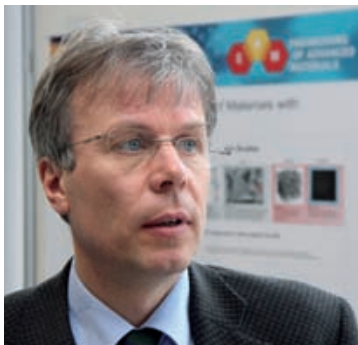


- ◆ EAM Symposium
- ◆ New Professors Oliver Diwald and Thorsten Pöschel
- ◆ Research: Non stick nanotubes
- ◆ Start of Graduate School
- ◆ New Buildings for CENEM and Interdisciplinary Center for Functional Particle Systems

EDITORIAL

Dear colleagues and friends,



after a summer of rest and rejuvenation we are now eager to begin a new semester. We are especially looking forward to the upcoming EAM events. In November our first EAM Symposium in Wildbad

Kreuth will take place, where we will meet for the first time with the members of our newly appointed external advisory board. Furthermore, the upcoming TEM School organized by the Cluster coincides with the good news that the long-awaited TITAN³ TEM is now ready for operation.

During the summer break work did not stand still at EAM, of course! The new Graduate School has begun accepting applications, new professors have been appointed and EAM has successfully presented its research at the Euromat 2009 conference in Glasgow, UK. Read more on all these activities in this newsletter!

I strongly encourage all Cluster-financed doctoral researchers to apply now to join the EAM graduate school. The program has been designed to facilitate lively interaction and efficient cooperation between doctoral researchers from all EAM research areas and from all disciplines. Thus, it will support the Cluster's innovative approach of truly interdisciplinary research along all stages of the value chain. Advanced training in scientific skills, leadership qualities and social skills will provide additional benefits for all EAM doctoral researchers.

I'm delighted with EAM's 2009/2010 projects and agenda and anticipate a year full of exciting and successful research and scholarship. I wish you all of you a good start to the winter semester.



Wolfgang Peukert

UPCOMING EVENTS

Introductory Course on Transmission Electron Microscopy

October 12 – 15, 2009, CENEM, South Campus, Erlangen

Cluster member Erdmann Spiecker will give an introductory course to demonstrate the far-ranging possibilities of transmission electron microscopy and to encourage intensive use of it in EAM research. The course offers an overview of different methods and also includes practical training. Registration is mandatory.

Details on the program and registration are available at:
www.eam.uni-erlangen.de/News/TEM-School.pdf

Symposium

Engineering of Advanced Materials

*November 22 – 26, 2009
at Wildbad Kreuth*



EAM is hosting a symposium covering all research areas of the Cluster from November 22-26, 2009 at Wildbad Kreuth. This symposium will be an interdisciplinary event attended by internal as well as external scientists who want to gain insight into the current state of all Cluster research areas. Young scientists in the Cluster will have the opportunity to present their research in front of an audience that includes international experts. Renowned scientists invited from around the world will also put the Cluster's work in context with their keynote presentations. The Cluster board is very pleased to announce talks of the EAM advisory board members Erich Windhab (ETH Zürich), Isaac Goldhirsch (Tel Aviv University), Mordechai Segev (Institute of Technology, Haifa), and Bill Clyne (University of Cambridge). René Janssen (Eindhoven) and Johannes A. Lercher from TU München will also be participating. During the symposium the advisory board will also have its first meeting.

If you wish to take part in this event please register at www.eam.uni-erlangen.de/symposium2009.html by October 15, 2009. More recent details on speakers, talks and conference venue will be available at the same address.



Lange Nacht der Wissenschaften

October 24, 2009, South Campus, Erlangen

From Molecules to Materials is the motto of the EAM booth at the "Lange Nacht der Wissenschaften" which will be located at the Faculty Building of the School of Engineering at the South Campus. EAM will give participants the opportunity to experience the world of nano-particles – and win one of several attractive prizes! – by taking part in a "quiz" which leads from institute to institute along the value chain for electronic devices. The Cluster team is looking forward to welcoming a lot of interested visitors and giving away some great prizes. Stages of the exhibition will be the Chair of Physical Chemistry I, the Chair of Microcharacterization and the new TEM, the Institute for Particle Technology, as well as Fraunhofer IISB. In the program for children, Wolfgang Peukert will give a talk on "Why doesn't the gecko fall off the ceiling?" at 2:30 p.m. at Cauerstraße 4, South Campus.

