

PROGRAM RADA SEKCIJE *OBRAZOVANJE* - 22. HRVATSKI SKUP KEMIČARA I KEMIJSKIH INŽENJERA

Tijekom XXII. Skupa hrvatskih kemičara i kemijskih inženjera, aktivnosti sekcije *Obrazovanje* održat će se u osnovnoj školi *Petar Zrinski* (adresa: Krajiška 9, Zagreb). Jedino će pozvano predavanje (**Hrvoj Vančik** *Rasprava o dvama glavnim sveučilišnim sustavima*) biti održano u hotelu *Four Points by Sheraton Panorama* u srijedu, 16. veljače, od 14⁰⁰ do 15⁰⁰ sati.

Aktivnosti sekcije *Obrazovanje* dijele se na pozvano predavanje (45 + 15 min), odabrana predavanja (45 + 15 min), kratka usmena priopćenja (15 + 5 min), radionice (90 min) i posterska priopćenja.

Posterska priopćenja bit će izložena u školi od ponedjeljka 14. veljače u 16⁰⁰ sati do srijede 16. veljače u 19⁰⁰ sati. Maksimalna dimenzija postera je 90 x 110 cm.

Za sudjelovanje na radionicama **potrebno je prijaviti se dr. sc. Nenadu Judašu** (najbolje e-mailom: judas@chem.pmf.hr) najkasnije do **10. veljače 2011.** godine. Pri prijavi je potrebno navesti: ime i prezime te vrstu sudionika (Osnovnoškolski nastavnik, Srednjoškolski nastavnik ili Ostali).

Osim navedenih, bit će ponudene i druge radionice, ovisno o broju i vrsti prijavljenih sudionika.

The venue of the section *Education* during the XXII Croatian Meeting of Chemists and Chemical Engineers is the primary school *Petar Zrinski* (address: Krajiška 9, Zagreb).

Only the invited lecture (**Hrvoj Vančik** *Discussion about the two major university systems*) will be held at the hotel *Four Points by Sheraton Panorama* on Wednesday, Feb 16th, between 14:00 and 15:00 hours.

There are five types of contributions to the section *Education*: invited lecture (45 + 15 min), selected lectures (45 + 15 min), short oral communications (15 + 5 min), workshops (90 min) and posters.

Posters may be put on the boards on Monday, Feb 14th, at 16:00 hours and should be removed on Wed, February 16th, at 19:00 hours. Poster size should not exceed 90 x 110 cm.

Those attendees who want to participate at the workshops should register (best by e-mail: judas@chem.pmf.hr) to dr. sc. Nenad Judaš **before** February 10th 2011. It is important to give the name and surname of the attendee and to declare the type (Primary school teacher, High-school teacher, Other).

Accept listed workshops, additional workshops will be organized depending on the number and type of the attendees.

Time	Monday - Day One Feb 14 th 2011	Title and type of the contribution
16:00	S. Rupčić Z. Weihnacht <i>Prirodoslovna škola Vladimira Preloga, Zagreb, CRO</i>	<i>An Example of the Fieldwork for Environmental Technicians - Gorski kotar</i> Short oral communication (kratko usmeno priopćenje)
16:20	K. S. Wissiak Grm V. Ferk Savec <i>University of Ljubljana, Ljubljana, SLO</i>	<i>Use of active learning methods by prospective chemistry teachers</i> Short oral communication (kratko usmeno priopćenje)
16:40	N. Gros <i>University of Ljubljana, Ljubljana, SLO</i>	<i>The results of the EU "Hands-on approach to analytical chemistry vocational schools II"</i> Short oral communication (kratko usmeno priopćenje)
17:00	M. Vrtačnik, M. Jurišević, M. Kwiatkowski, N. Gros <i>University of Ljubljana, Ljubljana, SLO</i>	<i>The impact of students' motivational orientations and study program on their attitudes towards hands-on approach to visible spectrometry</i> Selected lecture (odabrano predavanje)
18:00	N. Gross <i>University of Ljubljana, Ljubljana, SLO</i>	<i>Hands-on approach to visible spectrometry in vocational schools</i> Workshop (radionica) (pogodna za srednjoškolske nastavnike - suitable for high-school teachers)
19:30		End of the Day One

Time	Tuesday - day Two Feb 15 th 2011	Title and type of the contribution
16:00	D. Cinčić, M. Pravica*, V. Stilinović, I. Đilović, S. Meštrović, N. Maričić <i>University of Zagreb, Zagreb, CRO</i> <i>*Dječiji vrtić Jarun, Zagreb, CRO</i>	<i>Chemistry in the kindergarden - a workshop for pre-school children</i> Short oral communication (kratko usmeno priopćenje)
16:20	V. Stilinović F. M. Brückler <i>University of Zagreb, Zagreb, CRO</i>	<i>What are the orbitals and what they should (not) be used for</i> Short oral communication (kratko usmeno priopćenje)
16:40	M. Luetić <i>III. gimnazija, Split, CRO</i>	<i>Written chemistry tasks: symbolic language and the other difficulties in solving stoichiometry problems</i> Short oral communication (kratko usmeno priopćenje)
17:00	D. Mrvoš-Sermek <i>University of Zagreb, Zagreb, CRO</i>	<i>Misconceptions in learning chemistry</i> Short oral communication (kratko usmeno priopćenje)
17:30	P. Vrkljan <i>E-škola kemije CRO</i>	<i>Calculating electronegativities from ionization energies and construction of the periodic system of elements</i> Selected lecture (odabrano predavanje)
18:30		End of the Day Two

Time	Wednesday - Day Three Feb 16 th 2011	Title and type of the contribution
16:00	N. Judaš M. Štetić <i>University of Zagreb, Zagreb, CRO</i>	<i>Using symbolic language to describe chemical changes - chemical equations</i> Workshop (radionica) (pogodna za osnovnoškolske i srednjoškolske nastavnike - suitable for primary or secondary school teachers)
18:00	V. Stilinović <i>University of Zagreb, Zagreb, CRO</i>	<i>Chemical Equilibrium via Dissolution of Solids</i> Workshop (radionica) (pogodna za srednjoškolske nastavnike - suitable for high-school teachers)
19:30	N. Judaš V. Stilinović P. Vrkljan <i>University of Zagreb, Zagreb, CRO</i> <i>E-škola kemije, CRO</i>	<i>Final experiments on the seminars of the E-school of chemistry</i> Oral communication with experimental demonstrations (kratko usmeno priopćenje uz izvođenje pokusa)
20:00		End of the Day Three