Young Researchers

MSE 2010

meet Professionals

MATERIALS SCIENCE AND ENGINEERING

Photo: © Katrin Binner / TU Darmstadt

24-26 Aug 2010
Darmstadt, Germany
www.mse-congress.de

DGM Deutsche Gesellschaft für Materialkunde eV

DFG Deutsche Forschungsgemeinschaft

TECHNISCHE UNIVERSITÄT DARMSTADT

Werkstofftechnik Materialwissenschaft

acatech Deutsche Akademie der Technikwissenschaften

stmw

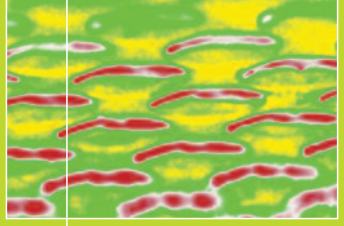
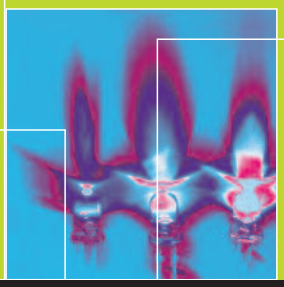
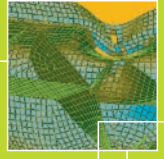
Fraunhofer ISI

MATRIX

VDI Technologiezentrum

MSE 2010 Programme Overview

	lecture-room	A1 ground-floor	A2 ground-floor	A3 ground-floor	A4 ground-floor	A5 ground-floor	A03 basement	A04 basement
Tue	9:45	A1: MSE Opening, Prof. Kaysser						
24 Aug	10:40 - 14:00	Hans Eckart Exner-Memorial, Building S3/20						
	9:55-10:35	A1: 1. Plenary, Jürgen Rödel, (TU Darmstadt, D)						
	10:40-12:20	D3	C2	E3	F5	A2	B6	C1
	12:20-13:45	lunch break						
	13:45-14:25	A1: 2. Plenary, Helena Van Swygenhoven-Moens;(PSI, CH)						
	14:30-16:10	D3	C2	E3	F5	A3	B6	C1
	16:10-16:40	coffee break						
	16:40-18:20	D3	C2	E3	F5	A4	B6	C1
	19:00-23:00	MSE-Party, Opening Prof. Quandt, MSE-CongressChair						
Wed	8:30-10:10	D3	D2	E2	F1	B2	B6	C1
25 Aug	10:10-10:40	coffee break						
	10:40-12:20	D3	D2	E2	F1	B2	B6	C1
	12:20-13:45	lunch break						
	13:45-14:25	A1: 3. Plenary, Franz Faupel (University of Kiel, D)						
	14:30-16:10	D3	D2	E2	F1	B1	B4	C3
	16:10-16:40	coffee break						
	16:40-18:20	D3	D2	E2	F1	B1	B4	C3
	18:20-21:00	Poster Evening with snacks and beer						
Thu	8:30-9:10	A1: Announcement of the Poster Prize Winners 4. Plenary, Gerhard Dehm (Erich-Schmid-Institute, A)						
26. Aug	9:15-10:55	B3	D1	C4	F3	B5	B1	C3
	10:55-11:20	coffee break						
	11:20-13:00	B3	D1	C4	F3	B5	B1	C3
	13:00-14:00	lunch break						
	14:00-15:40	B6	D1	C4	F3	B5	B1	C3
	15:45-16:25	A1: 5. Plenary, Matthias Wuttig (RWTH Aachen University, D)						
	16:25-16:35	A1: Closing Address, Professor Heilmaier, TU 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, Technische Universität 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, Technische Universität 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, Technische Universität Freiberg (Germany)

B3 Refractory Materials
C. Aneziris, Technische Universität Freiberg (Germany); P. Quirmbach, 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, Technische Universität Berlin (Germany)

B6 Mechanical Properties and Microstructure
H.-J. Christ, University of Siegen (Germany); M. Heilmaier, Technische Universität Darmstadt (Germany)

C: Processing

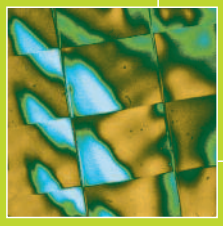
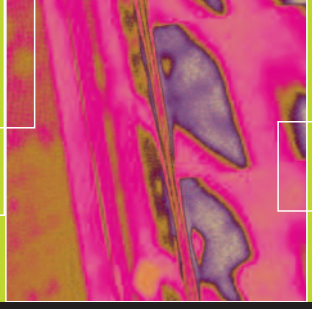
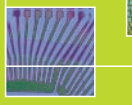
R. Riedel, Technische Universität Darmstadt

C1 Nanomaterials and Composites
K.-H. Haas, Fraunhofer-Institut für Silicatforschung, Würzburg (Germany); R. Gadow, F. Kern, University of Stuttgart (Germany)

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, Technische Universität 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)


Photographs Courtesy Fraunhofer-Gesellschaft

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, Technische Universität 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, Technische Universität 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, Technische Universität Freiberg (Germany); D. Holland-Moritz, German Aerospace Center, Köln (Germany)

E: Modelling

K. Albe, Technische Universität Darmstadt

E2 Materials Processing

F. Hoffmann, Stiftung Institut für Werkstofftechnik, Bremen (Germany); H.J. Seifert, Technische Universität Freiberg (Germany)

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)

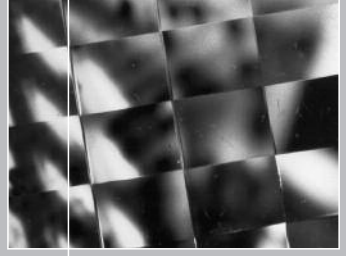
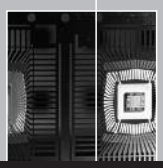
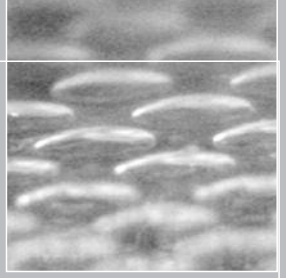
- BIOKON - Biomimetics Network of Excellence
- VDI - The Association of German Engineers, Society for Technologies of Life Sciences
-Landesexzellenzcluster der Landesexzellenzinitiative Hamburg "Integrated Materials Systems"

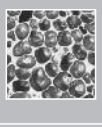
F3 Interfaces

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

F5 Biomaterial Applications

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



MATERIALS SCIENCE AND ENGINEERING

24-26 Aug 2010
Darmstadt, Germany
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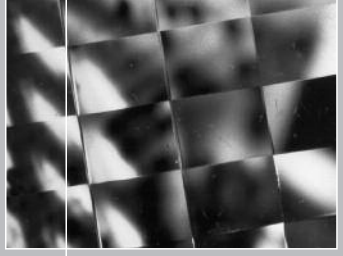
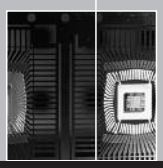
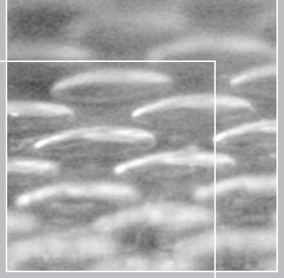

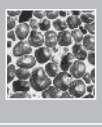

MSE Experts Committee

MSE will build a forum on which the multilateral parties can meet to exchange ideas and to organise societal activities.

Do not miss this exellent 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 opportunity to mix with professors and industries. The programme is chaired by the MSE-Expert Committee.

Topic A:
Functional Materials

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

Topic B:
Structural Materials

Prof. Dr. Christoph Leyens
Technische Universität Dresden

Topic C:
Processing

Prof. Dr. Ralf Riedel
Technische Universität Darmstadt

Topic D:
Characterisation

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

Topic E:
Modelling

Prof. Dr. Karsten Albe
Technische Universität 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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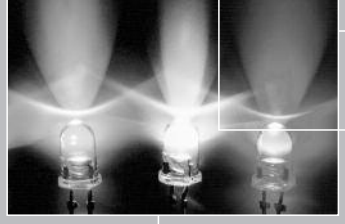

General Information

List of Participants
All participants are listed on the website: www.mse-congress.de
The list of participants will remain online after the congress.

Lecture Presentation and Discussion Times
- Plenary: 40 minutes (without discussion)
- Keynote: 40 minutes (incl. 10 minutes of discussion)
- Highlight Lecture and Lectures: 20 minutes (incl. 3 minutes of discussion)
- Oral Poster: 3 minutes (discussion in front of the poster)

Programm Details:
5 Plenary Lectures
10 Keynote Lectures
8 Highlight Lectures
290 Lectures
76 Oral Posters
210 Posters

Publications
There might be number of journals who will publish a selection of papers after the congress based on particular Topics or Symposia. If a paper is among those that have been chosen for publication, the editor will get in touch with the author directly. Therefore, we kindly ask authors not to send any manuscripts without being addressed.

Poster Mounting/Dismantling Times
Posters remain on display during the whole congress.
Mountig Times:
Mon, 23 Aug: 18:00 - 19:00 h
Tue, 24 Aug: 8:00 - 10:00
Dismantling Time:
Thu, 26.8.: from 16:30 h

Coffee Breaks
Coffee will be served for free during the coffee breaks. Additional beverages, sandwiches and fruits may be purchased separately.

Lunch
Lunch is not included in the conference fee. There are several opportunities in the refectory and in the city centre nearby.

MSE Party
The MSE party takes place on Tuesday at 19:00 h. Participation is included in the conference fee. Accompanying persons or Side Events participants may purchase tickets at a price of 25 EUR.

Poster Evening
Wednesday, 18:45 - 21:00 h, Foyer, Karo5
The poster evening on Wednesday 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. Delegates start meeting the authors at their posters after the lecture programme.

Poster Award
The best 3 posters will be awarded a poster prize that consists of a voucher from the publishing house Wiley-VCH. The winners will be identified by a jury. The Prizes will be announced on Thursday at 8:30 h in Lecture Hall A1(before the Plenary Lecture).

Conference Fees
University:
605 EUR (550 EUR for DGM members)
Industry:
786 EUR (715 EUR for DGM members)
*Student **/ PhD-Student:*
181 EUR (165 EUR DGM members)

Fees for the attendance of the Technical Programme are free of VAT.
Surcharge of 10% for late registration has been included in the above registration fees since 01 August 2010.

Conference Venue
MSE 2010
TU Darmstadt, karo5, Karolinen-platz 5, 64289 Darmstadt
MSE Side Events
Welcome Hotel, Karolinenplatz 4, 64289 Darmstadt

Parking
There is a car park at the Welcome Hotel that can be used at 10 EUR per day.

Tuesday, 24 August

Hans Eckart Exner-Memorial
„Progress in Sinter Technology and Quantitative Image Analysis of Microstructures“

Hans Eckart Exner, Professor at the Technische Universität Darmstadt, Germany, passed away in October 2009.

A special session will be held on selected lectures given by his former students, colleagues and companions.

Venue:
Rundeturmstraße 10
Buidling S3/20

Programme:

10:40 h
Laudatio Hans Eckart Exner

G. Petzow, Max-Planck-Institut für Metallforschung, Stuttgart (Germany)

11:00 h
3D-Gefügeanalyse in der Mikro- Nano- und atomaren Skala

F. Mücklich, Saarland University, Saarbrücken (Germany)

11:20 h
Pulvermetallurgische Produkte und Fertigungsverfahren im Bereich "Green Energy"

L. Sigl, Plansee SE, Reutte (Austria)

11:40 h
Modeling of Sintering: Challenges and Further Development

E. Olevsky, San Diego State University (USA)

11:55 h
On the Use of Sintercladding as a Novel Process for Iron-Base Wear Resistant Coatings

S. Weber, Helmholtz-Zentrum-Berlin für Materialien und Energie GmbH, Berlin (Germany)

12:10 h
Influence of Microstructural Features on the Electrical Conductivity of CuCr Alloys

K. von Klinski-Wetzel, M. Heilmaier, C. Kowanda, F.E.H. Müller, TU Darmstadt (Germany)

12:25 h
Simulation und Quantitative Analyse von Gefügen mit irregulären Eutektika

M. Rettenmayr, Friedrich Schiller University Jena; O. Pompe, B. Dutta, TU Darmstadt (Germany)

12:45 h
Reaktionssintern

N. Claussen, Freiburg (Germany)

13:05 h
Lunch in the Foyer of the Lecture Hall organised by the Institue of Physical Metallurgy.

Tuesday, 24 August

SE1: Wege zur Promotion in Materialwissenschaft und Werkstofftechnik
Dienstag, 24. August 2010, 14:45 h - 17:45 h, Welcome Hotel Darmstadt
- in German -

Vorstellung der Ausbildungskonzepte von Graduiertenkollegs und SFBs mit integriertem Graduiertenkolleg im Fachgebiet Materialwissenschaft und Werkstofftechnik:

- Prof. Dr. Göken, Uni. Erlangen-Nürnberg
- Prof. Dr. Grathwohl, Uni. Bremen
- Prof. Dr. Quandt, Uni. Kiel
- Dr. Geigenmüller, TU Bergakademie Freiberg
- Prof. Dr. Wanner, KIT

Pause 15 min

- Dr. Schmidtmann, DFG, Promotion in strukturierten Programmen aus Sicht der DFG
- V. Lohel, Promotion in den Ingenieurwissenschaften, Ergebnisse einer ACATECH-Studie
- N.N., Anforderungen an promovierte Ingenieure aus Sicht der Industrie, Vertreter der Fa. Heraeus
- Prof. Dr. M. Heilmaier, TU Darmstadt, Promotion aus Sicht einer TU

Podiumsdiskussion (30 min)

Tuesday, 24 August

SE5: Neue Chancen für Materialwissenschaft und Werkstofftechnik im Europäischen Forschungsraum?
14:45 -18:20 Uhr, Welcome Hotel

Zielsetzungen
- Visionen entwickeln (Forschungsstrategien, Konzepte, ...)
- Information, bestehende Möglichkeiten darstellen und gegenseitig austauschen
- Bedarf an Themen, Maßnahmen, Förderung abfragen, der klar auf den Mehrwert europäischer Zusammenarbeit abhebt.
- Wie lässt sich dieser Bedarf aus deutscher Sicht stärker in Europa vertreten?

Häufig erscheint der Europäische Forschungsraum abstrakt und schwer durchschaubar. Diese gemeinsam von acatech und DFG ausgerichtete Sitzung möchte den Europäischen Forschungsraum besser greifbar machen und setzt dazu an gegenwärtigen Herausforderungen im Bereich der Materialwissenschaft und Werkstofftechnik in Deutschland an.

Vertreter aus Wissenschaft, Wirtschaft und Administration werden anhand konkreter Beispiele folgende Fragen diskutieren:
- Welche neuen Möglichkeiten können in einem Europäischen Forschungsraum entstehen?
- Gibt es schon Beispiele guter Praxis?
- Welche Themen und Fördermaßnahmen sind jetzt und in Zukunft relevant?

Ansprechpartner:
Prof. Dr.-Ing. Christina Berger, Technische Universität Darmstadt / acatech (berger@mpa-ifw.tu-darmstadt.de)
Dr. Marc-Denis Weitze, acatech Geschäftsstelle (weitze@acatech.de)
Dr.-Ing. Burkhard Jahnen, Deutsche Forschungsgemeinschaft (Burkhard.Jahnen@dfg.de)
Dr.-Ing. Xenia Molodava, Deutsche Forschungsgemeinschaft (xenia.molodova@dfg.de)

Wednesday, 25 August

SE4: Innovationspotenzial ausgewählter neuer Werkstoffe
08:30 Uhr - 16:30 Uhr, Welcome Hotel

In dem Symposium mit Workshop-Charakter werden die beiden folgenden Werkstoffthemen in zwei aufeinanderfolgenden Sessions behandelt:

- Metallische Gläser (Vormittags-Session)

- Funktionelle Oxide für die Elektronik (Nachmittags-Session)

Beide Themen betreffen innovative Materialien, die sich dadurch auszeichnen, dass sie sich (noch) im Stadium intensiver materialwissenschaftlicher Forschung befinden, aber bereits ein großes Potenzial hinsichtlich ihrer Anwendung in gesellschaftlich und wirtschaftlich relevanten Bereichen erkennen lassen.

Ziel ist es, für diese beiden Werkstoffthemen den aktuellen nationalen und internationalen Stand der Forschung und Entwicklung abzustecken, Innovationspotenziale für verschiedene Anwendungsbereiche aufzuzeigen und den weiteren Forschungs- und Entwicklungsbedarf herauszuarbeiten. Dazu werden verschiedene Fragestellungen, die sich zum einen auf technologische Aspekte und zum anderen auf anwendungsspezifische Probleme konzentrieren, systematisch bearbeitet. In der abschließenden Diskussionsrunde sollen die adressierten Anwendungen und die erforderlichen Entwicklungsschritte in einer Roadmap zeitlich eingeordnet werden.

Das Symposium richtet sich sowohl an F&E-Gruppen aus Instituten und Unternehmen, die an den betreffenden Werkstoffen arbeiten, als auch an potentielle industrielle Anwender in der Wertschöpfungskette. Der intensive Dialog der Teilnehmer soll dazu beitragen, den Innovations- und Umsetzungsprozess bei den betreffenden Werkstoffen zu unterstützen.

Die beiden Themen werden getrennt voneinander in einer Vormittags- und einer Nachmittagssession bearbeitet. Nach einem einführenden Übersichtsvortrag folgt die erste offene Diskussionsrunde, in der

Tuesday, 24 August

die zentralen technologischen Herausforderungen von den Teilnehmern identifiziert und durch Punktevergabe bewertet werden sollen. In den daran anschließenden fünf Modulen werden zentrale Fragen zu einzelnen Technologie- und Anwendungsfeldern zunächst durch einen ca. 5-minütigen Impulsvortrag eines eingeladenen Teilnehmers eingeleitet und dann im Plenum diskutiert.

Ansprechpartner:
Dr. Oliver Krauss
(krauss@vdi.de)
Dr. Ralf Fellenberg
(fellenberg@vdi.de)
Dr.-Ing. Gunther Hasse
(hasse@vdi.de)

Wednesday, 25 August

SE3: Innovation, Technologietransfer und Gesellschaft
09:00 Uhr - 17:00 Uhr, Welcome Hotel

Dieses Symposium soll Barrieren und Chancen des Technologietransfers aus der Wissenschaft in die Industrie diskutieren und neue Erkenntnisse aus der gegenwärtigen Innovationsmanagement- und Gründungsforschung aufzeigen, die die Effizienz und Effektivität des Transfers verbessern können – aus Sicht von Forschung und Industrie! Denn unter dem Begriff "Open Innovation" wird in jüngster Zeit eine intensive Diskussion über die Einbeziehung externer Akteure in den unternehmerischen Innovationsprozess geführt. Die Integration fremden Wissens (z.B. von Kunden, Zulieferern, Universitäten, etc.) ist ein wettbewerbsentscheidender Faktor zu erfolgreicheren Produkten angesehen. Zugleich weisen neue Formen der Abstimmung mit Beitragenden jenseits der Grenzen des Unternehmens neue und höchst effektive Wege der unternehmerischen Wertschöpfung.
Mit besonderem Fokus auf Kleine- und Mittelständige Unternehmen, mit traditionell geringen F&E Budgets werden auf diesem Symposium, Erfahrungsberichte und Erkenntnisse aus aktuellen Forschungsprojekten im Anwendungsfeld der Materialwissenschaften vorgestellt. Darüber hinaus sollen Vorträge zur Gründungsforschung, der Finanzierung von Ausgründungen sowie aus der Open-Innovation-Praxis Einblicke in die Potentiale des Technologie- bzw. des Erkenntnistransfers in den Materialwissenschaften gewähren.

Prof. Dr. D. Hilgers, Universität Hamburg
(dennis.hilgers@wiso.uni-hamburg.de)
Prof. Dr. F. Piller, RWTH Aachen
(piller@tim.rwth-aachen.de)
Prof. Dr. M. Weissenberger-Eibl
(marion@weissenberger-eibl.de)
Dipl.-Kfm. K. Joachim, Universität Kassel und FhG-ISI-Karlsruhe
(klemens.joachim@wirtschaft.uni-kassel.de)

Wednesday, 25 August

SE6: Unsichtbar, aber unverzichtbar: Wie steigern wir die Wahrnehmung von Materialwissenschaft und Werkstofftechnik in der Öffentlichkeit?
14:45-18:20h, Welcome Hotel

Sie sind die Grundlage etlicher bahnbrechender Erfindungen, sie besitzen ein kaum zu überschätzendes wirtschaftliches Potenzial – und doch stehen sie im Schatten der öffentlichen Wahrnehmung: Werkstoffe gelten in der Außenwahrnehmung als spröde. Nun klagen auch andere Disziplinen darüber, dass ihre Bedeutung in der Öffentlichkeit nicht ausreichend gewürdigt wird.
Die geringe Wahrnehmung der Werkstoffe gefährdet inzwischen die führende Position Deutschlands auf diesem Gebiet: der Nachwuchs bleibt aus. Daher hat acatech, die Deutsche Akademie der Technikwissenschaften, einen Ausbau der Information und Kommunikation für Werkstoffe auf allen Ebenen von Wissenschaft und Wirtschaft gefordert. Wie soll dies konkret bewerkstelligt werden? Was kann hier jeder einzelne tun?

Ansprechpartner
Prof. Dr.-Ing. Christina Berger, Technische Universität Darmstadt / acatech
(berger@mpa-ifw.tu-darmstadt.de)
Dr. Marc-Denis Weitze, acatech Geschäftsstelle
(weitze@acatech.de)
Dr.-Ing. Pedro Dolabella Portella, BAM / BV MatWerk
(pedro.portella@bam.de)

Technische Universität Darmstadt
Karo5, Lecture Room A1

Tue 9:55

New lead-free ferroelectrics: Piezoceramics, electrostrictors, high-temperature dielectrics

J. Rödel, Technische Universität Darmstadt (Germany)
Chair: W. Kaysser, GKSS Research Centre, Geesthacht

Lead-containing ceramics are ubiquitous in all areas of piezoelectric applications due to their superior properties. One of the major concerns in the development of new piezoelectrics therefore is the elimination of toxic lead. Since Bi3+, the only non-toxic heavy metal, has the same electronic structure as Pb2+, it is no surprise that Bi-based solid solutions with perovskite structure have been intensively investigated. The aim is to find a morphotropic phase boundary similar to that found in the lead zirconate titanate phase diagram.
In this presentation, we will review the current status of materials development and discuss opportunities still available in the search for new compositions. In particular, ferroelectric and piezoelectric properties of systems based on Bi1/2Na1/2TiO3 (BNT) will be presented. Particular focus is put on the influence of crystal structure changes as function of temperature and electric field. Select examples of temperature-dependent ferroelasticity and blocking force will also be given. Some materials are shown to display an electrostrictive strain higher than that of any lead-based electrostrictor. Finally, some of the compositions are very attractive as high-temperature dielectrics due to their consistently high permittivity up to more than 300°C, very little temperature dependence in permittivity and low dielectric losses.

Born in 1958, Jürgen Rödel studied Materials Sciences in Erlangen and Ceramics in Leeds before getting his PhD from UC California at Berkeley in 1988. In 1992, he obtained his habilitation from TU Hamburg-Harburg and is a professor in the Department of Materials- and Geosciences of TU Darmstadt since 1994, specializing on the mechanical and electrical properties of functional ceramics. In 1998 and 2004 he was a Visiting Professor at the University of Washington/Seattle (USA) and Leeds (UK), respectively. Since 2003, he is the speaker of the Collaborative Research Center 595 'Electrical Fatigue in Functional Materials'. In 2009, he received the Leibniz-Award of the German Science Foundation, the highest scientific award in Germany.

Tue 13:45

Micromechanics and Microstructures: X-rays, Neutrons and Computation

H. Van Swygenhoven-Moens, Paul Scherrer Institut, Villigen (Switzerland)
Chair: C. Leyens, Technische Universität Dresden

The microstructure of today's metals is steadily increasing its complexity because of the increasing demands on performance. Classical characterization and mechanical testing techniques can not provide all necessary input parameters for adapting predictive engineering models to such complex microstructures. Advances in X-ray/neutron technologies have resulted in increased beam intensities, improved detector efficiencies and sub-micron focusing techniques. In-situ mechanical testing during X-ray and neutron diffraction is now an excellent research method to provide synergies with computational modeling, addressing issues such as elastic and plastic anisotropy, load-sharing and phase transforming mechanisms, degradation phenomena and enhanced strengthening mechanism observed in spatially confined volumes.

Prof. Dr. Helena Van Swygenhoven-Moens heads the Materials Science and Simulation group (MSS) at the Paul Scherrer Institute and is an adjunct Professor in the Institute of Materials (IMX) of the Ecole Polytechnique Fédérale de Lausanne (EPFL).
MSS aims to develop synergies between computational material science and state-of-the-art in-situ mechanical testing during X-ray and neutron diffraction allowing the study of the evolution of microstructures of structural materials during deformation. More information on MSS can be found on http://mss.web.psi.ch/

Technische Universität Darmstadt
Karo5, Lecture Room A1

Wed 13:45

Metal-Polymer Nanocomposites for Functional Applications

F. Faupel, Christian-Albrechts-Universität zu Kiel (Germany)
Chair: E. Quandt, Christian-Albrechts-University of Kiel

Nanocomposites combine favorable features of the constituents on the nanoscale to obtain new functionalities. The present talk is concerned with the preparation of polymer-based nanocomposites consisting of metal nanoparticles in a polymer matrix and the resulting functional properties. Emphasis is placed on vapor phase deposition which inter alia allows the incorporation of alloy clusters with well defined composition and tailored filling factor profiles. Examples presented include optical composites with tuned particle surface plasmon resonances for plasmonic applications, magnetic high frequency materials with cut-off frequencies well above 1 GHz, sensors that are based on the dramatic change in the electronic properties near the percolation threshold, and antibacterial coatings which benefit from the large effective surface of nanoparticles and the increased chemical potential which both strongly enhance ion release.

Franz Faupel was born in Fritzlar, Germany, in 1957. He received his diploma and Ph.D. in physics from the University of Göttingen in 1982 and 1985, respectively, working on diffusion and defects in metals and alloys. Subsequently he investigated related subjects until in 1987 he joined the IBM Th. J. Watson Research Center in Yorktown Heights, New York, as a postdoctoral fellow studying mechanical properties of metal-polymer structures, as well as diffusion and solid-state reactions in thin films. In 1988 he returned to the University of Göttingen, where his research focused on diffusion in amorphous media, formation of metal-polymer interfaces, and thermodynamics, particularly of high-temperature superconductors.
Since 1994 Faupel is full professor and holds the Chair for Multicomponent Materials within the Faculty of Materials Science and Engineering at the University of Kiel, where he is also faculty member in the Physics Department.
Since 2005 Faupel is coordinator of the North German Initiative on Nanomaterials (NINa).
Faupel is Principal Editor of the Journal of Materials Research and was previously Associate Editor in Europe of the journal. He served on the editorial boards of Applied Physics Letters, the Journal of Applied Physics, and Journal of Adhesion Science and Technology and is member of the editorial advisory board of Defect and Diffusion Forum. His activities also include work on other national and international advisory and evaluation boards. From 2008 to 2010 he was Dean of the Faculty of Materials Science and Engineering.

Thu 08:30

Small and Strong: Materials at their Mechanical Limit

G. Dehm, Montanuniversität Leoben (Austria)
Chair: R. Riedel, Technische Universität Darmstadt

The continuous trend in miniaturization of materials for reliable applications in sensors, actuators as well as microelectronic and medical devices requires a fundamental understanding of the mechanical properties in the micro- and nanometer regime. Novel approaches were developed in the last years to probe the mechanical properties at such small dimensions and to unravel the underling deformation mechanisms with the ultimate aim of developing quantitative material laws for miniaturized materials.
In this overview new insights in the deformation mechanisms of (sub)micron-sized fcc metals obtained by using tension and compression tests in combination with electron microscopy observations, µLaue diffraction studies, and discrete dislocation dynamics simulations are reported. Furthermore, recent results on the damage evolution and fracture behaviour of thin film structures are presented. Benefits and challenges encountered in small scale mechanical testing will be discussed.

Prof. Dr. Gerhard Dehm is Head of the Department Materials Physics of the Montanuniversität Leoben (Austria) and Director of the Erich Schmid Institute of Materials Science of the Austrian Academy of Sciences. He studied Materials Science (Erlangen) and received his PhD degree in 1995 (Stuttgart). He was a visiting scientist at the Technion in Haifa with an Alexander von Humboldt / F eodor Lynen scholarship and subsequently a senior scientist at the MPI for Metals Research, Stuttgart. His field of research includes mechanical size-effects in thin films and nanostructured materials, interface related phenomena in materials and in-situ electron microscopy. He has received several awards, including the Masing Memorial Award from the DGM and the Award for Nanosciences of Styria. His publication list contains more than 180 scientific publications, including contributions to books and more than 65 invited lectures.

Technische Universität Darmstadt
Karo5, Lecture Room A1

Thu
15:40

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

M. Wuttig, RWTH Aachen (Germany)

Chair: M. Heilmaier, Technische Universität Darmstadt

Phase change media are among the most promising materials in information technology. They are already employed in rewriteable optical data storage, where the pronounced difference of optical properties between the amorphous and crystalline state is used. This unconventional class of materials is also the basis of a storage concept to replace flash memory. This talk will discuss the unique material properties which characterize phase change materials. In particular, it will be shown that the crystalline state of phase change materials is characterized by the occurrence of resonant bonding, a particular flavour of covalent bonding. This insight is employed to predict systematic property trends and to develop non-volatile memories with DRAM-like switching speeds potentially paving the road towards a universal memory. Phase change materials do not only provide exciting opportunities for applications including 'greener' storage devices, but also form a unique quantum state of matter as will be demonstrated by transport measurements.