General information can be found at:

www.nacht-der-wissenschaften.de.

For further information about the EAM quiz, check out:

www.eam.uni-erlangen.de/Lange_Nacht.html

Grand Opening of the Erlangen Catalysis Resource Center (ECRC)

November 12, 2009, 16.00, H9, South Campus, Erlangen



On November 12 the Erlangen Catalysis Resource Center (ECRC) will celebrate its official opening. Avelino Corma, EAM advisory board member from the Instituto de Tecnología Química Valencia and one of the world's leading scientists in catalysis, will be the featured speaker. The ECRC is one of the Interdisciplinary Centers of the University Erlangen-Nuremberg, which provides a platform for multidisciplinary research projects in the field of Catalysis. Currently, 14 groups from the Chemical and Bioengineering and Chemistry Departments are involved in the ECRC. A large number of these groups are also active members in EAM research area D Engineering of Catalytic Materials.

Nanosilver – Production, Characterization and Application

December 3, 2009, EAM Nägelsbachstraße 49 b, Erlangen.

In the framework of its technology transfer program, EAM hosts a half-day workshop of the Bavarian Cluster Nanotechnology.

For details please refer to www.nanoinitiative-bayern.de

EAM Winter School 2010

March 15-20, 2010 and March 22-25, 2010, Kirchberg, Tirol

The EAM Winter School 2010 will be divided in two parts: In the first week scientists of the EAM research areas A1 Particle Technology, A3 Modeling & Simulation, B Nanoelectronics and C Optics & Photonics will meet in Kirchberg to discuss their latest results.

The second week will bring together members in the fields of A2 Nanoanalysis and Electron Microscopy, D Catalytic Materials and E Lightweight Materials. The researchers will offer insight into the current state of their respective work and provide stimulus for further development and cooperation in areas such as the use of lightweight materials as substrate for catalytic reactions.

PEOPLE

Interview with Oliver Diwald



OLIVER DIWALD

Professor for Particle Synthesis
Institute of Particle Technology

EAM welcomes Prof. Dr. Oliver Diwald as Professor for Particle Synthesis at the Institute of Particle Technology (LFG), a position he took on in May 2009. As part of his role, Oliver Diwald will be involved in the activities of the Center for Particle Technology of the Cluster. Oliver Diwald was born and raised in Austria. He studied Chemistry at the University of Vienna and completed his thesis on electron transfer reactions on oxide nanoparticle surfaces at the Vienna University of Technology. From 2001 to 2003 he was an Erwin-Schrödinger Fellow at the Surface Science Center, University of Pittsburgh, Pennsylvania, where he worked on the photoactivity of TiO₂ single crystal surfaces. Returning to Vienna University of Technology he completed his habilitation in 2006 and in 2007 became associate professor. There he worked in the field of Physical Chemistry of Small Particles and focused on the investigation of chemical and physical activity of interfaces present in metal oxide nanoparticle systems.

You have been a member of the Cluster of Excellence EAM since May. What were your expectations?

The major motivation to apply for this position was to work in this interdisciplinary and – in terms of science – multilingual environment that is located at the University Erlangen-Nuremberg and provides the basis for the Cluster. Such a high level of diversity generates interesting and qualitatively new scientific problems. I have been looking forward to this and believe that outside such an environment, one has fewer chances to meet these challenges.

You are part of research area A1, the Center for Particle Technology. What will you contribute?

The characterization and quantification of a particular function in an ensemble of small particles – in terms of optical, chemical or even catalytic activity – is vital to the development of functional particle systems. Control over their respective behavior requires detailed knowledge about the material specific factors that can be controlled in the course of synthesis and particle processing. Special focus of my work will be to put on physical and chemical effects that occur at defects and particle interfaces. As a physical chemist who is doing particle synthesis, I believe that the only way to effectively enhance the functional properties of a given nanoparticle ensemble – in whatever chemical environment – is a close feedback loop between two activities: synthesis and processing of nanomaterials, and the in-depth characterization of the resulting properties. This allows for substantially new insight into particle effects and solid state matter in general and reveals new ways in which these effects can be exploited in future.

