Programme
of the 2nd 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.

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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 Čtínáctová
  the chair of conference
• Prof. Dr. Stanislav Štěch
  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 1st year students of
chemistry, life sciences and future chemistry teachers.

Oral session 1 (chairperson: Prof. Ilka Parchmann)
• Bello, S., Herrera, A., Velázqués, 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?
• Cieśla, P., Nodzyńska, M., Paško, 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.

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., Ramírez-García, S.: Small-scale teaching within large groups – empowering the tutors in a 1st 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”)

Saturday, June 30, 2007

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

10:15–12:00  Oral session 4 (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.

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. 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., Ramírez-García, S.: Small-scale teaching within large groups – empowering the tutors in a 1st 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)**

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.
- Čípera, J., Klimová, H., Chlubna, P., Dvořák, M., Kamlar, M., Roštejnská, M., Teplý, P.: *Chemistry education – computers – ICT.*
- Kwiatkowski, M., Karpińska, M., Rekielec, E.: *Student’s multimedia presentation as a part of chemistry teachers’ training: a practical approach.*
- Sulčius, A.: *Chemistry in Lithuanian schools and University of Technology.*
- 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)**
- Frýzková, M., Adamec, M.: *Approach to implementation of science curriculum, with a special view to chemistry.*
- Maciejowska, I.: *Helping chemistry students to enter a labour market.*
- Mimo, 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.: Trainees 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.

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
P02 Arroio, A.: Discourse analysis into the preservice training of chemistry teacher.
P03 Gulnska, 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 Esteban, S., Perez-Esteban, J.: Chemistry and agriculture: A success of Liebig’s ideas.
P06 Ganajova, M., Kukfova, L.: Chemistry popularizing by means of project works dealing with the topic of “Constant sustainable development”
P08 McCruden, E., Finlayson, O.E.: The use of PADs in continuous assessment.
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., Jagodziinski, 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.
P14 Martinek, V., Sulcová, R., Martinková, M.: How could chemistry teachers explain tobacco smoke toxicity and carcinogenicity to students?
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 Bartoszewic, M., Gulińska, H.: The interactive voting system and the interactive display board in teaching elements of chemistry at the academic level


P21 Dabek, M., Gulińska, H.: The interactive whiteboard in teaching chemistry.


P23 Molnár-Hamvas, L., Molnár, J., Molnár J., jr.: CAPA – new development for computer aided examination at University of West Hungary

P24 Urbanová, K., Čtnáctová, H.: Presentation as a component of university chemistry education

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


P26 Babiarska, M., Grębosz, M., Krzeczkowska, M., Kurek, A., Loch, J., Nowak, N., Silberring, B.: From secondary school to the university.

P27 Kloc, Z., Rzeczyńska, Z.: Studies of knowledge standard in general chemistry of the first year chemistry students.


P29 Peper, M., Parchmann, I.: Research-based development of courses in chemistry education for future chemistry teachers

P30 Priksane, A., Cedere, D., Silraja, 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

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)

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**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).

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**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 (Svatovitá 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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