8-3 実践的化学·物質科学英語講義等

8-3-1 英語集中講義:総合化学特論II

Modern Trends in Chemical Sciences and Engineering II

Date	Course	Instructor
10/2-3	(Special Lecture 2014 – I)	Prof. Nikolaos
	"Kinetics and Mechanisms"	Hadjichristidis
	"High Vacuum Techniques"	King Abdullah University
	"Well-Defined Complex Macromolecular Architectures by Anionic	of Science and
	Polymerization High Vacuum Techniques: Synthesis, Properties,	Technology, Kingdom of
	Applications"	
	"From High-Vacuum Apparatuses to Industrial Application"	Saudi Arabia
	"Well-Defined Polyethylene-Based Block Copolymers and	
	Molecular Brushes by CombiningAnionic or Ring Opening	
	Metathesis Polymerization with Polyhomologationalysts"	
10/15-17	(Special Lecture 2014 – II)	Prof. Eike Bauer
	"Basics of organometallic metal complexes and their reactivities"	University of Missouri-St.
	"Transition-metal catalyzed hydrogenation and hydroformylation	Louis, USA
	reactions"	,
	"Olefin metathesis reaction and polymerizations"	
	"Transition-metal catalyzed cross-coupling reactions"	
	"Iron-catalyzed carbon-carbon and carbon-heteroatom bond forming	
	reactions"	
11/5-7	(Special Lecture 2014 – III)	Prof. Michel Miesch
	"Introduction to steroids chemistry"	Université de Strasbourg,
	"Synthesis of steroids part I"	France
	"Synthesis of steroids part II"	Trance
	"Synthesis of steroids part III"	
	"Cycloalkanones tethered to activated alkynes and olefins as versatile	
	tools for the synthesis of polycyclic scaffolds"	
11/17-19	(Special Lecture 2014 – IV)	Prof. Stephan Irle
	"Density Functional Theory (DFT)"	Nagoya University, Japan
	"Approximate Density Functional Theory: Density-Functional	
	Tight-Binding (DFTB) and linear scaling approaches"	
	"Nonequilibrium DFTB/MD simulations of carbon nanostructure	
	growth and erosion processes"	
	"DFTB for the treatment of complex molecular systems in	
	electronically excited states"	
	"Recent methodological developments for the quantum chemical	
11/0 - 50	study of complex systems"	
11/26-28	(Special Lecture 2014 – V)	Prof. Richard L. Smith, Jr
	"Nonideal phase behavior and Gibbs energy analysis"	Research Center of
	"Equations of state and phase behavior for supercritical fluid	Supercritical Fluid
	systems"	Technology, Tohoku
	"Chemical equilibria in supercritical fluids"	University, Japan
	"Project presentation of problems in Introduction to Supercritical]
	Fluids. A Spreadsheet-based Approach"	
	"Physical properties of water and carbon dioxide as the key to	
	developing green processes"	
1/14-16	(Special Lecture 2014 – VI)	Prof. Annette G.
	"Introduction into Peptide Synthesis"	Beck-Sickinger
	"Chemical Modification of Peptides"	Universität Leipzig,
	"Introduction to G Protein Coupled Receptors"	Germany
	"Peptide Drugs to Target GPCR"	<i>y</i>
	"Trafficking of Neuropeptide Y Receptors - and their Applications	
	in Cancer Therapy"	