Beside the South Campus, have you already had a chance to explore the metropolitan area of Erlangen and Nuremberg?

Actually, not too much. I have realized that one can be immediately out in nature, which is very pleasant. Erlangen has introduced itself to me as a quite charming city. I am very much looking forward to future explorations.

What do you miss the most in Erlangen?

Up to now I have only realized that there exists a rich spectrum of things that can be done in Erlangen and Nuremberg. So far I would have not really missed anything. As a Viennese, I am very much used to the cultural life of a larger city, particularly drama and literature. On the other hand, I simply had no time so far to start probing the corresponding cultural situation in and around Erlangen. I even missed this year's poetry festival. I'll have to visit it next year!

And so far what surprised you in a positive way?

There are many things. For example, I have noticed that both at the university as well as on the street people go out of their way to help you. This courteousness and willingness to engage, which is a little bit lacking in Vienna, is one of my first impressions of life here in Franconia.

**First EAM
Professorship
for Thorsten
Pöschel**



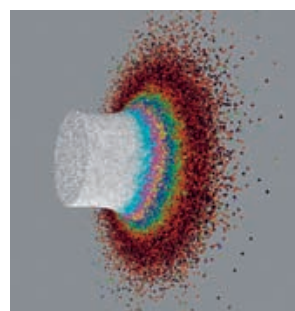
Prof. Dr. rer. nat. Dr. Ing. Thorsten Pöschel, Institute for Multiscale Simulation of Particulate Systems, was the first EAM funded professor to be appointed in December 2008. The chair was created to strengthen the Cluster's expertise in the research area A3 Modeling and Simulation. He is involved in both research activities of the Chemical and Bioengineering Department and of EAM and he also plays an active role in the new Center for Multiscale Modeling and Simulation (CMMS).

His main subject area is the theoretical, numerical and experimental investigation of granular matter. The focus of his research in particular is the multiscale problems of the relation between nanoscale and microscale material properties on the one hand and macroscopic material characteristics on the other. In EAM, his research activities bridge the understanding of the nanoscale properties over the modeling of the material structures and their dynamic synthesis to the material properties, by numerically simulating these systems on the relevant scales.

Thorsten Pöschel studied Physics at the University of Chemnitz and at the Electrotechnical Institute in St. Petersburg (Russia). His dissertation at the Humboldt University in Berlin focused on Theoretical Physics, and at the University of Dresden he obtained the degree of Doctor in Engineering in the field of Electronics. From 1990 – 2000 he worked as research assistant at the Humboldt-University in Berlin, from 2000 to 2007 as assistant professor for Biophysics and Bioinformatics at the Charité in Berlin. During this period he assumed post doctorate positions at a number of academic institutions, including the University of the Saarland, the University of Chicago, John von Neumann Institute for Supercomputing in Juelich, ESPCI in Paris, University of Stuttgart, University of California Santa Barbara, as well as visiting professor in Mexico. Prior to his arrival at the University Erlangen-Nuremberg and EAM, he was Professor for Theoretical Physics at the University of Bayreuth.

Read more about our new faculty members at:

www.mss.cbi.uni-erlangen.de



Large-scale particle simulation of a granular jet hitting a solid obstacle



Positive Decision for Erlangen

We are very happy to announce that Prof. Dr. Peter Wasserscheid, Deputy Coordinator of the Cluster and

Coordinator of Research Area D Engineering of Catalytic Materials, will continue his successful work in Erlangen, declining an offer for a Chair of Chemical Reaction Engineering at the Ecole Polytechnique Fédérale de Lausanne. Wolfgang Peukert, Coordinator of EAM, stated: "With his outstanding expertise in Catalysis and his dedication in his work with the executive board he (Wasserscheid) is one of the essential 'key figures' of the Cluster. We therefore thank the University administration for their valuable commitment, but we also take the decision of Peter Wasserscheid as evidence for the extraordinary attractive environment for science at the University Erlangen-Nuremberg and, of course, the Cluster of Excellence EAM."

