Modern techniques in photoelectron spectroscopy – experiments and data analysis

October 19-22, 2015

Location:
Centrum Szkoleniowo - Konsultacyjne BGŻ S.A.
Fabryczna 1
05-084 Leszno

The invited lecturers are:

Dr. John Åhlund, VG Scienta AB, Uppsala University, Sweden
Photoelectron spectroscopy - instrumentation and applications

Prof. Krystyna Jabłońska, Institute of Physics PAS, Warsaw, Poland
XPS studies of multiphase materials

Prof. Aleksander Jabłoński, Institute of Physical Chemistry PAS, Warsaw, Poland
Parameterization of quantitative applications of XPS

Prof. Jacek Kołodziej, Jagiellonian University, Kraków, Poland
Photoelectron spectroscopy studies of surfaces

Dr. Wojciech Lisowski, Institute of Physical Chemistry PAS, Warsaw, Poland
Sputter depth profiling in XPS

Dr. Laurent Nittler, Institute of Physics PAS, Warsaw, Poland
First experience with the XPS system in IP PAS

Dr. Ewa Przeździecka, Institute of Physics PAS, Warsaw, Poland
ZnO doped by one, two or three acceptors (As, N, Sb)- electronic structure, optical and electrical properties

Prof. Sven Tougaard, Syddansk Universitet, Odense, Denmark
Quantitative XPS of nano-structures with the QUASES software- Practical applications
and tutorial examples

Prof. Jacek Szade, University of Silesia, Katowice, Poland
Resonance and standard photoemission studies of thin film systems - determination f valence state
and reactions at interfaces

Prof. Wolfgang Werner, Technische Universitat, Wien, Austria
Quantitative Interpretation of XPS spectra on nanostructured surfaces with a focus n core-shell nanoparticles

There is no registration fee. The registration can be made by email to:
Anna.Wolska(at)ifpan.edu.pl

Workshop organizing committee:
Prof. Bogdan Kowalski - Workshop chairman
Dr. Marcin Klepka
Dr. Anna Wolska
Maciej Zajączkowski

CAPACITIES

EAgLE
European Action towards Leading Centre
for Innovative Materials

October 19, Monday

12:00 - 13:00	registration	
13:00 - 14:30	**lunch**	
14:30 - 14:45	Prof. Bogdan Kowalski Welcome	**15 min**
14:45 - 16:15	Dr. John Åhlund Photoelectron spectroscopy - instrumentation and applications	**1h 30 min**
16:15 - 16:45	**coffee break**	
16:45 - 17:25	Dr. Laurent Nittler First experience with the XPS system in IP PAS	**40 min**
17:25 - 18:05	Dr. Ewa Przeździecka ZnO doped by one, two or three acceptors (As, N, Sb) - electronic structure, optical and electrical properties	**40 min**
18:30 - 19:30	**dinner**	

October 20, Tuesday

9:30 - 11:00	Prof. Jacek Kołodziej Photoelectron spectroscopy studies of surfaces	**1h 30 min**
11:00 - 11:30	**coffee break**	
11:30 - 13:00	Prof. Sven Mosbæk Tougaard Quantitative XPS of nano-structures with the QUASES software- Practical applications and tutorial examples	**1h 30 min**
13:00 - 14:30	**lunch**	
14:30 - 16:00	QUASES exercises	**1h 30 min**
16:00 - 16:30	**coffee break**	
16:30 - 18:00	QUASES exercises	**1h 30 min**
18:30 - 19:30	**dinner**	

CAPACITIES

EAgLE
European Action towards Leading Centre for Innovative Materials

October 21, Wednesday

9:30 - 11:00	Prof. Aleksander Jabłoński Parameterization of quantitative applications of XPS	**1h 30 min**
11:00 - 11:30	**coffee break**	
11:30 - 13:00	Prof. Wolfgang Werner Quantitative Interpretation of XPS spectra on nanostructured surfaces with a focus on core-shell nanoparticles	**1h 30 min**
13:00 - 14:30	**lunch**	
14:30 - 16:00	SESSA exercises	**1h 30 min**
16:00 - 16:30	**coffee break**	
16:30 - 18:00	Prof. Jacek Szade Resonance and standard photoemission studies of thin film systems - determination of valence state and reactions at interfaces	**1h 30 min**
18:30 - 19:30	**dinner**	

October 22, Thursday

9:30 - 11:00	Dr. Wojciech Lisowski Sputter depth profiling in XPS	**1h 30 min**
11:00 - 11:20	**coffee break**	
11:20 – 12:10	Prof. Krystyna Jabłońska XPS studies of multiphase materials	**50 min**
12:10 - 12:30	Closing remarks	**20 min**
13:00 - 14:00	**lunch**	

CAPACITIES

EAgLE
European Action towards Leading Centre for Innovative Materials