Since 1997 Full Professor of Physics at the University of Technology, Aachen, Germany
- *Head of Research Group: Physics of novel Materials,*
- *Research mission: prepare and characterize novel materials with unique optical and electronic properties.*
- *Conduct research in the fields of: a) chalcogenide based semiconductors, b) organic materials for opto-electronic applications, c) optical functional coatings.*
- *Speaker of the Strategy Board of RWTH Aachen (since 2009)*
- *Dean of the Faculty of Science, Mathematics and Computer Sciences (2006-2008)*
- *Visiting professor at CRMC2 - CNRS Marseille (4/1995), AT&T Bell Laboratories, Murray Hill (1995-1997), Hangzhou University (8/1998), Kenyatta University (1999), IBM Research Center Almaden (Spring 2006), Data Storage Institute Singapore (10/2007), Shanghai Institute of Microsystems and Information, Chinese Academy of Sciences (8/2009), Stanford University (Spring 2010), Lawrence Berkeley National Laboratory (Summer 2010)*
- *Several national and international awards*

Topic A
Functional Materials

A2 - Intelligent Materials

H. Fritze, Technical University of Clausthal, Goslar (D)

A. Hütten, University of Bielefeld (D)

A3 - Mesoporous

M. Biener, Lawrence Livermore National Laboratory (USA)

J. Biener, Lawrence Livermore National Laboratory (USA)

J. Schneider, Technische Universität Darmstadt (D)

H. Peterlik, University of Vienna (A)

A. Hamza, Lawrence Livermore National Laboratory (USA)

A4 - Polymer Nanocomposites

H. Münstedt, University of Erlangen-Nürnberg (D)

F. Faupel, Christian-Albrechts University at Kiel (D)

Topic B
Structural Materials

B1 - Intermetallic Aluminides: Physical Metallurgy and Processing

F. Appel, GKSS Research Centre, Geesthacht (D)

M. Oehring, GKSS Research Centre, Geesthacht (D)

Jonathan D.H. Paul, GKSS Research Centre, Geesthacht (D)

B2 - Modern Steels

H. Biermannn, TU Bergakademie Freiberg (D)

P.R. Scheller, TU Bergakademie Freiberg (D)

B3 - Refractory Materials

C. Aneziris, TU Bergakademie Freiberg (D)

P. Quirmbach, Deutsches Institut für Feuerfest und Keramik, Bonn (D)

Topic B
Structural Materials

B4 - Functional Amorphous Materials and Glasses

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

B5 - New Methods in Materials Design

W. Bleck, RWTH Aachen University (D)

H. Hoffmann, University of Technology, Berlin (D)

B6 - Mechanical Properties and Microstructure

H. Christ, University of Siegen (D)

M. Heilmaier, Technische Universität Darmstadt (D)

Topic C
Processing

C1 - Nanomaterials and Composites

K. Haas, Fraunhofer Institute for Silicate Research, Würzburg (D)

R. Gadow, University of Stuttgart (D)

F. Kern, University of Sttgart (D)

C2 - Coatings

J. Vetter, Sulzer Metaplas, Bergisch Gladbach (D)

R. Pitonak, Boehlerit GmbH & Co.KG, Kapfenberg (A)

C3 - Joining

C. Sommitsch, Graz University of Technology (A)

U. Reisgen, RWTH Aachen University, Juelich (D)

C4 - Additive Manufacturing and Field Assisted Sintering Techniques

J. Stampfl, Vienna University of Technology (A)

B. Baufeld, Catholic University of Leuven (B)

Joanna R. Groza, Dept. of Chemical Engineering and Materials Science, Univ. of California (USA)

Maria Farsari, Foundation for Research and Technology-Hellas (FO.R.T.H.), Heraklion, Crete (GR)

P. Greil, University of Erlangen-Nürnberg, Germany (D)

Topic D
Characterisation

D1 - Microstructure Characterisation

V. Abetz, GKSS Research Centre, Geesthacht (D)

D. Rafaja, TU Bergakademie Freiberg (D)

D2 - New Techniques

W. Hoffelner, Paul Scherrer Institut, Villigen (CH)

J. Ren, Liverpool John Moores University (GB)

A. Froideval, Paul Scherrer Institut, Villigen (CH)

J. Neuhaus, TU München (D)

W. Neumann, Humboldt-University Berlin (D)

C. Hébert, EPFL, Lausanne (CH)

U. Kaiser, University of Ulm (D)

A. Bleloch, University of Daresbury, Liverpool (GB)

D3 - Characterisation of Material Properties

J. Olbricht, Federal Institute for Materials Research and Testing, Berlin (D)

H.J. Maier, University of Paderborn (D)

A. Weidner, TU Bergakademie Freiberg (D)

D. Holland-Moritz, German Aerospace Center, Köln (D)

Topic E
Modelling

E2 - Materials Processing

F. Hoffmann, Stiftung Institut für Werkstofftechnik, Bremen (D)

H.J. Seifert, TU Bergakademie Freiberg (D)

E3 - Nucleation, Microstructure Evolution and Phase Transitions

H. Emmerich, RWTH Aachen University (D)

I. Steinbach, Ruhr-University Bochum (D)

E. Gamsjäger, University of Leoben (A)

M.C. Record,University Aix-Marseille III (F)

E.J. Mittemeijer, Max - Planck- Institute for Metals Research, Stuttgart (D)

Topic F
Biomat

F1 - Bio-Inspiration

T. Scheibel, University of Bayreuth (D)

I. Burgert, Max-Planck Institute of Colloids and Interfaces, Potsdam (D)

S.-H. Yu, University of Science and Technology of China

C. Zollfrank, University of Erlangen-Nürnberg (D)

- BIOKON - 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 (D)

N.J. Shirtcliffe, Nottingham Trent University (UK)

T.F. Keller, Friedrich Schiller University of Jena (D)

F5 - Biomaterial Applications

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

	Symposium: D3 Room: A1	Symposium: C2 Room: A2	Symposium: E3 Room: A3	Symposium: F5 Room: A4
	Characterisation of Material Properties	**Coatings**	**Nucleation, Microstructure Evolution and Phase Transitions**	**Biomaterial Applications**
	Advanced Microstructural Characterisation and Damage Detection	Coatings I	Nuclation/Crystallisation	Biopolymers and Composites
	B. Skrotzki, Bundesanstalt für Materialforschung und -prüfung, Berlin (Germany)	J. Vetter, Sulzer Metaplas, Bergisch Gladbach (Germany)	H. Emmerich, Universität Bayreuth (Germany)	A.R. Boccaccini, Friedrich-Alexander-Universität Erlangen-Nürnberg (Germany)
10:40	**Keynote Lecture** **Materials testing – How to put the right questions and get the right answers** P.D. Portella (Sp), B. Skrotzki, Federal Institute for Materials Research and Testing, Berlin (Germany)	**Keynote Lecture** **Development of PVD Ternary AlTiN, AlCrN and Related Coatings** P.H. Mayrhofer, University of Leoben (Austria)	**Keynote Lecture** **What Can We Learn about Nucleation from Colloidal Systems ?** F. Spaepen, Harvard University, Cambridge, MA (USA)	**Evaluation of Polymeric Mixtures PLDLA/PCL and PU/PCL for Nerve Guide Implants** P. Bednarz (Sp), M. Krzysztofinska, J. Laska, University of Science and Technology (AGH), Krakau (Poland)
11:00				**Adhesion and Proliferation of BALB/3T3 Fibroblasts on Non-Wovens made of Recombinant Spider Silk Proteins** A. Leal-Egana (Sp), G. Lang, K. Schacht, T. Scheibel, University of Bayreuth (Germany)
11:20	**Nonlinear Ultrasonic Measurements for Damage Characterization of Composite Laminates** U. Rabe (Sp), S. Hirsekorn, Fraunhofer Institute for Non-Destructive Testing, Saarbrücken (Germany)	**Phase Evolution of Magnetron Sputtered TiCx /Al (0.4 x 1.2) Bilayer Thin Films upon Annealing** A. Abdulkadhim (Sp), T. Takahashi, D. Music, J.M. Schneider, RWTH Aachen University (Germany)	**Highlight Lecture** **Nucleation: Analysis as an Athermal Process** A.L. Greer, University of Cambridge (UK)	**Development of Engineered Patches for Myocardial Tissue Engineering** A.R. Boccaccini (Sp), University of Erlangen-Nürnberg (Germany); R. Rai, University of Westminster, London (UK); E. Rosellini, University of Pisa (Italy); C. Cristallini, CNR, Pisa (Italy); N. Barbani, University of Pisa (Italy) et
11:40	**Recent Developments in the Study of Environmental Degradation: Hydrogen Effect on Dislocation Nucleation** A. Barnoush (Sp), H. Vehoff, Saarland University, Saarbrücken (Germany)	**Role of the Internal Interfaces in the Enhancement of Hardness and Thermal Stability of Nanocrystalline (Ti,Al)N Coatings** D. Rafaja (Sp), C. Wuestefeld, Technical University of Freiberg (Germany); C. Baehtz, Forschungszentrum Dresden-Rossendorf; (Germany); V. Klemm, M. Dopita, Technical University of Freiberg (Germany) et	**On the Impact of Heterogeneous Nucleation on the Peritectic Growth Mode in Ti-Al-B** M. Apel (Sp), J. Eiken, U. Hecht, ACCESS e.V., Aachen (Germany)	**Surface-Modified 3D Cell-Substrates from Polycaprolactone Produced by Rapid Prototyping** T. Desmet (Sp), H. Declercq, E. Berneel, R. Cornelissen, P. Dubruel, Ghent University, Gent (Belgium)
12:00	**Oral Poster - Subsession** Poster 1: D3-694 Poster 2: D3-265 Poster 3: D3-336 Poster 4: D3-163 Poster 5: D3-749	**Oral Poster - Subsession** Poster 1: C2-103 Poster 2: C2-297 Poster 3: C2-498 Poster 4: C2-506 Poster 5: C2-520	**Competition Between Homogeneous and Wall Induced Heterogeneous Nucleation in Charged Colloidal Model Systems** A. Engelbrecht, R. Meneses, H.J. Schöpe (Sp), Johannes Gutenberg University Mainz (Germany)	

Symposium: A2 Room: A5	Symposium: B6 Room: A03	Symposium: C1 Room: A04	
Intelligent Materials	**Mechanical Properties and Microstructure**	**Nanomaterials and Composites**	
Intelligent Materials	Cast Iron and Steel (Martensitic, TRIP, TWIP)	Nano1	
H. Fritze, Technische Universität Clausthal, Goslar (Germany)	H.-J. Christ, Universität Siegen (Germany)	F. Kern, Universität Stuttgart (Germany)	
Study of Pt Based Metallisation Layers for High Temperature SAW Sensors G. Bruckner (Sp), J. Bardong, R. Fachberger, Carinthian Tech Research AG, Villach (Austria); B. Wall, Vectron International, Teltow (Germany)	**Representing Local Accumulations of Minor Defects in Ductile Cast Iron by an Appropriate Material Model** M. Suty (Sp), H.-C. Schneider, O. Kraft, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen (Germany)	**Nano-Structure and Properties of Cellulose** M. Ioelovich, O. Figovsky (Sp), Polymate Research Centre, Migdal Ha Emek (Israel)	**10:40**
Solid State Devices for Oxygen Sensing and Control M. Schulz (Sp), Technical University of Clausthal, Goslar (Germany); C. Stenzel, Astrium Space Transportation, Friedrichshafen (Germany); H. Fritze, Technical University of Clausthal, Goslar (Germanv)	**Determination of Stress-Strain Curves in a Cast TRIP-Steel under Biaxial Planar Loading** K. Nagel, D. Kulawinski (Sp), S. Henkel, H. Biermann, Technical University of Freiberg (Germany); P. Hübner, University of Applied Sciences, Mittweida (Germany)	**Homo and Heterometallic Iron Alkoxides as Novel Precursors for Material Applications** T. Fischer (Sp), G. Fornalczyk, S. Mathur, University of Cologne, Köln (Germany)	**11:00**
Tunnel Spectroscopy of Magnetic Tunnel Junctions with Heusler Electrodes A. Thomas (Sp), D. Ebke, P. Thomas, V. Drewello, O. Schebaum, University of Bielefeld (Germany)	**Relation between Damage Nucleation and Microstructure in TRIP Steels** K. DAVUT (Sp), S. Zaefferer, Max-Planck-Institut for Iron Research, Düsseldorf (Germany)	**Metal Salt Induced Synthesis of Hybrid Metal Core-Siloxane Shell Nanoparticles and Siloxane Nanowires** A. Goyal (Sp), A. Kumar, P.M. Ajayan, Rice University, Houston (USA)	**11:20**
Heusler Compounds for Spintronics Applications - From Half-Metallic Ferromagnets to Topological Insulators S. Chadov (Sp), C. Felser, Johannes Gutenberg-Universität, Mainz (Germany)	**Microstructure Evolution in TWIP Steels during Deformation with Strain Path Changes** N.-N. Elhami (Sp), S. Zaefferer, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany); I. Thomas, H. Hoffmann, Thyssenkrupp Steel Europe AG, Dortmund (Germany)	**Maskless Printed MIM Capacitors with Nanosized Silver Inks and Barium Titanate Filled Inorganic-Organic Hybrid Polymers (ORMOCER(R)s)** J. Bahr (Sp), G. Domann, R. Houbertz, Frauhofer Institut für Silicatchemie, Würzburg (Germany); V. Zöllmer, C. Werner, Fraunhofer IFAM, Bremen (Germany)	**11:40**
Oral Poster - Subsession Poster 1: A2-466 Poster 2: A2-763 Poster 3: A2-298 Poster 4: A2-319 Poster 5: A2-711		**Oral Poster - Subsession** Poster 1: C1-672 Poster 2: C1-675	**12:00**

	Symposium: D3 Room: A1	Symposium: C2 Room: A2	Symposium: E3 Room: A3	Symposium: F5 Room: A4
	Characterisation of Material Properties	**Coatings**	**Nucleation, Microstructure Evolution and Phase Transitions**	**Biomaterial Applications**
	Closing Event DFG Research Unit "Ultra Fine Grained Materials" (I)	Coatings II	Steel Application	Scaffolds / Tissue Engineering
	H.J. Maier, Universität Paderborn (Germany)	J. Vetter, Sulzer Metaplas, Bergisch Gladbach (Germany)	E. Gamsjäger, Montanuniversität Leoben (Austria)	A.R. Boccaccini, Friedrich-Alexander-Universität Erlangen-Nürnberg (Germany)
14:30	**Thermal Stability of an Ultra-Fine Grained AlMnFe-Alloy Produced by Equal Channel Angular Pressing** R. Berghammer (Sp), A. Rott, W. Hu, RWTH Aachen University (Germany); A. Hasani, Universite Paul Verlaine, Metz Ile du Saulcy (France); G. Gottstein, RWTH Aachen University (Germany)	**Unique Pattern Formation in CVD Hard Coatings** R. Pitonak (Sp), Boehlerit GmbH & co.KG, Kapfenberg (Austria); J. Garcia, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH (Germany)	**Deformation of the Strand Shell during Peritectic Transformation** M. Zeng, I. Steinbach (Sp), Ruhr-University Bochum (Germany)	**Gas Phase Sintering of Hydroxyapatite / Beta-Tricalcium Phosphate Scaffolds for Bone Replacement Applications** M. Schlosser (Sp), H.J. Kleebe, Technische Universität Darmstadt (Germany)
14:50	**Investigation of the Annealing Behavior of Severely Deformed Ultra Fine Grained Cu-Zr Using Advanced Microstructure Characterization Techniques** A. Khorashadizadeh (Sp), M. Winning, S. Zaefferer, D. Raabe, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany)	**Bio-Active Plasma Nanocomposite Coatings Through Controlled Silver Release** D. Hegemann (Sp), E. Körner, Empa, St.Gallen (Switzerland)	**Physically-Based through-Process Model for the Prediction of Microstructure Evolution during Processing of Dual Phase Steels** J. Rudnizki (Sp), U. Prahl, W. Bleck, RWTH Aachen University (Germany)	**Fabrication of Crack-Free Ceramic Micropatterns by a Modified Moulding Technique** M. große Holthaus (Sp), L. Treccani, K. Rezwan, University of Bremen (Germany)
15:10	**The Effect of Ultra-Fine Grain Sizes on Microstructure and Functional Properties in Ni-rich NiTi Shape Memory Alloys** J.A. Burow, E. Payton (Sp), Ruhr University of Bochum (Germany); E.A. Prokofiev, Ufa Sate Aviation Technical University (Russian Federation); R. Zametta, J. Frenzel, Ruhr University of Bochum (Germany) et al.	**Preparation, Chemical Characterisation and Mechanical Investigation of Sol-Gel Derived ZrO2-SiO2 Coatings** I. Uhlmann (Sp), J. Pradella, Merck KGaA, Darmstadt (Germany); J. Rödel, Technische Universität Darmstadt (Germany)	**A model on the Formation of Butterfly-Type Martensite in Fe-30 % Ni Alloy Using the 3D-Phase-Fields Model** J. Kundin (Sp), H. Emmerich, RWTH Aachen University (Germany)	**Hydrothermal Conversion of Biogenic Carbonates for Bone Replacement Applications** S. Schultheiß (Sp), I. Sethmann, H.-J. Kleebe, Technische Universität Darmstadt (Germany)
15:30	**Fatigue Behavior of Ultra-Fine Grained Alloys under Cyclic Loading: Microstructural Aspects of Crack Initiation and Crack Propagation** T. Niendorf (Sp), H.J. Maier, University of Paderborn (Germany)	**Oral Poster - Subsession** Poster 1: C2-74 Poster 2: C2-118 Poster 3: C2-533 Poster 4: C2-568	**Influence of Lattice Defects on Nucleation and Growth of Different Modifications of Nanoprecipitates of AlN in Nitrided Fe-Al Alloy** S. Meka (Sp), E. Bischoff, Max Planck Institute for Metals Research, Stuttgart (Germany); R.E. Schacherl, University of Stuttgart (Germany) et al.	**Tissue Engineered Macroporous Gelatin-Based Cryogels with Anisotropic Porosity for Wound Healing Applications** R. Shevchenko (Sp), University of Brighton (UK); M. Eeman, StratiCELL, Gembloux (Belgium); I.N. Savina, I.U. Allan, S.L. James, University of Brighton (UK); M. Salmon, StratiCELL, Gernbloux (Belgium) et al.
15:50	**Influence of Backpressure during Equal Channel Angular Pressing on the Fatigue Behaviour of AA5754 and Cu 99.5** A. Böhner (Sp), University of Erlangen-Nürnberg (Germany); R. Lapovok, Monash University, Clayton (USA); H.W. Höppel, M. Göken, University of Erlangen-Nürnberg (Germany)		**Multi Phase Cellular Automaton Simulation of the Heat Treatment of Dual Phase Steel** F. Roters (Sp), Y. Li, N. Peranio, U. Witt, D. Raabe, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf (Germany)	

Symposium: A3 Room: A5	Symposium: B6 Room: A03	Symposium: C1 Room: A04	
Mesoporous	**Mechanical Properties and Microstructure**	**Nanomaterials and Composites**	
Mesoporous	Steels (Austenitic, Duplex, ODS)	Nano 2	
H. Peterlik, Universität Wien (Austria)	H.-J. Christ, Universität Siegen (Germany)	K.-H. Haas, Fraunhofer Institut für Silicatforschung, Würzburg (Germany)	
Highlight Lecture	**Highlight Lecture**	**Highlight Lecture**	**14:30**
Behavior of Nanoporous Carbon Aerogels in Liquid Hydrogen A. van Buuren (Sp), T. Willey, S. Kucheyev, J.R.I. Lee, T. Baumann, J. Biener, A. Hamza, Lawrence Livermore National LAboratory (USA); J. Ilavsky, A. Deriy, Argonne National Laboratory (USA)	**In-Situ XRD Investigations on the Deformation Behavior of a Nanostructured ODS Steel** P. Schloth (Sp), Paul-Scherer Institute, Villigen (Switzerland); P. Susila, Indian Institute of Technology, Chennai (India); S. Van Petegen, Paul Scherrer Institute, Villigen (Switzerland) et al.	**Novel Zirconia-Alumina Nanocomposites Combining High Strength and Toughness** F. Kern (Sp), R. Gadow, University of Stuttgart (Germany)	
Orientation of Mesoporous Structures S. Pabisch (Sp), M. Weinberger, University of Vienna, Wien (Austria); N. Hüsing, University of Salzburg (Germany); H. Peterlik, University of Vienna, Wien (Austria)	**Microstructure and Mechanical Properties of New lean Duplex Stainless Steels** C. Herrera (Sp), D. Ponge, D. Raabe, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany)	**Effect of Microstructure Defects on the High Pressure/High Temperature Synthesis of Boron Nitride Nanocomposites** C. Schimpf (Sp), M. Schwarz, T. Barsukova, V. Klemm, E. Kroke, D. Rafaja, Technical University of Freiberg (Germany)	**14:50**
Controlled Synthesis of 3-D Nanowire Networks by Ion Track-Template Electrodeposition M. Rauber (Sp), R. Neumann, M.E. Toimil-Molares, GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt (Germany); W. Ensinger, Technische Universität Darmstadt (Germany)	**High Temperature Fatigue Testing and 475°C Embrittlement of Duplex Stainless Steel** K. Wackermann (Sp), H.-J. Christ, University of Siegen (Germany)	**High Velocity Suspension Flame Spraying (HVSFS) of Ceramic Nano Powders** F. Kern (Sp), A. Killinger, A. Manzat, A. Gadow, University of Stuttgart (Germany)	**15:10**
Electrically Tunable Nanoporous Carbon Aerogel Actuators L. Shao (Sp), Karlsruher Institute of Technology, Eggenstein-Leopoldshafen (Germany); J. Biener, Lawrence Livemore Nationla Laboratory, California (USA) et al.	**Investigation on Strain Hardening Behaviour of Metastable Austenitic Stainless Steels** T. Labudde (Sp), M. Wildau, W. Bleck, RWTH Aachen University (Germany)	**Oral Poster - Subsession** Poster 1: C1-482 Poster 2: C1-556 Poster 3: C1-586 Poster 4: C1-596 Poster 5: C1-597	**15:30**
Oral Poster - Subsession Poster 1: A3-246 Poster 2: A3-154 Poster 3: A3-655	**Temperature and Strain-Time Phasing Effects on the Thermomechanical Fatigue Behaviour of 316L(N) Austenitic Stainless Steel** A. Nagesha (Sp), R. Kannan, P. Parameswaran, R. Sandhya, Indira Gandhi Centre for Atomic Research, Kalpakkam (India); K. Bhanu Sankara Rao, University of Hyderabad (India) et al.		**15:50**

	Symposium: D3 Room: A1	Symposium: C2 Room: A2	Symposium: E3 Room: A3	Symposium: F5 Room: A4
	Characterisation of Material Properties	**Coatings**	**Nucleation, Microstructure Evolution and Phase Transitions**	**Biomaterial Applications**
	Closing Event DFG Research Unit "Ultra Fine Grained Materials" (II)	Coatings III	Thermodynamic Concepts	Bioceramics, Metals and Nanomaterials for Biomedical Applications
	M. Göken, Friedrich-Alexander-Universität Erlangen-Nürnberg (Germany)	R. Pitonak, Boehlerit GmbH & Co.KG, Kapfenberg (Austria)	I. Steinbach, Ruhr-Universität Bochum (Germany)	A.R. Boccaccini, Friedrich-Alexander-Universität Erlangen-Nürnberg (Germany)
16:40	**Accelerated Grain Refinement during Accumulative Roll Bonding by Nanoparticle Reinforcement** C.W. Schmidt (Sp), V. Maier, C. Knieke, H.W. Höppel, W. Peukert, M. Göken, University of Erlangen-Nürnberg (Germany)	**INVITED: Plasma Spray – PVD: A New Technology between Thermal Spraying and PVD** K. von Niessen, Sulzer Metco AG, Wohlen (Switzerland)	**First-Principles Study of the Ti-Fe Eutectic System** L.-F. Zhu (Sp), M. Friak, A. Dick, T. Hickel, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany); J. Huber, H. Emmerich, RWTH Aachen University (Germany) et al.	**Development and Characterisation of Functionalised Ceramic Microtubes for Bacteria Filtration** S. Kroll (Sp), L. Treccani, G. Grathwohl, K. Rezwan, University of Bremen (Germany)
17:00	**Equal-Channel Angular Pressing of Medium- to High-Strength Precipitation Hardening Aluminium Wrought Alloys** M. Hockauf (Sp), P. Frint, S. Wagner, S. Fritsch, K. Hockauf, D. Nickel, M. Wagner, Chemnitz University of Technology (Germany)	**Novel Nanostructured, Easy-to-Clean and Wear Resistant SiOx/[Si(NCN)2]n-Based Sol-Gel Coatings** E. Ionescu (Sp), Technische Universität Darmstadt (Germany); W. Kolbe, Heidelberger Druckmaschinen AG (Germany); J. Harenburg, M. Zschuppe, FEW Chemicals, Wolfen (Germany); R. Riedel, Technische Universität Darmstadt (Germany)	**Microstructure Evolution: Thermodynamic Concepts** J. Svoboda (Sp), Academy of Science of the Czech Republic, Brno (Czech Republic); M. Gamsjäger, F.D. Fischer, Montanuniversität Leoben (Austria)	**Dielectric Spectroscopy and Microstructure of Sintered Calcium Titanate (CaTiO3) Samples With Different Porosities** G. Rott (Sp), F. Zhang, J. Schlichting, J. Haba, W. Kröger, E. Burkel, Rostock University (Germany)
17:20	**Thermally Activated Dislocation Movement and Creep in Ultra-Fine-Grained and Nanocrystalline Nickel** K. Schüler (Sp), B. Philippi, W. Weinmann, H. Vehoff, Saarland University, Saarbrücken (Germany)	**Novel TiAlN and TiAlCN Coatings by LPCVD** I. Endler (Sp), M. Höhn, Fraunhofer Institute for Ceramic Technologies and Systems, Dresden (Germany)	**Ab Initio Determination of Thermodynamic Properties up to the Melting Point** B. Grabowski (Sp), L. Ismer, T. Hickel, J. Neugebauer, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf (Germany)	**Highlight Lecture** **Characterization of Biomaterials Using Synchrotron Radiation Based Microtomography** F. Beckmann (Sp), GKSS Research Centre, Geesthacht (Germany); F. Witte, Medizinische Hochschule Hannover (MHH) (Germany); B. Müller, University of Basel (Switzerland) et al.
17:40	**Microstructure, Mechanical Behavior and Deformation Mechanisms of Nanocrystalline Ni-Fe** J. Zimmermann (Sp), S. Van Petegem, Paul Scherrer Institute, Villigen (Switzerland); S. Brandstetter, M. Legros, CEMES-CNRS, Toulouse (France); X. Sauvage, University of Rouen, Saint-Etienne du Rouvray (France) et	**In Situ Monitoring of UV Curing of Acrylate Coatings** S. Agarwal (Sp), H. Oehler, D. Lellinger, I. Alig, Deutsches Kunststof-Institut, Darmstadt (Germany)	**Modeling the Kinetics of Diffusive Phase Transformations** E. Gamsjäger (Sp), University of Leoben (Austria); J. Svoboda, Academy of Sciences of the Czech Republic, Brmo (Czech Republic); F.D. Fischer, University of Leoben (Austria)	**Development and Characterization of Open-Cell Ti6Al7Nb Implant Structures for Bone Replacement** M. Altindis (Sp), U. Krupp, University for Applied Sciences of Osnabrück (Germany); T. Guillen, A. Ohrndorf, University of Siegen (Germany); K. Hagemann, A. Bührig-Polaczek, RWTH Aachen University (Germany) et al.
18:00	**Oral Poster - Subsession** Poster 1: D3-462 Poster 2: D3-137 Poster 3: D3-442 Poster 4: D3-657 Poster 5: D3-738	**Oral Poster - Subsession** Poster 1: C2-605 Poster 2: C2-650 Poster 3: C2-348 Poster 4: C2-119	**A Theoretical Approach to Understanding the Effect of Substrate Geometry on Tissue Growth** J. Dunlop (Sp), Max Planck Institute of Colloids and Interfaces, Potsdam (Germany); E. Gamsjäger, Montanuniversität Leoben (Austria); M. Rumpler, Ludwig Boltzmann Institute of Osteology, Vienna (Austria) et al.	**Oral Poster - Subsession** Poster 1: F5-189 Poster 2: F5-439 Poster 3: F5-599 Poster 4: F5-64