Welcome to the Cluster!

NEW EAM PROFESSORS

Prof. Dr. Ana Smith

W1 Junior Professor for Theoretical Physics
(from October 1, 2009)

Prof. Dr. Jana Zaumseil

W2 Professor for Nanoelectronics
(from October 15, 2009)

NEW EAM MEMBERS

Prof. Dr. Christoph Brabec

Department Materials Science - Chair VI –
Materials for Electronics
and Energy Technology

PD Dr. Michael Gottfried

Research Group Leader at the Chair
for Physical Chemistry II

Prof. Dr. Martin Hartmann

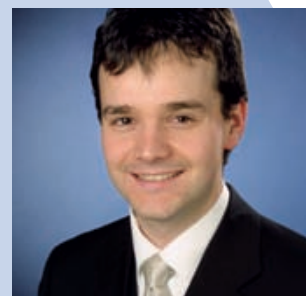
Professor for Catalysis at the Erlangen
Catalysis Resource Center (ECRC)

Prof. Dr. Ulrich Rude

Department of Computer Science 10,
System Simulation

E.ON

Research Award for Bastian Etzold



Dr. Bastian Etzold, research group leader at the Chair for Chemical Reaction Engineering and EAM member, has been honored with the E.ON Research Award, worth 360,000 Euros. Bastian Etzold, born 1979, is the youngest scientist to receive the award of the E.ON International Research Initiative.

The award recognizes Bastian Etzold's research on structured nano-porous carbons. These carbons can be employed as adsorptive natural gas storage materials with advanced heat transfer properties. Heat transfer is one of the crucial points in the effective and secure operation of adsorptive storage tanks in the automotive industry. During fast charging of an adsorption tank, hot spots of 100°C result due to the heat of adsorption. This decreases the storage capacity dramatically. Structured adsorbents can act as a heat pipe and decrease the unwanted hot spots.

Bastian Etzold studied Chemical Engineering in Erlangen and Business Administration in Hagen. He received his doctoral degree in Bayreuth summa cum laude. Since April 2008 Bastian Etzold has been working in Erlangen at the Department Chemical and Bioengineering. The focus of his group at the Department for Chemical Reaction Engineering (Prof. Dr. Peter Wasserscheid) is the application of gas/solid reactions for the synthesis of novel structured catalytic materials and adsorbents. The research is supported by the kinetic modeling and simulation of complex chemical reactions networks with parallel heat and mass transfer.

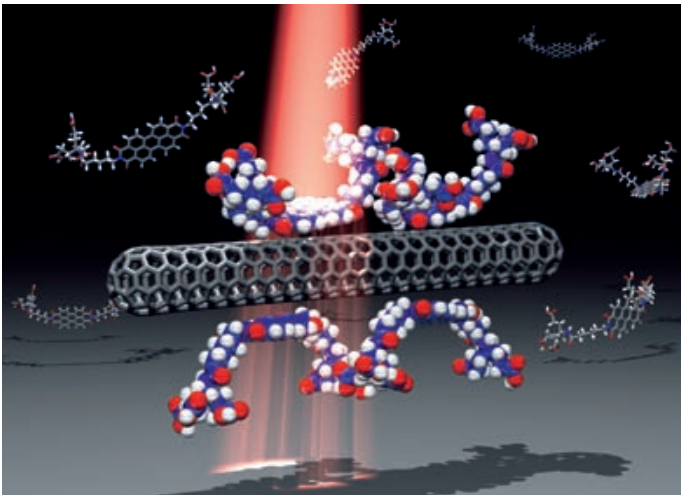


Dr. Bastian Etzold receives the E.ON Research Award from Prof. Dr. Frieder Meyer-Krahmer (State Secretary, BMBF), Bernhard Fischer (E.ON Management Board member) and moderator Ranga Yogeshwar.

RESEARCH

Non-stick Coating for Nanotubes

Erlangen researchers develop new technology for industrial production: more resistant materials, better glue, smaller computers – science expects a lot from nanotubes and their astonishing properties! In fact, the ultra-thin carbon nanotubes are very stable and electrically conducting. Their production in larger amounts, however, still presents a challenge. Chemists from the groups of Dirk M. Guldi and Andreas Hirsch from EAM research area B Nano-electronic Materials have now developed a method which can solve some of the related problems. The team has recently published its results in the online edition of the journal Nature Chemistry.



