

# Seminar plan

Referentix	Topic	Date
	Hyper valency, Hyper coordination	
	Chemistry of Defects	
	Tendencies Bonding E-E/E-H	
	EPR-Spectroscopy	
	TM-TM-Bonds	
	Mixed Valence Compounds	
	Structures of the Elements	
	Magnetism/SMM	
	Walsh-Diagrams	
	MO-Diagrams of small molecules	
	Acid-Base-Concepts	
	Carbonyls/Isolobal Concept	
	Ligand Exchange Processes	
	Wade-Mingos Rules/Boranes	
	Band structures of Solids	
	Tendencies in the Periodic Table	
	SA/WCA	
	Alloys/Hume-Rothery-Phases	
	Nobel gas compounds	
	Laves/Zintl/Heusler-Phases	
	Ligand Field Theory	
	Homo atomic MG-Element-Polyhedra	
	Hetero atomic MG-Element-Polyhedra	
	UV-VIS	
	Multiple bonds in heavy MG-Compounds	
	Non-metal halogenides	
	Metal halogenides	
	SS-Structures of multinary Compounds	
	Powder diffraction	
	SS-NMR	
	Fluorescence spectroscopy	
	Nano chemistry	
	Electrolysis	
	Metal hydrides	
	Metal borides/carbides/nitrides	
	Metal oxides/sulfides	
	MG-Metal organyles	
<b>Topic-/Presentation suggestions</b>		

Max. 10 minutes presentation. Free presentation: no slides, crib sheet, notes. If you can't remember it, how should the audience?