

Publications 2008 (update: Jan. 15, 2009)

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Contributions to Conference Proceedings and Monographs

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Invited Talks

- 1) J. Acker, S. Buecker, V. Hoffmann, Flammen-Molekuelabsorptionsspektrometrie zweiatomiger Molekuele - Zum Mechanismus der Bildung von ALF in der Acetylen-Lachgas-Flamme, 2nd International Symposium on CSAAS, Berlin, 7.-8.10.08 (2008).
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- 5) M. Benyoucef, Quantum dots for quantum optics, Seminar am Max Planck Institut fuer Physik komplexer Systeme, Dresden, 15.7.08 (2008).
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- 149) B. Rellinghaus, E. Mohn, U. Queitsch, M. Sparing, B. Holzapfel, L. Schultz, Tailoring the properties of magnetic nanoparticles from the gas phase, Physics of Magnetism 2008 - PM08, Poznan/ Polen, 23.-27.6.08 (2008).
- 150) B. Rellinghaus, D. Pohl, E. Mohn, L. Schultz, T. Jaervi, J. Fassbender, K. Albe, Irradiation-induced structural modifications of binary metal nanoparticles, Towards Reality in Nanoscale Materials - TRNM08, Levi/ Finnland, 3.-5.12.08 (2008).
- 151) M.H. Ruemmeli, Opportunities with nanostructured thermoelectric materials, Seminar talk at the IIT Friction, Barge, Piemont/ Italien, 8.2.08 (2008).
- 152) M.H. Ruemmeli, F. Schaeffel, M. Bystrejewski, M. Loeffler, R. Schoenfelder, B. Buechner, Advances in understand carbon nanotube nucleation and growth, Invited talk at the University of Alabama, Birmingham/ USA, 22.8.08 (2008).
- 153) M.H. Ruemmeli, F. Schaeffel, M. Bystrejewski, M. Loeffler, R. Schoenfelder, J. Warner, B. Rellinghaus, L. Schultz, B. Buechner, On the advantages of gas phase prepared catalyst particles in understanding carbon nanotube growth, Conference, Ostrava/ Tschechien, 1.-4.8.08 (2008).
- 154) M.H. Ruemmeli, F. Schaeffel, M. Bystrejewski, R. Schoenfelder, B. Buechner, Advanced in understanding carbon nanotube nucleation and growth, Invited talk at the Fisk University/ USA, 20.8.08 (2008).
- 155) M.H. Ruemmeli, F. Schaeffel, M. Bystrejewski, R. Schoenfelder, B. Buechner, Advances in understanding carbon nanotube nucleation and growth, Invited talk at the Vanderbilt University, Nashville/ USA, 20.8.08 (2008).
- 156) M.H. Ruemmeli, F. Schaeffel, M. Bystrejewski, R. Schoenfelder, B. Buechner, Advanced in understanding carbon nanotube nucleation and growth, Invited talk at the US Air Force Research Laboratories/ USA, 18.8.08 (2008).
- 157) R. Schaefer, Kerr microscopy, Seminarvortrag, Institut fuer Ferrous, Postech, Pohang/ Suedkorea, 3.11.08 (2008).
- 158) R. Schaefer, Vom Barkhausenrauschen zur Spindynamik, Seminarvortrag am Fraunhofer IZFP, Saarbruecken, 19.5.08 (2008).

- 159) R. Schaefer, Magnetische Werkstoffe, Vorlesungsreihe, Polytechnische Universitaet Bucharest/ Rumaenien, 24.-27.11.08 (2008).
- 160) R. Schaefer, Kerrmikroskopie: Grundlagen, Entwicklungen und Anwendungen, Innovent Kolloquium, Jena, 6.2.08 (2008).
- 161) R. Schaefer, The magnetic microstructure of amorphous and nanocrystallien materials, Seminarvortrag, Institut fuer Physik, Postech, Pohang/ Suedkorea, 3.11.08 (2008).
- 162) R. Schaefer, Magnetische Mikrostrukturen, Luescher Lectures, Akademie fuer Lehrerfortbildung, Dillingen, 15.10.08 (2008).
- 163) R. Schaefer, Magnetic domain analysis in bulk ferromagnets, SLS Seminar, Paul Scherrer Institut, Villingen, 20.6.08 (2008).
- 164) R. Schaefer, The magnetic microstructure of soft magnetic materials, Vorlesungsreihe, Institut fuer Ferrous, Postech, Pohang/ Suedkorea, 27.-31.10.08 (2008).
- 165) F. Schaeffel, M.H. Ruemmel, C. Kramberger, T. Pichler, T. Gemming, B. Buechner, B. Rellinghaus, L. Schultz, Microscopic studies on the tailored growth of carbon nanotubes from pre-defined catalyst particles, 19. Edgar-Luescher Seminar, Klosters/ Schweiz, 16.-21.2.08 (2008).
- 166) O.G. Schmidt, Shaped nanomembranes for interdisciplinary research, 4th International Conference on Materials Science and Condensed Matter Physics Chisinau/ Moldavien, 23.-26.9.08 (2008).
- 167) O.G. Schmidt, Spatial and spectral control of individual quantum dots, International Workshop on Nonequilibrium Nanostructures, Dresden, 1.-6.12.08 (2008).
- 168) O.G. Schmidt, Nanomembrane technologies, Summer School on the Physics and Chemistry of Nano Materials, Cluj-Napoca/ Rumaenien, 17.-30.8.08 (2008).
- 169) O.G. Schmidt, Self-assembled SiGe islands: From fundamental perception to ultra large scale integration, JST-DFG Workshop on Nanoelectronics, Aachen, 5.-7.3.08 (2008).
- 170) O.G. Schmidt, Shaped nanomembranes, Seminar an der Karls-Universitaet, Prag/ Tschechien, 17.1.08 (2008).
- 171) O.G. Schmidt, Semiconductor quantum dots, Summer School on the Physics and Chemistry of Nano Materials, Cluj-Napoca/ Rumaenien, 17.-30.8.08 (2008).
- 172) O.G. Schmidt, Hybrid heterostructures and interfaces in radial geometries, Summer School on Modern Concepts for Creating and Analyzing Surfaces and Nanoscale Materials, Sant Feliu de Guixols, Costa Brava/ Spanien, 12.-16.5.08 (2008).
- 173) O.G. Schmidt, Shaped nanomembranes for interdisciplinary research, Kolloquium, Forschungszentrum Dresden-Rossendorf, 26.6.08 (2008).
- 174) O.G. Schmidt, General introduction to nanomaerials, Summer School on the Physics and Chemistry of Nano Materials, Cluj-Napoca/ Rumaenien, 17.-30.8.08 (2008).
- 175) O.G. Schmidt, Rolled-up Si nanomembranes for on-chip photonic applications, The 5th International Conference on Group IV Photonics, Sorrento/ Italien, 17.-19.9.08 (2008).
- 176) O.G. Schmidt, Vom Loewenzahn zum Mikro-U-Boot: Stress und Entspannung in Materialien, 125. Versammlung der Gesellschaft Deutscher Naturforscher und Aerzte e.V., Tuebingen, 19.-22.9.08 (2008).
- 177) O.G. Schmidt, Island formation during lattice mismatched heteroepitaxy: Experimental observations, Summer School on Modern Concepts for Creating and Analyzing Surfaces and Nanoscale Materials, Sant Feliu de Guixols, Costa Brava/ Spanien, 12.-16.5.08 (2008).
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- 179) O.G. Schmidt, Quantum dots and smart tubes, Kolloquium, Technische Universitaet Ilmenau, 16.12.08 (2008).
- 180) L. Schultz, Vom Schweben auf Magnetfeldern: die wundersame Welt der Supraleitung, Vortrag am Anne-Augustum-Gymnasium Goerlitz, 15.10.08 (2008).
- 181) L. Schultz, Vom Schweben auf Magnetfeldern: die wundersame Welt der Supraleiter, Physikalisches Kolloquium der Universitaet Duisburg, 12.11.08 (2008).
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- 183) L. Schultz, Riding on magnetic fields, Research Trends in Novel Magnets for Electromagnetic Applications, Santorini/ Griechenland, 5.9.08 (2008).
- 184) L. Schultz, Riding on magnetic fields - The miraculous world of magnetism and superconductivity, REPM 2008, Kreta/ Griechenland, 9.9.08 (2008).
- 185) L. Schultz, Vom Schweben auf Magnetfeldern: die wundersame Welt der Supraleiter, Kolloquium zum Gedaechnis an Prof. Dr. H. J. Engell, Duesseldorf, 2.7.08 (2008).
- 186) L. Schultz, Riding on magnetic fields: The miraculous world of superconductors, 1st Dresden-Karlsruhe Seminar on Materials and Applications of Superconductivity, Bad Liebenzell, 28.5.08 (2008).
- 187) L. Schultz, Riding on magnetic fields: The miraculous world of superconductors, Kolloquium, Universitaet Leuven/ Belgien, 26.5.08 (2008).
- 188) L. Schultz, Riding on magnetic fields: Macroscopic interaction of ferromagnetic and superconducting permanent magnets, INTERMAG 2008, Madrid/ Spanien, 7.5.08 (2008).