For the first time, the complementary use of microscopy and spectroscopy has shed light onto mutual interactions between semiconducting SWNT (Single Wall Nanotubes) and a strong electron acceptor toward the realization of two new milestones. The first is the development of a versatile methodology to achieve water-soluble SWNT for processing them under environmentally friendly conditions. Microscopy demonstrated the benefits of tightly interacting π -systems toward the successful debundling and suspension of individual SWNT. The second success is the establishment of a protocol to achieve p-doped SWNT for the integration into novel optoelectronic devices. A wide range of complementary spectroscopies – including spectroelectrochemical, RAMAN, fluorescence and transient absorption measurements – has confirmed the charge transfer in the ground state. It must be noted that such an assortment of techniques had never before been employed in the characterization of SWNT. Even more significant is that distinct excited state interactions prevail and that a kinetically and spectroscopically well-characterized radical ion pair state is formed. During the course of our studies we gained full control over all of the underlying interactions. Our current efforts are directed towards n-doping of SWNT with appropriate electron donors and integrating both into p-n junctions.

Published in Nature Chemistry 1, 243-249 (2009)

NEWS

EAM Graduate School

Opened
in August



The EAM Graduate School Advanced Materials and Processes is an interdisciplinary program for doctoral researchers in EAM projects. It provides special training for doctoral researchers through advanced scientific qualification as well as personal and leadership skills development. One of its main objectives is networking: fostering exchange between the doctoral researchers in the seven EAM research areas and supporting their endeavors in building a strong international network. Other aspects of the program are to provide researchers with intensive mentoring during the qualification phase and to help prepare them for assuming positions of leadership in science or industry. To this end the school will organize key qualification courses and regular seminars and will offer financial support for international conference visits or research trips. The graduate school is now accepting applications from doctoral researchers who are financed by EAM.

Details on the graduate school's program and the application process can be found at: www.eam.uni-erlangen.de/graduate_school.html. The graduate school manager, Carsten Schür, will be happy to answer questions on the school and the application process. He also welcomes suggestions for the program.



A meeting of the first graduate school members and interested doctoral researchers is planned for October 26th, 2009 at 17.00 in the seminar room in Nögelsbachstr. 49b. Carsten Schür will briefly present the graduate school concept, and a question and answer session will follow to address any organizational and administrative issues. The meeting will mark the start of regularly-held graduate school meetings in which members have the opportunity to interface and present their research topics. The meeting will conclude with an informal get-together with drinks and snacks. All interested EAM doctoral researchers are cordially invited!

Contact: Dr. Carsten Schür, Carsten.schuer@eam.uni-erlangen.de

Built in Record Time New Building for the EAM Transmission Electron Microscope



Microscopic and analytical methods on all length scales are key tools for the design of new engineering materials within EAM. The expansion of structural and analytical capabilities within the research scope of the Cluster can now be ensured thanks to the founding of the Center for Nanoanalysis and Electron Microscopy (CENEM), which provides instruments and expertise for structural analysis of materials and devices down to the atomic scale. With funding from the Cluster, the CENEM bought a new high resolution Transmission Electron Microscope (TEM), which – because of the instrument's size and special requirements for shielding – required expansion of the EAM facility. Financed by the University, a new building comprising 90 square meters was constructed and was ready for use in spring 2009, all in record time. Since then, technicians have been working to install the microscope. The TITAN³ TEM is now operational and the first images are starting to appear. Read more highlights of the new TEM in the next issue of our newsletter!



9 Mio. Euros for Particles – Erlangen to Build Unique Research Center

The Cluster has another reason to celebrate: The University enjoyed huge success at the competition for the funding of important national research facilities. Its proposal for an “Interdisciplinary Center for Functional Particle Systems“ was rated best of all entries. The German federal government and the government of Bavaria will share investment costs of about 9 million Euros. The new building will comprise about 1,400 square meters of usable floor space and will house the activities of the EAM research areas Particle Technology and Optic and Photonic Materials. It will be situated at the south campus of the University.

