

Conference Program

Friday, October 29, 2010

- 14:00-16:00 Registration and welcome drink
- 16:00-16:40 Opening ceremony
Nanostructures and conjugated hydrocarbons (chair: Damir Vukičević)
- 16:40-17:10 Ante Graovac: *Topological Coordinates for Carbon Nanostructures*
- 17:10-17:40 Milan Randić: *Graph Theoretical Approach to π -Electron Currents in Polycyclic Conjugated Hydrocarbons*
- 17:40-18:10 Mircea V. Diudea: *All-Pentagonal Face Nano-Dendrimer and Related Structures*
- 18:10-18:40 COFFEE BREAK
Peptides and Proteins (chair: Milan Randić)
- 18:40-19:10 Mirjana Novič: *Visualization of Protein Sequences and Classification of Trans-membrane Segments*
- 19:10-19:40 Davor Juretić: *Structural asymmetries and biological activity of membrane-transforming-peptides*
- 20:00- DINNER

Saturday, October 29, 2010

- 08:00-09:00 BREAKFAST
Molecular Descriptors I (chair: Matevž Pompe)
- 09:00-09:30 Damir Vukičević: *Bond Additive Modeling*
- 09:30-10:00 Janez Žerovnik: *Graphs with given number of cut-edges and minimal value of Szeged and Revised Szeged index*
- 10:00-10:30 Tomislav Došlić: *Augmented eccentric connectivity index*
- 10:30-11:00 COFFEE BREAK
Molecular Descriptors II (chair: Ante Graovac)
- 11:00-11:30 Ivan Gutman: *The Graph-Energy Disease*
- 11:30-12:00 Nenad Trinajstić: *On Sum-Connectivity Index, a Novel Addition to the Family of Connectivity Indices*
- 12:00-12:30 BREAK
Molecular Descriptors III (chair: Tomislav Došlić)
- 12:30-13:00 Lorentz Jäntschi: *Distribution of QSARs correlation coefficients*
- 13:00-13:30 Martin Šala: *QSAR model for the estimation of toxicological effects of organic chlorinated pollutants*
- 13:30- LUNCH

Air Pollution (chair: Martin Šala)

17:30-18:00 Matevž Pompe: *Calibration of mass selective detector in non-target analysis of volatile organic compounds in the air*

18:00-18:30 Leo Klasinc: *Photochemical pollution indicators from ozone data*

18:30-19:00 COFFEE BREAK

Researching with(in) EU (chair: Dragutin Svrtan)

19:30-20:00 Boris Horvat: *Researching with(in) EU*

20:00- DINNER

Sunday, October 29, 2010

08:00-09:00 BREAKFAST

Mathematics (chair: Janez Žerovnik)

09:00-09:30 Dragutin Svrtan: *New Brahmagupta formula and its applications to intrinsic geometry of cyclic polygons*

09:30-10:00 Primož Lukšič: *NP-hardness of the distance-balanced edge addition problem*

10:00-10:30 COFFEE BREAK

Applications (chair: Boris Horvat)

10:30-11:00 Iztok Kavkler: *Visual method for measurement of flow velocity*

11:00-11:30 Veljko Zlatić: *New materials for thermoelectric applications: theory and experiment*

11:30-11:45 Closing Ceremony

12:00- LUNCH