August 23—24, 2010

Small Physics Lecture Room, Peterlin's Pavilion, Jadranska 26, Ljubljana

Understanding cell communication using modern microelectronics

Monday, 23 August

- 14.00 Symposium opens
- 14.30 Stuart Tobet and Tom Chen:

Overview of Biosensor Research at Colorado State University (CSU)

- 15.30 Coffee break
- 16.00 **Gregor Majdic** (Veterinary faculty, University of Ljubljana): "Steroidogenic factor 1 knockout mice as a model for studying hypothalamic development"
- 16.30 Krystle Frahm (GK-12 Fellow, CSU): "Blood vessels in brain development"
- 17.00 **Matt Stratton** (GK-12 Fellow, CSU): "Forming a cell group in developing brain"
- 17.30 **Tomaz Budefeld** (Veterinary faculty, University of Ljubljana): "Hormone independent sex differences in steroidogenic factor 1 knockout mice"

Tuesday, 24 August

9.00 **Drago Strle** (Faculty of Electrical Engineering, University of Ljubljana): Title to be announced

Matt Duwe (GK-12 Fellow, CSU): "Challenges of designing analog front-end and back-end DSP components for the CHIP project"

Samo Hocevar (Natonal Institute of Chemistry): Title to be announced

10.00 Coffee break

10.30 **Steve Benoit** (GK-12 Fellow, CSU): "Mathematical modeling biological events and cell-cell communication"

Ana Hocevar (Faculty of mathematics and physics, University of Ljubljana): "Models of simple cell aggregates"

Tanja Spanic (Veterinary faculty, University of Ljubljana): "Transcriptome analysis of brain from Steroidogenic factor 1 knockout mice"

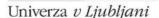
- 11.30 Lunch
- 12.30 **Katerina Ceh** (Veterinary faculty, University of Ljubljana): "Pesticides as endocrine disruptors"

Jasmina Kercmar (Veterinary faculty, University of Ljubljana): "Social recognition during puberty affects social behavior in adult mice"

Neza Grgurevic (Veterinary faculty, University of Ljubljana): Behavioral characterization of steroidogenic factor-1 knockout mice

Marko Zivin (Medical Faculty, University of Ljubljana): Characterization of dopaminergic mechanisms of a novel antiaddictive drug.

- 14.00 Coffee break
- 14.30 Panel Session: Tom Chen, Stu Tobet, Gregor Majdic, Drago Strle,
 Ana Hocevar: Creating a truly interdisciplinary research program across
 national borders Further collaborations between Colorado State University
 and University of Ljubljana
- 15.30 Adjourn







GK-12 Program
A Multi-Disciplinary
Research and Teaching
Program in Biomedical
Engineering for
Discovery and
Understanding of Cell
Communication

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