The space is desperately needed. With the arrival of new EAM funded professorships and researchers, the University is bursting at the seams. Wolfgang Peukert, coordinator of EAM and future occupant of the building, states proudly: “The cooperation between eight disciplines with focus on optical and photonic materials, nanoelectronics and catalytic and lightweight materials in Erlangen is unrivaled. The new building will allow us to establish an internationally unique interdisciplinary research center. It will help us to attract renowned scientists and will provide scientists from Chemistry, Chemical Engineering, Physics, Mathematics and Materials Engineering an inspiring working environment.”



Busy EAM/CBI Booth at ACHEMA 2009 in Frankfurt

EAM and the Department of Chemical and Bioengineering (CBI) presented its research expertise at the ACHEMA 2009. ACHEMA – the leading trade show in Chemical Engineering, Biotechnology, Environmental Protection and adjacent sectors – took place this year from May 11 – 15 in Frankfurt. Providing an overview of the broad array of expertise of both institutions, the stand included exhibits on Ionic Liquids, Catalysis, Particle Technology, High Pressure Engineering, Optics, Nanoelectronics, Biotechnology, Nanoanalysis and Electron Microscopy as well as Modeling and Simulation. In addition, both EAM (with its integrated graduate school) and CBI presented their wide range of research opportunities for prospective students and scientists.

The department's 100 m² display of cutting-edge developments resounded well among students and visitors from academia and industry from all over the world. Among the more than 320 contacts at the EAM/CBI stand, of which a third came from abroad, representing 32 countries. The success of the presentation with the new stand concept encourages further initiatives of the Cluster to use trade shows for technology transfer and academic contacts in the future.



Meet with Science – Press Conference in Fürth

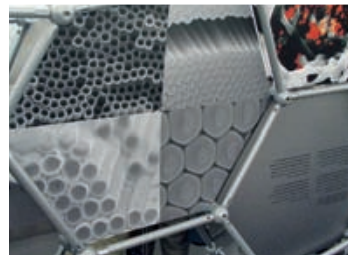
The region of Nuremberg – Fürth – Erlangen has been designated as one of ten metropolitan areas in Germany as “Treffpunkt der Wissenschaft” (Crossroad of Science) with a special focus on Advanced Materials. “Treffpunkt der Wissenschaft” is a project of the Robert Bosch Foundation in cooperation with the German Association of Cities and Towns (Deutscher Städtetag) in the framework of the Year of Science 2009.

On May 25, 2009 a press conference was held, marking the start of the activities in the region Nuremberg-Fürth-Erlangen. In his statement Prof. Peukert highlighted the work of EAM. As an interdisciplinary research network in Nuremberg – Fürth – Erlangen, EAM acts as a “hotbed for materials of the future” to develop tailored high-tech materials. Following the press conference, a guided tour provided participants with an overview of the research activities of the Central Institute of Advanced Materials and Processes (ZMP) as well as the Development Center for X-ray Technology (EZRT). EZRT is a joint department of both Fraunhofer IZFP, Saarbrücken, and Fraunhofer IIS, Erlangen, and cooperates closely with research area E Lightweight Materials.



Picture: Fraunhofer IIS/Fuchs

Participants of the Press Conference (from left to right): Prof. Dr. Heinz Gerhäuser (Fraunhofer IIS), Prof. Dr. Thomas Frey (Ohm-UAS Nuremberg), Antje Drexler (Robert Bosch Foundation), Dr. Martin Thomé (BMBF), Dr. Thomas Jung (Mayor of Fürth), Dr. Elisabeth Preuß (Vice Mayor of Erlangen), Dr. Ulrich Maly (Mayor of Nuremberg), Prof. Dr. Wolfgang Peukert (University Erlangen-Nuremberg), Dr. Randolph Hanke (Fraunhofer IIS)



Science Express in Nuremberg

From July 12 – 14 this summer, the commuter railway stop Frankenstadion was the destination for more than 4,700 curious explorers on board the Science Express to see the “Expedition Zukunft” train exhibition. The Science Express is part of the “Forschungsexpedition Deutschland 2009” initiated by the German Federal Ministry of Education and Research (BMBF). In train car number 06 “INNOVATIVE+VIRTUAL”, EAM introduced itself through an exhibit by the Organic Materials and Devices Group (OMD) of Marcus Halik who showed off demonstrators of flexible electronic devices for mobile applications.

