

Young Researchers



meet Professionals

MATERIALS SCIENCE AND ENGINEERING



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**24-26 Aug 2010
Darmstadt, Germany**

www.mse-congress.de



Deutsche Gesellschaft für Materialkunde eV

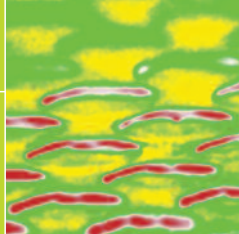


Deutsche Forschungsgemeinschaft



TECHNISCHE UNIVERSITÄT DARMSTADT





The Technical Programme and its Organisers

A: Functional Materials

E. Quandt, Christian-Albrechts-University of Kiel

A2 Intelligent Materials

H. Fritze, Technical University of Clausthal, Goslar (Germany);
A. Hütten, University of Bielefeld (Germany)

A3 Mesoporous

M. Biener, Lawrence Livermore National Laboratory (USA);
H. Peterlik, University of Vienna (Austria); J. Schneider, Technical University Darmstadt; J. Biener, A. Hamza, Lawrence Livermore National Laboratory, USA

A4 Polymer Nanocomposites

H. Münstedt, University of Erlangen-Nürnberg (Germany);
F. Faupel, Christian-Albrechts-University of Kiel (Germany)

B: Structural Materials

C. Leyens, Technical University Dresden

B1 Intermetallic Aluminides: Physical Metallurgy and Processing

F. Appel, M. Oehring, J. D.H. Paul, GKSS Forschungszentrum Geesthacht GmbH (Germany)

B2 Modern Steels

H. Biermann, P.R. Scheller, Technical University of Freiberg (Germany)

B3 Refractory Materials

C. Aneziris, Technical University of Freiberg (Germany); P. Quirnbach, Deutsches Institut für Feuerfest und Keramik, Bonn (Germany)

B4 Functional Amorphous Materials and Glasses

L. Wondraczek, University of Erlangen-Nürnberg (Germany)

B5 New Methods in Materials Design

W. Bleck, RWTH Aachen (Germany); H.-J. Hoffmann, Technical University Berlin (Germany)

B6 Mechanical Properties and Microstructure

H.-J. Christ, University of Siegen (Germany); M. Heilmaier, Technical University Darmstadt (Germany)

C: Processing

R. Riedel, Technical University Darmstadt

C1 Nanomaterials and Composites

K.-H. Haas, Fraunhofer-Institut für Silicatforschung, Würzburg (Germany); R. Gadow, F. Kern, University of Stuttgart (Germany)



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C2 Coatings

J. Vetter, Sulzer Metaplas, Bergisch Gladbach (Germany); R. Pitonak, Boehlerit GmbH & Co.KG, Kapfenberg (Austria)

C3 Joining

C. Sommitsch, Graz University of Technology (Austria); U. Reisgen, RWTH Aachen University, Juelich (Germany)

C4 FAST Processing and Rapid Manufacturing

J. Stampfl, Technical University Vienna (Austria); B. Baufeld, Katholieke Universiteit Leuven (Belgium); J. R. Groza, University of California, Berkeley (USA); M. Farsari, Foundation for Research and Technology-Hellas (FO.R.T.H.), Heraklion (Greece); P. Greil, University of Erlangen-Nürnberg (Germany)

D: Characterisation

A.R. Kaysser-Pyzalla, Helmholtz-Zentrum Berlin für Materialien und Energie

D1 Microstructure Characterisation

V. Abetz, GKSS-Forschungszentrum Geesthacht GmbH (Germany); D. Rafaja, Technical University of Freiberg (Germany)

D2 New Techniques

W. Hoffelner, Paul Scherrer Institut, Villigen (Switzerland); C. Hébert, EPFL, Lausanne (Switzerland); U. Kaiser, University of Ulm (Germany); A. Bleloch, University of Daresbury, Liverpool (UK); J. Ren, Liverpool John Moores University (UK); A. Froideval, Paul Scherrer Institut, Villigen (CH); J. Neuhaus, Technical University of München (Germany); W. Neumann, Humboldt-University Berlin (Germany)

D3 Characterisation of Material Properties

J. Olbricht, Bundesanstalt für Materialforschung und -prüfung, Berlin (Germany); H.J. Maier, University of Paderborn (Germany); A. Weidner, Technical University of Freiberg (Germany); D. Holland-Moritz, German Aerospace Center, Köln (Germany)

E: Modelling

K. Albe, Technical University Darmstadt

E2 Materials Processing

F. Hoffmann, Stiftung Institut für Werkstofftechnik, Bremen (Germany); H.J. Seifert, Technical University of Freiberg (Germany)

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E3 Nucleation, Microstructure Evolution and Phase Transitions

