chemistry at the academic level*
- P20 Burewicz, A., Jagodziński, P., Wolski, R.: *Developing experimental abilities. Computer aided teaching for chemistry students*
- P21 Dąbek, M., Gulińska, H.: *The interactive whiteboard in teaching chemistry.*
- P22 Węgrzynowicz, A., Gulińska, H.: *Interesting chemistry – multimedia collection of tasks.*
- P23 Molnár-Hamvas, L., Molnár, J., Molnár J., jr.: *CAPA – new development for computer aided examination at University of West Hungary*
- P24 Urbanová, K., Čtrnáctová, H.: *Presentation as a component of university chemistry education*

**European and national educational programmes, projects and industry-education cooperation**

- P25 Aremo, N., Wähälä, K., Lindblom-Ylänne, S.: *Possibilities in applying research-based teaching in chemistry*
- P26 Babiarska, M., Grębosz, M., Krzeczowska, M., Kurek, A., Loch, J., Nowak, N., Silberring, B.: *From secondary school to the university.*
- P27 Kloc, Z., Rzączyńska, Z.: *Studies of knowledge standard in general chemistry of the first year chemistry students.*
- P28 Merino, C., Izquierdo, M., Tortosa, M.: *“Doing Chemistry” in a new context.*
- P29 Peper, M., Parchmann, I.: *Research-based development of courses in chemistry education for future chemistry teachers*
- P30 Priksane, A., Cedere, D., Silaraja, D.: *Development of organic chemistry teaching/learning environment for health and life science students*
- P31 Tóth, Z.: *Effect of instruction on the future teachers' knowledge structure regarding solving strategies of chemical problems*
- P32 Vössing, D.: *Multidisciplinary studies in science teacher education*
- P33 Irazoque Palazuelos, G., Carrillo Chávez, M., Hernández Millán, G., López Villa, N.M., Nieto Calleja, E.: *Chemical demonstration. An integrated methodology for chemical education.*



## Social Programme

### **Wednesday, June 27, 2007**

14:30–15:00 **Intermezzo**

- Junior choir “Rolnička” (Jingle Bell) was founded at Grammar school in Prague 12. Now the choir has 30 children. The choir sings classical Czech and Europe choral music, both sacred and secular, and Czech and foreign folk songs.

18:00–21:00 **Welcome reception** (*Reception room, Masarykova kolej*)

### **Thursday, June 28, 2007**

15:30–19:00 **Sightseeing tour Prague Old Town**

- Guide: Dr. Miroslav Marada (Charles University, Faculty of Science)
- Start at underground station “Staroměstská” – Jewish Town (Židovské město) – Old Town Square (Staroměstské náměstí) – Carolinum, the rectorate of Charles University – Wenceslav Square (Václavské náměstí) – National Theatre (Národní divadlo) – Prospect of Prague Castle and Charles Bridge from the Vltava riverbank – Restaurant “Mánes”.

19:30–22:00 **Dinner in downtown Prague** (*Restaurant “Mánes”*)

- Performance of dancing and singing formation “Slovácký krůžek v Praze” (Moravian-Slovakian ring in Prague) with the cimbalom band. The formation originated more than 100 years ago in Prague. Its main activity is folkloric music of the Slovácko region (the southern Moravia region).

### **Friday, June 29, 2007**

15:30–19:00 **Sightseeing tour Hradčany and Prague Castle**

- Guide: Prof. Dr. Miroslav Raab (Academy of Science of the Czech Republic, Institute of Macromolecular Chemistry)
- Strahov Monastery (Strahovský klášter) – Loretto – Prague Castle (Pražský Hrad) – St. Vitus' Cathedral (Svatovítská katedrála) – Prague Castle Gardens (Zahrady Pražského Hradu) – Prospect of Lesser Town and Old Town

19:30–22:00 **Conference dinner** (*Restaurant, Masarykova kolej*)

- Performance of folk group "OldaCRZ". The group was established in 1995. The repertoire is consisting of songs about love, friends and everyday life.

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