Continuing through November of this year, the Science Express will travel through 62 German cities, welcoming an average of 1,600 visitors per day. China has expressed an interest in taking over the train after its journey through Germany.

Above are some impressions from the exhibition, including the work of EAM scientists: Train during its stop in Nuremberg, particle and lightweight structure, titanium dioxide structures.

For further information on the Science Express go to:

www.expedition-zukunft.org

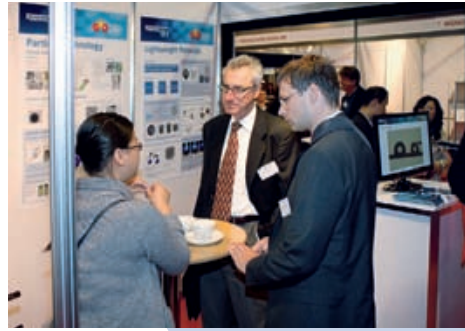
Further information on the research of the OMD-Group can be found at: www.umd.uni-erlangen.de

Cluster Congress in Nuremberg



On July 22, more than 1,500 visitors participated in the Congress Cluster Initiative Bavaria – Strong in Competition which was initiated by the Bavarian Ministry of Economic Affairs, Infrastructure, Transport and Technology. EAM presented two exhibits at the booth of the Cluster “Neue Werkstoffe” (Materials Engineering), one of the 19 Clusters of Bavaria. The “Bavarian Cluster Initiative” was designed to enhance Bavaria’s role as a top location for business and research. One of the goals is to promote cooperation between companies and research in 19 key sectors. EAM joined the Cluster of Bavaria “Materials Engineering” in order to strengthen its focus of networking with industry.

At the booth of the Cluster Materials Engineering, Robert Singer, coordinator of research area E Lightweight Materials explained the manufacturing process by using selective electron beam melting (SEBM). (See photo of Singer with Bavarian Science Minister Dr. Wolfgang Heubisch (right) and the Bavarian Minister of Economic Affairs, Infrastructure, Transport and Technology Martin Zeil (left), as they admire the bust of Ludwig Erhard.) SEBM parts are formed layer by layer from metal powder which is molten locally with the help of an electron beam. SEBM does not require tooling and is, therefore, also referred to as freeform fabrication. In the case of cellular structures, the use of SEBM gives access to geometries that would be very hard or even impossible to obtain by any other process route. The other exhibit shown at the congress was an example of cellular ceramic from Peter Greil’s group.



Euromat 2009 Glasgow, UK

Eight EAM scientists attended the European Congress on Advanced Materials and Processes – Euromat 2009 – which was held from September 7-10 in Glasgow, UK. They introduced the research conducted at EAM in the areas A1, C and E through six presentations, poster sessions and an exhibition stand. The researchers presented Erlangen’s standing as an important center for materials science research in Germany. The stand advertised the outstanding conditions for study and research at the University Erlangen-Nuremberg and it detailed the research at EAM, with a focus on its work in the study of Lightweight Materials and Particle Technology.

Around 1,200 international delegates attended the congress, and the response to our stand was extremely positive. Its central location in the exhibition hall captured the attention of many interested visitors. The EAM team answered numerous questions and established some very important new contacts. At the same time, the concept and the activities of EAM and its partners were introduced to a larger part of the materials science community, whose members were able to engage in direct and in-depth discussions with the authors of our program’s scientific presentations. We are tremendously pleased with the overall success of our participation in the congress and look forward to continued and expanded interaction with colleagues in this field.

Minister Visited EAM Activities in Fürth

The Bavarian Science Minister Dr. Wolfgang Heubisch visited the Central Institute of Advanced Materials and Processes on September 10. On a lab tour with Andreas Hirsch and Mathias Göken, both members of the

executive board of EAM, Dr. Heubisch gained an impression of the current research in EAM research area E Lightweight Materials.



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