

Perspectives of Systems Biology and Ecology



2008

The symposium will be organized by the Institute of Systems Biology & Ecology
and held on August 27-29, 2008 in Nové Hradky, Czech Republic

PROGRAMME

Tue Aug.26

19:00 *Dinner*

Wed Aug.27

9:00-12:30 *Arrival, accommodation*

12:30 *Lunch*

13:45 Marek M.: Welcome address

13:55 Nedbal L.: Meeting organization and objectives

14:00-15:00 Primack R.: *Current topics in conservation biology*

15:00-15:30 Kindlmann P.: *Perspectives in biodiversity research*

15:30-16:00 Zacharda M., Kučera T., Sedláček F., Šálek M.: *Landscape structure is important for conservation of biota under impact of climate change*

16:00 *Coffee break*

16:30-17:30 Prestwich G.: *Drug discovery and chemical biology in three-dimensions*

17:30-18:00 Lazar J., Bondar A.: *Novel optical probes of neural system activities*

18:00-18:15 Vrchetová N., Tříška J.: *Possibilities and limitations of plant metabolomics*

18:15-18:45 Šafaříková M., Šafařík I., Šabatková Z.: *Magnetic nano- and microparticles for bio-applications*

19:00 *Welcome party – Mirror Hall*

20:00 *Posters, drinks & snacks*

Thu Aug.28

8:00 *Breakfast*

9:00-10:00 Antrop M.: *The contribution of landscape ecology in research, planning and policy*

10:00-10:20 Lapka M., Cudlínová E., Dvořáková-Líšková Z.: *Landscape, ecology, and systems approach: Inspiration for social sciences*

10:20-10:40 Těšitel J., Bartoš M., Kušová D., Zemek F.: *Political decision making - driving force for landscape change*

10:40 *Coffee break*

11:10-11:30 Pithart D., Cudlín P., Pokorný J., Pechar L., Dušek J., Cudlínová E., Křováková K., Prokopová M., Stará L., Burešová R., Plch R.: *Analysis of ecosystem processes as a background for the evaluation of ecosystem services*

11:30-11:45 Ameixa O., Kindlmann, P.: *Beetles at our service*
11:45-12:45 **Gross L.: Multi-scale modeling of ecological systems: Systems biology in application to natural resource management**
12:45 Lunch
14:00-15:00 **Grace J.: The biosphere and the atmosphere as a biophysical system**
15:00-15:20 Urban O., Kořvančová M., Šprtová M., Ač A., Pavelka M., Pokorný R., Janouš D. a Marek M.V.: *Key physiological processes related to carbon cycling;*
I. Fluxes within ecosystems
15:20-15:40 Janouš D., Taufarová K., Havránková K., Pavelka, M., Acosta M., Tomašková I.: *Key physiological processes related to carbon cycling;*
II. Fluxes between ecosystem and atmosphere
15:40 Coffee break
16:10-16:30 Dušek J., Čížková, H.: *Carbon accumulation and related processes in the sedge grass marsh*
16:30-17:00 Pokorný J., Čížková H., Pechar L.: *Fluxes of energy, water and matter in organisms and ecosystems*
19:00 Dinner
20:00 Posters, drinks & snacks

Fri Aug.29

8:00 Breakfast
9:00-10:00 **Palme K.: Towards understanding hormone action in plants – from single cells to complex organs**
10:00-10:30 Nedbal L., Červený J., Benediktyová Z., Matouš K., Mishra A., Tesař R., Schmidt H., Pakrasi H., Trtílek M.: *Towards understanding systemic nature of photosynthesis*
10:30-11:00 Olejníčková J., Ač A., Mishra A., Kořvančová M., Urban O., Malenovský Z.: *Remotely sensed plant optical signals and their correlation with plant photosynthesis*
11:00 Coffee break
11:30-12:00 Malenovský Z., Hanuš J., Ač A., Homolová L., Kaplan V., Lukeš P., Pokorný R., Cudlín P., Schaepman M., Marek M.: *Towards remote sensing of physiological processes: Up-scaling the reflectance and fluorescence signals of vegetation*
12:00-12:15 Reshak A., Sarafis V., Heintzmann R.: *Second harmonic imaging of chloroplasts using the two-photon laser scanning microscope*
12:15 Lunch
14:00-15:00 **Carey J.: The Gestalt of molecular recognition**
15:00-15:30 Ettrich R., Csefalay E., Kutá Smatanová I., Carey J, Lapkouski M.: *A translocation model for type I restriction-modification systems*
15:30-16:00 Kaftan D., Ettrich R., Kutý M., Ristvejová J., Babak M.: *Structure-function relationships in Photosystem II*
16:00 Coffee break
16:30 **Founding meeting of the ISBE International Advisory Board**
18:00 Dinner
19:00 **Moderated discussion formulating conference conclusions**

Sat Aug.30

8:00 Breakfast

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