Symposium: A4 Room: A5	Symposium: B6 Room: A03	Symposium: C1 Room: A04	
Polymer Nanocomposites	**Mechanical Properties and Microstructure**	**Nanomaterials and Composites**	
Polymer Nanocomposites	Mg-Alloys	Nano 3	
F. Faupel, Christian-Albrechts-Universität zu Kiel (Germany)	T. Bernthaler, Hochschule Aalen (Germany)	F. Kern, Universität Stuttgart (Germany)	
Modellierung und Simulation erzielbarer Partikelgrößen in Nanokompositen am Beispiel der mechanischen Dispergierung von TiO2-Nanoartikelaaalomer M. Englert (Sp), A.K. Schlarb, University of Kaiserslautern (Germany)	**Deformation, Shear Banding and Ductility in Mg and Mg-Y** S. Sandlöbes (Sp), S. Zaefferer, I. Schestakow, J. Chen, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany); S. Yi, GKSS-Forschungszentrum Magnesium Innovation Center, Geesthacht (Germany)	**Enhanced Production Method for Fibre Reinforced Aluminium Matrix Composites** E. Wüller (Sp), T. Burbach, A. Bührig-Polaczek, RWTH-Aachen (Germany)	**16:40**
Preparation and Properties of Some Polyurethane/Layered Silicate Nanocomposites A. Saad (Sp), National Research Centre, Cairo (Egypt); O.I.H. Dimitry, Z.I. Abdeen, E.A. Ismail, Egyptian Petroleum Research Institute, Cairo (Egypt)	**Microstructural Investigation of a Texturized State of Magnesium Wrought Alloy AZ31 after Repeated Tensile and Compressive Loading** K. Anten (Sp), U. Noster, B. Scholtes, University of Kassel (Germany)	**Preparation of Bulk Nanocrystalline Cu-Nb** K. Eymann (Sp), T. Riedl, A. Kirchner, A. Bram, M. Ruhnow, B. Kieback, Technische Universität Dresden (Germany)	**17:00**
Polymer Composites Reinforced By Montmorillonite K. Ergin (Sp), S. Kaloshkin, V. Tcherdyntsev, A. Maksimkin, National University of Science and Technology "MISIS", Moscow (Russian Federation) et al.	**Microstructure and Mechanical Properties of Extruded Magnesium ME21 Sheets** S. Gall (Sp), M. Huppmann, S. Müller, W. Reimers, Technical University of Berlin (Germany)	**Spark Plasma Sintering of Nanocrystalline WC-Co Hard Metals** M. Dopita (Sp), A. Saloman, D. Chmelik, H.J. Seifert, Technical University of Freiberg (Germany)	**17:20**
Rheological and Electrical Characterization of Poly(methyl Methacrylate) Filled with Various Conductive Particles C. Triebel (Sp), N. Katsikis, H. Münsstedt, University Erlangen-Nürnberg (Germany)	**Adjustment of the Texture and the Mechanical Properties of the Extruded Mg Alloy ME21 by Variation of the Process Parameters** M. Huppmann (Sp), S. Gall, S. Müller, W. Reimers, Technical University of Berlin (Germany)	**Oral Poster - Subsession** Poster 1: C1-600 Poster 2: C1-43 Poster 3: C1-417	**17:40**
Transparent Conductors Based on Metal-Polymer Nanocomposites M. Keshavarz Hedayati (Sp), V.S.K. Chakravadhanula, V. Zaporojtchenko, M. Elbahri, F. Faupel, Christian-Albrechts-University of Kiel (Germany)	**Study on the Creep Properties and Creep Failure Mechanisms of Mg-10Gd-3Y-0,4Zr (GW103K) Alloy** V. Janik (Sp), Q. Wang, D. Yind, W. Ding, Shanghai Jiaotong University (China)		**18:00**

	Symposium: D3 Room: A1	Symposium: D2 Room: A2	Symposium: E2 Room: A3	Symposium: F1 Room: A4
	Characterisation of Material Properties	**New Techniques**	**Materials Processing**	**Bio-Inspiration**
	Thermophysical, Chemical and Structural Characterisation of Materials	Technical Applications	Solidification	Biomineralization
	D. Holland-Moritz, Deutsches Zentrum für Luft- und Raumfahrt e.V., Köln (Germany)	W. Hoffelner, Paul Scherrer Institut, Villigen (Switzerland)	S. Denis, Ecole de Mines, Nancy Cedex (France)	I. Burgert, Max-Planck-Institut für Kolloid- und Grenzflächenforschung, Golm
08:30	**Characterization of the Corrosion Behaviour of a Free Machining Titanium Alloy** F. Depentori (Sp), DECHEMA e. V., Frankfurt (Germany); J. Laukart, University of Braunschweig (Germany); S. Benfer, W. Fürbeth, DECHEMA e. V., Frankfurt (Germany)	**Analysis of Pore Morphology and Thermal Conductivity of Alternative EB-PVD Deposited TBC-Compositions** B. Saruhan-Brings (Sp), German Aerospace Center (DLR), Cologne (Germany); V. Ryukhtin, Helmholtz-Zentrum Berlin for Materials and Energy (Germany); K. Kelm, German Aerospace Center (DLR). Köln (Germany)	**Numerical Determination of Process Parameters for Fabrication of Automotive Component** M. Sadeghi (Sp), J. Mahmoudi, Mälardalen University, Vasteras (Sweden)	**Keynote Lecture** **Mineralized Biomaterials: Learning From Nature About Solutions to Basic Problems** S. Weiner, Weizmann Institute of Science, Rehovot (Israel)
08:50	**Electrochemical and Structural Investigation of Li Intercalation into Y2Ti2O5S2** N. Schweikert (Sp), Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen (Germany); J. Cabana, State University of New York, Stony Brook (USA); W.-S. Yoon, Brookhaven National Laboratory.	**Residual Strain Measurements on a Single-Crystal Nickel-Based Superalloys Turbine Blade Using Neutron Diffraction** S. Pierret (Sp), A. Evans, Paul Scherrer Institut, Villigen (Switzerland); A. Paradowska, ISIS, Rutherford Appleton Laboratory, Oxfordshire (UK); T. Etter, Alstom Ltd, Baden (Switzerland) et al.	**Influence of the Anisotropy of Permeability on the Macrosegregation Formation in Continuous Cast Steel** J. Domitner (Sp), M. Wu, A. Kharicha, A. Ludwig, University of Leoben (Austria)	
09:10	**Mechanosynthesis, Structure, and Electrochemical Behavior of Complex Tin Oxides** S. Becker (Sp), M. Scheuermann, V. Sepelák, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen (Germany); I. Bergmann, Volkswagen AG, Wolfsburg (Germany) et al.	**Application of Neutron radiography to study Material Processes during Hypothetical Severe Accidents in Nuclear Reactors** M. Große, Forschungszentrum Karlsruhe GmbH (Germany)	**Numerical Simulation of Dendritic Structures under Constrained Solidification Conditions during Laser Cladding** V. Fallah (Sp), M. Alimardani, S. Corbin, A. Khajepour, University of Waterloo, Waterloo, Ontario (Canada)	**Biotemplating of Inorganic Materials** C. Zollfrank, University of Erlangen-Nürnberg (Germany)
09:30	**Influence of Chemical and Microstructural Parameters on the Radiative Properties (300 K - 1200 K) of a La2-xNiO4+d Cathodic Layers** M.-T. Ta (Sp), J.Y. Rolland, E. Veron, S. Ory, P. Echegut, B. Rousseau, CNRS, Orléans (France); M. Rieu, R. Dugas, F. Ansart, CNRS CIRIMAT -UMR 5085, Toulouse (France) et al.	**Characterisation of Laser-Welded Materials by Grating-Based Phase-Contrast Imaging** J. Herzen (Sp), F. Beckmann, GKSS Research Centre, Hamburg (Germany); T. Donath, C. David, Paul-Scherrer Institute, Villingen-PSI (Switzerland); F. Pfeiffer, Technical University Munich (Germany) et al.	**Computer Simulation of the Thin Shell Casting (TSC) Process for Directional Solidification of Superalloys** T. Han (Sp), D. Ma, H. Lu, A. Bührig-Polaczek, RWTH Aachen University (Germany)	**Phage Display: Identification of Peptides Interacting with Inorganic Surfaces** D. Rothenstein (Sp), J. Bill, University of Stuttgart (Germany)
09:50	**Oral Poster - Subsession** Poster 1: D3-316 Poster 2: D3-46 Poster 3: D3-543	**Sulphur Poisoning of Ni Catalysts: A combined S K-edge XAS - DFT Simulation Study.** R. Struis (Sp), I. Czekaj, C. Ludwig, Paul Scherrer Institute, Villigen (Switzerland)		**Enamel's Size-Dependent Elastic/Inelastic Behavior Over Millimeter and Nanometer Length Scales** S.F. Ang (Sp), E.L. Bortel, Hamburg University of Technology (Germany); M.V. Swain, University of Sydney, NSW (Australia); A. Klocke, University of California, San Francisco (USA) et al.

Symposium: B2 Room: A5	Symposium: B6 Room: A03	Symposium: C1 Room: A04	
Modern Steels	**Mechanical Properties and Microstructure**	**Nanomaterials and Composites**	
Aspects of Modern Steels	UFG Metals and Alloys	Nano 4	
P. Scheller, TU Bergakademie Freiberg (Germany)	J. Freudenberger, Leibniz-Institut für Festkörper- und Werkstoffforschung Dresden (Germany)	K.-H. Haas, Fraunhofer Institut für Silicatforschung, Würzburg (Germany)	
Hydrogen Embrittlement of Steels – Thermo Analytic Characterization of Effusing Hydrogen P. Ried (Sp), M. Gabler, K. Beyer, F. Freigang, R. Müller, H. Kipphardt, T. Kannengießer, Federal Institute for Material Research and Testing, Berlin (Germany)	**Deformation Processes in Nanocrystalline Palladium and Palladium Gold Alloys prepared by Magnetron Sputtering** A. Castrup (Sp), Technical University of Darmstadt (Germany); C. Kübel, T. Scherer, Y. Ivanisenko, H. Hahn, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen, (Germany)	**Effects of MWCNTs as Reinforcement in Ceramic SiCN Fibers** O. Flores (Sp), University of Bayreuth (Germany); D. Koch, University of Bremen (Germany); W. Krenkel, G. Motz, University of Bayreuth (Germany)	**08:30**
Hydrogen Solubility and Diffusion in Austenitic Stainless Steels Studied with Thermal Desorption Spectroscopy Y. Yagodzinskyy (Sp), O. Todoshchenko, S. Papula, H. Hänninen, Helsinki University of Technology, Espoo (Finland)	**Incipient Plasticity, Activation Volume and Strain Rate Sensitivity of Nanostructured Metals** Y.M. Wang (Sp), R. Ott, A.V. Hamza, Lawrence Livermore National Laboratory (USA)	**Novel Hybrid Polymer Capsules via Microextrusion and UV-Curing** T. Ballweg, C. Gellermann, K.-H. Haas (Sp), Fraunhofer Institute for Silicate Research, Würzburg (Germany)	**08:50**
Investigation of Voids Nucleation and Damage Propagation in Dual Phase Steels A.-P. Pierman (Sp), T. Pardoen, P.J. Jacques, Université catholique de Louvain, Louvain-la-Neuve (Belgium)	**Improvement of Mechanical Properties of AZ91Mg Alloy by Multi-Directional Forging and Ultra Grain Refinement** H. Miura (Sp), H. Liu, The University of Electro-Communications, Chofu (Japan)	**Fabrication and Device Applications of CdS(Te)@SnO2 Nanowire Heterostructures** J. Li, J. Pan, H. Shen, S. Mathur (Sp), University of Cologne, Köln (Germany)	**09:10**
A new Bainitic Steel for Cold Heading Applications J. Kruse, Lemförder GmbH (Germany); S. Hasler (Sp), U. Urlau, Swiss Steel AG, Emmenbrücke (Switzerland)	**Grain Size Effects on Deformation Mechanisms in Ferrite/Martensite Dual-Phase Steels** M. Calcagnotto (Sp), D. Ponge, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf (Germany); Y. Adachi, National Institute for Materials Sciencei, Tsukuba Ibaraki (Japan) et al.	**Silicon Oxycarbide/Hafnia Ceramic Nanocomposites – Preparation and High-Temperature Behavior** E. Ionescu (Sp), B. Papendorf, H.-J. Kleebe, R. Riedel, Technische Universität Darmstadt (Germany)	**09:30**
Oral Poster - Subsession Poster 1: B2-39 Poster 2: B2-155 Poster 3: B2-157 Poster 4: B2-455	**Damascene Light Weight Metals** T. Marr (Sp), J. Freudenberger, H. Klauß, L. Schultz, Leibniz Institute for Solid State and Materials Research Dresden (Germany)	**Oral Poster - Subsession** Poster 1: C1-665 Poster 2: C1-764 Poster 3: C1-33 Poster 4: C1-570	**09:50**

	Symposium: D3 Room: A1	Symposium: D2 Room: A2	Symposium: E2 Room: A3	Symposium: F1 Room: A4
	Characterisation of Material Properties	**New Techniques**	**Materials Processing**	**Bio-Inspiration**
	Materials Testing under Near-Service Conditions	Combined and In-Situ Testing I	Forming	Self-assembly and Biopolymers
	J. Olbricht, Bundesanstalt für Materialforschung und -prüfung, Berlin (Germany)	A. Froideval, Paul Scherrer Institut, Villigen (Switzerland)	O. Keßler, Universität Rostock (Germany)	T. Scheibel, Universität Bayreuth (Germany)
10:40	**A Testing Apparatus for Creep Experiments on Corrosion Condition** M. Talík (Sp), T. Vlasak, J. Mlnarik, Research Centre SVUM a.s., Prague (Czech Republic)	**Micro Powder Injection Moulding: Investigation of Powder - Binder Separation Using Synchrotron-CT and 3D-Image Analysis** O. Weber (Sp), Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen (Germany); C. Redenbach, Technical University of Kaiserslautern (Germany) et al.	**Fast, Physically-Based Algorithms for On-line Calculations of Texture and Anisotropy during Fabrication of Steel Sheets** M. Winning (Sp), D. Raabe, Max-Planck-Institute for Iron Research, Düsseldorf (Germany)	**New Approaches Towards Responsive non-Covalent Biopolymer Network Materials with Advanced Elastic Properties** S. Schiller (Sp), M. Huber, Albert-Ludwig-University of Freiburg (Germany)
11:00	**The Effect of High Temperature Corrosion in CO2 Rich Flue Gases on the Mechanical Properties of Super Heater Materials** J. Olbricht (Sp), H. Klingelhöffer, D. Hünert, A. Kranzmann, B. Skrotzki, Federal Institute for Materials Research and Testing, Berlin (Germany)	**In-Situ Observation of Hydrogen Effusion in ARMCO-Iron Using Neutron Radiography** K. Beyer (Sp), T. Kannengießer, A. Griesche, Federal Institute for Materials Research and Testing, Berlin (Germany); B. Schillinger, University of Technology Munich (Germany)	**Fast Simulation System for Analysis of Multistage Hot Rolling Process of Flat Products** M. Graf (Sp), M. Schmidtchen, R. Kawalla, Technical University of Freiberg (Germany)	**Bioinsipred Nanocomposite Materials for Technical Applications** J. Raff (Sp), U. Weinert, T. Günther, A. Marquard, Forschungszentrum Dresden-Rossendorf e.V. (Germany); S. Matys, Technische Universität Dresden (Germany) et al.
11:20	**CFRP Shield against Debris by Oblique Collision** I. Shiota (Sp), Salesian Polytechnic, Tokyo (Japan); H. Kohri, Kogakuin University, Tokyo (Japan); M. Kato, Salesian Polytechnic, Tokyo (Japan); A. Yumoto, Kogakuin university, Tokyo (Japan) et al.	**Structure Formation in Colloidal Thin Films by Self-Assembly** S.V. Roth (Sp), A. Kashem, A. Buffet, R. Gehrke, G. Herzog, J. Perlich, A. Rothkirch, M. Schwartzkopf, S. Wannabaipoon, DESY, Hamburg (Germany); M. Burghammer, ESRF, Grenoble (France) et al.	**Fast Models for Online-Optimization during Open Die Forging** D. Recker (Sp), M. Franzke, G. Hirt, RWTH Aachen (Germany)	**Recombinant Spider Silk as a Biocompatible Surface Interface** A. Smith (Sp), K. Spieß, A. Leal, T. Scheibel, University of Bayreuth (Germany)
11:40	**Four-Point Bending with Acoustic Emission Measurement for Lifetime Assessment of Thermal Barrier Coatings** M. Rudolphi (Sp), D. Renusch, M. Schütze, DECHEMA e.V., Frankfurt (Germany)	**In Situ Laue Micro-Diffraction during Compression of Mo Micropillars.** J. Zimmermann (Sp), S. Van petegern, Paul Scherrer Institute, Villigen (Switzerland); H. Bei, Oak Ridge Natl Lab (USA); E.P. George, University of Tennessee, Dept Mat Sci & Engn, Knoxville, USA; (USA) et al.	**The Effect of Hydrofoming Parameters on the Response of Corrugated Braided Hoses** H. Hachemi (Sp), J.M. Roelandt, H. Kebir, Université de Technologie de Compiègne, Compiegne (France)	**Mussel Byssal Threads - Analysis of a Biological Composite Gradient Material** A.V. Golser (Sp), A. Hagenau, M. Heim, M.H. Suhre, E. Lintz, T. Scheibel, University of Bayreuth (Germany)
12:00	**Oral Poster - Subsession** Poster 1: D3-202 Poster 2: D3-368 Poster 3: D3-349 Poster 4: D3-540	**EXAFS, XANES and DFT Study of the Multif Erroic Mixed-Valence Compound YMn2O5: Site-Selective Substitution of Fe for Mn** T. Leisegang (Sp), Technical Univerity of Dresden (Germany); T. Weißbach, Technical University of Freiberg (Germany); F. Wunderlich, H. Stöcker, M. Zschomak, R. Boucher, Technische Universität Dresden (Germanv) et al.	**Efficient, Robust Simulation Algorithms for Material-Process-Chain Analysis and Optimization in Metal Forming** M. Schaper (Sp), Leibniz Universität Hannover, Garbsen (Germany); O. Grydin, Leibniz University Hannover (Germany); E. Tekkaya, A. Brosius, T. Cwiekala, B. Svendsen, University of Dortmund (Germany) et al.	**Oral Poster - Subsession** Poster 1: F1-191 Poster 2: F1-339 Poster 3: F1-696 Poster 4: F1-518

Symposium: B2 Room: A5	Symposium: B6 Room: A03	Symposium: C1 Room: A04	
Modern Steels	**Mechanical Properties and Microstructure**	**Nanomaterials and Composites**	
TRIP/TWIP Steels	Brittle Materials	Nano 5	
H. Biermann, TU Bergakademie Freiberg (Germany)	C. Müller, Technische Universität Darmstadt (Germany)	K.-H. Haas, Fraunhofer Institut für Silicatforschung, Würzburg (Germany)	
Strain-Hardening Mechanisms in Austenitic TWIP Steels K. Renard (Sp), H. Idrissi, D. Schryvers, P.J. Jacques, Université catholique de Louvain, Louvain-la-Neuve (Belgium)	**Mechanical Properties of Laves Phases in the Systems Fe-Nb(-Al) and Co-Nb(-Al) Using Polycrystalline, Single-Phase Material** S. Voss (Sp), F. Stein, M. Palm, D. Raabe, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf (Germany)	**Keynote Lecture** **Polysiloxane Derived Hybrid Ceramics for Catalytic Applications** M. Adam (Sp), M. Wilhelm, M. Bäumer, G. Grathwohl, University of Bremen (Germany)	**10:40**
Transformation-Induced Plasticity in Fe-Cr-V-C J. Hufenbach (Sp), H. Wendrock, N. Mattern, J. Eckert, U. Kühn, Leibniz Institute for Solid State and Materials Research Dresden (Germany)	**Microstructure and Mechanical Behaviour of Mo-Si-B Alloys Fabricated by Different Processing Routes** M. Krüger (Sp), Otto-von-Guericke-University Magdeburg (Germany); H. Saage, University of Applied Sciences, Landshut (Germany); M. Heilmaier, Technical UniversityDarmstadt (Germany); H. Kestler, Plansee SE.		**11:00**
Temperature Dependence of the Mechanical Properties of High Alloyed CrMnNi as-Cast Steels A. Jahn (Sp), A. Kovalev, A. Weiß, P.R. Scheller, Technical University of Freiberg (Germany); S. Wolf, L. Krüger, S. Martin, U. Martin, Institute of Materials Testing, Freiberg (Germany)	**Mechanical and Thermal Properties of Copper-Alumina Interpenetrating Composites** J.S. Winzer (Sp), L. Weiler, V. Salit, D. Gross, J.R. Rödel, Technische Universität Darmstadt (Germany)	**Synthesis and Analysis of Cr-Doped TiO2-Nanotubular Sensor Electrodes** Y. Goenuellue (Sp), A. Yüce, G.C. Mondragón-Rodriguez, B. Saruhan, German Aerospace Center, Köln (Germany)	**11:20**
Characterization of TRIP/TWIP Effect in Austenitic Steels Using Stress-Temperature-Transformation(STT) and Deformation-Temperature(DT) Diagrams A. Kovalev (Sp), A. Jahn, S. Wolf, A. Weiß, P.R. Scheller, Technical University of Freiberg (Germany)	**Prediction of Mechanical Properties of Ceramics by Quantitative Microstructure Analysis** T. Bernthaler (Sp), A. Nagel, G. Schneider, Aalen University (Germany); M. Hoffman, University of New South Wales, Sydney (Australia)	**From Lab to Market – Coloured and Transparent Sol-Gel Coatings** C.L. Schmidt (Sp), K. Endres, M. Menning, H. Schmidt, EPG AG, Zweibrücken (Germany)	**11:40**
Design of Lean Maraging TRIP Steels D. Ponge (Sp), J. Millán, O. Dmitrieva, D. Raabe, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany)	**Formation of Nanostructures in Brittle Materials with Transformations** S. Kulkov, Tomsk State University (Russian Federation)	**Oral Poster - Subsession** Poster 1: C1-358 Poster 2: C1-203 Poster 3: C1-464	**12:00**

	Symposium: D3 Room: A1	Symposium: D2 Room: A2	Symposium: E2 Room: A3	Symposium: F1 Room: A4
	Characterisation of Material Properties	**New Techniques**	**Materials Processing**	**Bio-Inspiration**
	In situ-Methods in Mechanical Materials Testing	Combined and In-Situ Testing II	Heat Treatment / Quenching	Surfaces and Structures
	A. Weidner, TU Bergakademie Freiberg (Germany)	C. Hébert, Ecole Polytechnique Fédérale de Lausanne (Switzerland)	M. Schaper, Leibniz Universität Hannover, Garbsen (Germany)	T. Scheibel, Universität Bayreuth (Germany)
14:30	**Comparison of Microscopical and Macroscopical Residual Stresses in Slightly Tensile-Deformed TWIP Steels.** T. Jäpel (Sp), S. Zaefferer, M. Winning, D. Raabe, Max Planck Institute of Iron Research GmbH, Düsseldorf (Germany)	**Electron Tomography and Analytical (S)TEM as a Tool to Characterize the Porosity and Wetting Behavior in Model Systems for Hydrogen Storage** C. Kübel (Sp), A. Roth, D. Wang, Z. Zhao karger, M. Fichtner, Karlsruher Institut für Technologie (KIT), Eggenstein-Leopoldshafen (Germany)	**Keynote Lecture** **From Concepts to Process Simulation : Example of Heat Treatment of Metallic Alloys** S. Denis, Ecole de Mines, Nancy Cedex (France)	**Biomimetic Structure Formation Based on Wrinkling** A. Schweikart, University of Bayreuth (Germany); K. Koch, Rhine-Waal University of Applied Science, Kleeve (Germany); N. Pazos Perez, A. Fery (Sp), University of Bayreuth (Germany)
14:50	**Evolution of Microstructure and Deformation fFelds Accompanied by Martensitic Phase Transformation in Novel High Alloyed TRIP Steel** A. Weidner (Sp), H. Biermann, Technical University of Freiberg (Germany)	**In Situ Reduction and Reoxidation of a Solid Oxide Fuel Cell Anode in an Environmental TEM** Q. Jeangros, A. Faes, Ecole Polytechnique Fédérale de Lausanne (Switzerland); J.B. Wagner, T.W. hansen, Technical University of Denmark, Lyngby (Denmark); U. Aschauer, Princeton University (USA) et al.		**Bioinspired Engineering of Self Repairing Pneumatic Membranes** M. Rampf (Sp), R. Luchsinger, EMPA, Dübendorf (Switzerland); T. Speck, O. Speck, University of Freiburg (Germany)
15:10	**3D In-Situ Observations of Fatigue Crack Propagation in a Grain-Mapped Magnesium Alloy Polycrystal** A. King (Sp), N. Schell, A. Schreyer, GKSS, Hamburg (Germany); W. Ludwig, ESRF, Grenoble and MATEIS, Villeurbanne (France); J.Y. Buffiere, INSA de Lyon, Villeurbanne (France) et al.	**The Effect of Dopants on the Local Atomic Structure and the Sintering Behavior of Bismuth Sodium Titanate** V. Schmitt, T. Staab (Sp), Fraunhofer Institute for Silicate Research, Würzburg (Germany); E. Dudzik, Helmholtz-Zentrum BESSY, Berlin (Germany)	**Coupled Gas and Workpiece Simulation of High Pressure Gas Quenching of Steel Parts** M. Hunkel (Sp), S. Schüttenberg, U. Fritsching, F. Hoffmann, Stiftung Institut für Werkstofftechnik, Bremen (Germany)	**Relation of Ultrastructure and Optical Properties in the Cuticle of Beetles** X. Wu (Sp), A. Erbe, H. Fabritius, D. Raabe, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany)
15:30	**In Situ Mechanical Testing of Creep Resistant Bainitic Steel Using Synchrotron and Neutron Diffraction** M. Weisser (Sp), A. Evans, S. Van Petegem, Paul Scherrer Institut, Villigen (Switzerland); S.R. Holdsworth, EMPA Materials Science & Technology, Dübendorf (Switzerland) et al.	**Linking Grain Boundaries and Grain Growth in Ceramics** M. Bäurer (Sp), M.J. Hoffmann, Technical University of Karlsruhe (Germany)	**Simulation Studies of the Development of Compressive Residual Stresses by High-Speed Water Quenching** J. Rath (Sp), T. Lübben, F. Hoffmann, H.-W. Zoch, IWT Bremen (Germany)	**Branched Fibre Compound Structures Inspired by Columnar Cacti** H. Schwager (Sp), C. Neinhuis, Technische Universität Dresden (Germany)
15:50	**Oral Poster - Subsession** Poster 1: D3-414 Poster 2: D3-116 Poster 3: D3-132 Poster 4: D3-583 Poster 5: D3-59	**Cathodoluminescence-Based Analysis of ZrO2-bearing Materials** Y. Hemberger (Sp), M. Keuper, C. Kohler, C. Berthold, K.G. Nickel, Applied Mineralogy, Tübingen (Germany)	**Quenching Simulation of Aluminium Alloys Including Mechanical Properties of Undercooled States** O. Keßler (Sp), M. Reich, University of Rostock (Germany)	**Slipping Through the Water: Biological Under Water Air Retaining Surfaces as a Biomimetic Approach to Drag Reduction** M. Mayser (Sp), P. Ditsche-Kuru, University of Bonn (Germany); M. Brede, A. Leder, University of Rostock (Germany); T. Schimmel, University of Karlruhe, Karlsruhe (Germany); W. Barthlott, University of Bonn (Germanv)

Symposium: B1
Room: A5

Intermetallic Aluminides: Physical Metallurgy and Processing

Iron and Exotic Aluminides

F. Appel, GKSS-Forschungszentrum Geesthacht GmbH (Germany)

Symposium: B4
Room: A03

Functional Amorphous Materials and Glasses

Functional Glasses

J. Roether, Friedrich-Alexander-Universität Erlangen-Nürnberg (Germany)

Symposium: C3
Room: A04

Joining

Friction Stir Welding

C. Sommitsch, Technische Universität Graz (Austria)

14:30

Keynote Lecture

Ductility of Cast Microstructurally-Refined TiAl-Based Alloys
M.H. Loretto, University of Birmingham (UK)

Subwavelength Scale Devices Based on Glass Filled Photonic Crystal fibers
M. Schmidt (Sp), N. Granzow, N. Da, L. Wondraczek, P.S.J. Russel, Max Planck Institute for the Science of Light, Erlangen (Germany)

Keynote Lecture

In-Situ Investigation of Friction Stir Welding Using High Energy Synchrotron Radiation
T. Fischer (Sp), P. Staron, L. Bergmann, GKSS Research Centre, Hamburg (Germany); H. Loitz, Helmut-Schmidt-University Hamburg (Germany); J.F. dos Santos, A. Schreyer, GKSS Research Centre, Hamburg (Germany)

14:50

Precious Metal Functionalized Soda-Lime SIlicate Glasses
A. Simo (Sp), K. Rademann, Humboldt-University of Berlin (Germany)

15:10

Hot Rolling of B2-Based Iron Aluminides
J. Kopecek (Sp), M. Jarosová, Academy of Sciences, Prag (Czech Republic); P. Hanus, Technical University of Ostrava (Czech Republic); V. Yíma, P. Kratochvíl, Charles University, Prag (Czech Republic) et al.