H. Emmerich, RWTH Aachen (Germany); I. Steinbach, Ruhr University Bochum (Germany)

F: Biomat

K. D. Jandt, T. F. Keller, Friedrich-Schiller-University Jena

F1 Bio-Inspiration

T. Scheibel, University of Bayreuth (Germany); I. Burgert, Max-Planck-Institut für Kolloid- und Grenzflächenforschung, Potsdam (Germany); S.-H. Yu, University of Science and Technology of China; C. Zollfrank, University of Erlangen-Nürnberg (Germany)

- BLOKON - Biomimetics Network of Excellence

- VDI - The Association of German Engineers, Society for Technologies of Life Sciences

- Landesexzellenzcluster der Landesexzellenzinitiative Hamburg "Integrated Materials Systems"

F3 Interfaces

K. Rezwan, University of Bremen (Germany); N.J. Shirtcliffe, Nottingham Trent University (UK)

F5 Biomaterial Applications

A.R. Boccaccini, University of Erlangen-Nürnberg (Germany)

MSE Side Events

SE1 Teaching and Learning Materials Science and Engineering

Tue, 24 Aug, 14:45 - 18:20 h
(in English)

SE2 Nachwuchs-Karriereworkshop der BVMatwerk

Mon, 23 Aug, 10:00 - 16:30 h
(in German)

SE3 Innovation, Technologietransfer und Gesellschaft

Wed, 25 Aug, 08:30 - 18:20 h
(in German)

SE4 Innovationspotenzial ausgewählter neuer Werkstoffe

Wed, 25 Aug, 08:30 - 18:20 h
(in German)

SE5 Neue Chancen für Materialwissenschaft und Werkstofftechnik im Europäischen Forschungsraum?

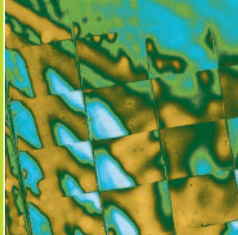
Tue, 24 Aug, 14:45 - 18:20 h
(in German)

SE6 Unsichtbar, aber unverzichtbar: Wie steigern wir die Wahrnehmung von Materialwissenschaft und Werkstofftechnik in der Öffentlichkeit?

Wed, 25 Aug, 14:45 - 18:20 h
(in German)

Detailed information is available at the MSE website at:

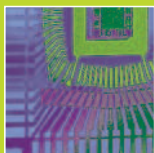
www.mse-congress.de



Programme Overview

		1	2	3	4	5	6	7
Tue 24 Aug	09:45	Opening Ceremony						
	09:55	Plenary Lecture (Peter Greil, Univ. Erlangen-Nürnberg, D)						
	10:40	F5	D3	A2	B6	C2	C1	E3
	13:45	Plenary Lecture (Helena Van Swygenhoven-Moens, PSI, CH)						
	14:30	F5	D3	A3	B6	C2	C1	E3
	16:40	F5	D3	A4	B6	C2	C1	E3
	19:00	MSE-Party						
Wed 25 Aug	8:30	F1	D3	D2	B6	B2	C1	E2
	10:40	F1	D3	D2	B6	B2	C1	E2
	13:45	Plenary Lecture (Franz Faupel, University of Kiel, D)						
	14:30	F1	D3	D2	B4	B1	C3	E2
	16:40	F1	D3	D2	B4	B1	C3	E2
	18:20	Poster Evening						
Thu 26 Aug	8:30	Plenary Lecture (Gerhard Dehm, University of Leoben, A)						
	9:15	F3	D1	B3	B5	B1	C3	C4
	11:20	F3	D1	B3	B5	B1	C3	C4
	14:00	F3	D1	B6	B5	B1	C3	C4
	15:40	Plenary Lecture (Matthias Wuttig, RWTH Aachen, D)						
	16:20	Closing Address						

The scientific programme is run in 7 parallels from Tue, 24 Aug, to Thu, 26 Aug 2010.



The Conference

MSE 2010

Do not miss this excellent occasion to communicate with the interesting community to discover its directions, priorities and opportunities. The new MSE will create an atmosphere in which young talents get the chance to mix with professors and industries.

Opening/Closing Address

Opening: The opening address takes place on Tue, 24 Aug, at 09:45 h. Participants' registration will start at 08:30 h at the **karo5**, the entrance of the lecture hall building of the Technical University Darmstadt. The closing address will take place on Thu, 26 Aug, at 16:20 - 16:30 h.

MSE-Party

The MSE Party will take place on Tue, 24 Aug, evening starting at 19:00 h at the student restaurant, next to the congress location. Do not miss the performance of Waymond Harding and Smiley Garfield!

Poster Evening

The Poster Evening on Wed, 25 Aug, will give poster authors the opportunity to be available in front of their poster in order to discuss

their subject and respond to questions. Snacks and beverages will be offered. The best 3 posters will be awarded a poster prize from the publishing house Wiley-VCH. The winners will be identified by a jury and will be announced during the closing address. The MSE Party and the Poster Evening are included in the registration fees. Additional tickets for the MSE Party will be charged with 25 EUR per Person.

Proceedings

There will be no publication of a complete set of proceedings. However, it is anticipated that a number of journals may decide to release special issues on particular Topics or Symposia.

