

International Workshop ECMAG - Magnetic Field Effects on Aqueous Solutions

April 20-21, 2017 / HZDR / Building 114 / Room 202

Final Program

April 20	
12:00	<i>Lunch Buffet</i>
13:00	Welcome and Opening (G. Gerbeth, G. Mutschke, HZDR)
	Session 1
13:15	<u>M. Coey</u> (TC Dublin) – Problems in Magnetoelectrochemistry
13:45	<u>L. Lukina</u> , J. Fransaer, K. Binnemans (KU Leuven) - Separation of rare-earth ions by strong magnetic fields
14:15	<u>X. Guan</u> et al. (Tongji U. Shanghai) - Enhanced Cr(VI) removal by zero-valent iron coupled with weak magnetic field: Role of magnetic gradient force
14:45	<u>K. Eckert</u> et al. (HZDR/TU Dresden) - Enrichment of paramagnetic ions in aqueous solutions by inhomogeneous magnetic fields
15:15	<i>Coffee + Poster</i>
	Session 2
15:45	F.Z. Khan, A.G. Nicholson, C.K. Nash, <u>I. Fritsch</u> (U Arkansas) – Manipulating magnetic fields and ionic currents in redox-magnetohydrodynamic microfluidic systems involving polymer-modified electrodes
16:15	<u>K. Tschulik</u> (RU Bochum) – Magnetic Field Effects on Single Nanoparticle Electrochemistry Studies
16:45	<u>T. Lorenz</u> , M. Bertau (TU BA Freiberg) - RE Recycling via Solid State Chlorination and Magnetic Separation from Fluorescent Lamp Craps
17:15	<u>K. Kolczyk</u> , M. Wojnicki, D. Kutyla, R. Kowalik, P. Zabinski (AGH Krakow), A. Cristofolini (U. Bologna) – Analysis of REE ion transport in inhomogeneous magnetic field in static state.
17:45	<u>M. Studzinski</u> , I. Malinowska, A. Wronka (U Lublin), H. Malinowski (JINR Dubna) – Magnetochromatographic separation of d and f electron metal complexes
19:30	<i>Dinner (Rest. Lingnerterrassen/Dresden; Self-Payment)</i>

April 21	
09:15	Session 3
09:15	A.-Y. Ali Omar, O. Aboubi, A.-L. Daltin, F. Bohr, <u>J.-P. Chopart</u> (U Reims) – Magnetic field effects during aniline electropolymerization
09:45	<u>M. Uhlemann</u> , V. Hänel (IFW Dresden) – Potentiometric measurement of concentration in microfluidic channels
10:15	K. Kolczyk, <u>M. Wojnicki</u> , P. Zabinski (AGH Krakow), X. Yang, G. Mutschke (HZDR) - An attempt to enrich holmium ions in a flow system by inhomogeneous magnetic fields.
10:45	<i>Coffee + Poster</i>
	Session 4
11:15	<u>Karin Leistner</u> et al. (IFW Dresden) – Voltage-tunable nano-magnets in liquid electrolytes
11:45	<u>R. Peipmann</u> , A. Bund (TU Ilmenau) – Magnetic fields and dispersion coatings
12:15	Closing
12:20	<i>Lunch (Canteen HZDR; Self-Payment)</i>
13:30	Lab Tour (MHD-department at HZDR, approx. 1 hour)

Poster List	
J. König, C. Cierpka (TU Ilmenau)	Microfluidics Laboratory at TU Ilmenau
N. Kelly, C. Scharf (HZDR-HIF)	Current Projects and Objectives at Helmholtz Institute Freiberg - Department Metallurgy and Recycling
T. Weier et al. (HZDR)	Fluid Dynamics of Liquid Metal Batteries
M. Femerling, X. Yang, K. Eckert, G. Mutschke (HZDR)	On the accuracy of concentration measurements by UV/VIS spectrophotometry
Z. Lei, K. Eckert (TU Dresden/HZDR)	On the mechanism underlying the magnetic separation of rare earth ions in aqueous solution

List of Participants