

Program
XXI. Tage der Seltenen Erden — Terrae Rarae 2008
December 4 to December 6, 2008
Ruhr-Universität Bochum

Keynote Lectures (K) and Oral Contributions (O)

Thursday, December 4, 2008			
Chairman: Rhett Kempe, Bayreuth			
Luminescence			
K 01	09:30	Jean-Claude Bünzli (Lausanne)	Lanthanide Luminescent Bioprobes for Time-resolved Cell Imaging
K 02	10:10	Matthias Adlung, <u>Claudia Wickleder</u> (Siegen)	Numerous Emission Bands of Tm ²⁺ Ions in Chloride Host Lattices
K 03	10:50	Koen Binnemans (Leuven)	Luminescence of Lanthanoidmesogenes in the Liquid Crystal State
	11:30		Coffee Break
O 01	12:00	<u>Céline Belot</u> , Volker Huch, Michael Veith (Saarbrücken)	Synthesis, Crystal Structure, Luminescence and Electrochemical Investigations of Trivalent Rare Earth (Nd ³⁺ , Sm ³⁺) Thienyl-Substituted Methoxides
O 02	12:20	<u>Svetlana Eliseeva</u> , Dmitry Pleshkov, Konstantin Lyssenko, Leonid Lepnev, Natalia Kuzmina (Moscow)	Turning of the Luminescent Properties of Eu ^{III} and Tb ^{III} Hexafluoroacetylacetonates by Insertion of Bidentate <i>O</i> -Donor Ligands
O 03	12:40	Lada Puntus (Moscow)	Influence of Inner- and Outer-Sphere Bonding Patterns on the Ln ^{III} Sensitization in Lanthanide-Containing Compounds and Materials
	13:00		Lunch Break
Chairman: Uwe Ruschwitz, Köln			
Solid State			
K 04	14:00	John Corbett (Ames)	Observations on Structures of and Bonding in a few Rare-Earth-Metal Compounds, both Solid State and Molecular
K 05	14:40	K. Rupperecht, U. Ponkratz, O. Leupold, <u>G. Wortmann</u> (Paderborn)	Magnetism and Mixed Valence at Extreme Pressures: ¹⁵¹ Eu-NFS Study of EuO, EuS and EuSe up to 120 GPa
	15:20		Coffee Break and Poster Session
K 06	16:30	Mathias S. Wickleder	Lanthanide Compounds with Complex Oxo-

		(Oldenburg)	Anions: From Interesting Structural Chemistry to Useful Functionality
O 04	17:10	<u>Henning A. Höpfe</u> , Michel Panzer, Karolina Kazmierczak (Freiburg)	Partially Ordered Mixed-Valent Rare Earth Borates
O 05	17:30	<u>Bassem S. Bassil</u> , Ulrich Kortz (Bremen)	Synthesis and Structural Characterization of Peroxo-Lanthanide Polyoxometalates
O 06	18:00	<u>Thomas Harmening</u> , Adel Al Alam, Samir F. Matar, Hellmut Eckert, Rainer Pöttgen (Münster)	⁴⁵ Sc NMR Spektroskopie an intermetallischen Verbindungen
O 07	18:20	<u>Wilfried Hermes</u> , Birgit Heying, Ute Ch. Rodewald, Sudhindra Rayaprol, Falko M Schappacher, Rainer Pöttgen (Münster)	Struktur und Eigenschaften von GdRhZn, GdRuGe und GdPt ₂ X (X = In, Sn)
	18:40		Terrae Rarae 2008 Award Session Conference Dinner
Friday, December 5, 2008			
Chairman: Herbert Schuhmann, Berlin			
Organometallics			
K 07	09:30	Marcus Rastätter, <u>Peter W. Roesky</u> (Karlsruhe)	Bis(amido)cyclodiphosph(III)azane Complexes of Aluminum and the Rare Earth Elements
K 08	10:10	Glen Deacon (Monash)	New Developments in C-F Activation by Rare Earth Compounds
K 09	10:50	Peter Junk (Monash)	Synthesis of Lanthanoid Hydroxo cluster/Cage Complexes
	11:30		Coffee Break
O 08	12:00	<u>Rannveig Litlabø</u> , Melanie Zimmermann, Kuburat Saliu, Josef Takats, Karl W. Törnroos, Reiner Anwander (Bergen)	A Rare-Earth Metal Variant of the Tebbe Reagent
O 09	12:20	<u>Mathias Kramer</u> , Masato Ohashi, Marcin Konkol, Yumiko Nakajima, Thomas Spaniol, Jun Okuda (Aachen)	Neutral and Cationic Molecular Lanthanoid Hydrides