Conference Fees

University:

550 EUR (500 EUR for DGM members)

Industry:

715 EUR (650 EUR for DGM members)

Student/PhD (up to 35 years):

165 EUR (150 EUR for DGM members)

Surcharge of 10% for late registration will be added to the above registration fees from 01 August 2010.



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Topic Organiser

Programme Structure

The Technical Programme will be built by more than 600 presentations, e.g. 5 plenaries, 17 keynotes and highlights and 300 contributed lectures, 100 oral posters and 300 posters. The programme is chaired by the Topic coordinators.

Topic A: Functional Materials



Prof. Dr. Eckhard
Quandt
Christian-Albrechts-
University of Kiel

Topic B: Structural Materials



Prof. Dr. Christoph
Leyens
Technical University
Dresden

Topic C: Processing



Prof. Dr. Ralf Riedel
Technical University
Darmstadt

Topic D: Characterisation



Prof. Dr. Anke
Kaysser-Pyzalla
Helmholtz-Zentrum
Berlin für Materialen
und Energie,
Berlin

Topic E: Modelling



Prof. Dr. Karsten
Albe
Technical University
Darmstadt

Topic F: Biomat



Prof. Dr. Klaus D.
Jandt
Friedrich-Schiller-
University Jena



Dr. Thomas F. Keller
Friedrich-Schiller-
University Jena

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Plenary Lectures

Bioengineered Ceramics

Tue, 09:55 h



Prof. Dr. Peter Greil,
University of
Erlangen-Nürnberg
(Germany)

Small and Strong: Materials at Their Mechanical Limit

Thu, 8:30 h



Prof. Dr. Gerhard
Dehm, University of
Leoben (Austria)

Micromechanics and Microstructures: X-rays, Neutrons and Computation

Tue, 13:45 h



Prof. Dr. Helena
Van Swygenhoven-
Moens, Paul Scher-
rer Institute, Villigen
(Switzerland)

Phase Change Materials: from Optical Data Storage to Novel Electronic Memories

Thu, 15:40 h



Prof. Dr. Matthias
Wuttig, RWTH
Aachen University
(Germany)

Metal-Polymer Nanocomposites for Functional Applications

Wed, 13:45 h



Prof. Dr. Franz
Faupel, Christian-
Albrechts University
at Kiel (Germany)

Conference Location



Travel Directions

Darmstadt is located in the South of the Rhine Main region with access to and from the A5 and A67 motorways.

By Air

Frankfurt International Airport is only 20 minutes away by car.

There are also fast shuttle bus (from Terminal 1 and Terminal 2) and rail connections between Frankfurt Airport and Darmstadt main railway station (Hauptbahnhof)

By rail

From Darmstadt main railway station, public transport services take you to the conference location in just 10 minutes.

Busses: F, H, K / Trams: 3 and 5 Station "Schloss"

Conference Venue

MSE 2010

TU Darmstadt, karo5, Karolinenplatz 5, 64289 Darmstadt

DGM-Tag 2010

Hessisches Staatsarchiv Darmstadt, Karolinenplatz 3, 64289 Darmstadt

MSE Side Events

Welcome Hotel, Karolinenplatz 4, 64289 Darmstadt

Congress Office MSE

Deutsche Gesellschaft für Materialkunde e.V.

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DGM-Tag 2010

23. August 2010
Darmstadt



Photo: © Frank Vogler / TU Darmstadt

10:00 - 14:00

DGM-Klausur:

- DGM-Fachausschuss- und Arbeitskreisleiter
Ort: Karolinensaal im Staatsarchiv
- DGM-Beraterkreis
Ort: Welcome Hotel

parallel dazu:

BVMatWerk-DFG-DGM-Nachwuchskarriereworkshop

Informationsveranstaltung zu Karrieremöglichkeiten in Wissenschaft, Industrie, Ausland und Selbstständigkeit für Promovierende
Ort: Welcome Hotel

14:30 - 17:30

DGM-Mitgliederversammlung

Ort: Vortragssaal, Staatsarchiv

18:00 - 19:30

DGM-Preisverleihung

Ort: Vortragssaal im Staatsarchiv

anschließend

DGM-Gesellschaftsabend

Ernennung der DGM-Ehrenmitglieder

Ort: Karolinensaal im Staatsarchiv

Veranstaltungsort DGM-Tag

Hessisches Staatsarchiv Darmstadt
Karolinenplatz 3
64289 Darmstadt

Hotels

Aufgrund der günstigen Lage, empfehlen wir das Welcome Hotel, Karolinenplatz 4
64289 Darmstadt

Weitere Hotelvorschläge und eine Anfahrtsbeschreibung finden Sie im Internet:

www.dgm.de/dgntag

Teilnahmegebühren

Normale Teilnahmegebühr:
EUR 60,-
Ermäßigte Teilnahmegebühr (Ruheständler, Studenten):
EUR 30,-

Organisation DGM-Tag

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