- 189) L. Schultz, Vom Schweben auf Magnetfeldern: die wundersame Welt der Supraleitung, Vortrag am Werner-Heisenberg-Gymnasium Riesa, 17.4.08 (2008).
- 190) L. Schultz, High temperature superconductors for energy and traffic technologies, APNFN, Dresden, 23.-25.1.08 (2008).
- 191) O. Shuleshova, Solidification kinetics and metastable phase formation in undercooled melts of Ti-Al-Nb turbine blade alloys, Seminar im Institut fuer Raumsimulation, DLR Koeln, 12.12.08 (2008).
- 192) O. Shuleshova, Equilibrium and metastable solidification of Ti-Al-Nb and Ni-Al intermetallic alloys, Seminar im Institut fuer Strukturphysik, TU Dresden, 9.12.08 (2008).
- 193) O. Shuleshova, In situ real-time observation of solidification process, On-line lecture within IMPRESS project lecture series, Dresden, 21.5.08 (2008).
- 194) E. Steers, P. Smid, V. Hoffmann, Effects of traces of molecular gases (hydrogen, nitrogen) in glow discharges in noble gases, 24th SPIG, Novi Sad/ Serbien, 25.-29.8.08 (2008).
- 195) R. Sueptitz, J.A. Koza, M. Uhlemann, A. Gebert, L. Schultz, Korrosion von Eisenelektroden im Magnetfeld, Institutsseminar, TU Dresden, Institut fuer Stroemungsmechanik, 5.11.08 (2008).
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- 197) T. Thersleff, L. Molina, E. Backen, S. Engel, C. Mickel, S. Menzel, B. Schlobach, O. Eibl, L. Schultz, B. Holzapfel, Focused Ion Beam preparation of YBCO thin film TEM lamellae, Invited Scientist at the Univeristy of Cambridge, Cambridge/ GB, 26.9.-2.10.08 (2008).
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- 200) M. Uhlemann, Electrodeposition in high magnetic fields, Institutsseminar, Grenoble HMFL - CNRS, Grenoble/ Frankreich, 5.11.08 (2008).
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- 203) F. Wasserscheidt, R. Pfrengle, Zertifizierung "berufundfamilie", Verwaltungsausschuss der Leibniz-Gemeinschaft, Magdeburg, 27.11.08 (2008).
- 204) H. Wendrock, Anwendungen der EBSD-Technik in der Werkstoffforschung, Kolloquium "Neue Entwicklungen in der EDX-Analyse", Berlin, 3.-4.6.08 (2008).
- 205) U. Wolff, C. Bran, L. Schultz, V. Neu, Imaging of topographic and magnetic structures on a nanometer scale by AFM and MFM, Winter School, Kranjska Gora/ Slowenien, 7.-9.2.08 (2008).
- 206) F. Wolny, T. Muehl, U. Weissker, Iron filled carbon nanotubes as probes in magnetic force microscopy, Eingeladener Vortrag im FZ Dresden-Rossendorf, 9.4.08 (2008).
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Patents

Issues of Patents 2008

- DE 10 2004 006 234 Verfahren zur Herstellung oxidischer Supraleiter
Inventors: W. Gruner, W. Häßler
- DE 10 2005 036 682 Verfahren zu Herstellung eines Schicht-Substrat-Verbundes und Schicht-Substrat-Verbund
Inventors: S. Fähler, K. Leistner, V. Neu
- DE 10 2005 026 548 Metallstangen mit magnetischen Bitmustern sowie Verfahren und Einrichtung zum Erzeugen der Bitmuster
Inventor: S. Fähler
- DE 10 2006 027 880 Isolationsschichtmaterial für die Mikroelektronik
Inventors: H. Hermann, Ch. Täschner et al.
- DE 10 2006 042 616 Wellenleiterbauelemente auf der Grundlage akustischer Oberflächenwellen und deren Verwendung
Inventors: S. Biryukov, G. Martin, M. Weihnacht
- DE 10 2006 041 515 Verfahren zur Herstellung von ein- oder mehrwandigen, mit einem oder mehreren Übergangsmetallen beschichteten Kohlenstoff-Nanoröhren
Inventors: A. Leonhardt, S. Hampel, B. Büchner
- EP 1 143 531 Permanentmagnet aus einem supraleitenden keramischen Material
Inventors: G. Krabbes, G. Fuchs, G. Stöver, P. Verges, L. Shlyk

