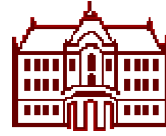


Institute of Physical Biology  
Slovenia



Univ. Milano – Bicocca  
Dept. of Material  
Science



Univ. Ljubljana, Biotechnical Faculty  
Biology Department  
Slovenia

## 2<sup>nd</sup> International Scientific Meeting on Weak Photon Emission from Living Tissues: Delayed Luminescence – Facts and Perspectives

### Timetable

#### Tuesday, 23.3.2004

Whole day      Arrival and registration of participants  
20:00            Introductory lecture by Prof. Marziale Milani:  
                     Synergy between Quantum Optics and Biology

#### Wednesday, 24.3.2004

9:00 – 9:15    Welcoming of participants – the Organizing Committee

9:15 – 10:30    **DL experimental results** (Chair: V. Goltsev)  
                     Fritz-Albert Popp  
                     Recent results of delayed luminescence from plant and animal tissues  
                     Alexis Zrimec  
                     Delayed luminescence of algae and higher plants

10:30 – 11:00    Coffee break

11:00 – 12:15    **DL experimental results** (Chair: F.A. Popp)  
                     Vassilij Goltsev  
                     Kinetics of millisecond delayed chlorophyll fluorescence as a probe of  
                     Photosystem II function  
                     Ivelina Zaharieva  
                     Thermograms of kinetic components of millisecond delayed  
                     fluorescence dark decay in whole leaves

12:30 – 14:00    Lunch

14:00 – 15:40    **Theories and models** (Chair: M. Milani)  
                     Emilio Del Giudice  
                     Sonoluminescence: a possible model for bioluminescence  
                     Jiří Pokorný  
                     Endogenous Electromagnetic Fields in Biological Systems: Implications for  
                     Electron Transfer in Chloroplasts  
                     Fedor Šrobár  
                     Feedback features in the intracellular processes

15:40 – 16:10    Coffee break

- 16:10 – 17:30 **DL data analysis** (Chair: E. Del Giudice)  
 Marziale Milani & Ariana Ciardi  
 Nonlinearities and data analysis: towards a quantitative investigation of DL  
 Luka Drinovec  
 Analysis and interpretation of DL kinetics
- 17:30 Round table on delayed luminescence (Chair: A. Zrimec)

#### Thursday, 25.3.2004

- 9:00 – 10:30 **Physiology and metabolism I** (Chair: M. Berden Zrimec)  
 Damjana Drobne  
 Visualisation of ROS in *Porcellio scaber* (Isopoda, Crustacea)  
 Jasmina Kožar Logar  
 New methods in phytoplankton cell lysis detection  
 Gregor Zupančič  
 Analysis of insect respiratory chain response in vivo to step pO<sub>2</sub> changes
- 10:30 – 11:00 Coffee break
- 11:00 – 12:10 **Physiology and metabolism II** (Chair: J. Pokorný)  
 Federica Causa  
 The role of electromagnetic interactions in metabolism  
 Chiara Cagnana  
 UV radiation and biosystems: the importance of a metabolic analysis  
 Silvia Scivittaro  
 Environmental toxicity assessment by metabolic investigation  
 Silvia DiTollo  
 Magnetic field effects on biosystems
- 12:10 – 13:40 Lunch
- 13:40 – 14:40 **Imaging** (Chair: D. Drobne)  
 Marziale Milani  
 FIB imaging and milling in biology  
 Rok Kostanjšek  
 Application of fluorescent hybridisation *in situ* in microbial ecology
- 14:40 – 15:10 Coffee break
- 15:10 – 16:10 **DL measuring equipment:** (Chair: F. Šrobár)  
 Lorenzo Ferraro  
 Improvements of techniques for DL detection  
 Alexis Zrimec, Marziale Milani  
 Imaging DL kinetics with EM CCD
- 16:10 – 17:00 Conclusions (Chair: M. Milani)

#### Friday, 26.3.2004

Visit of Institute of Physical Biology laboratory and Dept. of Biology, Univ. of Ljubljana  
 Departure of participants