



AEMIS 2016

International workshop

**Acoustic and electrochemical methods in
the study of affinity interactions at surfaces**

Program

**20 JUNE 2016
BRATISLAVA, SLOVAKIA**

Program

June 20, 2016

08:30-09:30 **Registration**

09:30-10:10 **Prof. Michael Thompson**, University of Toronto, Canada: "*Surface chemistry for an anti-fouling ultra-high frequency acoustic wave biosensor*"

10:10-10:40 **Prof. Electra Giseli**, FORTH, Heraklion, Greece: "*Acoustic devices as a powerful tool for biophysical studies and molecular diagnostics*"

10:40-11:10 **Prof. Petr Skládal**, Masaryk University, Brno, Czech Republic: "*Immunosensing of pathogens: comparison of piezoelectric, electrochemical and optical transducers*"

11:10-11:40 **Coffee break**

11:40-12:20 **Prof. Joseph Wang**, University of California San Diego, USA: "*Self-propelled bioaffinity sensors*"

12:20-12:50 **Prof. Maria Minunni**, University of Florence, Italy: "*Affinity sensing: recent advances*"

12:50-14:00 **Lunch**

14:00-14:40 **Dr. Ilia Ivanov**, Oak Ridge National laboratories, USA: "*Addressing the challenge of structure - functional characterization of thin polymer films*"

14:40-15:00 **Dr. Andreas Ebner**, JKU Linz, Austria: "*Single molecule sensing: From AFM tip chemistry to receptor – ligand energy landscapes*"

15:00-15:20 **Dr. Michael Leitner**, JKU Linz, Austria: "*Bio-medical AFM imaging using self-sensing cantilever*"

15:20-15:40 **Dr. Alexandra Poturnayová**, Comenius University, Bratislava, Slovakia: "*Acoustics and AFM studies of protein cleavage by plasmin*"

15:40-16:00 **Dr. Zsofia Keresztes**, RCNS Budapest, Hungary: "*Electrochemical enzyme activity assays in raw milk samples – application in a regional quality control survey*"

16:00-17:00 **Coffee break and posters**

17:00-17:30 **Dr. Ralf Lucklum**, Otto-von-Guericke-University Magdeburg, Germany: "*Phononic Crystals - A device for inside sensing?!*"

17:30-17:50 **Margarida Altas**, University College Dublin, Ireland: "*Ultrasonic monitoring of enzyme catalysis. Formulations for lactose intolerant infants and controlled hydrolysis of proteins*"

17:50-18:20 **Prof. Emil Paleček**, Institute of Biophysics, Czech Academy of Sciences, Brno, Czech Republic: "*Electrochemistry of biomacromolecules and affinity interaction at electrode surfaces*"

18:20-18:40 **Dr. Veronika Ostatná**, Institute of Biophysics, Czech Academy of Sciences, Brno, Czech Republic: "*Chronopotentiometric analysis of protein interactions*"

18:40 **Concluding remarks**

19:00 **Dinner**