Patent Applications 2008

- 10715 Verfahren und Vorrichtung zur Erzeugung eines räumlich frei orientierbaren Magnetfeldes mittels supraleitender Dauermagneten
Inventors: D. Lindackers, A. Horst, B. Büchner
- 10722 Formkörper aus einem magnesiumhaltigen Verbundwerkstoff und Verfahren zu seiner Herstellung
Inventors: M. Sakaliyska, S. Scudino, K. Surreddi, J. Eckert
- 10723 Formkörper aus einem aluminiumhaltigen Verbundwerkstoff und Verfahren zu seiner Herstellung
Inventors: M. Sakaliyska, S. Scudino, K. Surreddi, J. Eckert
- 10802 Thermoelektrisches Bauelement und Verfahren zu seiner Herstellung
Inventors: T. Dienel, J. Schumann, A. Rastelli, O.G. Schmidt
- 10804 Röhrenförmiger Multifunktionssensor in Flüssigkeiten, Verfahren zu seiner Herstellung und Verwendung
Inventors: E. Bermudez, Y. Mei, O. G. Schmidt
- 10806 Verfahren zur Herstellung eines Schichtverbundes mit epitaktisch gewachsenen Schichten aus einem magnetischen Formgedächtnismaterial und Schichtverbund mit epitaktisch gewachsenen Schichten aus einem magnetischen Formgedächtnismaterial, sowie deren Verwendung
Inventors: F. Khelfaoni, J. Buschbeck, S. Fähler, et al.
- 10807 Temperaturstabiler Doppelresonator
Inventor: G. Martin
- 10809 Schichtsystem für Elektroden
Inventor: S. Menzel

-
- 10810 Strangförmiges Kompositleitermaterial
Inventor: S. Menzel
- 10811 Schicht oder Schichtsystem für Interdigitalwandler für SAW- Bauelemente für Hochleistungs- und/oder Hochtemperaturanwendungen und/oder mit hohem Reflexionsfaktor
Inventors: S. Menzel, A. Winkler, H. Schmidt
- 10812 Verfahren zur Herstellung von dotierten Vanadium-Nanoröhren
Inventors: G. Zakharova, C. Täschner, V. Volkov, A. Leonhardt
- 10814 Elektisch leitfähiger Hochtemperatur-Supraleiter-Schichtaufbau und Verfahren zu seiner Herstellung
Inventors: R. Hühne, K. Güth, R. Kaltoven
- 10815 Verfahren zur Anwendung eines Bauelementes aus mindestens einem ferromagnetischen Formgedächtnis-Material, Bauelement und dessen Verwendung
Inventors: S. Fähler, M. Thomas, O. Heczko, J. Buschbeck, J. Mc Cord
- 10816 Verfahren zur Bestimmung der Viskosität und Elastizität von viskoelastischen Medien
Inventors: R. Brünig, M. Weihnacht, H. Schmidt, G. Martin
- 10817 Verfahren zur Bestimmung der Viskosität und Elastizität von viskoelastischen Medien
Inventors: R. Brünig, M. Weihnacht, H. Schmidt
- 10818 Diagnostisches und/oder therapeutisches Agens, Verfahren zu seiner Herstellung und Verwendung
Inventors: L. Dunsch et al.
- 10826 Verfahren zur Herstellung von großen Vesikeln aus selbstorganisierenden, membranbildenden Molekülen
Inventors: L. Steller, H. Schmidt, et al.
- 10832 Beschichtetes magnetisches Legierungsmaterial und Verfahren zu seiner Herstellung
Inventors: J. Lyubina, M. Buschbeck, O. Gutfleisch

PhD Theses 2008

Gangineni Ramesh Babu	Extrinsic Magnetotransport in Manganites and its Dependence on Mechanical Strain
Kaushik Biswas	Effect of melt convection on microstructure evolution of peritectic Nd-Fe-B and Ti-Al alloys.
Jayanta Das	Heterostructured copper- and titanium-base ultrafine and glassy alloys
Denny Deutsch	Nanostrukturierte Fullerschichten für organische Bauelemente
Uwe Gaitzsch	Struktureinstellung und magnetische Dehnung in polykristallinen magnetischen Ni-Mn-Ga – Formgedächtnislegierungen
Christian Golze	Tunable High-Field/High-Frequency ESR and High-Field Magnetization on Single-Molecule Clusters
Daniel Grimm	A combined experimental and theoretical approach towards the understanding of transport in one-dimensional molecular nanostructures
Dmytro Inosov	Many-Body Effects in the Electronic Structure of High-Tc Cuprates
Christian Kramberger	Angle-resolved dielectric response in carbon nanotubes
Christian Müller	Grundlegende Untersuchungen zum CVD-Wachstum Fe-gefüllter Kohlenstoff-Nanoröhren
Ajit Kumar Patra	Crystal Structure, anisotropy and spin reorientation transition of highly coercive, epitaxial Pr-Co films
Patrick Riberio	One-dimensional quantum magnets in cuprates: Single crystal growth and magnetic heat transport studies
Thomas Riedl	La _{0,7} Sr _{0,3} MnO ₃ -Dünnschichten auf SrTiO ₃ (0 0 1)-Substrat: Struktur und Mn-Wertigkeit
Nicolle Seifert	Mikrostruktur und mechanisches Verhalten von teilmorphen und kristallinen Materialien auf Zirkon-Basis
Venkataraman Shankar	Studies on microstructural transformations in Cu ₄₇ Ti ₃₃ Zr ₁₁ Ni ₈ Si ₁ metallic glass
Marcel Stangl	Charakterisierung und Optimierung elektrochemisch abgeschiedener Kupferdünnschichtmetallisierungen für Leitbahnen höchstintegrierter Schaltkreise
Volodymyr Zabolotny	Investigation of renormalization effects in high temperature cuprate superconductors
Wenxu Zhang	Magnetism, Structure and their Interactions