FORGLAS: Multifunctional Glass Based Materials for Energy Efficient Buildings
T. Gerdes, M. Willert-Porada (Sp), University of Bayreuth (Germany); S. Trassl, Sigmund Lindner GmbH, Warmensteinach (Germany)

Mechanical Properties of Friction Stir Welded Mg/Mg- and Mg/Al-Joints
O.M. Klag (Sp), G. Wagner, D. Eifler, University of Kaiserslautern (Germany)

15:30

Tau6-Ti2(Ti0.22Ni0.43Al0.35)3, a Novel Phase in the Ti-Rich Part of the Phase Diagram: Crystal Structure and Phase Equilibria
A.U. Khan (Sp), X. Yan, A. Grytsiv, P. Rogl, University of Vienna (Austria); A. Saccone, University of Genova (Italy)

Criteria for Tensile Plasticity in Cu-Zr-Al Bulk Metallic Glasses
S. Pauly (Sp), G. Liu, U. Kühn, D.H. Kim, J. Eckert, Leibniz Institute for Solid State and Materials Research Dresden (Germany)

1 Effect of process parameters on Weld Area and Defect Formation in Friction Stir Welded AA5083
K.S. Arora, Technische Universität Dresden (Germany); R. Kumar, S. Pandey, Indian Institute of Technology, Dehli (India); M.K. Schaper (Sp), Technische Universität Dresden (Germany)

15:50

Highlight Lecture

Linear Friction Welding of Dissimilar Materials
I. Bhamji (Sp), M. Preuss, University of Manchester (UK); P.L. Threadgrill, A. Addison, TWI Ltd, Cambride (UK); R.J. Moat, University of Manchester (UK)

	Symposium: D3 Room: A1	Symposium: D2 Room: A2	Symposium: E2 Room: A3	Symposium: F1 Room: A4
	Characterisation of Material Properties	**New Techniques**	**Materials Processing**	**Bio-Inspiration**
	Mechanical Properties of Structural Materials	Advanced Methods	Physical Models	Hierarchies and Materials Analysis
	H. Biermann, TU Bergakademie Freiberg (Germany)	J. Neuhaus, Technische Universität München, Garching (Germany)	M. Hunkel, Stiftung Institut für Werkstofftechnik, Bremen (Germany)	C. Zollfrank, Friedrich-Alexander-Universität Erlangen-Nürnberg (Germany)
16:40	**The Effect of Alloying Elements on The Phase Transformation and Mechanical Properties of Low Nickel Cobalt Free Maraging Steel** A. El-Aziz, German University in Cairo (Egypt); A.M. Fathy, Central of Metallurgical Research and Deveopment Institute, Helwan (Egypt); A. Hassan (Sp), German University in Cairo (Egypt)	**Micro and Nano Tomography at the Imaging Beamline at PETRA III** A. Haibel (Sp), F. Beckmann, T. Dose, M. Ogurreck, F. Wilde, D. Laipple, J. Herzen, M. Müller, A. Schreyer, GKSS Research Centre, Geesthacht (Germany)	**Simulation of Particle Evolution for Microalloyed Case Hardening Steels Along the Process Chain** S. Konovalov (Sp), U. Prahl, W. Bleck, RWTH Aachen University (Germany)	**Self-Reporting Polymeric Materials that Visually Report Damage with the Help of Proteins** N. Bruns (Sp), S. Lörcher, University of Basel (Switzerland)
17:00	**Mechanical Properties of Matching and Dissimilar Joints in Aluminium Alloys 5083-H111 and 6061-T651 Welded Using Fully Automatic Pulsed GMAW** K. Mutombo, Unversity of Pretoria (South Africa)	**Progress in 3-Dimensional EBSD-Based Orientation Microscopy: New Software Tools for 3-Dimensional materials characterization** S. Zaefferer (Sp), P. Konijnenberg, E. Demir, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany); T. Woodcock, Institute for Materials Science Dresden (Germany)	**Computational Thermodynamics in the Context of High-Temperature Oxidation of Co-Re-Based Alloys** B. Gorr (Sp), H.-J. Christ, University of Siegen (Germany)	**Plant Ramifications as Role Models for Branched Biomimetic Fibre-Reinforced Composites** T. Haushahn (Sp), T. Masselter, T. Speck, University of Freiburg (Germany)
17:20	**Microstructural Evolution of Titanium Base Materials during Hot Deformation** F. Warchomicka (Sp), C. Poletti, Vienna University of Technology (Austria); M. Stockinger, Boehler Schmiedetechnik GmbH & Co KG, Kapfenberg (Austria); H.P. Degischer, Vienna University of Technology (Austria)	**Neutron Larmor Diffraction Investigations for Materials Science** J. Repper (Sp), Technical University of Munich, Garching (Germany); T. Keller, Max Planck Institute for Solid State Research, Stuttgart (Germany) et al.	**Fast Simulation of Inhomogeneous Material Evolution in Hot and Cold Rolling of Flat Products** M. Schmidtchen (Sp), M. Graf, R. Kawalla, Technical University of Freiberg (Germany)	**Pummelo-inspired Low Weight Structures with Excellent Damping Properties** S. Fischer (Sp), RWTH Aachen University (Germany); R.R. Loprang, C. Fleck, TU Berlin (Germany); A. Bührig-Polaczek, RWTH Aachen University (Germany)
17:40	**Characterisation of the Fatigue Behaviour of the Cast Irons EN-GJL-250, EN-GJV-400 and EN- GJS-600** H. Germann (Sp), P. Starke, E. Kerscher, D. Eifler, University of Kaiserslautern (Germany)	**Precise Neutron Strain Imaging** T. Pirling, Institut Laue-Langevin, Grenoble (France)	**Investigation of the Scaling Behavior of Surface near Residual Stresses for the Micro-Cutting Process** H. Autenrieth (Sp), M. Deuchert, J. Hoffmeister, Karlsruhe Institute of Technology (Germany); V. Schulze, Institute of Materials Science and Engineering , Karlsruhe Institute of Technology (Germany)	**Adaptation of the Spongy Architecture of Trabecular Bone** H. Scherf, University of Tübingen (Germany); J.W.C. Dunlop, P. Saparin, M. Rusconi, A. Valeriani, Max Planck Institute of Colloids and Interfaces, Potsdam (Germany) et al.
18:00	**Oral Poster - Subsession** Poster 1: D3-300 Poster 2: D3-146 Poster 3: D3-210 Poster 4: D3-683 Poster 5: D3-45		**Martensite Formation of Metastable Austenitic Stainless Steels during a Two Directional Forming Process and its Effect on Monotonic and Cyclic Mechanical Properties** C. Müller-Bollenhagen (Sp), M. Zimmermann, H.-J. Christ, University of Siegen (Germany)	**The Unfolding Mechanism of Seed Capsules in Desert Ice Plants** M. Harrington, K. Razghandi, Max Planck Institute of Colloids and Interfaces, Potsdam (Germany); F. Ditsch, Technische Universität Dresden (Germany); P. Fratzl, Max Planck Institute of Colloids and Interfaces. Potsdam (Germanv) et al.

Symposium: B1 Room: A5	Symposium: B4 Room: A03	Symposium: C3 Room: A04	
Intermetallic Aluminides: Physical Metallurgy and Processing	**Functional Amorphous Materials and Glasses**	**Joining**	
Microstructural Evolution	Rheology, Sintering and Sealing	Friction Welding and Simulation in Welding	
M. Oehring, GKSS-Forschungszentrum Geesthacht GmbH (Germany)	J. Roether, Friedrich-Alexander-Universität Erlangen-Nürnberg (Germany)	U. Reisgen, RWTH Aachen (Germany)	
In Situ Grain Refinement of TiAl-Based Alloys by Boron Additions U. Hecht (Sp), V. Witusiewicz, J. Eiken, M. Apel, ACCESS e.V., Aachen (Germany)	**The Temperature Dependence of the Viscosity of Glass-Forming Melts - a Comparison of Five Different Models** R. Conradt, RWTH Aachen University (Germany)	**Tool Analysis for Friction Stir Spot Welding (FSSW) Process – A Theoretical Study** F. Krumphals (Sp), T. Weinberger, N. Enzinger, F. krumphals, C. Sommitsch, Technical University of Graz (Austria)	**16:40**
Directional Solidification of NiAl-9Mo at.-% Alloy and Adjustment of the Solidification Front in a High Temperature-Gradient Bridgman-Furnace S. Bogner (Sp), H. Lei, A. Bührig-Polaczek, RWTH Aachen University (Germany)	**Development of New Glass Systems Using a High-Throughput Glass Screening Apparatus** M. Kilo (Sp), B. Durschang, A. Diegeler, F. Raether, Fraunhofer Institute for Chemical Technology, Würzburg (Germany)	**Functional Interlayers for Assembly Moulding of Durable Multi-Material-Systems** M. Vetter (Sp), C. Heinle, University of Erlangen-Nürrnberg (Germany); S. Amesöder, RF-Plast, Gunzenhausen (Germany); D. Drummer, University of Erlangen-Nürnberg (Germany)	**17:00**
Shear Localization and Cracking during Hot-Working of Gamma-Based Titanium Aluminides U. Froebel, GKSS Research Centre, Geesthacht (Germany)	**Glass Sealing Materials and Laser Joining Process for the Fuel Cell Stack Manufacturing** D. Faidel (Sp), S. Groß, W. Behr, Forschungszentrum Jülich GmbH (Germany); U. Reisgen, RWTH Aachen University (Germany)	**Simulation of the Microstructure Evolution in the HAZ of Welded Dual Phase Steel** U. Prahl (Sp), K. Mukherjee, W. Bleck, U. Reisgen, M. Schleser, A. Abdurakhmanov, RWTH Aachen University (Germany)	**17:20**
Effect of Coherency Stresses and Elastic/Plastic Incompatibilities on Crack Formation in Lamellar TiAl-Alloys F. Iqbal (Sp), University of Erlangen-Nürnberg (Germany); F. Pyczak, GKSS Research Centre Geesthacht GmbH (Germany); M. Göken, University of Erlangen-Nürnberg (Germany)	**Developing Glass Solders for Laser-Induced Soldering of Ceramic Materials** A. Kasper (Sp), H. Vor, A. Prange, R. Conradt, RWTH Aachen University (Germany)	**Concept of Controlling the Welding Technology Based on Simulating Models** M. Markovic (Sp), N. Kosanin, M. Bjelic, M. Vukicevic, University of Kragujevac, Kraljevo (Serbia)	**17:40**
Fatigue Mechanisms in TiAl G. Hénaff, ENSMA, Chasseneuil Futuroscope (France)	**Densification of 45S5 Bioglass® Powder for Fabrication of Tissue Scaffolds: Viscous Flow Sintering and Crystallisation Phenomena** A.R. Boccaccini (Sp), University of Erlangen-Nürnberg (Germany); X. Chatzistavrou, Imperial College London (UK); L. Wondraczek, University of Erlangen-Nürnberg (Germany); O. Bretcanu, Polytechnic of Turin (Italy) et al.		**18:00**

	Symposium: B3 Room: A1	Symposium: D1 Room: A2	Symposium: C4 Room: A3	Symposium: F3 Room: A4
	Refractory Materials	**Microstructure Characterisation**	**Additive Manufacturing and Field Assisted Sintering Techniques**	**Interfaces**
	Refractory Materials	Thin Films	FAST	Materials Surface and Cell Interactions
	C. Aneziris, TU Bergakademie Freiberg (Germany)	D. Rafaja, TU Bergakademie Freiberg (Germany)	J. Groza, University of California, Berkeley (USA)	M. große Holthaus, Universität Bremen (Germany)
09:15	**Influence of Nanoscaled Additives on the Properties of Carbon Bonded Refractories** V. Roungos (Sp), C.G. Aneziris, TU Bergakademie Freiberg (Germany)	**Applications of Block Copolymers: Membranes through Self-Assembly** A. Boschetti-de-Fierro (Sp), D. Fierro, K. Buhr, C. Abetz, V. Abetz, GKSS Research Centre, Geesthacht (Germany)	**Highlight Lecture** **Bulk Undoped Nanocrystalline Tetragonal Zirconia Obtained by High-Pressure Field Assisted Rapid Sintering** I. Tredici, A. Zeffiro, F. Maglia, University of Pavia (Italy); M. Dapiaggi, Univerity of Milan (Italy); U. Anselmi-Tamburini (Sp), University of Pavia (Italy)	**Keynote Lecture** **Engineered Polymer Matrices to Aid Stem Cell Based Therapies** C. Werner, Leibniz Institute of Polymer Research Dresden (Germany)
09:35	**Studies on the Decarburization of the Commercial Submerged Entry Nozzles (SEN)** A. Memarpour (Sp), V. Brabie, Dalarna University, Borlänge (Sweden); P. Jönsson, Royal Institute of Technology, Stockholm (Sweden)	**3D Electron Tomography of Functional Nanocomposite Thin Films** V.S.K. Chakravadhanula (Sp), A. Lotnyk, T. Hrkac, A. Kulkami, T. Strunskus, V. Zaporojtchenko, Christian-Albrechts-University of Kiel (Germany); C. Kuebel, Karlsruhe Institute of Technology, Eaaenstein-Leopoldshafen	**Shape and Size Factors in Conventional (SPS) and Free Pressureless (FPSPS) Spark-Plasma Sintering** E. Olevsky (Sp), C. Garcia, E. Khaleghi, W. Bradbury, W. Li, R. German, San Diego State University (USA)	
09:55	**A Continuum Damage Model for Ceramic Materials Under thermal Shock Loading Conditions** D. Henneberg (Sp), A. Ricoeur, University of Kassel (Germany)	**In-Situ Thin Film and Nano Structure Characterizations at ROBL** C. Baehtz (Sp), N. Jeutter, J. Grenzer, J.V. Borany, Research Center Dresden-Rossendorf (Germany)	**Electric Field Assisted Sintering of Semiconductor Zinc Oxide** O. Guillon (Sp), Technische Universität Darmstadt (Germany); M.J. Hoffmann, Karlsruhe Institute of Technolgy (Germany); O. Guillon, Technische Universität Darmstadt (Germany)	**How Does Topography influence Cellular Behavior? – Screening with High Volume Manufactured Substrates** P. Kluger (Sp), Fraunhofer Institute for Interfacial Engineering and Biotechnology, Stuttgart (Germany); F. Petzsch, Fraunhofer Institute for Production Technology IPT, Aachen (Germany) et al.
10:15	**Crack Propagation in Novel Alumina-Based Refractories** E. Skiera (Sp), J. Malzbender, Research Centre Juelich, Jülich (Germany); J. Mönch, Forschungszentrum Jülich GmbH (Germany); S. Dudczig, C.G. Aneziris, Technical University of Freiberg (Germany) et al.	**Growth Kinetics and Mechanisms of Ultrathin Zr-Oxide Films formed by Thermal Oxidation of Single-Crystalline Zr Surfaces** G. Bakradze (Sp), L.P.H. Jeurgens, E.J. Mittemeijer, Max Planck Institute for Metals Research, Stuttgart (Germany)	**Determination of the Thermal and Athermal Densification Mechanisms of Sintering Using Varied Heating Rates With and Without an Applied Field** T. Holland (Sp), T. Tran, J. Groza, University of California, Davis (USA); U. Anselmi-Tamburini, Universita' di Pavia (Italy); A. Mukherjee, University of California, Davis (USA)	**Nano-Mechanical and Morphological characterization of Novel Silk Protein Layers** F. Junghans, M. Menzel, U. Hirsch, W. Hauptmann, U. Conrad, A. Heilmann, U. Spohn (Sp), Fraunhofer Institute for Mechanics of Materials, Halle (Germany)
10:35	**Self-Flow Carbon-Free Magnesia Castable Pore Structure Engineering** W.M. Silva (Sp), Magnesita Refratários S.A., Contagem (Brazil); S. Dudczig, C. Aneziris, TU-Bergakademie Freiberg (Germany); L.R.M. Bittencourt, Magnesita Refratários S.A., Contagem (Brazil)	**Influence of the Deposition Current on the Microstructure and the GMR Properties of Electrodeposited Co/Cu Multilayers** T. Schucknecht (Sp), C. Schimpf, V. Klemm, D. Rafaja, Technical University of Freiberg (Germany); L. Péter, Hungarian Academy of Science, Budapest (Hungary)	**Spark Plasma Sintering and Conductivity Measurements of a Mixed Conductive Ceramic, YZrTiO** L. Ramond (Sp), G. Bernard-Granger, A. Principalle, C. Guizard, Saint-Gobain CREE, Cavaillon (France)	**Cell Architecture-Cell Function Dependencies on Micro-Arrays with Cubic Pillar Structures** C. Matschegewski, S. Staehlke, University of Rostock (Germany); R. Loeffler, University of Tübingen (Germany); R. Lange, University of Rostock (Germany) et al.

Symposium: B5 Room: A5	Symposium: B1 Room: A03	Symposium: C3 Room: A04	
New Methods in Materials Design	**Intermetallic Aluminides: Physical Metallurgy and Processing**	**Joining**	
Modelling Methods	Alloy Design and Processing	Microstructure and Mechanical Properties of Welds	
H.-J. Hoffmann, Technische Universität Berlin (Germany)	F. Appel, GKSS-Forschungszentrum Geesthacht GmbH (Germany)	U. Prahl, RWTH Aachen (Germany)	
Ordering Principles and Stabilities in Manganese-Rich Steels J. von Appen (Sp), B. Eck, R. Dronskowski, RWTH Aachen University (Germany)	**Microstructure and Mechanical Properties of Beta-Solidifying TNM-Based Alloys: Further Alloy Composition and Heat Treatment Improvements** V. Imayev (Sp), R.M. Imayev, T. Oleneva, T. Khismatullin, Russian Academy of Science, Ufa (Russian Federation); R. Gaisin, V. Günther, GfE Metalle und Materialien GmbH, Nürnberg (Germany)	**Characteristics of the Mechanical Property in the 800 MPa Grade Weld Metal According to Microstructure** J. Lee (Sp), S. Kim, Hanyang University, Seoul (Korea, Republic); B. Yoon, Research Institute of Industrial Science and Technology, Gyeongbuk (Korea, Republic); H. Jung, POSCO Technical Research, Gyeongbuk (Korea, Republic) et al.	**09:15**
Ab Initio Interfacial Austenite/Martensite Energies for Accurate Deformation Mechanism Maps in High-Mn Steels A. Dick (Sp), T. Hickel, J. Neugebauer, Max Planck-Institute for Iron Research GmbH, Düsseldorf (Germany)	**Microstructural Refinement of Cast Beta-Solidifying Gamma Titanium Aluminide Alloys** M. Oehring (Sp), A. Stark, J. Paul, S. Eggert, F. Pyczak, GKSS Research Centre, Geesthacht (Germany)	**Arc Joining of Steel-Aluminium-Tailored-Hybrid-Blanks** M. Steiners (Sp), U. Reisgen, L. Stein, RWTH Aachen University (Germany)	**09:35**
The Thermodynamics of Fe-Based Compounds Derived From First Principles T. Hickel (Sp), F. Körmann, A. Dick, J. Neugebauer, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany)	**Development of a Centrifugal Investment Casting Technology for Manufacturing of Titanium Aluminide Low Pressure Turbine Blades** O. Kättlitz (Sp), J. Aguilar, Access e.V., Aachen (Germany)	**Corrosion Behaviors of Titanium/Steel Brazed Joints Produced by Silver-Based Filler Metal** A. Elrefaey (Sp), L. Wojarski, W. Tillmann, University of Dortmund (Germany)	**09:55**
Grain Boundary Migration by Molecular-Dynamics Simulation J. Zhou (Sp), V. Mohles, G. Gottstein, RWTH Aachen University (Germany)	**Up-Scalin Gamma TiAl Component Size – a Novel Solution** J.D.H. Paul (Sp), U. Lorenz, M. Oehring, F. Appel, GKSS Research Centre, Geesthacht (Germany)	**Impact of Technologically Generated Hardphase Degradation on the Wear Behaviour of an MMC** C. Katsich (Sp), E. Badisch, AC2T Research GmbH, Wiener Neustadt (Austria)	**10:15**
Dislocation Density-Based Constitutive Model for TWIP Steel D. Steinmetz (Sp), P. Eisenlohr, F. Roters, Max Planck Institute for Iron Research, Duesseldorf (Germany)	**ECAP of NiAl** W. Skrotzki (Sp), R. Chulist, B. Beausir, Technische Universität Dresden (Germany); M. Hockauf, Technical University of Chemnitz (Germany)	**Self-Brazing Aluminium-Clad Steel** M. Ostafin (Sp), M. Balkenhol, J. Erlemeyer, M. Kähler, Wickeder Westfalenstahl GmbH (Germany)	**10:35**

	Symposium: B3 Room: A1	Symposium: D1 Room: A2	Symposium: C4 Room: A3	Symposium: F3 Room: A4
	Refractory Materials	**Microstructure Characterisation**	**Additive Manufacturing and Field Assisted Sintering Techniques**	**Interfaces**
	Refractory Materials	Interfaces and Nanocomposites	FAST/Additive Manufacturing	Smart Approaches to Biomaterials Design
	P. Quirmbach, Deutsches Institut für Feuerfest und Keramik GmbH, Bonn (Germany)	C. Baehtz, Forschungszentrum Dresden-Rossendorf e.V. (Germany)	J. Stampfl, Technische Universität Wien (Austria)	T. Keller, Friedrich-Schiller-Universität Jena (Germany)
11:20	**Tape Casting of Refractory Oxides and Manufacture of Multilayer Structures** I. Götschel (Sp), University of Erlangen-Nürnberg (Germany); Y. Hayashi, Nagoya Institute of Technology, (Japan); A. Roosen, University of Erlangen-Nürnberg (Germany)	**The Hierarchical Microstructure of the Interface Region Formed during Explosion Joining of Ti to Low Carbon Steel** J. Song (Sp), A. Kostka, D. Raabe, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany); M. Veehmayer, Dynamic Materials Corporation GmbH, Burbach (Germany)	**Keynote Lecture** **Benefits and Challenges Related to Sintering upon External and Internal Electromagnetic Field Assistance** M. Willert-Porada, University of Bayreuth (Germany)	**Highlight Lecture** **Radiation-Functionalisation Surfaces for Taylored Cell-Biomaterial Interaction** G. Marletta, University of Catania (Italy)
11:40	**Novel Alumina-Mullite Materials for Refractory Applications** V.K. Atanga (Sp), Otto-von-Guericke-University of Magdeburg (Germany); V. Wilker, M. Michailov, M. Wolf, Brandenburg University of Technology, Cottbus (Germany); M. Scheffler.	**Internal Stresses and Thermal Fatigue Damage in Monofilament Reinforced Copper Composites for Fusion Reactor Applications** M. Schöbel (Sp), H.P. Degischer, Vienna University of Technology (Austria); V. Paffenholz, IPP Garching (Germany); R. Wimpory, HZB Wannsee (Germany); M. Di Michiel, ESRF Grenoble (France)		**Fabrication of Open Porous Calcium Phosphate/Protein Scaffolds in a One-Step-Process** B. Müller (Sp), L. Treccani, R. Rezwan, University of Bremen (Germany)
12:00	**Hydrogen Corrosion of Shaped Refractories: an Approach for Estimation of Service Life from Lab Scale Trials** A. Sax (Sp), University of Koblenz-Landau (Germany); S. Clasen, Forschungsgemeinschaft Feuerfeste e.V., Bonn (Germany); P. Quirmbach, University of Koblenz-Landau (Germany)	**Three-Dimensional Atom Probe Characterization of Nano-Sized Precipitates in a Mn-Containing Lean Maraging Steel** J. Millán (Sp), D. Ponge, P. Choi, O. Dimitrieva, D. Raabe, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany)	**Field-Assisted Sintering of Nanometric Particles in the Transmission Electron Microscope** T. Holland (Sp), A.M. Thron, A.K. Mukherjee, K. van Benthem, University of California, Davis (USA)	**Synthesis and Characterization of Iron Oxide Nanoparticles and Investigation of their Uptake by Cultured Brain Astrocytes** M. Hohnholt (Sp), M. Geppert, University of Bremen (Germany); K. Thiel, I. Grunwald, Fraunhofer Institute for Manufacturing Technology and Applied Materials Research, Bremen (Germany); J. von Byern, University of Vienna
12:20	**Microstructure Analysis of Tungsten Materials Produced by Different Fabrication Routes** T. Scherer, U. Jäntsch, Karlsruhe Institute of Technology (Germany); C. Kübel (Sp), Karlsruher Institute of Technology, Eggenstein-Leopoldshafen (Germany); M. Rieth, Karlsruhe Institute of Technology (Germany)	**Diffusion of Hafnium in SiCO/Hafnia Nanocomposites Triggered by the Phase Separation Process of SiCO** K. Nonnenmacher (Sp), H.-J. Kleebe, Technische Universität Darmstadt (Germany)	**Effect of Microwave Heating on Initial Stage of Microwave Sintering for Metals** D. Demirkyi (Sp), Frantsevich Institute for Problems in Material Science, Kiev (Ukraine); D. Agrawal, The Pennsylvania State University (USA); A. Ragulya, Frantsevich Institute for Problems in Material Science, Kiev (Ukraine)	**Wettability of Plant Surfaces and Their Underlying Surface Sculptures** K. Koch, Rhine-Waal University of Applied Sciences, Kleve (Germany)
12:40	**Fracture and Brittle-to-Ductile Transition in Tungsten Single and Polycrystals** A. Hartmaier (Sp), X.H. Zeng, Ruhr-University Bochum (Germany); D. Rupp, S.M. Weygand, Karlsruher Institute of Technology (Germany)	**On the Formation of Intermetallic Phases during Interdiffusion Reactions between Low Carbon Steel and Aluminium Alloys** H. Springer (Sp), A. Kosta, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany); E.J. Payton, Ruhr University of Bochum (Germany); D. Raabe, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany) et al.	**Influence of Shaped Metal Deposition Parameters on the Morphology and Mechanic Properties of Ti-6Al-4V Components** B. Baufeld (Sp), Catholic University of Leuven (Belgium); R. Gault, University of Sheffield (UK); O. van der Biest, Catholic University of Leuven (Belgium)	

Symposium: B5 Room: A5	Symposium: B1 Room: A03	Symposium: C3 Room: A04	
New Methods in Materials Design	**Intermetallic Aluminides: Physical Metallurgy and Processing**	**Joining**	
Materials Processing	Characterisation	Electron Beam Welding, Resistance Spot Welding and Residual Stresses	
W. Bleck, RWTH Aachen (Germany)	M. Loretto, University of Birmingham (UK)	J. Ellermeier, Technische Universität Darmstadt (Germany)	
Smelting and Solidification of Steels in the System Fe-Mn-C D. Senk (Sp), A. Lob, RWTH Aachen University (Germany)	**In-Situ Characterization of Phase Transformations and Thermo-Mechanical Processing in Titanium Aluminium Alloys** K.-D. Liss (Sp), Australian Nuclear Science and Technology Organisation, Kirrawee DC /Sydney (Australia); R. Dippenaar, University of Wollongong (Australia); H. Clemens, Montanuniverität, Leoben (Germany)	**Analysis of Warpage Caused by Electron Beam Welding of Large Components** G. Fischer (Sp), T. Krüssel, pro-beam, Halle (Germany); A. Prihodovsky, V. Ploshikhin, A. Llin, R. Logvinov, Neue Materialien Bayreuth GmbH (Germany)	**11:20**
Forming of Two High-Manganese TRIP and TWIP Steels B. Wietbrock (Sp), G. Hrt, RWTH Aachen University (Germany)	**Deformation Mechanisms in Micron-Sized PST-TiAl Compression Samples: Experiment and Model** M. Rester (Sp), F.D. Fischer, University of Leoben (Austria); C. Kirchlechner, Austrian Academy of Sciences, Leoben (Austria); T. Schmölzer, H. Clemens, University of Leoben (Austria) et al.	**Electron Beam Welding and Brazing of Titanium-Aluminides with High Niobium Content** A. Backhaus (Sp), U. Reisgen, S. Olschok, RWTH Aachen University (Germany)	**11:40**
Recrystallization Kinetics and Texture Evolution during Annealing in Cold Rolled High Mn Austenitic Steels Y. Lü (Sp), D.A. Molodov, G. Gottstein, RWTH Aachen University (Germany)	**Dislocation – Twin Interaction in Gamma-TiAl** Y.-T. Chiu (Sp), University of Birmingham (UK); P. Veyssière, LEM, CNRS/ONERA, Chatillon Cedex (France)	**Resistance Spot Welding and Weldbonding of Advanced High Strength Steels** G. Weber (Sp), S. Bauser, H. Gaul, L.-A. Pepke, M. Rethmeier, Federal Institute for Materials Research and Testing, Berlin (Germany)	**12:00**
Load Adapted Design of Steel Car Body Components by Local Laser treatment A. Jahn (Sp), Fraunhofer Institute for Material and Beam Technology, Dresden (Germany); G. Wunderlich, Volkswagen Sachsen GmbH, Zwickau (Germany); B. Donat, IMA GmbH, Dresden (Germany)	**Surface Topographies after Nanoindentation and their Utilization to Quantify the Plastic Anisotropy of Gamma-TiAl on the Single Crystal Length Scale** C. Zambaldi (Sp), F. Roters, S. Zaefferer, D. Raabe, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany)	**The Estimation of the Contact Interface Temperature during Resistance Spot Welding of Zinc Coated Steels Using Numerical Technique** M. Galler (Sp), N. Enzinger, C. Sommitsch, Technical University of Graz (Austria)	**12:20**
Production of Biologically Inspired Sintered steel Parts via the Pressure Slip Casting process T. Burbach (Sp), RWTH Aachen University (Germany); K.D. Toews, DORST Technologies, Kochel am See (Germany); R. Diemer, Feinguss Blank, Riedlingen (Germany); A. Bührig-Polaczek, RWTH Aachen Universitv (Germanv)	**Dislocation Dissociations in B2 Alloys** V. Paidar (Sp), ASCR, Prague (Czech Republic); Y.-S. Lin, M. Clark, V. Vitek, University of Pensilvania, Philadelphia (USA)	**Residual Stress and Fatigue in Laser Beam Welded T-Joints of Al Alloys for Aircraft Construction** P. Staron (Sp), F.S. Bayraktar, D. Schnubel, N. Huber, A. Schreyer, GKSS Research Centre, Geesthacht (Germany)	**12:40**