O 10	12:40	<u>E. Abinet</u> , T. P. Spaniol, J. Okuda (Aachen)	η^3 -Allyl Complexes of the Early Lanthanides with OSSO-Type Ligands: Highly Active Catalysts in Hydrosilylation
	13:00		Lunch Break
Chairman: Peter Roesky, Berlin			
Organometallics			
K 10	14:00	Frank Edelmann (Magdeburg)	Multidecker Sandwich Complexes of Lanthanide Elements
K 11	14:40	<u>Sjoerd Harder</u> , Christian Ruspic, Lars Orzechowski, Georg Jansen, Dennis Kuchenbecker Dirk Piesik (Duisburg Essen)	Insight in Bulky Metallocenes
O 11	15:20	<u>D. T. Thielemann</u> , P. W. Roesky (Karlsruhe)	The Structural Versatility of Lanthanide-based Coordination Oligomers
O 12	15:40	<u>Dmitrii M. Roitershtein</u> , Mikhail E. Minyaev, Konstantin A. Lyssenko, Pavel A. Belyakov, Ivan V. Glukhov, Mikhail Yu. Antipin (Moscow)	Application of the Tetraphenylethylene Anion in 4f Organometallic Chemistry
	16:00		Coffee Break and Poster Session
Chairman: Koen Binnemans, Leuven			
Materials			
O 13	16:30	Sanjay Mathur, <u>Eva Hemmer</u> (Köln)	Synthesis of New Precursors for the Preparation of Lanthanide-Containing Nanomaterials
O 14	16:50	<u>Oxana Kotova</u> , Valentina Utochnikova, Svetlana Eliseeva, Sergey Samoilenkov, Natalia Kuzmina (Moscow)	Gas Phase Reaction Deposition of Nonvolatile Terbium Benzoate (Tb(bz) ₃) Thin Films for OLEDs Application
O 15	17:10	<u>Andrian P. Milanov</u> , Roland A. Fischer, Anjana Devi (Bochum)	Synthesis, Characterization and Thermal Properties of Homoleptic Rare-Earth Guanidates: Promising Precursors for MOCVD and ALD of Rare-Earth Oxide Thin Films
O 16	17:30	<u>Christoph Hauser</u> , Clemens K. Weiss, Nicole Jagielski, Katharina Landfester (Mainz)	Lanthanide-Polymer Hybrid Nanoparticles Prepared by the Miniemulsion Technique – Design and Application

Saturday, December 6, 2008

Chairman: Anja Mudring, Bochum

Structure and Bonding

K 12	09:30	<u>Mikhail V. Butovskii</u> Christian Döring, Oleg L. Tok, Frank R. Wagner, R. Kempe (Bayreuth)	Transition Metal – Rare Earth Bonds
O 17	10:10	<u>Ahmed Yahia</u> , Mathias Kramer, Jun Okuda, Laurent Maron (Toulouse)	A DFT Study about Structure and Reactivity of Cationic Methyl Complexes of The Rare-Earth Metals: A Relation between Experience and Theory
O 18	10:30	<u>Michael Seitz</u> , Allen G. Oliver, Kenneth N. Raymond (Bochum)	The Lanthanide Contraction Revisited
	11:00		Coffee Break
K 13	11:30	Gerd Meyer (Köln)	Clusters as <i>anti</i> -Werner Complexes – Coordination Numbers of Endohedral Atoms
K 14	12:00	<u>Frank R. Wagner</u> , Viktor Bezugly (Dresden)	Quantummechanical Characterization of RE-TM-Bonding Situations in Position Space
O 19	12:40	Konstin Lyssenko (Moscow)	Chemical Bonding Pattern in Lanthanide-Containing Systems via Topological Analysis of the Experimental Charge Density Function
	13:00		End of Conference