Diploma and Master Theses 2008

Ioana-Ruxandrs Balan	Einführung von Programmbudgets in die Leibniz-Gemeinschaft am Beispiel des IFW Dresden (Univ. Politehnica Bukarest)
Anja Backen	Statisches und dynamisches Magnetisierungsverhalten austauschgekoppelter magnetischer Mikrodrähte (TU Dresden)
Mathias Bayer	Spin Density Wave Chromium (TU Dresden)
Martin Engel	Synthese von stickstoffhaltigen Kohlenstoff-Nanotubes mittels plasma-gestützter chemischer Gasphasenabscheidung (TU Bergakademie Freiberg)
Andreea C. Ghinea	Structure and mechanical properties of β Ti-Nb and TiNbIn alloys with potential biomedical applications (Univ. Politehnica Bukarest)
Konrad Güth	Entwicklung leitfähiger Pufferarchitekturen auf der Basis von IBAD-TiN (TU Dresden)
Andreas Herklotz	PMN-PT als Dünnschichtsubstrat (TU Dresden)
René Illgen	Herstellen, Öffnen, Kürzen, Füllen und Wiederverschließen von Kohlenstoffnanoröhren (FH Zittau-Görlitz)
Christian Kästner	Synthese und Charakterisierung von Mono- und Dimetallofullerenen (TU Ilmenau)
Florian Kretzschmar	Magnetische Untersuchungen geometrisch frustrierter Spinmagnete (TU Dresden)
Christopher Mahn	Aufbau einer Messzelle für medizinische Anwendung von Nanomagneten (TU Dresden)
Claudia Patschureck	Untersuchung der Anisotropieabhängigkeit der magnetischen Domänenstruktur und des dynamischen Magnetisierungsverhaltens in magnetischen Dünnschichtelementen (TU Dresden)
Maik Peschel	Hydrothermale Synthese von eisenhaltigen Nanostrukturen (FHS Jena)
Darius Pohl	Einfluss von Ionenbestrahlung auf die Morphologie und Kristallstruktur von Übergangsmetall-Nanopartikeln (TU Dresden)
Paul Saß	STM-Untersuchungen an Übergangsmetalloxiden (TU Dresden)
Antje Schlieter	Mikrostrukturelle sowie mechanische und thermische Charakterisierung von $\text{Fe}_{84,3}\text{Cr}_{4,3}\text{Mo}_{4,6}\text{V}_{2,2}\text{C}_{4,6}$ (TU Bergakademie Freiberg)
Christoph Schlosser	Erarbeitung einer Lösung zur Realisierung und zum Einsatz von Videokonferenzen im IFW (BA Dresden)
Marietta Seifert	Dünne epitaktische SmCo_5 -Schichten mit senkrechter magnetischer Anisotropie (TU Dresden)
Konrad Suschke	Charakterisierung neuer piezoelektrischer Materialien (TU Dresden)
Juliane Thielsch	Kermikroskopische Untersuchung von Magnetisierungsprozessen in kornorientiertem Elektroblech (TU Dresden)
Sven Thierbach	Membrandomänen - Manipulation und Charakterisierung durch akustische Oberflächenwellen (TU Dresden)
Franziska Thoss	Ni-Mn-Ga: Gefügeeinstellung durch Wärmebehandlung (TU Dresden)
Dirk Rittrich	Grenzflächen- und Wachstumsuntersuchungen an dünnen Wolfram- und Wolframnitridschichten auf Silizium mittels winkelaufgelöster Photoelektronenspektroskopie (WHZ Zickau)

Calls and Awards 2008

Calls on Professorships

Dr. Yuanfu Chen Univ. of Electronic Science and Technology China (UESC)

Awards

Prof. Dr. Jürgen Eckert Gottfried-Wilhelm-Leibniz-Preis 2009 of the DFG (announced Dec. 2008, awarded March 2009)

Team Megalloys FutureSax Award

Olga Shuleshova IMPRESS Prize for Young Researchers

Dr. Anja Wolter Heinrich-Büssing-Preis 2008

Dr. Alexander Grüneis Apart-Stipendium der Österreichischen Akademie der Wissenschaften

Kristina Tschulik Lohrmann-Medaille der TU Dresden

Uwe Neu Gustav-von-Lauenstein-Erfinderpreis

Publication and Poster Awards

Jong-Woo Kim Young Scientist Award for the best paper at EMRS 2008

Franziska Schäffel Best Poster Award at „Trends in Nanotechnology“ in Oviedo

Alexander Grüneis Best Poster Award at 9th Int. Conf. on the Science and Application of Nanotubes in Montpellier June 29 – July 4, 2008

Jörg Buschbeck Best Oral Presentation Award JEMS 08 in Dublin

Christine Hamann Best Oral Presentation Award JEMS 08 in Dublin

Jacub Koza Best Oral Presentation Award JEMS 08 in Dublin

Vyacheslav Khavrus et al. Best Poster Award of the 3rd International Symposium on Carbon for Catalysis conference 2008

IFW Awards

Dr. Kathrin Dörr IFW Research Award 2008

Dr. Jayanta Das Deutsche Bank Junior Award 2008 for the best PhD thesis

Dr. Rüdiger Klingeler IFF Research Award 2008

Dr. Wolfgang Häßler IMW Research Award 2008

Dr. Helmut Ehrenberg IKM Research Award 2008

Dr. Yongfeng Mei IIN Research Award 2008

Conferences and colloquia 2008

Conferences

Final European Workshop "Strengthening the role of women scientists in Nano-Science"

March 6-8, 2008 in Dresden, Germany

Chairperson: Dr. Annett Gebert (IFW Dresden)

GLADNET Spring Meeting

April 21-25, 2008 in Dresden, Germany

Chairperson: Dr. Volker Hoffmann (IFW Dresden)

RQ13: 13th International Conference on Rapidly Quenched & Metastable Materials

August 24 - 29, 2008 in Dresden, Germany

Chairmen: Prof. L. Schultz, Prof. J. Eckert (IFW Dresden)

Hand-on-FPLO: DFT meets Experiment & 7th Tutorial Hands-on-FPLO

August 25 - 28, 2008 in Dresden, Germany

Chairmen: Prof. H. Eschrig, Dr. M. Richter (IFW Dresden)

Global Research Laboratory Workshop on Bulk Metallic Glasses

August 30, 2008 in Dresden, Germany

Chairmen: Prof. J. Eckert (IFW Dresden), Do Hyang Kim (Yonsei Univ. Seoul)

21. ICP-MS Anwendertreffen und 8. Symposium über Massenspektrometrische Verfahren der Elementspurenanalyse

September 17 - 19, 2008 in Dresden, Germany

Chairman: Dr. Volker Hoffmann (IFW Dresden)

International Workshop "Physics and Chemistry of FeAs-based Superconductors"

1st German-Russian workshop on Quantum Ground States

October 27 - 29, 2008 in Dresden, Germany

Chairman: Prof. B. Büchner (IFW Dresden)

3rd International Workshop „European Activities in Hydrogen Technology Research“

November 18th, 2008 in Dresden, Germany

Organized by the Helmholtz Initiative FunChy and IFW Dresden

IFW Colloquia

Prof. Josep Fontcuberta, Institut de Ciència de Materials de Barcelona, Multifunctional oxide heterostructures for spintronics, 10.01.2008