	Symposium: B6 Room: A1	Symposium: D1 Room: A2	Symposium: C4 Room: A3	Symposium: F3 Room: A4
	Mechanical Properties and Microstructure	**Microstructure Characterisation**	**Additive Manufacturing and Field Assisted Sintering Techniques**	**Interfaces**
	Non-Ferrous Alloys	Functionalised Bulk Materials	Additive Manufacturing	Surface Modification and Interfacial Reactions
	M. Krüger, Otto-von-Guericke-Universität Magdeburg (Germany)	D. Rafaja, TU Bergakademie Freiberg (Germany)	B. Baufeld, Katholieke Universiteit Leuven (Belgium)	N. Shirtcliffe, Nottingham Trent University (UK)
14:00	**Auger and Transmission Eletron Microscopy of Lead-Contaminated Aluminum Alloy AA6082** S. Oswald (Sp), T. Gemming, Leibniz Institute for Solid State and Materials Research Dresden (Germany); J. Aegerter, Hydro Aluminium Deutschland GmbH, Bonn (Germany); M.K. Schaper, TU Dresden (Germany)	**Effect of Grain Size and Finite Mobility of the Boundary Junctions on Grain Boundary Migration of Connected Granular Systems** L. Barrales-Mora (Sp), RWTH Aachen University (Germany); L.S. Shvindeleman, Russian Academy of Science, Chernogolovka (Russian Federation); G. Gottstein, RWTH Aachen University (Germany)	**Improved Production Rate in Additive Manufacturing with EBM MultiBeam™** U. Ackelid (Sp), M. Svensson, Arcam AB, Göteborg (Sweden)	**Metal Injection Moulding for Producing Stainless Steel and Titanium Implant Surfaces with Defined Micrometer and Submicrometer Structures for Enhanced Cell Performance** V. Friederici (Sp), P. Imgrund, Fraunhofer-Institute for Manufacturing Technology and Applied Materials Research, Bremen (Germany); A. Bruinink, C. Brose, M. Bitar, Empa Materials Science and Technology, St. Gallen
14:20	**The Effect of 3D Networks Formed by Aluminides and Eutectic Si on the High Temperature Strength of Cast Al-Si Piston Alloys** Z. Asghar (Sp), G. Requena, H.P. Degischer, Vienna University of Technology, Wien (Austria); E. Boller, European Synchrotron Radiation Facility, Grenoble (France)	**Sintering Mechanism of LiF Doped Magnesium Aluminate Spinel ($MgAl_2O_4$)** M.M. Müller (Sp), H.-J. Kleebe, Technische Universität Darmstadt (Germany)	**Three Dimensional Printing for the Manufacture of Ceramic Dental Prostheses** K. Haderk (Sp), H.-J. Richter, Fraunhofer IKTS, Dresden (Germany); A. Grzesiak, C. Graf, O. Refle, Fraunhofer Institute for Manufacturing Engineering and Automation IPA, Stuttgart (Germany)	**Cold Atmospheric Pressure Plasma for the Modification and Etching of Biomedical Relevant Surfaces** K. Fricke (Sp), K. Schröder, T. von Woedtke, K.-D. Weltmann, INP Greifswald e.V. (Germany)
14:40	**Structural Evolution of a Ti-Based Bulk Metallic Glass during Heating** N. Zheng (Sp), G. Wang, M. Stoica, M. Calin, N. Mattern, J. Eckert, Leibniz Institute for Solid State and Materials Research Dresden (Germany)	**Influence of Surface Condition on Hydrogen Environmental Ebrittlement of 304 Austenitic Stainless Steels** M. Martin (Sp), Ruhr-University of Bochum (Germany); S. Weber, Helmholtz Zentrum Berlin, Bochum (Germany); W. Theisen, Ruhr-University of Bochum (Germany)	**Additive Manufacturing Technologies for 3D Fabrication of Biocompatible and Biodegradable Photopolymers** M. Schwentenwein (Sp), C. Heller, X. Qin, Vienna University of Technology (Austria); F. Varga, Ludwig Boltzmann Institute of Osteology Hanusch Hospital, Vienna (Austria) et al.	**Surface Biofunctionalisation: Printing of Biological Materials** I. Grunwald (Sp), I. Wirth, E. Groth, J. Schumacher, M. Maiwals, V. Zöllmer, M. Busse, Fraunhofer Institute for Manufacturing Technology and Applied Materials Research, Bremen (Germany)
15:00	**Development and Characterization of Gamma Prime Hardened Cobalt-Base Superalloys** A. Bauer (Sp), University of Erlangen-Nürnberg (Germany); S. Neumeier, University of Cambridge (UK); F. Pyczak, GKSS Research Centre Geesthacht (Germany); M. Göken, University of Erlangen-Nürnberg (Germany)	**Nanocrystalline Metal Hydrides Used as Hydrogen Storage Materials Studied with Photons and Neutrons** P.K. Pranzas (Sp), U. Bösenberg, F. Karimi, M. Münning, O. Metz, H.-W. Schmitz, F. Beckmann, GKSS Research Centre, Geesthacht (Germany); M. Dornheim, A. Schreyer, GKSS Research CentreA., Geesthacht (Germany) et al.	**Development of a two Photon Polymerization setup for Structuring optical Waveguides with High Throughput** K. Stadlmann (Sp), K. Cicha, J. Kumpfmüller, R. Liska, J. Stampfl, Vienna University of Technology, Wien (Austria); U. Hinze, B. Chichkov, Laser Zentrum Hannover (Germany)	**In-Situ-ATR-FTIR Spectroscopy: A Versatile Tool to Address Interfacial Problems in Life Sciences** M. Müller (Sp), W. Ouyang, B. Keßler, Leibniz Institute of Polymer Research Dresden (Germany)
15:20	**High Strength of Low Resistivity CuAg Tapes** J. Freudenberger (Sp), A. Gaganov, J. Lyubimova, H. Klauss, L. Schultz, Leibniz Institute for Solid State and Materials Research Dresden (Germany)	**On the Structures of Metastable Mixed Nanocrystals** D. Wang (Sp), Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen (Germany); J. Suffner, Technische Universität of Darmstadt (Germany) et al.		**Electrochemical Interaction at the Interface of Ti-45wt.%Nb in Simulated Physiological Media** D. Zander (Sp), Technical University of Dortmund (Germany); M. Jendras, Leibniz University of Hannover, Garbsen (Germany)

Symposium: B5 Room: A5	Symposium: B1 Room: A03	Symposium: C3 Room: A04	
New Methods in Materials Design	**Intermetallic Aluminides: Physical Metallurgy and Processing**	**Joining**	
Characterization Methods	Mechanical Performance	Cored Filler Wire Development, Fatigue and Cracking	
F. Roters, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf (Germany)	J.D. Paul, GKSS-Forschungszentrum Geesthacht GmbH (Germany)	M. Galler, Technische Universität Graz (Austria)	
Development of New Materials Using High-Throughput Experimentation A. Ludwig, Ruhr-University Bochum (Germany)	**Potential and Implementation Status of TiAl Alloys in Aero-Engine Application** D. Roth-Fagaraseanu, S. Gebhard (Sp), F. Turley, Rolls-Royce Deutschland Ltd. & Co. KG, Blankenfelde-Mahlow (Germany)	**Development of New Ferritic Stainless Steel Filler Wire for Welding Automotive Exhaust Manifolds** V. Villaret (Sp), F. Deschaux-Beaume, S. Rouquette, G. Fras, Université Montpellier 2, Nimes Cedex (France); J.-M. Fortain, AIR LIQUIDE CTAS, St. Ouen l'aumôn (France); F. Januard, AIR LIQUIDE CTAS, St Ouen l'aumône	**14:00**
Prediction of Deformation Mechanism using Thermodynamics-Based SFE Maps in High-Mn Steels Systems A. Saeed-Akbari (Sp), U. Prahl, W. Bleck, RWTH Aachen University (Germany)	**Surface Effects on the Mechanical Properties of Gamma Titanium Aluminides** J. Lindemann (Sp), M. Glavatskikh, Brandenburg University of Technology, Cottbus (Germany); C. Leyens, Technische Universität Dresden (Germany)	**Influence of an Increasing Al/O-Ratio on the Morphology of Non-Metallic Inclusions in High-Strength Steel Welds** W. Vanovsek (Sp), C. Bernhard, Leoben University (Austria); M. Fiedler, Böhler Welding Group (Austria); G. Posch, Böhler Welding Group (Austria); C. Strauß, Böhler Welding Group, (Austria)	**14:20**
Elastic Properties of Fe-Mn Alloys Probed by Theory and Experiment T. Gebhardt (Sp), D. Music, J.M. Schneider, RWTH Aachen University (Germany)	**Atomic Level Observation of Mechanical Damage in Shot Peened TiAl** F. Appel (Sp), U. Lorenz, GKSS Research Centre, Geesthacht (Germany); J. Lindemann, M. Glavatskikh, Technical University of Brandenburg Cottbus (Germany)	**Characteristics of the Hot Ductility and Weldability of High Manganese Steel** J. Yoo (Sp), S. Kim, J. Lee, C. Lee, Hanyang University, Seoul (Korea, Republic)	**14:40**
Microstructural Evolution of a Precipitation Hardening Stainless Steel studied by In-Situ and Ex-Situ Transmission Electron Microscopy E.-M. Nick (Sp), A. Reinholdt, M. Müller, T.E. Weirich, W. Bleck, RWTH Aachen University (Germany)	**Thermo-Mechanical Fatigue Behavior of the Intermetallic Gamma-TiAl Alloy TNB-V5 with Different Microstructure** H. Biermannn (Sp), Technical University of Freiberg (Germany); M. Roth, IAV Chemnitz (Germany)	**Revealing, Typifying and Assessing "Non-Predictable Flaws", Crack Type IV, by Quantitative Acoustic Emission Non-Destructive Inspection, Photo-Elastic and Metallurgical Methods** G. Muravin (Sp), I. Mizrahi, Margan Physical Diagnostics Ltd, Netanya (Israel); N. Frage, B. Gurion, University of the Negev, Beer Sheva (Israel)	**15:00**
X-Ray and Electron Diffraction Analysis of Bainitic Structure in Steels Obtained by Continuously Cooling Technique M. Masimov (Sp), N. Kwiaton, Salzgitter Mannesmann Forschung GmbH (Germany)	**Thermomechanical and Isothermal Fatigue of the TiAl-Base Intermetallic Alloy TNB-V2** A. El Chaikh (Sp), T. Heckel, University of Siegen (Germany); F. Appel, GKSS Forschungszentrum Geestacht (Germany); H.-J. Christ, University of Siegen (Germany)	**Application of Fatigue Approaches on Fillet Welds of High-strength Steel** M. Stoschka (Sp), M. Leiter, T. Fössl, University of Leoben (Austria); H. Leitner, Komptech Umwelttechnik GmbH, Frohnleiten (Austria); W. Eichlseder, University of Leoben (Austria)	**15:20**

Topic: A - Functional Materials

Intelligent Materials

A2-200 **Piezoelectric Membrane Arrays and Field Emission Tips for High Temperature Sensors**
J. Sauerwald (Sp), D. Richter, H. Fritze, Technical University of Clausthal, Goslar (Germany)

A2-298 oral poster **Component-Integrated NOx-sensors with Doped Semiconducting Metal-Oxide Electrodes for Control and Monitoring of Exhaust Emission Reduction**
A. Yüce (Sp), C.G. Mondragon-Rodriguez, B. Saruhan, German Aerospace Centre, Köln (Germany)

A2-319 oral poster **Defect Structure in Sr(Fe,Ti)O3-x Materials for Temperature-Independent Oxygen Sensors**
R.-A. Eichel (Sp), M.D. Drahus, University of Freiburg (Germany)

A2-377 **Magnetic Field Enhanced Crystallisation of PZT-CFO Composites**
A. Piorra (Sp), Inorganic Functional Materials, Kiel (Germany); M. Wuttig, University of Maryland (USA); E. Quandt, Inorganic Functional Materials, Kiel (Germany)

A2-383 **Electric Field-Dependent Structure of BNT-BKT-KNN Lead-Free Piezoceramics**
E.-M. Anton, Technical University of Darmstadt (Germany)

A2-453 **High-Temperature Characterization of Langasite Based Piezoelectric Components by Laser Doppler Vibrometry**
S. Schmidtchen (Sp), J. Sauerwald, H. Xia, H. Fritz, Clausthal University of Technology, Goslar (Germany)

A2-466 oral poster **Energy Loss Magnetic Chiral Dichroism: A Tool for the Investigation of Magnetism on the Nanoscale**
I. Ennen (Sp), S. Löffler, M. Stöger-Pollach, P. Schattschneider, Vienna University of Technology, Wien (Austria)

A2-470 **Development of Freestanding, Martensitic, Single Variant Fe70Pd30 Thin Films for Strain Sensor Applications**
C. Bechtold (Sp), Christian-Albrechts-University of Kiel (Germany); J. Buschbeck, IFW Dresden (Germany); A. Lotnyk, B. Erkartal, Christian-Albrechts-University of Kiel (Germany); S. Hamann, Ruhr University of Bochum (Germany) et al.

A2-480 **Elastic High Temperature Stable Macroscopically Expanded Nanostructured Materials**
Y.K. Mishra, S. Kaps, T. Preusse, R. Adelung (Sp), CAU Kiel (Germany)

A2-502 **Mixed Metal Fluorides as Derived Electrolyte in Solid State Fluoride-Ion Battery**
D. Wang (Sp), V. Sepelak, H. Hahn, M. Fichtner, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen (Germany)

A2-566 **Ferromagnet-Semiconductor Hybrid Structures: Relation Between Structure and Magnetism from the Ab Initio Point of View**
H.C. Herper (Sp), P. Entel, University of Duisburg-Essen (Germany)

A2-576 **Magnetic Nanocomposite Preparation, Characterization and Applications**
A. Kulkami, V. Zaporojtchenko, T. Strunskus (Sp), F. Faupel, E. Quandt, F. Hettstedt, R. Knöchel, V.S.K. Chakravadhanula, L. Kienle, Christian-Albrechts-University of Kiel (Germany)

A2-585 **Magnetoelectric FeCoSiB-AlN Thin Film Composites for Magnetic Field Sensor Applications**
H. Greve (Sp), E. Woltermann, Christian-Albrechts-University of Kiel (Germany); H.-J. Quenzer, B. Wagner, Fraunhofer ISIT, Itzehoe (Germany); E. Quandt, Christian-Albrechts-University of Kiel (Germany)

A2-594 **Oxygen Sensing and Control and its Combination with Electromagnetic Levitation**
J. Brillo, I. Egry, German Aerospace Center, Cologne (Germany); M. Schulz (Sp), H. Fritze, Technical University of Clausthal, Goslar (Germany)

A2-635 **FeCo/TiN Multilayer Thin Films with Optimized Mechanical and Soft Ferromagnetic Behavior---Growth Conditions, Microstructure and Macroscopic Properties**
C. Klever (Sp), K. Seeman, M. Stüber, S. Ulrich, H. Leiste, Karlsruher Institute of Technology, Eggenstein-Leopoldshafen (Germany)

A2-707 **Resistive Switching in Ag-Nb2O5-Ag-Structures**
M. Franke (Sp), T. Mikolajick, Technical University of Freiberg (Germany)

A2-711 oral poster **Review: Lean NOx Trap Materials as Sensitive Elements for NOx Sensors**
A. Geupel (Sp), R. Moos, University of Bayreuth (Germany)

A2-751 **Design, Simulation and Fabrication of Langasite Cantilever Arrays**
J. Sauerwald (Sp), Technical University of Clausthal, Goslar (Germany); A. Brose, B. Schmidt, E. Ansorge, University of Magdeburg (Germany)

A2-752 **Temperature Sensors in Multilayer Ceramic**
L. Rebenklau (Sp), Fraunhofer-Institut für Keramische Technologien und Systeme, Dresden (Germany); U. Partsch, M. Kusnezoff, A. Michaelis, Fraunhofer Institute for Ceramic Technologies and Systems, Dresden (Germany)

A2-763 oral poster **Depth-Selective Electronic and Magnetic Properties of the Heusler System Co2MnSi at an MgO Tunnel Barrier**
B. Krumme, University of Duisburg-Essen (Germany)

Mesoporous

A3-67 **Experimental Study of the Porous Structure of Cap Rocks: Adsorption of Nitrogen (77 K) and Mercury Porosimetry**
M. Schmitt (Sp), C.P. Fernades, J.A.B. Cunha Neto, F.G. Wolf, Federal University of Santa Catarina, Florianópolis / SC (Brazil) et al.

A3-154 oral poster **Structure Investigation of Mixed Silica-Titania Oxide Materials via In-Situ SAXS Measurements**
J. Akbarzadeh (Sp), University of Vienna (Austria); S. Flaig, University of Ulm (Germany); H. Peterlik, University of Vienna (Austria); N. Hüsing, University of Ulm, (Germany)

A3-213 **Facile and Template-free Synthesis of Mesoporous Anatase TiO2 for High-Efficiency Dye-Sensitized Solar Cells**
W. Shao (Sp), F. Gu, East China University of Science and Technology, Shanghai (China); C. Li, Ludwig-Maximilians University, München (Germany)

A3-246 oral poster **Catalytic Applications of np-Au**
A. Wittstock (Sp), S. Röhe, V. Zielasek, Universität Bremen (Germany); J. Biener, Lawrence Livermore National Laboratory, Livemore (USA); C. Friend, Havard University, Cambridge (USA); M. Baumer, Universität Bremen (Germany)

Topic: A - Functional Materials

A3-345 **Computational Fluid Dynamic (CFD) Simulations of Liquid Steel Flow in Ceramic Foam Structures**
J. Klostermann (Sp), R. Schwarze, C. Brücker, Technical University of Freiberg (Germany)

A3-655 oral poster **Surface Chemistry on Nanoscale Materials**
A. Hamza, M. Biener (Sp), Lawrence Livermore National Laboratory (USA)

Polymer Nanocomposites

A4-13 **Investigation of a Chemical Surface Modification on the Distribution and Adhesion of an Adhesion Promoter in Porous Ceramic Precursors**
V. Steier (Sp), C. Koplin, A. Kailer, Fraunhofer Institute for Mechanics of Materials, Freiburg (Germany); H. Reinecke, University of Freiburg (Germany)

A4-42 **Tribological Characteristics of Epoxy Based Nano-Composites under Dry Sliding and Water Lubricating Conditions**
S. Mohamed, T. Mahmoud, Benha University, Shubra (Egypt); I. El Mahallawi (Sp), British University in Egypt, El Sherouk City (Egypt); T. Khalifa, Benha University, Shubra (Egypt)

A4-138 **Polyphehylanthranilic Acid - Fe3O4 Nanocomposites**
G. Karpacheva (Sp), S. Ozkan, Russian Academy of Sciences, Moscow (Russian Federation); N. Perov, M. V. Lomonosov Moscow State University (Russian Federation)

A4-217 **Modelling Stiffness of Nano Layered Silicate Modified PA 6 vVa Analytical Composite Models and FEM Micromechanical Modelling**
J. Huang (Sp), U. Weber, S. Schmauder, S. Geier, University of Stuttgart (Germany)

A4-257 **Highly filled Anisotropically Conductive Composites of Exfoliated Graphite**
G. Öztürk (Sp), G.P. Hellmann, Deutsches Kunststoff-Institut, Darmstadt (Germany)

A4-354 **Conductive Plastics with Very Little Carbon Black**
D. Ulbricht (Sp), G.P. Hellmann, Technische Universität Darmstadt (Germany)

A4-371 **Effect of Nanocarbon Filler Type on Character of Nanocarbon-Polymer Composite Formation**
L.L. Vovchenko, Kyiv Taras Shevchenko National University, Kiev (Ukraine); A. Lazarenko (Sp), Technical University of Ilmenau, Kiev (Ukraine) et al.

A4-416 **Dewetting Suppression of Polystyrene Thin Film Using Dendrimer Additives**
N. Pangpaiboon (Sp), N. Traiphol, R. Traiphol, Chulalongkorn University, Bangkok (Thailand)

A4-424 **Preparation and Thermal Analysis of Poly(methyl Methacrylate)/Montmorillonite Nanocomposites**
A. Lis (Sp), J. Laska, AGH University of Science and Technology, Krakau (Poland)

A4-567 **Nanocomposite Films with Embedded Silver Nanoparticles for Antimicrobial Applications**
T. Strunskus (Sp), T. Hrkac, V.S.K. Chakravadhanula,, N. Wohner, V. Zaporojtchenko, R. Podschuh, D. Garbe-Schönberg, F. Faupel, Christian-Albrechts-University of Kiel (Germany)

A4-591 **Piezoelectricity in Thermally Evaporated Thin Films of Nylon 11**
K. Meurisch, V. Zaporojtchenko, T. Strunskus (Sp), F. Faupel, Christian-Albrechts-University of Kiel (Germany)

A4-652 **Irradiation Stimulated Molecular Structure Change and Resistivity of Polyethylene Composites**
U. Gafurov (Sp), N. Mukhtarova, L. Kabisova, Institute of Nuclear Physics, Tashkent (Uzbekistan); E. Vlasova, Institute of Macromolecular Compounds, Saint-Petersburg (Russian Federation)

A4-755 **Preparation and Properties of Composite Films of Terthiophene and Titanium Nanoclusters**
M. Drabik (Sp), J. Matousek, J. Tousek, J. Touková, H. Biederman, Charles University in Prague (Czech Republic)

Topic: B - Structural Materials

Intermetallic Aluminides: Physical Metallurgy and Processing

B1-53 **Gamma Titanium Aluminide Parts Manufactured by Electron Beam Melting**
U. Ackelid, Arcam AB, Göteborg (Sweden)

B1-57 **Numerical Simulation of the Fracture in Lamellar Ti-Al Crystals**
P. Leiva-Ronda (Sp), K. Durst, M. Göken, University Erlangen-Nuremberg (Germany)

B1-269 **A Preliminary Study on the Microstructure and Mechanical Properties of the Intermetallic Alloys Ti-38.5Al-xFe and Ti-38.5Al-y(Fe,Nb,B)**
R. Gaisin (Sp), V.M. Imayev, R.M. Imayev, Russian Academy of Sciences, Ufa (Russian Federation); H.-J. Fecht, Ulm University, (Germany)

B1-272 **A Novel Design Approach of TiAl Alloys Based on Modulated Multiphase Structures**
F. Appel (Sp), J.D.H. Paul, M. Oehring, GKSS Research Centre, Geesthacht (Germany)

B1-299 **Thermodynamic Glide Parameters and Internal Stresses of TiAl Alloys**
R. Hoppe (Sp), F. Appel, GKSS Research Centre, Geesthacht (Germany)

B1-322 **Mechanical and Electrochemical Characterization of Model S-Phase (Al2CuMg) Particles in AA2024-T3**
C. Senöz (Sp), Max Planck Institute for Iron Research, Düsseldorf (Germany); A. Maljusch, Ruhr University, Bochum (Germany); S. Klemm, M. Rohwerder, Max Planck Institute for Iron Research, Düsseldorf (Germany) et al.

B1-335 **Fabrication of TiNi/AlNi/TiC reinforced Aluminium Matrix Composites by Laser melt Injection**
S.T. Camagu (Sp), S.L. Pityana, G. Govender, L. Rampedi, CSIR, Pretoria (South Africa)

B1-338 **Microstructural influence on Mechanical Behavior of a Duplex type TiAl Alloy: Experimental and Numerical Investigation**
M.R. Kabir (Sp), L. Chemova, M. Bartsch, German Aerospace Center, Köln (Germany)

B1-342 **Particle Analyses of Free-Machining Titanium Alloys**
J. Laukart (Sp), C. Siemers, J. Rösler, Technical University of Braunschweig (Germany)

B1-517 **Mocrostructure Evolution of Steel and Iron Eroded by Liquid Aluminium Alloy**
G. Pasche, A. Hessler-Wyser (Sp), R. Schäublin, Ecole Polytechnique Fédérale de Lausanne (Switzerland)

Topic: B - Structural Materials

B1-534 **Ab Initio Study of Elastic Properties in Fe3Al-Based Alloys**
M. Friak (Sp), J. Deges, F. Stein, M. Palm, G. Frommeyer, J. Neugebauer, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany)

B1-593 **TEM Studies of the Ternary Ti36Al62Nb2 Alloys**
V.S.K. Chakravadhanula (Sp), Christian-Albrechts-University of Kiel (Germany); K. Kelm, German Aerospace Center, Köln (Germany); D. Sturm, University of Magdegurg, Magdeburg (Germany) et al.

B1-660 **Ferromagnetic Shape Memory Alloy Co38Ni33Al29 - Crystal Growth and Structure Evolution**
J. Kopecek (Sp), M. Jaro ová, D. Majtás, J. Drahokoupil, S. Sedláková-Ignácová, P. Molnár, O. Heczko, Academy of Sciences, Prag (Czech Republic)

B1-664 **Application of Electrochemical Nanoindentation for Development of Hydrogen Resistant Ternary FeAl Intermetallic Alloys.**
A. Barnoush (Sp), M. Zamanzade, H. Vehoff, Saarland University, Saarbrücken (Germany)

B1-667 **New Intermetallic Ni3Al-Based Alloy for PREP-Process**
A. Logacheva (Sp), A. Beresnev, A. Logachev, Razumovsky, OAO Kompozit, Korolev (Russian Federation)

Modern Steels

B2-39 oral poster **Influence of the Martensite Formation on the Mechanical Properties of High Alloyed CrMnNi Steels**
A. Jahn (Sp), A. Kovalev, A. Weiß, P.R. Scheller, Technical University of Freiberg (Germany); S. Wolf, TU Bergakademie Freiberg (Germany); L. Krüger, Technical University of Freiberg (Germany) et al.

B2-155 oral poster **Research on Quality Improvement of Continuously Cast Billets Unalloyed and Low Alloyed Steels**
I. Butnariu, University Politehnica of Bucharest (Romania); I. Butnariu, Socesit Bucharest (Romania); D. Butnariu (Sp), University Princeton (USA)

B2-157 oral poster **High Quality Steel Production Using RH Degassing Process**
P. Wolinski (Sp), M. Warzecha, J. Jowsa, Czestochowa University of Technology (Poland)

B2-455 oral poster **Development and Characterization of Novel Corrosion-Resistent TWIP Steels**
S. Weber (Sp), Helmholtz-Zentrum-Berlin für Materialien und Energie GmbH, Berlin (Germany); L. Mujica, Max-Planck Institute of Iron Research GmbH, Düsseldorf (Germany); W. Theisen, Ruhr University Bochum (Germany)

Refractory Materials

B3-235 **Influence of Raw Materials on the Microstructure for ULCC Castables**
C. Liebrich, Technical University of Freiberg (Germany)

B3-351 **Thermomechanical Characterisation of Carbon-Containing Refractory Ceramics**
W. Zhang (Sp), O. Dreibati, M. Wolf, R. Ossenbrink, V. Michailov, Brandenburg University of Technology, Cottbus (Germany)

B3-373 **Modeling ofTthermal Induced Damage in Composite Materials**
D. Pilipenko (Sp), H. Emmerich, RWTH Aachen University (Germany)

B3-469 **Influence of the Composition and the Microstructure on the Radiative Properties of Low-Emitting Ceramics**
M.H. Keller (Sp), M.C. MC. Arduini-Schuster,, J. Manara, ZAE Bayern, Würzburg (Germany); G. Tschichholz, G. Steinborn, BAM Federal Institute for Materials Research and Testing, Berlin (Germany)

B3-630 **Material Properties of Alumina Ceramics with Titania and Zirconia Additions for Refractory Applications**
S. Dudczig (Sp), C.G. Aneziris, D. Veres, Technical University of Freiberg (Germany)

B3-634 **Refractory Reactions in Contact with High Manganese Alloyed TRIP-Steel**
W. Schärfl (Sp), C.G. Aneziris, H. Biermann, Technical University of Freiberg (Germany)

Functional Amorphous Materials and Glasses

B4-142 **Deformation Mechanisms in Amorphous-Crystalline Nanocomposites**
Y. Ritter (Sp), K. Albe, Technische Universität Darmstadt (Germany)

B4-423 **Amorphous Al-Based Anode Materials for Li-Ion Batteries**
F. Thoss (Sp), L. Giebeler, Technische Universität Dresden (Germany); S. Oswald, Leibniz Institute for Solid State and Materials Research Dresden (Germany); J. Eckert, Technische Universität Dresden (Germany) et al.