Prof. Dr. Reinhold Kleiner, Univ. Tübingen, Splitting flux quanta in superconductors, 31.01.2008

Prof. Dr. Peter Gumbsch, Fraunhofer IWM Freiburg, A Multiscale Modelling Approach to Structure and Properties of Diamond Like Carbon Coatings, 07.02.2008

Prof. Klaus Capelle, Univ. of Sao Paulo, Crystals made of light, 24.04.2008

Prof. Steven Hayden, Univ. of Bristol, New Structures in the Spin Excitations of LaSrCuO and their possible relationship to High Temperature Superconductivity, 22.05.2008

Prof. Josef Michl, Univ. of Colorado at Boulder, USA, From Molecular Rotors to Molecular Bubbles, 29.05.2008

Prof. Ulrich Gösele, MPI für Mikrostrukturphysik Halle, Reactions at the nanoscale, 09.06.2008

Prof. Manfred Bayer, Univ. Dortmund, All-Optical Control of Electron Spins in Quantum Dot Ensembles, 12.06.2008

Prof. Paul Heitjans, Univ. Hannover, Mobile Lithium Ions in Solids, 26.06.2008

Prof. Cynthia A. Volkert, Univ. Göttingen, Deformation of nanostructured metals: How dislocations behave in small spaces, 03.07.2008

Prof. Markus Winterer, Univ. Duisburg-Essen, Synthesis and Characterization of Complex Nanocrystalline Oxides, 10.07.2008

Prof. Yasutomo J. Uemura, Columbia Univ., Energy-scale Phenomenology and Spin-mediated Pairing for FeAs, CuO, heavy-fermion and other exotic superconductors, 30.10.2008

Prof. Alexander Lichtenstein, Univ. Hamburg, Magnetism of correlated systems, 20.11.2008

Prof. Dr. Claudia Felser, Univ. Mainz, Ferrimagnetic Heusler compounds, 11.12.2008

IFW Winterschool on Magnetism in Oberwiesenthal, January 13-16, 2008

Honorary colloquium on the occasion of the 70th anniversary of Prof. Fink, 29.04.2008

Workshop Magnetic Heat Transport 10.07.2008

Opening of the IFW-Colloquium in the winter terms with talks of the prizewinners of the Research-Awards 2008 of the IFW's Institutes, Oct. 16, 2008

Heyrovsky-Ilkovic-Nernst-Lecture 2008 of the GDCh 17.10.2008

Prof. RNDr. Jiri Barek, Karlsuniversität Prag: Possibilities and Limitations of Modern Electrochemical Techniques

Seminars of the IFW's Institutes

Joint Seminars

Dr. Isabella Gallino, Univ. des Saarlandes, Kinetics of relaxation and corrosion of bulk metallic glasses, 30.01.2008, IMW-IKM Seminar

Prof. Ralf Busch, Univ. des Saarlandes, Melt rheology of bulk metallic glass forming liquides, 30.01.2008, IMW- IKM Seminar

Dr. Giles Allison and Dr. Oleg Makarovskiy, Univ. of Nottingham

Magnetic field studies of the electronic states of diluted semiconductors: GaMnAs and GaAsN, 23.05.2008, IMW-IIN Seminar

IFF Seminars

Prof. Adam Pron, CEA Grenoble, Composites of semiconductor AIBVI nanocrystals and conjugated polymers via molecular recognition, 04.02.2008

Prof. Bella Lake, HMI Berlin, Neutron scattering studies of spin ladders, 11.02.2008

Prof. Claudia Felser, Univ. Mainz, Heusler Compounds - Multifunctional Materials, 22.02.2008

Dr. Lubomir Pospisil, J. Heyrovsky Institute Prague, Nitrogen fixation mediated by fullerenes, 31.03.2008

Prof. Ladislav Kavan, J. Heyrovsky Institute Prague, Electrochemistry of Ti(IV)-oxides, 14.04.2008

Prof. Markus Braden, Univ. Köln, Charge and spin ordering in layered perovskites, 21.04.2008

Prof. Emil Roduner, Univ. Stuttgart, Anwendungen der ESR-Spektroskopie in der Materialforschung, 28.04.2008

Dr. Norbert Koch, Humboldt-Univ. Berlin, Functional interfaces with conjugated organic materials for electronic devices, 19.05.2008

Dr. Revaz Ramazashvili, Univ. Paris-Sud, Electron magnetism of antiferromagnetic conductors: giant Zeeman electric-dipole spin resonance and more, 02.06.2008

Prof. Sasha Chernyshev, Univ. of California Irvine, Spin-mediated thermal transport in low-dimensional magnets, 03.07.2008

Dr. Paul Goddard, Univ. of Oxford, Isotope shifts and magnetic breakdown: aspects of organic molecular magnets and metals, 07.07.2008

Prof. Masayoshi Tabata, Muroran Institute of Technology, Pi-conjugated helical nano-columnar polyacetylenes as novel color-controllable materials, 15.09.2008

Prof. Karel Stulik, Charles Univ. Prague, Some aspects of the recent progress in electrochemical sensors and detectors, 22.09.2008

Prof. Miroslav Pozek, Univ. of Zagreb, Microwave response of small superconducting samples, 20.10.2008

Prof. David Singh, Oak Ridge National Lab, Electronic Structure of Fe-based Superconductors, 21.10.2008

Dr. Frank Ludwig, TU Braunschweig, Magnetorelaxometry: Fundamentals, Practical Realization and Applications, 17.11.2008

Dr. Sabine Wurmehl, Eindhoven Univ. of Technology, NMR studies of spin polarized Heusler compounds, 24.11.2008

IMW Seminars

Dr. Dietrich Hinz, IFW Dresden, Design von Magnetkreisen, 04.02.2008

Prof. Fernando Audebert, Univ. of Buenos Aires, Icosahedral order at liquid and undercooled liquid in Al based Alloys, 10.03.2008

Prof. Manfred Albrecht, TU Chemnitz, Magnetische Filme auf Partikeloberflächen, 18.04.2008

Prof. Ludwig Gauckler, ETH Zürich, Innovations in Materials Science Based on Colloidal Chemistry, 22.05.2008

Prof. Michael Farle, Univ. Duisburg-Essen, Magnetism and crystalline structure of FePt nanocubes and icosahedra, 05.06.2008

Dr. Nicole Grobert, Univ. Oxford, Carbon nanotubes: Controlling structure property relationships through nitrogen doping? 17.07.2008

Dr. Christian Kisielowski, National Center for Electron Microscopy, Berkeley, The Team 0.5 microscope: Single atom detection across the Periodic Table of Element, 08.09.2008

Dr. Udo Weigelt, Patent- und Rechtsanwaltskanzlei München, Wie schützt man geistiges Eigentum, 18.12.2008

IKM Seminars

- Dr. Hartmut Wiggers, Univ. Duisburg-Essen, Synthese von Nanopartikeln, 09.01.2008
- Kumar Babu Surreddi, IFW Dresden, Consolidation and mechanical properties of high strength Aluminum based alloys, 18.01.2008
- Dr. Frank Haaß, BASF Ludwigshafen, Halbleiterentwicklung für thermoelektrische Materialien, 23.01.2008
- Dr. Isabella Gallino, Univ. des Saarlandes, Kinetics of relaxation and corrosion of bulk metallic glasses, 30.01.2008
- Andreas Nilsson, IFW Dresden, Glass-ceramic route of BSCCO Superconductors – Part II: Crystallization of glassy-precursors, 01.02.2008
- Dr. Jürgen Ramm, Balzers AG Lichtenstein, Highly Ionized Pulsed Cathodic Arc Evaporation and the Synthesis of Corundum-type Al-Cr-O Solid Solutions, 15.02.2008
- Dr. Marina Galano, Univ. of Oxford, Nanoquasicrystalline Al-Fe-Cr-based Alloys, 10.03.2008
- Prof. Dr. Lutz Krüger, TU Bergakademie Freiberg, Werkstoffverhalten von hochfesten Fe-Mn-Al-Si-Leichtbaustählen, 09.04.2008
- PD Dr. Astrid Pundt, Univ. Göttingen, Wasserstoff in nanoskaligen Metallen, 21.05.2008
- Prof. Zhongyun Fan, Brunel Univ., Melt Conditioning by Advanced Shear Technology (MCAST) for Refining Solidification Microstructures, 04.06.2008
- Prof. Dr. Martin Lerch, TU Berlin, Anionensubstitution als Weg zu neuen Materialien, 25.06.2008
- Prof. Dr. Jozef Janovec, TU Bratislava, Transport and transformation phenomena in selected metallic systems, 02.07.2008
- Prof. Jan Schroers, Yale Univ., New Haven, Processing of bulk metallic glass, 16.07.2008
- Dr. M. Elena Arroyo-de Dompablo, Univ. Complutense de Madrid, High-pressure materials for lithium batteries, 01.10.2008
- Dr. Sylvio Indris, FZ Karlsruhe, Li Dynamics in Solids: From a Single Crystal to Li Ion Batteries, 26.11.2008

IIN-Seminars

- Dr. César Bof Bufon, Towards hybrid rolled-up electronic devices, 24.04.2008
- Dr. Yang Yang, MPI Halle, Template-Directed Fabrication of Binary and Ternary Oxide Nanotubes, 08.05.2008
- Shadi Yasin, Univ. Stuttgart, Electron spin resonance on low dimensional organic conductors: Anion order transition in (TMTTF)₂ REO₄, 29.05.2008
- Angelo Malachias, MPI Stuttgart, Nanoscience in the reciprocal space: the use of x-ray techniques to probe structural properties of nanostructures in thin films, 05.06.2008
- Dr. Petra S. Dittrich, ISAS, Dortmund, Lab-on-Chip-Technology for Living Cell Analysis, 12.06.2008
- Prof. Ulrike Diebold, Tulane Univ. New Orleans, Surfaces of Metal Oxide Materials, 17.06.2008
- Dr. Stephan Reizenstein, Univ. Würzburg, Cavity quantum electrodynamics in single quantum dot-micropillar Systems, 26.06.2008
- Dr. Stefan Diez, MPI Dresden, Motor Proteins at work: Molecular transport in cell biology and nanotechnology, 03.07.2008
- Jianjun Zhang, Univ. Linz, Growth and characterization of ordered SiGe islands on patterned Si (001) substrates, 10.07.2008
- Dr. Frank Bertram, Univ. Magdeburg, Kinetics of capture, relaxation and recombination in ZnO, 21.08.2008
- Prof. Paul K. Chu, City Univ. of Hong Kong, Plasma-Based Technology in Microelectronics, Nanotechnology and Biomedical Engineering, 03.09.2008
- Prof. Francois Peeters, Univ. Antwerpen, Excitons in self-assembled quantum dots and molecules, 15.10.2008
- Prof. Vladimir M. Fomin, Univ. Antwerpen, Electronic and Optical Properties of Self-Assembled Semiconductor Quantum Rings, 28.11.08
- Dr. Harald Schneider, FZ Dresden-Rossendorf, Ultrafast infrared and THz spectroscopy of semiconductor quantum structures, 12.12.2008

ITF Seminars

- Prof. Dr. Friedhelm Bechstedt, Univ. Jena, Parameterfree calculations of material properties: Fiction or reality? 24.01.2008
- Prof. Alexander Moskvin, Ural State Univ. Ekaterinburg, Magnetoelectric coupling and multiferroicity in chain cuprates, 19.02.2008
- Prof. Dr. Gotthard Seifert, TU Dresden, Hydrogen in nanostructures - Quantum Liquid DFT simulations, 08.04.2008
- Andrei A. Leonov, Donetsk Inst. for Physics and Techn. and Ulrich Rößler, IFW Dresden, Picturing supercooled and glass-forming liquids as Skyrmionic textures of a frustrated continuum, 22.04.2008
- Igor Popov, TU Dresden, Mo₆S₆ nanowire as a unique building block of future nanometer-sized electronic devices, 29.04.2008
- Dr. György Vankó, KFKI Budapest, Hard X-ray spectroscopy studies of spin state and intersite mixing in cobalt oxides, 14.07.2008
- Dr. Gustav Bihlmayer, FZ Jülich, Spin-orbit induced spin-spirals in low dimensional magnetic systems, 10.06.2008
- Prof. Adri Lodder, Univ. of Amsterdam, Electromigration force on a proton with a bound state, 18.09.2008
- Dr. Emmanuele Cappelluti, SMC Research Center, Univ. La Sapienza Roma, Spectroscopic signatures of massless gap opening in grapheme, 30.10.2008

Guests and Scholarships

Guest scientists (stay of 4 weeks and more)