B4-702 **3D Fabrication of Bioactive Glass Implants**
R. Meszaros (Sp), A. Vander, L. Wondraczek, University of Erlangen-Nürnberg (Germany)

New Methods in Materials Design

B5-305 **Novel Production Technique for Directionally Solidified Cast Parts**
H. Lu (Sp), D. Ma, T. Burbach, A. Bührig-Polaczek, RWTH Aachen University (Germany)

B5-364 **High-Value Polymer Products from PET Bottle Waste**
J. Spengler (Sp), G.P. Hellmann, Technische Universität Darmstadt (Germany)

B5-372 **Deformation Mechanisms and Fracture Behaviour in High Manganese Steel**
F. Nafati (Sp), U. Prahl, W. Bleck, RWTH Aachen University (Germany)

B5-403 **Investigations of Topological Surface Changes during Tensile Deformation of Steels**
S. Hoffmann (Sp), W. Bleck, RWTH Aachen University (Germany)

B5-435 **A Probabilistic Model to Predict the Initiation of Delayed Cracking in Stainless Steel AISI 301**
X. Guo (Sp), W. Bleck, RWTH Aachen University (Germany); J. Post, M. Groen, Advanced Technology Center, Drachten (Netherlands)

B5-474 **Analysis of Substructure and Texture-Related Anisotropy of High Strength API Spiral-Welded Pipe Grades**
M. Masimov (Sp), S. Bremer, Salzgitter Mannesmann Forschung GmbH (Germany)

B5-499 **Ab Initio Study of Thermodynamic, Structural and Elastic Properties of Al-/Si-Substituted Laves Phases Fe2Nb and Fe2W**
F. Liot, M. Friak, J. Neugebauer, D. Ma (Sp), Max-Planck Institute for Iron Research GmbH, Düsseldorf (Germany)

Topic: B - Structural Materials

B5-507 **Accurate Description of Elastic Properties of Random Alloys with Minimum Supercell Sizes**
J. von Petzold, A. Dick, M. Friak (Sp), J. Neugebauer, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany)

B5-525 **X-Ray Investigation of Ferrito-Pearlitic Steels for Prediction of their Properties**
D. Simek (Sp), D. Rafaja, V. Klemm, M. Motylenko, G. Schreiber, G. Lehmann, A. Oswald, R. Schmidtchen, Technical University of Freiberg (Germany)

B5-636 **The TEM Investigation of Orientation Relationships and Defect Structures in Interfaces of Hot-Rolled Pearlitic Steel**
M. Motylenko (Sp), V. Klemm, D. Rafaja, D. Simek, G. Lehmann, A. Oswald, B. Fachmann, Technical University of Freiberg (Germany)

B5-682 **Characterization of a High Strength Aluminium – Alumina Hybrid**
M.C. Poletti, Vienna University of Technology (Austria); M. Balog, F. Simancik, Slovak Academy of Sciences, Bratislava (Slovak Republic); H.P. Degischer (Sp), Vienna University of Technology (Austria)

Mechanical Properties and Microstructure

B6-54 **Effect of Microstructure on the Fatigue Behaviors of A356 Aluminum Alloy for Automotive Wheel**
Y.-S. Ahn (Sp), J.-Y. Song, Pukyong National University, Busan (Korea, Republic); J.-C. Park, Research Institute of Science & Technology, PoHang (Korea,Republic)

B6-71 **Tensile Properties of Mg/Mg2Si Composite in Different Temperatures**
F. Mirshahi (Sp), M. Meratian, M. Panjehpour, F. Mirshahi, Isfahan University of Technology (Iran)

B6-94 **Control of Residual Stresses and Deformations along the Autofrettage Process Chain**
H. Brünnet (Sp), D. Bähre, Saarland University, Saarbrücken (Germany)

B6-179 **Investigating the Mechanical Properties of Bi-Modal Al/SiCp Composites with Nano and Micron Sized Reinforcements**
M. Jahedi (Sp), B. Mani, M.H. Paydar, Shiraz University (Iran)

B6-181 **High and Low-Energy Activations of Nano-Zirconia Based Systems**
S. Kulkov (Sp), S. Buyakova, Tomsk State University (Russian Federation)

B6-218 **Mechanical Properties and Texture Evolution of CuAlZn-Wire Deformed at Cryogenic and Room Temperature**
A. Kauffmann (Sp), IFW Dresden (Germany); J. Freudenberger, U. Gaitzsch, H. Klauß, J. Eckert, L. Schultz, Technische Universität Dresden (Germany)

B6-237 **Strength and Ductility Improvement of Wrought Magnesium by Rare Earth Alloying**
T. Al-Samman, X. Li (Sp), RWTH Aachen University (Germany)

B6-277 **A Dislocation Dynamics Study of Deformation Mechanisms in Ultra-Fine Grained Metals**
N. Ahmed (Sp), A. Hartmaier, Ruhr-University Bochum (Germany)

B6-318 **Appearance of Dislocation Mediated and Orientation Selective Deformation Twinning in a Bimodally Textured FeMnNiCr Alloy**
D. Geißler (Sp), J. Freudenberger, A. Kauffmann, M. Krautz, H. Klauss, J. Eickemeyer, L. Schultz, Leibniz Institute for Solid State and Materials Research Dresden (Germany)

B6-359 **Micro-Multiaxial Fatigue in the Very High Cycle Regime**
T. Straub (Sp), T. Kennerknecht, C. Eberl, Karlsruhe Institute of Technology (Germany)

B6-429 **Microstructure Evolution of Cu and Cu-0.18 Mass % Zr Polycrystals Processed by High-Pressure Torsion**
M. Dopita (Sp), H.J. Seifert, D. Rafaja, Technical University of Freiberg (Germany); M. Janeczek, R. Kuvel, Charles University in Prague (Czech Republic) et al.

B6-463 **Identification of Fundamental Materials-Design Limits in Ultra Light-Weight Mg-Li alloys via Quantum-Mechanical Calculations**
M. Friak (Sp), W.A. Counts, D. Raabe, J. Neugebauer, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany)

B6-476 **Formation Behavior of Deformation-Induced Layer in Fe-Ni Alloy by Sliding Wear and Shot Peening**
H. Sato (Sp), N. Nishiura, Y. Kubota, E. Miura-Fujiwara, Y. Watanabe, Nagoya Institute of Technology (Japan)

B6-488 **Internal Oxidized Ni-Zr-Y Alloys - Fabrication and Mechanical Properties**
C. Konrad (Sp), E. Fleischmann, R. Völkl, U. Glatzel, University of Bayreuth (Germany)

B6-489 **Creep Testing of Thin-Walled Ni-Base Superalloys**
M. Brunner (Sp), M. Bensch, R. Völkl, U. Glatzel, University of Bayreuth (Germany)

B6-538 **Non-Uniform Thermal Condition and Grain Defect Formation in Superalloy Casting Clusters during Directional Solidification**
D. Ma, Q. Wu (Sp), S. Hollad, A. Bührig-Polaczek, RWTH Aachen University (Germany)

B6-563 **Modifying the Corrosion and Wear Resistance of Martensitic Steel AISI 420F in the Processes of Low-Temperature Glow Discharge Assisted Nitriding**
T. Borowski (Sp), Warsaw University of Technology (Poland); T. Brojanowska, T. Wierzo, A.Warsaw University of Technology (Poland)

B6-624 **Effect of Growth Rate on Microstructure in a Sn-Sb Peritectic Alloy during Directional Solidification**
E. Yilmaz (Sp), M. Gündüz, Erciyes University, Kayseri (Turkey)

B6-653 **Conformation Structure and Local Loads on Interconnecting Chains in a Deformed Oriented Crystalline Polymer**
U. Gafurov, Institute of Nuclear Physics, Tashkent (Uzbekistan)

B6-680 **Tailoring the Mechanical Properties of Nanocrystalline fcc Metals: A Molecular Dynamics Study on the Effects of Twins and Miscible Solutes on Deformation Processes**
A. Stukowski, J. Schäfer, K. Albe (Sp), Technische Universität Darmstadt (Germany)

B6-822 **Ductile-to-Brittle Transition Hydrogen Concentrations of V and Nb for Hydrogen Permeation**
Y. Matsumoto (Sp), Oita National College of Technology (Japan); H. Yukawa, Nagoya University (Japan); T. Nambu, Suzuka National College of Technology (Japan)

Topic: C - Processing

Nanomaterials and Composites

C1-33 oral poster
Internal Oxidation of Platinum Matrix Composites for Spark Plug Electrodes
T. Eckardt (Sp), D.F. Lupton, H. Manhardt, N. Gübler, W.C. Heraeus GmbH, Hanau (Germany)

C1-43 oral poster
Development and Manufacturing of Nano-Dispersed Cast Al alloys
I. El Mahallawi (Sp), British University in Egypt, El Sherouk City (Egypt); Y. Shash, M.E. Saeed, Cairo University, Giza (Egypt); M. Hassabo, Britisch University in Egypt, Cairo (Egypt)

C1-203 oral poster
From Al-Doped ZnO Nanocrystals to Transparent Conductive Films
L. Luo (Sp), M. Niederberger, ETH Zürch, Zürich (Switzerland)

C1-358 oral poster
Optimum Spark-Plasma-Sintering (SPS) Condition for Attaining Transparent MgAl2O4 Spinel Polycrystal
K. Morita (Sp), B.-N. Kim, H. Oshida, K. Hiraga, National Institute for Materials Science, Tsukuba, Ibaraki (Japan)

C1-417 oral poster
Synthesis and Characterisation of Metal-Based Nano-Composites Reinforced with CNTs and CNFs
O. Todoshchenko (Sp), Y. Yagodzinskyy, T. Saukkonen, H. Hänninen, Laboratory of Engineering Materials, Espoe (Finland)

C1-464 oral poster
Dynamical Microscopy of Semiconductor Surface with Submonolayer Metallic Particles
V. Lozovski, T. Shevchenko, National University of Kyiv, (Ukraine); V. Lysenko, V. Lashkariov, National Academy of Sciences of Ukraine, Kyiv (Ukraine); A. Tsykhonia (Sp), National Academy of Sciences of Ukraine, Kiev (Ukraine)

C1-482 oral poster
Process Development for Ni-Alloy-Zirconia Ceramic Composites with Interpenetrating Network
K. Wu (Sp), H.-S. Park, M. Willert-Porada, University of Bayreuth (Germany)

C1-556 oral poster
Tailoring Materials Properties by Accumulative Roll Bonding
T. Hausöl, V. Maier, C.W. Schmidt, M. Winkler, H.W. Höppel (Sp), M. Göken, University of Erlangen-Nürnberg (Germany)

C1-570 oral poster
Nanoparticles in Meltspun Filament Yarns
J. Wulfhorst (Sp), G. Seide, T. Gries, RWTH Aachen University (Germany)

C1-586 oral poster
Optimization of Spray Drier Parameters for Synthesis of ZnO Nano Powders
Ö. Yildiz (Sp), Kocaeli University (Turkey); A.M. Soydan, Gebze Institute of Technology, Gebze/Kocaeli (Turkey)

C1-596 oral poster
Electric Measurement of Sol-Gel BaTiO3 Nanowires
R. Boucher (Sp), P. Renz, C. Li, T. Fuhrlich, J. Bauch, K.H. Yoon, Technische Universität Dresden (Germany); D.C. Lupascu, University of Duisburg-Essen (Germany)

C1-597 oral poster
Volume Shrinkage and Crack Formation during Dealloying of Au25Cu75
Y. Zhong (Sp), H.-J. Jin, J. Weissmüller, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen (Germany)

C1-600 oral poster
Forced Chemical Mixing in Ag-Cu Immiscible System Using High Pressure Torsion
M. Pouryazdan (Sp), D. Wang, T. Scherer, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen (Germany); R.S. Averback, University of Illinois at Urbana-Champaign (USA) et al.

C1-665 oral poster
Preparation of Copper-Nickel Alloy Nanoparticles by Soft Chemistry Method for Functional Printing
E. Pal, University of Bremen (Germany); D. Lehmhus (Sp), M. Busse, Fraunhofer Institute for Manufacturing Technology and Applied Materials Research, Bremen (Germany)

C1-672 oral poster
VLS Growth of SnO2 Nanowires by Vapor Phase Disporportionation of a Sn(II) Precursor
R. Müller (Sp), H. Shen, S. Mathur, University of Cologne, Köln (Germany)

C1-675 oral poster
Microwave-Assisted Fast and Facile Synthesis of SnO2 Quantum Dots in Ionic Liquid
L. Xiao (Sp), H. Shen, R. von Hagen, R. Müller, J. Schläfer, J. Pan, S. Mathur, Inorganic and Materials Chemistry, Köln (Germany)

C1-746
Effect of Aging on Mechanical Properties of Al 8Si 8Fe 1.4V/SiCp Composites
F. Sariolu, Eastern Mediterranean University, Gazimagusa (North Cyprus); A. Essari (Sp), Elmergib University, Elkhomes (Libya)

C1-764 oral poster
Nb, Hf Doped-TaC Bulk Ceramics via an Advance Sol-Gel Route
R. Peña-Alonso (Sp), K. Pham-Gia, Siemens AG, München (Germany)

C1-821
Schottky Contacts on ZnO Nanowires
M.-Y. Chern (Sp), R. Lin, National Taiwan University, Taipei (Taiwan)

Coatings

C2-74 oral poster
Bionic CrCN-Layers for Forming Tools
J. Herper (Sp), W. Tillmann, Technical University of Dortmund (Germany)

C2-103
Electron Beam Multi-Stage and Multi-Process Technologies for Liquid Phase Surface Engineering of Aluminium Alloys
M. Klemm (Sp), SZF Stahlzentrum Freiberg e.V. (Germany); R. Zenker, TU Bergakademie Freiberg, (Germany)

C2-118 oral poster
Development of Multi layer PVD-Coating for Erosion-Corrosion Protection
U. Depner (Sp), J. Ellermeier, T. Troßmann, C. Berger, Technische Universität Darmstadt (Germany)

C2-119 oral poster
Selected Adjustment of Specific CrN-Coatings to Cover Surface Imperfections
E.M. Slomski (Sp), H. Scheerer, T. Troßmann, C. Berger, Technische Universität Darmstadt (Germany)

C2-285
Influence of the Carbon Fiber Treatment for the Synthesis of C-Fiber-Reinforced Silicon Nitride Ceramics
P. Pontiller (Sp), E. Fuchs, M. Willert-Porada, University of Bayreuth (Germany)

C2-297 oral poster
Effect of the Aluminium Content and the Bias Voltage on the Microstructure Formation in Ti-Al-N Protective Coatings
C. Wüstefeld (Sp), D. Rafaja, V. Klemm, M. Dopita, M. Motylenko, Technical University of Freiberg (Germany); C. Baehtz, Forschungszentrum Dresden-Rossendorf, (Germany) et al.

C2-346
Silane Modified Acrylate Coatings, Chemistry and Performance
S. Kutschera (Sp), D. Ulbricht, G.P. Hellmann, Technische Universität Darmstadt (Germany)

C2-348 oral poster
Effect of Nitrogen Incorporation on Mechanical Properties of DLC Coatings on Metallic Substrates
M. Muresan (Sp), L. Zajickova, V. Bursikova, D. Franta, D. Necas, Masaryk University, Brno (Czech Republic); V. Perin, Academy of Sciences of the Czech Republic, Rez (Czech Republic)

Topic: C - Processing

C2-457 **Investigations of the Microstructure and the Mechanical Properties of Adhesion Layers in Diamond-Like Carbon Coating Systems**
J. Schaufler (Sp), K. Durst, M. Göken, University of Erlangen-Nürnberg (Germany)

C2-498 oral poster **Pulsed Laser Deposited Nanolaminated MAX Phases as Functional Coatings for High Temperature Applications**
M. Hopfeld (Sp), C. Lange, T. Kups, M. Wilke, Technical University of Ilmenau (Germany); M.W. Barsoum, Drexel University Philadelphia (USA); P. Schaaf, Technical University of Ilmenau (Germany)

C2-506 oral poster **Importance of Material Properties for the Application of PM-Coatings by Hot Deformation Processes**
H. Moll (Sp), W. Theisen, R. Hammelmann, H. Meier, Ruhr-University Bochum (Germany); J. Frischkorn, S. Reese, RWTH Aachen University (Germany)

C2-520 oral poster **Interface Reactions in the Cr/ta-C multilayers**
U. Ratayski (Sp), D. Rafaja, V. Klemm, U. Mühle, Technical University of Freiberg (Germany); H.-J. Scheibe, M. Leonhardt, Fraunhofer Institute for Material and Beam Technology, Dresden (Germany)

C2-533 oral poster **Comparative Studies of Metal-Ceramic-Compound Coatings (MC3) Implanted with Y and Annealed at 1200°C in Air and Vacuum**
S. Günschmann (Sp), Technical University of Ilmenau (Germany); J. Wilden, V. Drescher, Berlin University of Technology (Germany); C. Borschel, C. Ronninger, Jena Friedrich-Schiller-University (Germany) et al.

C2-568 oral poster **Producing of Diffusive Surface Layers on Titanium and its Alloys on the Basis of Intermetallic Phases: TixAly, NixAly, CrxAly with the Use of Duplex Method**
M. Ossowski (Sp), T. Wierzchon, Warsaw University of Technology (Poland)

C2-605 oral poster **Deposition and Characterization of (Ti,W,Cr)B2 Coatings**
A. Newirkowez (Sp), Technical University of Clausthal, Clausthal-Zellerfeld (Germany); B. Cappi, R. Telle, RWTH Aachen University (Germany); H. Schmidt, Technical University of Clausthal (Germany)

C2-650 oral poster **Sintercladding - A Coating Technology for High Alloyed Steel Powders**
M. Blüm, H. Moll (Sp), Ruhr University Bochum (Germany); S. Weber, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH (Germany); W. Theisen, Ruhr University Bochum (Germany)

C2-706 **Numerical Simulation of Scratch Tests with Coated Materials for the Verification of Material Models**
B. Wielage, T. Lampke, T. Müller (Sp), D. Nestler, Chemnitz University of Technology (Germany)

C2-757 **Friction Mechanism in Nanocrystalline WC-C Coatings at Room and Elevated Temperatures**
F. Lofaj (Sp), Slovak Academy of Sciences, Kosice (Slovak Republic); G. Czempura, AGH-University of Science and Technology, Krakow (Poland); A. Duszová, P. Hvizová, J. Dusza, Slovak Academy of Sciences, Kosice (Slovak Republic)

C2-816 **Surface Engineering- Sol-Gel Alumina Coatings for Surface Modification of Stainless Steel**
Y. Adraider, Teesside University, Middlesbrough (UK)

C2-824 **Incorporation of Nano Aluminium Oxide for Improvement of Electroless Nickel Plating**
S.R. Allahkaram (Sp), M. Zoughi, University of Tehran (Iran)

C2-826 **Preparation of Electroless Ni-P/nano-ZrO2 Coatings and Investigating their Electrochemical Corrosion Properties**
S.R. Allahkaram (Sp), University of Tehran (Iran); Z. Zarei, Azad University, Tehran (Iran); T. Rabizadeh, University of Tehran (Iran)

Joining

C3-254 **Processing and Modelling of Joining Zones with Moulded-in Holes for Textile Reinforced Thermoplastics**
W. Hufenbach, F. Adam, R. Kupfer, P. Lucas (Sp), Technische Universität Dresden (Germany)

C3-370 **Heat Process Simulation for TIG Welding**
D. Ciric (Sp), S. Stevan, M. Vukicevic, A. Petrovic, M. Vukicevic, University of Kragujevac, Kraljevo (Serbia)

C3-387 **Numerical Simulation of Damage Behaviour of Electron beam Welded Joints**
H.Y. Tu (Sp), S. Schmauder, U. Weber, University of Stuttgart (Germany); Y. Rudnik, V. Ploshikhin, Neue Materialien Bayreuth GmbH (Germany)

C3-447 **Heat Process Simulation for TIG Welding**
D. Sladoje (Sp), B. Velickovic, M. Bjelic, M. Vukicevic, University of Kragujevac, Kraljevo (Serbia)

C3-549 **Friction Spot Welding Of Thermoplastics: a Preliminary Study on the Microstructure and Mechanical Properties of Overlap Joints**
P.H.F. Oliveira, Federal University of Sao Carlos (Brazil); S. Amancio (Sp), J.F. dos Santos, GKSS Research Centre, Geesthacht (Germany); E. Hage Jr., Federal University of Sao Carlos (Brazil)

C3-551 **Revealing, Typifying and Assessment of Interaction Between Crack and Bore Crack Under Normal and Shear Loads by Quantitative Acoustic Emission Non Destructive Inspection and Photo-Elastic Methods**
I. Mizrahi (Sp), G. Muravin, Margan Physical Diagnostics Ltd, Beer-Sheva (Israel); N. Frage, Ben Gurion University of the Negev, Beer Sheva (Brazil)

C3-553 **On the Feasibility of a New Mechanical Joining Technology for Polymer-Metal Joints**
A.B. Abibe, Federal University of Sao Carlos, Sao Carlos-SP (Brazil); S. Amancio (Sp), J.F. dos Santos, GKSS Research Centre, Geesthacht (Germany); E. Hage Jr., Federal University of Sao Carlos, Sao Carlos-SP (Germany)

Additive Manufacturing and Field Assisted Sintering Techniques

C4-36 **Processing of NiTiSn Heusler-Alloys for Thermoelectric Applications**
W. Wunderlich (Sp), Y. Matsumura, G. Takeshi, T. Izumi, Tokai University, Kanagawa-ken (Japan)

C4-123 **Simultaneous Electro Discharge Sintering of Cemented Carbide Alloy and Connection it with High-Speed Steel Substrate**
E. Grigoryev, Moscow (Russian Federation)

C4-162 **Pulsed Electric Field Induced Diamond Synthesis from Carbon Nanotubes with Solvent Catalysts**
F. Zhang (Sp), M. Adam, E. Otterstein, E. Burkel, University of Rostock (Germany)

Topic: C - Processing

C4-169 **Characterization of Ti-Mg Alloys Prepared by SPS**
C. Machio (Sp), H.K. Chikwanda, S. Nxumalo, Council for Scientific and Industrial Research (CSIR), Pretoria (South Africa); J.R. Groza, D. Quach, University of California, Davis (USA)

C4-211 **Pressure Effects on the Densification of Nanocrystalline Hydroxyapatite by Field-Assisted Sintering**
T. Tran (Sp), T.B. Holland, J.F. Shackelford, J.R. Groza, University of California, Davis (USA)

C4-212 **Grain Growth Coupled with Rapid Dehydroxylation during Final Stage Field-Assisted Sintering of Nanocrystalline Hydroxyapatite**
T. Tran (Sp), T.B. Holland, University of California, Davis (USA); U. Jelvestam, U. Klement, Chalmers University of Technology, Goteborg (Sweden); J.K. Shackelford, J.R. Groza, University of California, Davis (USA)

C4-231 **Microstructure and Properties of Nanocrystalline WC Sintered by the Pulse Plasma Sintering (PPS) Technique**
M. Rosinski (Sp), A. Michalski, J. Szawnowski, Warsaw University of Technology (Poland)

C4-303 **Synthesis and Structure-Activity Relationship of Several Novel Two-Photon Initiators based on a D-pi-A-pi-D Chromophore**
Z. Li (Sp), M. Siklos, N. Pucher, K. Cicha, A. Ajami, W. Husinsky, J. Stampfl, R. Liska, Vienna University of Technology, Wien (Austria)

C4-308 **Functional Gradation of Ceramic Materials in Three Dimensions Using Additive Manufacturing Techniques**
D. Polsakiewicz (Sp), W. Kollenberg, Hochschule Bonn-Rhein-Sieg, Rheinbach (Germany)

C4-341 **New Components for the Rapid Manufacturing Technology of the 3D-printing**
J. Presser (Sp), C. Kottlorz, G.P. Hellmann, Technical University of Darmstadt (Germany)

C4-355 **Flexible Optical WaveGuides via Two-Photon Polymerization**
J. Kumpfmüller (Sp), R. Inführ, K. Stadlmann, K. Cicha, Vienna University of Technology (Austria); V. Satzinger, V. Schmidt, Joanneum Research Institute of Nanostructured Materials and Photonics, Weiz (Austria) et al.

C4-382 **MgB2 Superconducting Ceramic Produced by Different Processes**
G. Aldica, C. Plapcianu, P. Bafica, I. Ivan (Sp), National Institute of Materials Physics, Magurele (Romania); M. Trucatto, A. Agostino, S. Cagliero, E. Bonometti, University of Torino (Italy) et al.

C4-389 **Master Sintering Curve Applied to the Field Assisted Sintering Technique**
S. Schwarz (Sp), O. Guillon, Technische Universität Darmstadt (Germany); M.J. Hoffmann, Karlsruhe Institute of Technology (Germany)

C4-421 **Parametric Investigation of Temperature and Stress Distribution in Field Activated Sintering Apparatus**
S. Munoz, University of Sevilla (Spain); U. Anselmi-Tamburini (Sp), University of Pavia (Italy)

C4-519 **Synthesis of Ti3SiC2 Complex Carbide Using the Spark Plasma Sintering Technique**
D. Chmelik (Sp), H.-J.- Seifert, U. Martin, Technische Universität Bergakademie Freiberg (Germany); M. Herrmann, J. Räthel, Fraunhofer Institute for Ceramic Technologies and Systems, Dresden (Germany)

C4-669 **Preparation of Conductive Microstructures by Combination of Photolithography and Direct Write Technology**
E. Pal, D. Lehmhus (Sp), Fraunhofer Institute for Manufacturing Technology and Applied Materials Research, Bremen (Germany); E. Tolstosheeva, H. Sturm, W. Lang, University of Bremen (Germany) et al.

C4-670 **Low Temperature Processable Dielectric Films for Printed Electronics Applications**
T. Lehnert (Sp), J. Adam, R. Herbeck-Engel, R. Drumm, M. Veith, Leibniz Institute for New Materials, Saarbrücken (Germany)

C4-789 **Microstructure and Surface Roughness of Ti-6Al-4V Built with Different Settings of EBM System**
A. Safdar (Sp), H.Z. He, L.Y. Wei, Malmö University (Sweden); A. Snis, Arcam AB, Mölndal (Sweden); L.E.C. de Paz, Malmö University (Sweden)

Topic: D - Characterisation

Microstructure Characterisation

D1-18 **Aging of Platinum Films on YSZ**
G. Beck (Sp), Forschungsinstitut für Edelmetalle und Metallchemie (FEM), Schwäbisch Gmünd (Germany); H. Pöpke, B. Luerssen, J. Janek, Justus-Liebig-University of Gießen (Germany)

D1-107 **Microstructure Characterization of Steel/Alloy 625 System**
H. Saghafifar (Sp), D.G. McCarney, P. Shipway, University of Nottingham (UK)

D1-312 **TEM Investigations on LAST-Materials**
U. Schürmann (Sp), A. Lotnyk, Christian-Albrechts-University of Kiel (Germany); D. Perti, Freie Universität Berlin (Georgia); V. Duppel, Max Planck Institute for Solid State Research, Stuttgart (Germany) et al.

D1-314 **A Scanning TEM Method to Locally Determine Layer Dimensions and Interface Roughness for Multilayer Coatings with Ultimate Accuracy**
D. Häußler (Sp), U. Ross, Christian-Albrechts-University of Kiel (Germany); U. Heidom, F. Hertlein, J. Wiesmann, Incoatec GmbH, Geesthacht (Germany); W. Jäger, Christian-Albrechts-University of Kiel (Germany)

D1-343 **Real and Magnetic Structure investigation of FSMAs with the Aid of TEM**
B. Erkartal (Sp), A. Lotynk, C. Bechtold, E. Quandt, Christian-Albrechts-University of Kiel (Germany)

D1-637 **Textures in the Multi-Directional Forged Commercial Mg Alloys**
W. Gan (Sp), H.-G. Brokmeier, M.Y. Zheng, H. Chang, K. Wu, C. Randau, GKSS Outstation at FRM-II, Garching (Germany)

D1-673 **Failure Mechanism in Presence of Reinforcing Phase in Dual Phase Steels**
J. Kadkhodapour (Sp), S. Ziaei Rad, S. Schmauder, University of Stuttgart (Germany)

D1-792 **Characterisation of Inclusions in an As-Cast Carbon Steel**
M. Faraji (Sp), R. Thackray, I. Todd, P. Tsakiropoulos, The University of Sheffield (UK)

D1-828 **Microstructural Evolution in Cast Iron Cylinder Heads under Thermo-Mechanical Fatigue**
S. Ghodrat (Sp), J. Sietsma, M. Janssen, L.A.I. Kestens, Delft University of Technology (Netherlands)

Topic: D - Characterisation

New Techniques

D2-26 **Atom Probe of Nitrogen-Doped Chemical-Vapor-Deposition Diamond Films**
T. Liu (Sp), D. Raabe, P. Choi, Max Planck Institute for Iron Research, Düsseldorf (Germany)

D2-127 **High-Throughput Temperature-Dependent Structural Investigation of a Quaternary Ti-Ni-Cu-Pd Shape Memory Alloy Composition Spread Using Microfocused Synchrotron X-ray**
R. Zarnetta (Sp), M.L. Young, G. Eggeler, A. Ludwig, Ruhr-University of Bochum (Germany); Y.S. Chu, Argonne National Laboratory, Argone (USA); R. Takahashi, I. Takeuchi, University of Maryland, College Park (USA)

D2-165 **Quality Characterization of Composite Material Pipes by Thermographic Inspection**
A. Mihai (Sp), F. Stefanescu, G. Neagu, V. Rindasu, P. Funar, University Politehnica of Bucharest (Romania)

D2-225 **Imaging Techniques as Tools for Studying the Ageing Behaviour of PP-Pipes**
R. Maria (Sp), R. Brüll, K. Rode, G. Geertz, Deutsches Kunststoff-Institut Darmstadt (Germany); R. Kleppinger, DSM-Resolve, MD Geleen (Netherlands); J. Wüst, K. Engelsing, M. Wenzel, SKZ, Würzburg (Germany)

D2-279 **3D EDX Microanalysis by FIB-SEM : Enhancement of Elemental Quantification**
M. Cantoni, P. Burdet, EPFL, Lausanne (Switzerland); C. Hébert (Sp), Ecole Polytechnique Fédérale de Lausanne (Switzerland)

D2-320 **FIB Damages in the Fabrication of Free-Standing Micro-Pillars and an Alternative Preparation to FIB Milling**
C. Marichal (Sp), J. Zimmermann, S. Van Petegern, C. Borca, Paul Scherrer Institut, Villigen (Switzerland); C. Hébert, EPFL, Lausanne (Switzerland); V. Guzenko, H. Van Swygenhoven, Paul Scherrer Institut, Villigen (Switzerland)

D2-365 **Perspectives for Materials Investigations at the Structured Pulse Engineering Spectrometer (SPES)**
R. Kampmann (Sp), GKSS Research Centre, Geesthacht (Germany); V. Kudryashov, Petersburg Nuclear Physics Institute (PNPI), St. Petersburg (Romania); M. Haese-Seiller, P. Staron, GKSS Research Centre, Geesthacht (Germany) et al.