Name	Home Institute	Home country
Dr. Umut Adem		Turkey
Prof. Dr. Vladimir Aleshin	Moscow State Univ.	Russia
Prof. Dr. Victor Aristov	Inst. of Solid State Physics Moscow	Russia
Prof. Dr. Ernest Arusanov	Inst. for Appl. Physics Kishinev	Rep. Moldova
Bhanu L. Aryasomayajula	Univ. of Arkansas, Fayetteville, USA	India
Alicja Bachmatiuk	Szczecin Univ. of Technology	Poland
Dr. Ashna Bajpai	Tata Inst. of Fund. Res. Colaba, Mumbai	India
Dr. Larisa Balsanova	Buryat State Univ.	Russia
Simona Bejan	Polytechnic Univ. of Bucharest	Romania
Dr. Natalya Bramnik		Russia
Ganna Butenko	Donetsk Inst. for Physics and Technology	Ukraine
Michal Bystrzejewski	Univ. Warszawa	Poland
Prof. Dr. Chuanbing Cai	Shanghai Univ.	China
Prof. Dr. Mariana Calin	Polytechnic Univ. of Bucharest	Romania
Dr. Igor Chaplygin		Russia
Dr. Yuanfu Chen		China
Sasha Chernyshev	Univ. of California	Russia
Dr. Ihor Chumak	Univ. Lvov	Ukraine
Dr. Roman Cicka	Slovak Univ. of Technology Bratislava	Slovakia
Dr. Jacek Cwik		Poland
Dr. Alexander Darinskiy	Inst. for Crystallography Moscow	Russia
Dr. Jayanta Das		India
Dr. Evgenia Dmitrieva	GmbH "Algorithm" St. Petersburg	Russia
Hryhoriy	Dmytriv Lvov National Univ.	Ukraine
Dr. Otakar Frank	Charles Univ. Prague	Tschechien
Prof. Dr. Ilgiz Garifullin	Zavoisky Physical Technical Inst. Kazan	Russia
Prof. Dr. Alexander Germanenko	Ural State Univ.	Russia
Peter Gogola	Slovak Univ. of Technology Trnava	Slovakia
Dr. Vadim Grinenko	Inst. Supercond. and Solid State Phys. Moscow	Russia
Prof. Dr. Volodymyr Gvozdkov	Kharkov National Univ.	Ukraine
Dr. Silvia Haindl	TU Wien	Austria
Prof. Dr. Bothina A. H. Hamad	Univ. of Jordan	Jordan
Dr. Oleg Heczko	Helsinki Univ. of Technology	Czech Rep.
Dr. Bogdan Idzikowski	Inst. for Molecular Physics Poznan	Poland
Dr. Kazumasa Iida	Univ. of Cambridge, Dept. of Engineering	Japan
Dr. Deepa Kasinathan	MPI CPFS Dresden	India
Dr. Olga Kataeva	Inst. of Organic and Phys. Chem. Kazan	Russia
Dr. Vyacheslav Khavrus	Inst. of Physical Chemistry	Ukraine
Dr. Kyung Tae Kim	Samsung Electronics Co Ltd., Yongin-City	Rep. Korea
Dr. Timur Kim		Russia
Dr. Xianghua Kong	Inst. of Chemistry, Chinese Ac. of Sc.	China
Dr. Alexander Kordyuk	Inst. of Metal Physics Kiev	Ukraine
Prof. Yuriy Kucherenko	Inst. of Metal Physics Kiev	Ukraine
Miloslav Kulich	Inst. of Electrical Engineering, Bratislava	Slovakia
Dr. Pramod Kumar	Indian Inst. of Technology Bombay	India
Dr. Roman Kuzian	Inst. for Materials Sc. Kiev	Ukraine
Dr. Min Ha Lee	Iowa State Univ., USA	Rep. Korea
Dr. Isabel Llamas Jansa		Spain
Dr. Yuming Lu	Shanghai Univ.	China
Dr. Vladimir Lukes	Slovak Univ. of Technology Bratislava	Slovakia
Dr. Jiri Malek	Inst. of Physics, Univ. Prague	Czech Rep.

Dr. Daria Mikhailova	TU Darmstadt	Russia
Prof. Noboru Miura	Japan Sc. and Techn. Agency, Tokyo	Japan
Dr. Igor Morozov	Moscow State Univ.	Russia
Prof. Alexander Moskvina	Ural State Univ. Yekaterinburg	Russia
Eduardo Motta	Federal Univ. of Rio de Janeiro	Brasilia
Prof. Dr. Nilay K. Mukhopadhyay	Banaras Hindu Univ. Varanasi	India
Jong H. Na	Yonsei Univ. Seoul	Rep. Korea
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Anton Nosenko	Taras Shevchenko Univ. Kiev	Ukraine
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Dr. Ali Sebetci	Cankaya Univ. Ankara	Turkey
Dr. Shivakumara Sekharappa	Indian Inst. of Science, Bangalore	India
Oleg Slukhovskyy	Inst. of Metal Physics Kiev	Ukraine
Dr. Elena Smirnova	A.F. Ioffe Phys. Techn. Inst. St. Petersburg	Russia
Maciej Szorc	Inst. of Molecular Physics	Poland
Dr. Jan Tarabek	J. Heyrovsky Inst. for Phys. Chem. Prague	Czech Rep.
Andrea Vargova	Slovak Univ. of Technology, Bratislava	Slovakia
Tatyana Vasilchikova	Moscow State Univ.	Russia
Prof. Alexander Vasiliev	Moscow State Univ.	Russia
Dr. Evgeniya Vavilova	Kazan Physical Technical Inst.	Russia
Dr. Olga Volkova	Moscow State Univ.	Russia
Dr. Yingjin Wei	Yonsei Univ. Seoul, Korea	China
Mirosław Werwinski	IFM PAN, Poznan	Poland
Dr. Xuegeng Yang	Shandong Univ. Jinan	China
Dr. Galina Zakharova	Inst. of Solid State Chemistry Yekaterinburg	Russia
Wenxu Zhang	Univ. of Electronic Sc. and Technology	China
Agnieszka Zlotowicz	Univ. St. Petersburg	Poland
Prof. Andriy Zvyagin	Inst. for Low Temp. Physics & Eng. Kharkov	Ukraine

Scholarships

Name	Home country	Donor
Alexey Alfonsov	Russia	Int. Max-Planck Research School
Fahad Ali	Pakistan	PIEAS Islamabad
Alphons A. Antonysamy	India	DAAD (IIT-Master-Sandwich-Prog.)
Yulieth Arango	Columbia	EU (AlBan Fellow)
Orkidia Bilani-Zeneli	Albania	Int. Max-Planck Research School
Cristina Bran	Romania	Int. Max-Planck Research School
Prof. Dr. Mihai Branzei	Romania	Univ. Bucharest (EU)
Giuseppe Cirillo	Italia	Univ. Calabria
Mohammed Y. T. El Bahrawy	Egypt	DAAD
Ahmed A. M. Elgendy	Egypt	Egyptian Government
Fedor Fedorov	Russia	DAAD
Ping Feng	China	Alexander von Humboldt Stiftung
Dr. Ahmed Hashem	Egypt	DAAD

Dr. Eslam M. Ibrahim	Egypt	Egyptian Government
Jayaraj Jayamani	India	Alexander von Humboldt Stiftung
Trisha Karan	India	DAAD (IIT-Master-Sandwich-Prog.)
Jong-Woo Kim	Korea	DAAD
Dr. Kyung Tae Kim	Korea	Korea Research Foundation
Dr. Igor Korsakov	Russia	DAAD
Christian Kramberger	Austria	Int. Max-Planck Research School
Ram B. Kumar	India	DAAD (IIT-Master-Sandwich-Prog.)
Marcia C. Kutz	Brazil	CAPES Brazil
Dr. Oksana Kvitnytska	Ukraine	Alexander von Humboldt Stiftung
Yiu Wai Lai	China	Int. Max-Planck Research School
Dr. Guillaume M. Lang	France	Alexander von Humboldt Stiftung
Dr. Hong Seok Lee	Rep. Korea	Korea Research Foundation
Ran Li	China	Alexander von Humboldt Stiftung
Prof. Dr. Gang Liu	China	Alexander von Humboldt Stiftung
Dr. Kalobaran Maiti	India	Alexander von Humboldt Stiftung
Dr. Ferenc Muranyi	Hungary	Alexander von Humboldt Stiftung
Dr. Yuri Naidyuk	Ukraine	Alexander von Humboldt Stiftung
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Anupama Parameswaran	India	Int. Max-Planck Research School
Martin Philipp	Germany	Sant-Gobain-Recherche France
Andreia I. Popa	Romania	Int. Max-Planck Research School
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Roland Solc	Slovakia	Alexander von Humboldt Stiftung
Maria Sparing	Germany	Studienstiftung des deutschen Volkes
Kumar B. Surreddi	India	DAAD
Ivan Tarasiuk	Ukraine	DAAD
Grzegorz Urbanik	Poland	Int. Max-Planck Research School
Silvia Vock	Germany	Cusanuswerk
Dr. Gang Wang	China	Alexander von Humboldt Stiftung
Liran Wang	China	Int. Max-Planck Research School
Yiku Xu	China	China Scholarship Council
Lin Zhang	China	China Scholarship Council
Prof. Dr. Zhe-Feng Zhang	China	Alexander von Humboldt Stiftung
Na Zheng	China	China Scholarship Council

Guest stays of IFW members at other institutes

Dr. Kathrin Dörr	Oak Ridge National Laboratory, Tennessee, USA 14 April - 18 May 2008
Dr. Jochen Geck	Univ. of British Columbia, Vancouver, Canada, 01 Jan. - 15 Aug. 2008
Daniel Grimm	Institute of Physics of the Univ. Federal Fluminense Rio de Janeiro, Brazil, 6 weeks
Anja Kießling	Department of Materials Science and Metallurgy, Univ. of Cambridge, 14 Oct. - 8 Dec. 2008
Dr. Michael Kuzmin	Univ. d'Aix-Marseille, 02 -26 May 2008, 13 Sept. - 4 Oct. 2008
Lars Kühn	Univ. Federal do Rio de Janeiro UFRJ, Brazil, 27 Feb. 2008 - 27 April 2008
Darius Pohl	FZ Jülich / ER-C, 1 June - 1 Aug. 2008
Darius Pohl	NCEM, Berkeley, California, 4 Nov. 2008 - 31 Jan 2009
Lorenz Wolfram	Institut Laue-Langevin (ILL) Grenoble, France, 1 month

The Institute by numbers

Personnel

In 2008 the Leibniz Institute for Solid State Material Research Dresden employed 500 staff members in average, including 94 doctarate students, 32 post docs, 29 guest scientists and 20 apprentices. The quote of female staff is 40 %. Furthermore, in 2008 the IFW hosted 53 fellows, that came with their own money to work at the institute. 42 diploma students worked at the IFW and 23 trainees did a practical course at the institute in 2008. The total number of guest scientist, above all was 200.

Financing

Total budget	32,234.6 k€
thereof	
Federal States of Germany	11,720.4 k€
Free State of Saxony	11,720.4 k€
Third party funding spent	8,537.8 k€
Return on infrastructure, interest, royalties ..	256.0 k€
Third party funding	
by the DFG	2,640 k€
by the EC	2,335 k€
by the Federal States of Germany	2,236 k€
by Free State of Saxony	31 k€
by industry	982 k€
by DAAD	32 k€
by foundations / others	282 k€
Total	8,538 k€

Expenditures

Remuneration costs	18,542.6 k€
Equipment, infrastructure and consumables	8,009.0 k€
Investment	5,683.0 k€
Total	32,234.6 k€

Patents

By 31 Dec. 2008 the institute can boast of total of 117 German and 163 patents registered abroad. In 2008 a total of 18 patent applications were registered.

Board of trustees

Dr. Petra Karl, Saxon Ministry of Science and Art - Head -
Liane Horst, Federal Ministry of Education and Research
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Dr. Hans Rainer Hilzinger, Vacuumschmelze GmbH & Co Hanau

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IFW's Research Program 2009

1. Superconductivity and superconductors

- 1.1 Electronic structure and fundamentals
- 1.2 Superconducting materials
 - 1 P1 Superconducting transport systems and bearings
 - 1 P2 YBCO tapes
 - 1 P3 Pact 2009: Nanoscaled inhomogeneities in superconductors
 - 1 P4 New FeAsREO superconductors

2. Magnetism and magnetic materials

- 2.1 Theoretical and experimental fundamentals
- 2.2 Magnetic materials
- 2.3 Magnetic microstructures
- 2.4 Phase equilibria and single crystal growth
 - 2 P1 High pulsed magnetic fields
 - 2 P2 Magnetic shape memory alloys

3. Molecular nanostructures and molecular solids

- 3.1 Nanotubes and fullerenes
- 3.2 Conducting polymers and organic molecular solids
- 3.3 Molecular Magnets
 - 3 P1 Pact 2007: Manipulation of nanoscaled magnets

4. Metastable alloys

- 4.1 Solidification and crystallization
- 4.2 Corrosion and hydrogen
- 4.3 Materials for sports
- 4.4 Bulk amorphous metals and composite materials
- 4.5 Lithium-ion batteries
 - 4 P1 Pact 2008: Cluster materials with competing properties

5. Stress-driven architectures and phenomena

- 5.1 Heterogeneous multiferroica
- 5.2 3D micro/nanoarchitectures
- 5.3 Quantum dots
- 5.4 SAW systems
 - 5 P1 New multiferroic oxides (continuation of Pact 2006)