D2-494 **Inverse Analysis of Material Parameters Based on Non-Standard Tests**
X.X. Su (Sp), F. Elkut, F. Finlay, I. Jenkinson, X.J. Ren, Liverpool John Moores University (UK)

D2-522 **The Cold Two-Circle Diffractometer MIRA at the FRM II**
R. Georgii, J. Repper (Sp), G. Brandl, R. Schwikowski, P. Böni, Technical University of Munich, Garching (Germany)

D2-539 **REFSANS, a Polyvalent Instrument for Neutron Reflectometry and GISANS**
J.-F. Moulin (Sp), R. Kampmann, M. Haese-Seiller, M. Pomm, A. Schreyer, GKSS Research Centre, Garching (Germany)

D2-577 **Pulsed Laser Welding of Nickel-Titanium Alloy to Stainless Steel, for Medical Industry Devices**
J. Vannod (Sp), A. Hessler-Wyser, M. Rappaz, Ecole Polytechnique Fédérale de Lausanne (Switzerland)

D2-589 **Materials Research at the Institut Laue-Langevin (ILL) Grenoble**
P. Lindner (Sp), T. Pirling, T. Hansen, Institut Laue-Langevin, Grenoble (France)

D2-609 **Nanofocussed Synchrotron Radiation in Materials Science**
M. Müller (Sp), GKSS Forschungszentrum Geesthacht GmbH (Germany); C. Krywka, University of Kiel (Germany)

D2-741 **Synthesis of Al/C Composites under Molten Salts**
P. Baumli (Sp), J. Sytchev, I. Budai, G. Kaptay, Bay Zoltán Foundation for Applied Research, Miskolc (Hungary)

D2-756 **In situ X-Ray Diffraction Synchrotron Study of an Advanced ODS Ferritic Steel during Tensile Deformation**
J. Zimmermann (Sp), A. Froideval, M.A. Pouchon, S. Van Petegem, J. Chen, B. Schmitt, J.H. Leber, H. Van Swygenhoven, W. Hoffelner, Paul Scherrer Institute, Villigen (Switzerland)

Characterisation of Material Properties

D3-45 oral poster **Experimental Researches on the Evolution of some Parameters**
S.-D. Mácutá, Dunarea de jos University of Galati (Romania)

D3-46 oral poster **Study of the Inner Microdeformations in the Rolling Tribosystem**
S.-D. Mácutá (Sp), C. Gheorghies, Dunarea de jos University of Galati (Romania)

D3-59 oral poster **In-Situ X-Ray Absorption Spectroscopy of LiFePO4 under Different Electrochemical Conditions**
S. Suzuki (Sp), K. Inoue, S. Fujieda, K. Shinoda, Tohoku University, Sendai (Japan)

D3-116 oral poster **Digital Holographic Microscopy for Integrity Study of Small-Scale Systems**
Y.W. Lai (Sp), N. Koukourakis, N.C. Gerhardt, M.R. Hofmann, R. Meyer, S. Hamann, M. Ehmann, A. Ludwig, Ruhr-University of Bochum (Germany); E. Darakis, Hellenic Civil Aviation Authority, Ghania (Greece)

D3-132 oral poster **In Situ Measurement of the Piezoelectric Properties at High Temperatures on Bismuth Based High Temperature Piezoelectrics**
T. Leist (Sp), W. Jo, T. Granzow, E. Aulbach, Technische Universität Darmstadt (Germany); J. Chen, University of Science and Technology Beijing (China); J. Rödel, Technische Universität Darmstadt (Germany)

D3-137 oral poster **Fatigue and Crack Growth in a Precipitation Hardening Aluminium Alloy Processed by Equal-Channel Angular Pressing**
K. Hockauf (Sp), M. Hockauf, T. Halle, T. Lampke, Chemnitz University of Technology (Germany)

D3-141 **Size Effects in Upscaling of Equal-Channel Angular Pressing with Focus on Mechanical Properties and Microstructure**
P. Frint (Sp), T. Halle, Chemnitz University of Technology (Germany); G. Strehl, S+C Märker GmbH Steel Technologies, Lindar (Germany); T. Lampke, M. Wagner, M. Hockauf, Chemnitz University of Technology (Germany)

D3-146 oral poster **An Approach and Application for Anisotropic Material Modelling on Sheet Metals Including Strain Rate and Bauschinger Effect**
B. Zillmann (Sp), T. Halle, Chemnitz University of Technology (Germany); L.W. Meyer, Nordmetall GmbH, Adorf (Germany); T. Lampke, Chemnitz University of Technology (Germany)

D3-163 oral poster **In-Situ Investigation of Lithium Insertion into CuCr2Se4 Spinel**
H. Hain (Sp), R. Moenig, D. Chen, H. Gesswein, P. Gruber, Karlsruhe Insitute of Technology (Germany); J. Ophey, W. Bensch, University of Kiel (Germany); S. Indis, Karlsruhe Insitute of Technology (Germany)

D3-202 oral poster **Testing Thermal Barrier Coatings by Laser Excitation**
D. Nies (Sp), B. Rehmer, S. Glaubitz, M. Finn, B. Skrotzki, Federal Institute for Materials Research and Testing, Berlin (Germany)

Topic: D - Characterisation

D3-210 oral poster
Manufacturing of a Beta-Titanium Hollow Shaft through Incremental Forming
S. Fritsch (Sp), T. Halle, M. Wagner, Chemnitz University of Technology (Germany); C. John, M. Popp, R. Neugebauer, Fraunhofer Institute for Machine Tools and Forming Technology IWU, Chemnitz (Germany)

D3-253
Investigation of Flow Stress and Texture of AA7075 Aluminum Alloy after Extrusion and Equal-Channel Angular Pressing
S. Wagner (Sp), M.F.-X. Wagner, M. Hockauf, Chemnitz University of Technology (Germany)

D3-265 oral poster
Microstructure of a Metastable Austenitic Cast CrMnNi – TRIP Steel after Compressive Deformation
S. Martin (Sp), L. Fuhrmann, D. Rafaja, U. Martin, S. Wolf, L. Krüger, Technical University of Freiberg (Germany)

D3-300 oral poster
Calculation of S,N-Curves for Different Mean Stress Ratios on the Basis of "PHYBALmean" for the Quenched and Tempered Steel SAE 4140
P. Starke (Sp), D. Eifler, University of Kaiserslautern (Germany)

D3-316 oral poster
Structure and Atomic Dynamics of Refractory Al-Ni Melts
D. Holland-Moritz (Sp), German Aerospace Center (DLR), Cologne (Germany); S. Stüber, Technical University of Munich, Garching (Germany); I. Egry, A. Meyer, German Aerospace Center (DLR), Köln (Germany)

D3-336 oral poster
Spatially Resolved Phase Analysis and Piezo-Spectroscopic Measurement of Residual Stresses in Zirconia
A. Renz, Fraunhofer Institute for Mechanics of Materials IWM, Freiburg, Germany

D3-349 oral poster
Influence of Microstructure and Hardness on Wear Behaviour at Different Temperatures
M. Varga, H. Rojacz, C. Katsich (Sp), E. Badisch, AC2T Research GmbH, Wiener Neustadt (Austria)

D3-360
Optimization Study on the Aging Treatment of B4C Reinforced AA7064 Composites
T. Demir (Sp), M. Übeyl, E. Acar, TOBB University of Economics and Technology, Ankara (Turkey)

D3-368 oral poster
Fretting Fatigue of Engineering Ceramic with Variable Friction Strokes
C. Wörner (Sp), K.-H. Lang, Karlsruhe Institute of Technology (Germany)

D3-414 oral poster
3D Microstructural Characterization and Modeling of Deformation in Metal Matrix Composites
J. Williams, N. Chawala, Arizona State University, Phoenix (USA); F. de Carlo, Argonne National Laboratory (USA); B. Müller, M. Hentschel, P.D. Portella (Sp), Federal Institute for Materials Research and Testing, Berlin (Germany)

D3-442 oral poster
Microstructure and Mechanical Properties of Multi Component Aluminium Sheets Produced by Accumulative Roll Bonding
T. Hausöl (Sp), H.W. Höppel, M. Göken, University Erlangen-Nuremberg (Germany)

D3-462 oral poster
Deformation Mechanism and Microstructural Evolution in Nanocrystalline Pd and Pd Alloys
C. Kübel (Sp), L. Kurmanaeva, T. Scherer, J. Ivanisenko, Karlsruher Institute of Technology, Eggenstein-Leopoldshafen (Germany)

D3-540 oral poster
Oxidation Behavior of Nickel-Base Superalloys Fabricated by Metal Injection Molding
B. Albert (Sp), U. Glatzel, University of Bayreuth (Germany)

D3-543 oral poster
Some New Observations on the Freckle Formation during Single Crystal Solidification of Superalloys
D. Ma, Q. Wu (Sp), A. Bührig-Polaczek, RWTH Aachen University (Germany)

D3-583 oral poster
Stress Evolution and Cracking of Brittle Polycrystalline Diamond Thin Film on Ductile Ti-Substrate: Analysis by Micro-Raman Spectroscopy and Cohesive Zone Finite Element Modelling
F. Ahmed (Sp), H. Rehman, K. Durst, M. Göken, University of Erlangen-Nürnberg (Germany)

D3-633
On the Role of Grain Size during Stress Induced Martensitic Transformation in Ultrafine Grained NiTi Shape Memory Alloys
J. Burow (Sp), J. Fenzel, A. Schäfer, C. Somson, G. Eggeler, Ruhr University of Bochum (Germany)

D3-657 oral poster
Low Cycle Fatigue Behaviour of the Ultrafine Grained Nickel Produced by Equal Channel Angular Pressing
T. Qian (Sp), M. Marx, H. Vehoff, Saarland University, Saarbrücken (Germany)

D3-683 oral poster
The Characterization and Numerical Modelling of Viscoelastic Foams for Custom Wheelchair Seating Applications
C. Briody (Sp), B. Duignan, S. Jerrams, Dublin Institute of Technology (Ireland)

D3-694 oral poster
Inverse Problem for Micro Structural Dimension Scales Forecasting in Ultrasonic Material Characterisation
F. Bettayeb, Research Center on Welding and Control, Algiers (Algeria)

D3-738 oral poster
Strain Rate Sensitivity of Nanocrystalline Materials as Measured by Compression Test and Nanoindentation
K. Durst (Sp), V. Maier, M. Göken, University of Erlangen-Nürnberg (Germany)

D3-749 oral poster
Characterisation of Electrodeposited Nickel/Ceramic Nanocomposites by Mechanical Spectroscopy
H.-R. Sinning (Sp), Braunschweig University of Technology (Germany); G. Vidrich, W. Rieheman, Technical University of Clausthal (Germany)

D3-827
Elementary Transformation and Deformation Processes and the Cyclic Stability of NiTi and NiTiCu Shape Memory Spring Actuators
J. Frenzel (Sp), C. Grossmann, T. Depka, G. Eggeler, Ruhr-University Bochum (Germany)

Topic: E - Modelling

Materials Processing

E2-20 **Calculation of Meta-Stable Precipitates Solvous Temperatures and Modeling of Age-Hardening in Al-Mg-Si Alloys**
A.A. Vasilyev (Sp), N.L. Kuzmin, A.S. Gruzdev, St. Petersburg State Polytechnical University (Russian Federation)

E2-66 **New Model for Computation of Carbon Diffusion Coefficient in Alloyed Austenite and Application to Simulation of Gas Carburizing of Case Hardening Steels**
P. Golikov (Sp), A.A. Vasilyev, St. Petersburg State Polytechnical University (Russian Federation); J. Gegner, University of Siegen and SKF GmbH, Material Physics, Schweinfurt, (Germany)

E2-102 **Influence of the Post Compression Molding Annealing Temperature on Material Performance of HX-UHMWPE**
N. Stark (Sp), W. Schneider, B. Alcock, R. Klabunde, Zimmer GmbH, Winterthur (Switzerland)

E2-175 **Effect of Magnesium Addition on Color and Mechanical Properties of Silver for Ornaments**
N. Jinguji, H. Takagi, H. Tamehiro (Sp), Chiba Institute of Technology (Japan)

E2-178 **Application of Forward Extrusion-Equal Channel Angular Pressing (FE-ECAP) in Fabrication of Aluminum Metal Matrix Composites**
B. Mani, M.H. Paydar, M. Jahedi (Sp), Shiraz University (Iran)

E2-180 **Consolidation of Al Powders by Utilizing the Torsion Extrusion (TE) Process as a Severe Plastic Deformation Method**
M. Jahedi (Sp), M.H. Paydar, Shiraz University (Iran)

E2-291 **Evaluation of Solid Fraction during Solidification Using Novel Inverse Cooling Curves Analysis Method (ICCAM)**
M.M. Jabbari Behnam (Sp), M. Mozammel, H. Ghavami, S. Arfaee Z., Sharif University of Technology, Tehran (Iran)

E2-398 **Fabrication and Characterization of ZnO Doped Al by Mechanical Milling**
S.A. Gad, M. Boshta (Sp), A.M. Abo El-Soud, National Research Center, Cairo (Egypt)

E2-523 **Research on Quality Improvement of Expanded Polystyrene Blocks Manufacturing**
I. Dreyer, O. Medne, L. Berzina (Sp), Riga Technical University (Latvia)

E2-545 **Continuous Casting of AZ31B Magnesium Alloy Strip Usng Semisolid Slurry**
T. Motegi (Sp), F. Kido, Chiba Institute of Technology, Narashino (Japan)

E2-621 **Technological Aspects of Intense Pulsed Electron Beam Application for Properties Improvment and Repair of Gas Turbine Engine Blades**
A. Novikov, A. Paikin, O. Bytzenko (Sp), Chernyshev Machine Building Enterprise, Moscow (Russian Federation); D. Teryaev, Moscow Aviation Institute (Russian Federation) et al.

E2-685 **Processing & Characterization of Polymeric Hydrogels & the Removal of Hazardous Dye Malachite Green from Water**
M.G. Gigimol (Sp), K.R. Dhanya, M. Beena, Alphonsa College, Kottayam (India)

E2-774 **Effects of Addition of SiC and TiB2 Particles on Structural and Mechanical Properties of PM Al-Si Foams**
M. Seifi (Sp), Y. Tabatabaei, S.M.H. Mirbagheri, Amirkabir University of Technology, Tehran (Iran)

E2-825 **Remarks on the FeO/SiO2 System Regarding the Adherence of Casted Parts**
B.-A. Verdes (Sp), I. Chira, Politehnica University of Bucharest (Romania)

E2-830 **Synthesis and Characterization of Bi-Metallic Nanoflakes**
C.F. Cerqueira Machado (Sp), V. Blondo, P.W.C. Sarvezuk, G.S. Dias, Universidade Estadual de Maringá (Brazil); K.L. Silva, Technische Universität Braunschweig (Germany) et al.

Nucleation, Microstructure Evolution and Phase Transitions

E3-48 **Modeling of Static Recrystallization Kinetics in Complexly Alloyed Austenite**
A. Vasilyev (Sp), N.G. Kolbasnikov, S.F. Sokolov, St. Petersburg State Polytechnical University (Russian Federation); E.I. Khlusova, Crism Prometey, St. Peretsburg (Russian Federation)

E3-51 **Some Aspects about the Kinetics and Thermodynamic Transformations of a Nickel-Copper Austempered Ductile Iron**
I. Milosan, Transilvania University of Brasov (Romania)

E3-90 **Theoretical and Experimental Study of Multiple Phase Transformations during Solidification of Undercooled Aluminum-Nickel Alloys**
D. Tourret (Sp), T. Volkmann, D.M. Herlach, German Aerospace Center, Köln (Germany); C.-A. Gandin, MINES ParisTech, Sophia Antipolis (France)

E3-106 **Microstructure Evolution during Creep of 12Cr Steels: Experimental and Computer Simulations**
J.L. Garcia (Sp), Helmholtz-Zentrum Berlin für Materialien und Energie GmbH (Germany); D. Rojas, O. Prat, Max Planck Institute für Eisenforschung GmbH, Düsseldorf (Germany) et al.

E3-153 **Grain Growth Mechanism in Nanocrystalline Materials: Multi-Phase Field and Molecular Dynamics Studies**
R. Darvishi Kamachali (Sp), J. Hua, I. Steinbach, A. Hartmaier, Ruhr-University of Bochum (Germany)

E3-284 **An Improved Finite Element Model for Numerical Simulation of Phase Changes of Iron**
L. Écsi (Sp), P. Eleszts, K. Balázsová, Slovak University of Technology in Bratislava (Slovak Republic)

E3-287 **Symmetry-Conforming Theory of Defect Reconfiguration Caused by Martensitic Phase Transformation**
A. Kosogor (Sp), V.A. L'vov, National Taras Shevchenko University of Kyiv, Kiev (Ukraine)

E3-340 **Kinetic Modelling of the Phase Transformation of ZrO2 Dental Ceramics at Human Body Temperature: a Combinatory Approach Using Micro-XRD, Micro-Raman Spectroscopy and Cathodoluminescence Microscopy.**
M. Keuper (Sp), C. Berthold, Y. Hemberger, University of Tübingen (Germany); M. Tholey, VITA Zahnfabrik Rauter GmbH & Co KG, Bad Säckingen (Germany); K.G. Nickel, University of Tübingen (Germany)

E3-352 **Crystallization and Structural Phase Transitions in Melt-spun Poly(vinylidene fluroide) Fibers**
W. Steinmann (Sp), S. Walter, T. Gries, G. Roth, G. Seide, RWTH Aachen University (Germany)

Topic: E - Modelling

E3-521 **Seed Induced Crystallization in Colloidal Model Systems under Microgravity**
P. Werre, Deutsches Zentrum für Luft- und Raumfahrt, Köln (Germany); H.J. Schöpe (Sp), Johannes Gutenberg University Mainz (Germany)

E3-531 **Quantitative Phase-Field Simulation of the Dendritic Solidification in an Al-10wt%Cu Atomized Melt Droplet**
A. Carré (Sp), B. Böttger, M. Apel, Access e.V., Aachen (Germany)

E3-532 **Influence of Added Larger Spherical Particles on the Crystallization of a Charged Sphere Colloidal Model System**
A. Engelbrecht (Sp), H.J. Schöpe, Johannes Gutenberg University Mainz (Germany)

E3-643 **3-D Observation and Modeling of Nucleation during Recrystallisation in a Heavily Deformed Fe-Ni Alloy**
F. Ram (Sp), S. Zaefferer, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany)

E3-829 **CFD Modeling of Macro-Shrinkage and Shrinkage Porosities in A356 Castings**
L. Nastac (Sp), Concurrent Technologies Corporation, Pittsburgh (USA); M. Nastac, D. Maas, ExOne/ProMetal RCT, Pittsburgh (USA)

Topic: F - Biomat

Bio-Inspiration

F1-100 **Electrospinning of Recombinant Spider Silk Protein**
G. Lang (Sp), T. Scheibel, University of Bayreuth (Germany)

F1-135 **Alcoholate Corrosion of Aluminium in Alcohol Blended Biofuels**
K. Wagner (Sp), T. Troßmann, K. Eppel, C. Berger, Technische Universität Darmstadt (Germany)

F1-139 **Aerodynamically Optimized High Temperature Coatings Inspired by Shark Skin**
C. Büttner (Sp), M. Fröhlich, U. Schulz, German Aerospace Center, Köln (Germany)

F1-191 oral poster **Structure and Mechanical Properties of Bio-Inspired Composites Made by Gluing of Laponite and Copper Oxalate Particles**
I. Zlotnikov (Sp), I. Dambovsky, H. Cölfen, H. Schlaad, B. Aichmayer, Max Planck Institute of Colloids and Interfaces, Golm (Germany)

F1-226 **Mimicking Cellulose-Matrix Interactions in Plant Cell Walls to Create Technical Glass Fiber Reinforced Polymer Composites**
J. K. Pandey (Sp), A. Bertin, H. Schlaad, I. Burgert, Max-Planck-Institute of Colloids and Interfaces, Potsdam, Golm (Germany)

F1-268 **Shark-Skin inspired Surface Engineering on Intermetallic Titanium Aluminides for High Temperature Applications Using the Fluorine Effect**
R. Pflumm (Sp), M. Schütze, Dechema e.V., Frankfurt (Germany)

F1-274 **Influence of Structural Organization and Mineral Distribution on the Local Mechanical Properties of Mineralized Cuticle from the Crab Cancer Pagurus**
H. Fabritius (Sp), Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany); S. Hild, K. Huemer, Johannes Kepler University, Linz (Austria); D. Raabe, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany) et al.

F1-286 **Hierarchical magnetic Nanostructures: Biogenic and Biomimetic Chains of Magnetite**
J. Baumgartner, Max Planck Institute of Colloids and Interfaces, Potsdam; F. Müller, Ludwig-Maximilian-University Munich, Planegg-Martinsried; M.A. Carillo (V), Max-Planck-Institut für Kolloid- und Grenzflächenforschung, Potsdam et al.

F1-332 **Novel Hierarchical Ceramic-Polymer Composites with Small Amounts of Polymers**
K. Brandt (Sp), V. Salikov, Hamburg University of Technology (Germany); V. Filiz, V. Abetz, GKSS Research Centre Geesthacht GmbH (Germany) et al.

F1-339 oral poster **What are Hierarchies in Biological Materials really good for?**
S. Bechtle (Sp), G.A. Schneider, Hamburg University of Technology (Germany)

F1-431 **The Pericarp of Citrus Maxima as a Role Model for Impact Protection Devices**
M. Thielen (Sp), C. Schmitt, T. Speck, R. Seidel, University of Freiburg (Germany)

F1-452 **Mechanical Characterization of Bio-Inspired Adhesive Polymers with Permanent, High Strength Adhesion**
S. Bundschuh (Sp), C. Eberl, O. Kraft, Karlsruher Institute of Technology, Eggenstein-Leopoldshafen (Germany)

F1-493 **Arthropod Cuticle: a Biological Multi-Functional Composite Used as Template for Nano-to-Macro-Scale Hierarchical Modeling**
M. Friak (Sp), M. Petrov, S. Nikolov, C. Sachs, H. Fabritius, P. Elstnerova, D. Ma, L. Lymperakis, D. Raab, Max Planck Institute for Iron Research GmbH, Düsseldorf (Germany); S. Hild, Johannes Kepler University Linz (Austria) et al.

F1-518 oral poster **Modifications and Conjugations of Spider Silk Proteins**
M. Humenik (Sp), T. Scheible, University of Bayreuth (Germany)

F1-573 **A renewable Source of Hydrated Lime Nanoparticles**
L. Chávez-Guerrero (Sp), M. Hinojosa, Universidad Autonoma de Nuevo Leon, San Nicolás de los Garza (Mexico)

F1-656 **Measuring the Water Adhesion on Structures of Biological Air Retaining Surfaces**
A. Weis (Sp), A. Kaltenmaier, M. Barczewski, S. Walheim, Karlsruhe Institute of Technology (KIT) (Germany); K. Koch, Hochschule Rhein-Waal, Kleve (Germany); M. Brede, A. Leder, University of Rostock (Germany) et al.

F1-696 oral poster **Understanding the Development of Cracks in a Biomaterial: Mechanical Characterisation of Whole Teeth and Dentine at Different Hierarchical Levels**
A. Märten (Sp), Max Planck Institute of Colloids and Interfaces, Golm (Germany); T. Traykova, Technical University Berlin (Germany); P. Zaslansky, Max Planck Institute of Colloids and Interfaces, Golm (Germany) et al.

Topic: F - Biomat

Interfaces

F3-63 **Mechanical Properties: Collective Diffusion Coefficient in Thermosensitive Hydrogels**
A.A. Naddaf (Sp), H.-J. Bart, Technical University of Kaiserslautern (Germany)

F3-229 **Comparison of Microbial and Abiotic-Chemical Corrosion of Silicon Nitride and Liquid-Phase Sintered Silicon Carbide Ceramics**
D. Dierksen (Sp), P. Kühner, A. Kappler, K.G. Nickel, University of Tübingen (Germany)

F3-270 **Defined Protein-Based Supramolecular Nano-Architectures**
S. Schiller (Sp), A. Schreiber, Albert-Ludwig-University of Freiburg (Germany)

F3-537 **Study on the Local Mechanical Properties of the Glass-Matrix Interface in Glass Ionomer Cements and its Impact on the Macroscopic Fracture Toughness**
B. Brandt, U. Lohbauer, K. Durst (Sp), University of Erlangen-Nürnberg (Germany)

F3-654 **Ink-Jet Printing of Proteins and Functional Nanoparticles for Automated (Bio)Functionalization of Surfaces**
A. Weber, J. Plankalayil, E. Hoch, K. Borchers (Sp), Fraunhofer Institute for Interfacial Engineering and Biotechnology, Stuttgart (Germany)

F3-740 **Interfacial Phenomena in the Ag/Si and Cu/Si Systems**
P. Baumli (Sp), G. Lakatos, G. Kaptay, Bay Zoltán Foundation for Applied Research, Miskolc (Hungary)

Biomaterial Applications

F5-37 **XPS Studies of Magnesium Surfaces after Exposure to Dulbecco's Modified Eagle Medium, Hank's Buffered Salt Solution, Simulated Body Fluid and Water**
D. Tie (Sp), D. Hoeche, F. Feyerabend, R. Willumeit, GKSS Forschungszentrum Geesthacht (Germany)

F5-64 oral poster **In Vivo Writing Using Two-Photon-Polymerization as an Enabling Technology for Making Use of Bionispired Structures**
J. Torgersen (Sp), Vienna University of Technology (Austria); A. Baudrimont, Biocenter Vienna (Austria); N. Pucher, K. Stadlmann, K. Cicha, C. Heller, R. Liska, J. Stampfl, Vienna University of Technology (Austria)

F5-189 oral poster **Biological Behavior and Corrosion of Prosthetic and Orthodontic Titanium Implants**
A.M. Nicolau (Sp), E. Vasilescu, Dunarea de jos University of Galati (Romania)

F5-263 **Sputtered Thin Films of Biodegradable Mg Alloys**
C. Zamponi (Sp), J.F. Reverey, K. Schlüter, E. Quandt, Christian-Albrechts-University of Kiel (Germany)

F5-317 **Structure and Mechanical Characterization of Highly Porous Titanium Scaffolds**
B. Dabrowski (Sp), W. Swieszkowski, Warsaw University of Technology (Poland); D. Godlinski, Fraunhofer Institute for Manufacturing Technolgy, Bremen (Germany) et al.

F5-439 oral poster **Comparison of Mechanical Properties of a Medical Spinal Bone Screw Under Different Design Parameters**
T. Demir (Sp), TOBB University of Economics and Technology, Ankara (Turkey); K. Türeyen, Medical Park Bursa Hospital (Turkey); H. Yetik, Norm Spinal Systems Ltd., Sti. Ankara (Turkey) et al.

F5-562 **Glow Discharge Assisted Nitriding Process of Titanium Alloy for Cardiovascular Applications**
T. Borowski, M. Ossowwski, T. Truszkowski (Sp), Warsaw University of Technology (Poland); A. Sowiska, E. Czamowska, The Children's Memorial Health Institute, Warsaw (Poland); T. Wierzcho, Warsaw University of Technology (Poland)

F5-565 **Improving of Osseointegration of Diffusive Titanium Phosphide Layers by Calcium Ion Implantation**
T. Truszkowski (Sp), Warsaw University of Technology (Poland); A. Sowiska, E. Czamowska, The Children's Memorial Health Institute, Warsaw (Poland); T. Wierzcho, Warsaw University of Technology (Poland)

F5-599 oral poster **Effects of Aging Heat Treatment on Phase Transformation in Plastic Deformed Ti-35Nb and Ti-35Nb-4Sn Alloys**
A. Cremasco (Sp), E.S.N. Lopes, R.J. Contieri, F.F. Cardoso, G.C. Durante, R. Caram, University of Campinas, Campinas, SP (Brazil)

F5-686 **Influence of Cooling Rate on Microstructure and Properties of Ti-Mo and Ti-Mo-Sn Alloys for Biomedical Applications.**
F. Farias Cardoso (Sp), M. Gerardi, R. Conieri, A. Cremasco, E.N. Lopes, R. Caram, University of Campinas, Campinas, SP (Brazil)

F5-832 **New Bio-photopolymers with good biocompatibility for Tissue Engineering**
X. Qin (Sp), Vienna University of Technology (Austria); C. Heller, M. Schwentenwein, Vienna University of Technology, Wien (Austria); F. Varga, Ludwig Boltzmann-Institute of Osteology, Wien (Austria) et al.

Miscellaneous

0.0-21 **Texture Evolution and fcc/hcp Transformation in Polycrystalline Fe-Mn-Si-Cr Alloys**
S. Suzuki (Sp), E.P. Kwon, S. Fujieda, K. Shinoda, Tohoku University, Sendai (Japan)

0.0-344 **Photoelectric and Optical Properties of C60/Si Heterostructure**
V. Kozachenko (Sp), S.V. Kondratenko, Y.Y. Melnichuk, Kyiv Taras Shevchenko National University, Kiev (Ukraine)

0.0-444 **POLDI - Neutron Diffractometer at PSI for Engineering Materials Research on Modern Steels**
H. Van Swygenhoven-Moens (Sp), S. Van Petegern, A.D. Evans, Paul Scherrer Institute, Villigen (Switzerland)

0.0-484 **Stability of LiPF6 and Other Electrolyte Salts for the Use in Lithium/Oxygen Batteries**
A. Fiedler (Sp), F. Scheiba, S. Oswald, H. Ehrenberg, Leibniz Institute for Solid State and Materials Research Dresden (Germany)

0.0-615 **Multifunctional Energy nanoconverter**
Y.M. Wang (Sp), X. Wang, A.V. Hamza, Lawrence Livermore National Laboratory (USA)

0.0-679 **First-Principles Calculations on the Tendency of Demixing in the PZT Solid Solution System**
S. Hayn (Sp), K. Albe, Technische Universität Darmstadt (Germany)

0.0-730 **High-Surface Area Carbon-Rich SiCN Polymer-Derived Ceramics with Tunable Micro- and Mesoporous Structure**
R.M. Prasad (Sp), G. Mera, A. Gurlo, R. Riedel, Technische Universität Darmstadt (Germany)

A

Abdeen, Z.I. Tue 17:00
Abdulkadhim, A. Tue 11:20
Abdurakhmanov, A. Wed 17:20
Abetz, C. Thu 09:15
Abetz, V. F1-332
Abetz, V. Thu 09:15
Abibe, A.B. C3-553
Abo El-Soud, A.M. E2-398
Acar, E. D3-360
Ackelid, U. B1-53
Ackelid, U. Thu 14:00
Adachi, Y. Wed 09:30
Adam, F. C3-254
Adam, J. C4-670
Adam, M. C4-162
Adam, M. Wed 10:40
Adams, P. Wed 08:50
Addison, A. Wed 15:50
Adelung, R. A2-480
Aegerter, J. Thu 14:00
Agarwal, S. Tue 17:40
Agostino, A. C4-382
Agrawal, D. Thu 12:20
Aguilar, J. B1-593
Aguilar, J. Thu 09:55
Ahmed, F. Wed 15:50,
Ahmed, N. B6-277
Ahn, Y.-S. B6-54
Aichmayer, B. Wed 12:00, F1-191
Ajami, A. C4-303
Ajayan, P.M. Tue 11:20
Akbarzadeh, J. Tue 15:50, A3-154
Al-Samman, T. B6-237
Albe, K. B6-680
Albe, K. B4-142
Albe, K. 0.0-679
Albert, B. Wed 12:00,
Alcock, B. E2-102
Aldica, G. C4-382
Alig, I. Tue 17:40
Alimardani, M. Wed 09:10
Allahkaram, S.R. C2-824
Allahkaram, S.R. C2-826
Allan, I.U. Tue 15:30
Altindis, M. Tue 17:40
Amancio, S. C3-549
Amancio, S. C3-553
Amesöder, S. Wed 17:00
Aneziris, C. Thu 10:35
Aneziris, C.G. B3-634
Aneziris, C.G. B3-630
Aneziris, C.G. Thu 09:15
Aneziris, C.G. Thu 10:15
Ang, S.F. Wed 09:50
Ansart, F. Wed 09:30
Anselmi-Tamburini, U. C4-421
Anselmi-Tamburini, U. Thu 09:15
Anselmi-Tamburini, U. Thu 10:15
Ansorge, E. A2-751
Anten, K. Tue 17:00
Antipov, E. Tue 17:20
Anton, E.-M. A2-383
Antonyuk, S. F1-332
Apel, M. E3-531
Apel, M. Tue 11:40
Apel, M. Wed 16:40
Appel, F. B1-272
Appel, F. B1-299
Appel, F. Thu 10:15
Appel, F. Thu 14:40
Appel, F. Thu 15:20
Arfaee Z., S. E2-291
Arora, K.S. Wed 15:30
Aschauer, U. Wed 14:50
Asghar, Z. Thu 14:20
Atanga, V.K. Thu 11:40
Aulbach, E. Wed 15:50,
Autenrieth, H. Wed 17:40
Averback, R.S. Tue 17:40, C1-600

B

Backhaus, A. Thu 11:40
Badisch, E. Wed 12:00,
Badisch, E. Thu 10:15
Bähre, D. B6-94
Baehtz, C. Tue 12:00, C2-297
Baehtz, C. Tue 11:40
Baehtz, C. Thu 09:55
Bäumer, M. Wed 10:40
Bäurer, M. Wed 15:30
Bafica, P. C4-382
Bahr, J. Tue 11:40
Baikov, A.A. B6-429
Bakradze, G. Thu 10:15
Balasundaram, K. F1-274
Balázsová, K. E3-284
Balkenhol, M. Thu 10:35
Ballweg, T. Wed 08:50
Balog, M. B5-682
Barbani, N. Tue 11:20
Barczewski, M. F1-656
Bardong, J. Tue 10:40
Barnoush, A. B1-664
Barnoush, A. Tue 11:40
Barrales-Mora, L. Thu 14:00
Barsoum, M.W. Tue 12:00, C2-498
Barsukova, T. Tue 14:50
Bart, H.-J. F3-63
Barthel, M. Wed 12:00
Barthlott, W. F1-656
Barthlott, W. Wed 15:50
Bartsch, M. B1-338
Bauch, J. Tue 15:30, C1-596
Baudrimont, A. Tue 18:00, F5-64
Bauer, A. Thu 15:00
Baufeld, B. Thu 12:40
Baumann, T. Tue 14:30
Baumann, T.F. Tue 15:30
Baumer, M. Tue 15:50, A3-246
Baumgartner, J. F1-286
Baumli, P. D2-741
Baumli, P. F3-740
Bauser, S. Thu 12:00
Bayraktar, F.S. Thu 12:40
Beausir, B. Thu 10:35
Bechtle, S. Wed 12:00, F1-339
Bechtold, C. A2-470
Bechtold, C. D1-343
Beck, G. D1-18
Beck, U. Thu 10:35
Becker, S. Wed 09:10
Beckmann, F. Tue 17:20
Beckmann, F. Wed 09:30
Beckmann, F. Wed 16:40
Beckmann, F. Thu 15:00
Bednarz, P. Tue 10:40
Beena, M. E2-685
Behr, W. Wed 17:20
Bei, H. Wed 11:40
Bellini, J.V. E2-830
Benfer, S. Wed 08:30
Bensch, M. B6-489
Bensch, W. Tue 12:00, D3-163
Beresnev, A. B1-667
Berger, C. F1-135
Berger, C. Tue 18:00, C2-119
Berger, C. Tue 15:30, C2-118
Berger, G. Tue 17:40
Berghammer, R. Tue 14:30
Bergmann, I. Wed 09:10
Bergmann, L. Wed 14:30
Bernard-Granger, G. Thu 10:35
Berneel, E. Tue 11:40
Bernhard, C. Thu 14:20
Bernthaler, T. Wed 11:40
Berthold, C. E3-340
Berthold, C. Wed 15:50
Bertin, A. F1-226
Berzina, L. E2-523
Bettayeb, F. Tue 12:00, D3-694
Beyer, K. Wed 08:30
Beyer, K. Wed 11:00
Bhamji, I. Wed 15:50
Bhanu Sankara Rao, K. Tue 15:50
Bidan, C. Tue 18:00
Biederman, H. A4-755
Biener, J. Tue 15:50, A3-246
Biener, J. Tue 14:30
Biener, J. Tue 15:30
Biener, M. Tue 15:50, A3-655
Biermann, H. B3-634
Biermann, H. Tue 11:00
Biermann, H. Wed 14:50

This list indicates the presentation time (for example: Wed. 11:40 = Wednesday, 11:40 h) and / or the poster reference number (for example: C3-553 = Symposium C3, Poster: 553). Listed are speakers as well as co-authors.

Biermann, H. Thu 15:00
Bill, J. Wed 09:30
Bischoff, E. Tue 15:30
Bitar, M. Thu 14:00
Bittencourt, L.R.M. Thu 10:35
Bjelic, M. C3-447
Bjelic, M. Wed 17:40
Bleck, W. B5-372
Bleck, W. B5-403
Bleck, W. B5-435
Bleck, W. Tue 14:50
Bleck, W. Tue 15:30
Bleck, W. Wed 16:40
Bleck, W. Wed 17:20
Bleck, W. Thu 14:20
Bleck, W. Thu 15:00
Blondo, V. E2-830
Blüm, M. Tue 18:00, C2-650
Boccaccini, A.R. Tue 11:20
Boccaccini, A.R. Wed 18:00
Böhner, A. Tue 15:50
Böni, P. D2-522
Bösenberg, U. Thu 15:00
Böttger, B. E3-531
Bogner, S. Wed 17:00
Boller, E. Thu 14:20
Bonometti, E. C4-382
Borany, J.V. Thu 09:55
Borca, C. D2-320
Borca, C. Wed 11:40
Borchers, K. F3-654
Borowski, T. B6-563
Borowski, T. F5-562
Borschel, C. Tue 15:30, C2-533
Bortel, E.L. Wed 09:50
Boschetti-de-Fierro, A. Thu 09:15
Boshta, M. E2-398
Boucher, R. Tue 15:30, C1-596
Boucher, R. Wed 12:00
Brabie, V. Thu 09:35
Bradbury, W. Thu 09:35
Bram, A. Tue 17:00
Brandl, G. D2-522
Brandstetter, S. Tue 17:40
Brandt, B. F3-537
Brandt, K. F1-332
Brecher, C. Thu 09:55
Brede, M. F1-656
Brede, M. Wed 15:50
Bremer, S. B5-474
Bretcanu, O. Wed 18:00
Brillo, J. A2-594
Briody, C. Wed 18:00,
Brojanowska, T. B6-563
Brokmeier, H.-G. D2-365
Brokmeier, H.-G. D1-637
Brose, A. A2-751
Brose, C. Thu 14:00
Brosius, A. Wed 12:00
Bruckner, G. Tue 10:40
Brücker, C. A3-345
Brüll, R. D2-225
Brünnet, H. B6-94
Bruinink, A. Thu 14:00
Brunner, M. B6-489
Bruns, N. Wed 16:40
Brynk, T. F5-317
Budai, I. D2-741
Bührig-Polaczek, A. B5-305
Bührig-Polaczek, A. B6-538
Bührig-Polaczek, A. Wed 9:50, D3-543
Bührig-Polaczek, A. Tue 16:40
Bührig-Polaczek, A. Tue 17:40
Bührig-Polaczek, A. Wed 09:30
Bührig-Polaczek, A. Wed 17:00
Bührig-Polaczek, A. Wed 17:20
Bührig-Polaczek, A. Thu 12:40
Büth, H. Thu 09:55
Büttner, C. F1-139
Buffet, A. Wed 11:20
Buffiere, J.Y. Wed 15:10
Buhr, K. Thu 09:15
Bundschuh, S. F1-452
Burbach, T. B5-305
Burbach, T. Tue 16:40
Burbach, T. Thu 12:40
Burdet, P. D2-279
Burgert, I. F1-226
Burgert, I. Wed 18:00
Burghammer, M. Wed 11:20
Burkel, E. C4-162
Burkel, E. Tue 17:00
Burow, J. D3-633
Burow, J.A. Tue 15:10
Bursikova, V. Tue 18:00, C2-348
Buschbeck, J. A2-470
Busse, M. C4-669
Busse, M. Wed 9:50, C1-665
Busse, M. Thu 14:40
Butnariu, D. Wed 9:50, B2-155
Butnariu, I. Wed 9:50, B2-155
Butnariu, I. Wed 9:50, B2-155
Buyakova, S. B6-181
Bytzenko, O. E2-621

C

Cabana, J. Wed 08:50
Cagliero, S. C4-382
Calcagnotto, M. Wed 09:30
Calin, M. Thu 14:40
Camagu, S.T. B1-335
Cantoni, M. D2-279
Cao, S. Wed 18:00
Cappi, B. Tue 18:00, C2-605
Caram, R. F5-686
Caram, R. Tue 18:00, F5-599
Cardoso, F.F. Tue 18:00, F5-599
Carillo, M.A. F1-286
Carré, A. E3-531
Castrup, A. Wed 08:30
Cerqueira Machado, C.F. E2-830
Chadov, S. Tue 11:40
Chai, F. Thu 10:35
Chakravadhanula, V.S.K. B1-593
Chakravadhanula,, V.S.K. A4-567
Chakravadhanula, V.S.K. A2-576
Chakravadhanula, V.S.K. Tue 18:00
Chakravadhanula, V.S.K. Thu 09:35
Chang, H. D1-637
Chatzistavrou, X. Wed 18:00
Chávez-Guerrero, L. F1-573
Chawala, N. Wed 15:50,
Chemova, L. B1-338
Chen, D. Tue 12:00, D3-163
Chen, J. D2-756
Chen, J. Wed 15:50,
Chen, J. Tue 16:40
Chern, M.-Y. C1-821
Chichkov, B. Thu 15:00
Chikwanda, H.K. C4-169
Chira, I. E2-825
Chiu, Y.L. Thu 12:00
Chmelik, D. C4-519
Chmelik, D. Tue 17:20
Choi, P. D2-26
Choi, P. Thu 12:00
Christ, H.-J. Tue 15:10
Christ, H.-J. Wed 17:00
Christ, H.-J. Wed 18:00
Christ, H.-J. Thu 15:20
Chu, Y.S. D2-127
Chulist, R. Thu 10:35
Cicha, K. C4-303
Cicha, K. C4-355
Cicha, K. Tue 18:00, F5-64
Cicha, K. Thu 15:00
Ciric, D. C3-370
Clark, M. Thu 12:40
Clarke, S.J. Wed 08:50
Clasen, S. Thu 12:00
Claussen, N. Tue 12:45
Clemens, H. Thu 11:20
Clemens, H. Thu 11:40
Cölfen, H. Wed 12:00, F1-191
Conieri, R. F5-686
Conrad, U. Thu 10:15
Conradt, R. Wed 16:40
Conradt, R. Wed 17:40
Contieri, R.J. Tue 18:00, F5-599
Corbin, S. Wed 09:10
Cornelissen, R. Tue 11:40
Counts, W.A. B6-463
Cremasco, A. F5-686
Cremasco, A. Tue 18:00, F5-599

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Cristallini, C. Tue 11:20
Cunha Neto, J.A.B. A3-67
Cwiekala, T. Wed 12:00
Czamowska, E. F5-562
Czamowska, E. F5-565
Czekaj, I. Wed 09:50
Czempura, G. C2-757

D

Da, N. Wed 14:30
Dabrowski, B. F5-317
Dambovsky, I. Wed 12:00, F1-191
Danilov, V. Tue 17:20
Dapiaggi, M. Thu 09:15
Darakis, E. Wed 15:50,
Darvishi Kamachali, R. E3-153
David, C. Wed 09:30
Davut, K. Tue 11:20
de Carlo, F. Wed 15:50,
de la Peña-Alonso, R. Wed 9:50, C1-764
de Paz, L.E.C. C4-789
Declercq, H. Tue 11:40
Deges, J. B1-534
Degischer, H.P. B5-682
Degischer, H.P. Wed 17:20
Degischer, H.P. Thu 11:40
Degischer, H.P. Thu 14:20
Dehm, G. Thu 08:30
Dehm, G. Thu 11:40
Demir, E. Wed 17:00
Demir, T. D3-360
Demir, T. Tue 18:00, F5-439
Demirkyi, D. Thu 12:20
Denis, S. Wed 14:30
Depentori, F. Wed 08:30
Depka, T. D3-827
Depner, U. Tue 15:30, C2-118
Deriy, A. Tue 14:30
Deschaux-Beaume, F. Thu 14:00
Desmet, T. Tue 11:40
Deuchert, M. Wed 17:40
Dhanya, K.R. E2-685
Di Michiel, M. Thu 11:40
Dias, G.S. E2-830
Dick, A. B5-507
Dick, A. Tue 16:40
Dick, A. Thu 09:35
Dick, A. Thu 09:55
Diegeler, A. Wed 17:00
Diemer, R. Thu 12:40
Dierksen, D. F3-229
Dimitrieva, O. Thu 12:00
Dimitry, O.I.H. Tue 17:00
Ding, W. Tue 18:00
Dippenaar, R. Thu 11:20
Ditsch, F. Wed 18:00
Ditsche-Kuru, P. Wed 15:50
Dmitrieva, O. Wed 12:00
Dobatkin, S. B6-429
Domann, G. Tue 11:40
Domitner, J. Wed 08:50
Donat, B. Thu 12:20
Donath, T. Wed 09:30
Dopita, M. B6-429
Dopita, M. Tue 12:00, C2-297
Dopita, M. Tue 11:40
Dopita, M. Tue 17:20
Dornheim, M. Thu 15:00
dos Santos, J.F. C3-549
dos Santos, J.F. C3-553
dos Santos, J.F. Wed 14:30
Dos Santos, V.S.S. A3-67
Dose, T. Wed 16:40
Drabik, M. A4-755
Drahokoupil, J. B1-660
Drahus, M.D. Tue 12:00, A2-319
Dreibati, O. B3-351
Drescher, V. Tue 15:30, C2-533
Drevermann, A. B1-593
Drewello, V. Tue 11:20
Dreyer, I. E2-523
Dringen, R. Thu 12:00
Dronskowski, R. Thu 09:15
Drumm, R. C4-670
Drummer, D. Wed 17:00
Dubruel, P. Tue 11:40
Dudczig, S. B3-630
Dudczig, S. Thu 10:15
Dudczig, S. Thu 10:35
Dudka, A. Wed 11:00
Dudzik, E. Wed 15:10
Dugas, R. Wed 09:30
Duignan, B. Wed 18:00,
Dunin-Borkowski, R.E. Wed 14:50
Dunlop, J. Tue 18:00
Dunlop, J.W.C. Wed 17:40
Duppel, V. D1-312
Duppel, V. B1-593
Durante, G.C. Tue 18:00, F5-599
Durschang, B. Wed 17:00
Durst, K. F3-537
Durst, K. B1-57
Durst, K. C2-457
Durst, K. Tue 18:00, D3-738
Durst, K. Wed 15:50,
Dusza, J. C2-757
Duszová, A. C2-757

E

Eberl, C. B6-359
Eberl, C. F1-452
Ebke, D. Tue 11:20
Echegut, P. Wed 09:30
Eck, B. Thu 09:15
Eckardt, T. Wed 9:50, C1-33
Eckert, J. B6-218
Eckert, J. B4-423
Eckert, J. Tue 16:40
Eckert, J. Wed 11:00
Eckert, J. Wed 15:30
Eckert, J. Thu 14:40
Écsi, L. E3-284
Eeman, M. Tue 15:30
Eggeler, G. D2-127
Eggeler, G. D3-633
Eggeler, G. D3-827
Eggeler, G. Tue 15:10
Eggeler, G. Thu 12:40
Eggert, S. Thu 09:35
Egry, I. A2-594
Egry, I. Wed 9:50, D3-316
Ehmann, M. Wed 15:50,
Ehrenberg, H. B4-423
Ehrenberg, H. 0.0-484
Eichel, R.-A. Tue 12:00, A2-319
Eichlseder, W. Thu 15:20
Eickemeyer, J. B6-318
Eifler, D. Wed 18:00,
Eifler, D. Wed 15:10
Eifler, D. Wed 17:40
Eiken, J. Tue 11:40
Eiken, J. Wed 16:40
Eisenlohr, P. Thu 10:35
El Mahallawi, I. A4-42
El Mahallawi, I. Tue 17:40, C1-43
El-Aziz, A. Wed 16:40
El-Chaikh, A. Thu 15:20
Elbahri, M. Tue 18:00
Eleszts, P. E3-284
Elhami, N.-N. Tue 11:40
Elkut, F. D2-494
Ellermeier, J. Tue 15:30, C2-118
Elrefaey, A. Thu 09:55
Elstnerova, P. F1-493
Emmerich, H. B3-373
Emmerich, H. Tue 15:10
Emmerich, H. Tue 16:40
Endler, I. Tue 17:20
Endres, K. Wed 11:40
Engelbrecht, A. E3-532
Engelbrecht, A. Tue 12:00
Engelko, V. E2-621
Engelsing, K. D2-225
Englert, M. Tue 16:40
Ennen, I. Tue 12:00, A2-466
Ensinger, W. Tue 15:10
Entel, P. A2-566
Enzinger, N. Wed 16:40
Enzinger, N. Thu 12:20
Eppel, K. F1-135
Erbe, A. Wed 15:10
Ergin, K. Tue 17:20
Erkartal, B. D1-343
Erkartal, B. A2-470

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Erlemeyer, J. Thu 10:35
Essari, A. C1-746
Etter, T. Wed 08:50
Evans, A. Wed 08:50
Evans, A. Wed 15:30
Evans, A.D. 0.0-444
Eymann, K. Tue 17:00

F

Fabritius, H. F1-274
Fabritius, H. F1-493
Fabritius, H. Wed 15:10
Fachberger, R. Tue 10:40
Fachmann, B. B5-636
Fähler, S. A2-470
Faes, A. Wed 14:50
Faidel, D. Wed 17:20
Faivre, D. F1-286
Fallah, V. Wed 09:10
Faraji, M. D1-792
Farias Cardoso, F. F5-686
Fathy, A.M. Wed 16:40
Faupel, F. A4-567
Faupel, F. A2-576
Faupel, F. A4-591
Faupel, F. Tue 18:00
Faupel, F. Wed 13:45
Fecht, H.-J. B1-269
Feck, C. Wed 12:00, F1-696
Felser, C. Tue 11:40
Fenzel, J. D3-633
Fernades, C.P. A3-67
Fery, A. Wed 14:30
Feyerabend, F. F5-37
Fichtner, M. A2-502
Fichtner, M. Wed 14:30
Fiedler, A. 0.0-484
Fiedler, M. Thu 14:20
Fierro, D. Thu 09:15
Fiertz, F. Tue 17:20
Figovsky, O. Tue 10:40
Filiz, V. F1-332
Finlay, F. D2-494
Finn, M. Wed 12:00,
Fischer, F.D. Tue 17:00
Fischer, F.D. Tue 17:40
Fischer, F.D. Tue 18:00
Fischer, F.D. Thu 11:40
Fischer, G. Thu 11:20
Fischer, S. Wed 17:20
Fischer, T. Tue 11:00
Fischer, T. Wed 14:30
Flaig, S. Tue 15:50, A3-154
Fleck, C. Wed 17:20
Fleischmann, E. B6-488
Flores, O. Wed 08:30
Fössl, T. Thu 15:20
Fornalczyk, G. Tue 11:00
Fortain, J.-M. Thu 14:00
Frage, N. C3-551
Frage, N. Thu 15:00
Franke, M. A2-707
Franta, D. Tue 18:00, C2-348
Franzke, M. Wed 11:20
Fras, G. Thu 14:00
Fratzl, P. Tue 18:00
Fratzl, P. Wed 17:40
Fratzl, P. Wed 18:00
Freigang, F. Wed 08:30
Frenzel, J. Tue 15:10
Freudenberger, J. B6-218
Freudenberger, J. B6-318
Freudenberger, J. Wed 09:50
Freudenberger, J. Thu 15:20
Friak, M. F1-493
Friak, M. B1-534
Friak, M. B5-507
Friak, M. B6-463
Friak, M. B5-499
Friak, M. Tue 16:40
Fricke, K. Thu 14:20
Friederici, V. Thu 14:00
Friend, C. Tue 15:50, A3-246
Frint, P. D3-141
Frint, P. Tue 17:00
Frischkorn, J. Tue 12:00, C2-506
Fritsch, S. Wed 18:00,
Fritsch, S. Tue 17:00
Fritsching, U. Wed 15:10
Fritz, H. A2-453
Fritze, H. A2-200
Fritze, H. A2-594
Fritze, H. Tue 11:00
Froebel, U. Wed 17:20
Fröhlich, M. F1-139
Froideval, A. D2-756
Frommeyer, G. B1-534
Fuchs, E. C2-285
Fürbeth, W. Wed 08:30
Fuhrlich, T. Tue 15:30, C1-596
Fuhrmann, L. Tue 12:00, D3-265
Fujieda, S. 0.0-21
Fujieda, S. Wed 15:50, D3-59
Funar, P. D2-165

G

Gabler, M. Wed 08:30
Gad, S.A. E2-398
Gadow, A. Tue 15:10
Gadow, R. Tue 14:30
Gafurov, U. A4-652
Gafurov, U. B6-653
Gaganov, A. Thu 15:20
Gaisin, R. B1-269
Gaisin, R. Thu 09:15
Gaitzsch, U. B6-218
Gall, S. Tue 17:20
Gall, S. Tue 17:40
Galler, M. Thu 12:20
Gamsjäger, E. Tue 17:40
Gamsjäger, E. Tue 18:00
Gamsjäger, M. Tue 17:00
Gan, W. D1-637
Gandin, C.-A. E3-90
Garbe-Schönberg, D. A4-567
Garcia, C. Thu 09:35
Garcia, J. Tue 14:30
Garcia, J.L. E3-106
Gaul, H. Thu 12:00
Gault, R. Thu 12:40
Gebhard, S. Thu 14:00
Gebhardt, T. Thu 14:40
Geertz, G. D2-225
Gegner, J. E2-66
Gehrke, R. Wed 11:20
Geier, S. A4-217
Geißler, D. B6-318
Gellermann, C. Wed 08:50
Gemming, S. Wed 12:00
Gemming, T. Thu 14:00
George, E.P. Wed 11:40
Georgii, R. D2-522
Geppert, M. Thu 12:00
Gerardi, M. F5-686
Gerasin, V. Tue 17:20
Gerdes, T. Wed 15:10
Gerhardt, N.C. Wed 15:50,
German, R. Thu 09:35
Germann, H. Wed 17:40
Gesswein, H. Tue 12:00, D3-163
Geupel, A. Tue 12:00, A2-711
Ghavami, H. E2-291
Gheorghies, C. Wed 9:50, D3-46
Ghodrat, S. D1-828
Giebeler, L. B4-423
Gigimol, M.G. E2-685
Giovannelli, F. Wed 09:30
Giusti, P. Tue 11:20
Glatzel, U. B6-488
Glatzel, U. B6-489
Glatzel, U. Wed 12:00,
Glaubitz, S. Wed 12:00,
Glavatskikh, M. Thu 14:20
Glavatskikh, M. Thu 14:40
Godlinski, D. F5-317
Göken, M. B1-57
Göken, M. C2-457
Göken, M. Tue 18:00, D3-442
Göken, M. Tue 15:30, C1-556
Göken, M. Tue 18:00, D3-738
Göken, M. Wed 15:50,
Göken, M. Tue 15:50
Göken, M. Tue 16:40
Göken, M. Wed 17:40

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Göken, M.	Thu 15:00
Goenuellue, Y.	Wed 11:20
Goerigk, G.	Thu 15:00
Götschel, I.	Thu 11:20
Golikov, P.	E2-66
Golser, A.V.	Wed 11:40
Gorr, B.	Wed 17:00
Gottstein, G.	Tue 14:30
Gottstein, G.	Thu 10:15
Gottstein, G.	Thu 12:00
Gottstein, G.	Thu 14:00
Govender, G.	B1-335
Goyal, A.	Tue 11:20
Grabowski, B.	Tue 17:20
Graf, C.	Thu 14:20
Graf, M.	Wed 11:00
Graf, M.	Wed 17:20
Granzow, N.	Wed 14:30
Granzow, T.	Wed 15:50,
Grathwohl, G.	Tue 16:40
Grathwohl, G.	Wed 10:40
Greer, A.L.	Tue 11:20
Grenzer, J.	Thu 09:55
Greve, H.	A2-585
Grey, C.P.	Wed 08:50
Gries, T.	E3-352
Gries, T.	Wed 9:50, C1-570
Griesche, A.	Wed 11:00
Grigoryev, E.	C4-123
Groen, M.	B5-435
Gross, D.	Wed 11:20
Groß, S.	Wed 17:20
große Holthaus, M.	Tue 14:50
Große, M.	Wed 09:10
Grossmann, C.	D3-827
Groth, E.	Thu 14:40
Groza, J.	Thu 10:15
Groza, J.R.	C4-169
Groza, J.R.	C4-211
Groza, J.R.	C4-212
Groza, J.R.	C4-382
Gruber, P.	Tue 12:00, D3-163
Grunwald, I.	Thu 12:00
Grunwald, I.	Thu 14:40
Gruzdev, A.S.	E2-20
Grydin, O.	Wed 12:00
Grytsiv, A.	Wed 15:30
Grzesiak, A.	Thu 14:20
Gu, F.	A3-213
Gübler, N.	Wed 9:50, C1-33
Gündüz, M.	B6-624
Günschmann, S.	Tue 15:30, C2-533
Günther, T.	Wed 11:00
Günther, V.	Thu 09:15
Guillen, T.	Tue 17:40
Guillon, O.	C4-389
Guillon, O.	Wed 18:00
Guillon, O.	Thu 09:55
Guillon, O.	Thu 09:55
Guizard, C.	Thu 10:35
Guo, X.	B5-435
Gurion, B.	Thu 15:00
Gurlo, A.	0.0-730
Guzenko, V.	D2-320

H

Haas, K.-H.	Wed 08:50
Haba, J.	Tue 17:00
Hachemi, H.	Wed 11:40
Haderk, K.	Thu 14:20
Hänninen, H.	Tue 17:40, C1-417
Hänninen, H.	Wed 08:50
Haese-Seiller, M.	D2-365
Haese-Seiller, M.	D2-539
Häußler, D.	D1-314
Hage Jr., E.	C3-549
Hage Jr., E.	C3-553
Hagemann, K.	Tue 17:40
Hagenau, A.	Wed 11:40
Hahn, H.	A2-502
Hahn, H.	Tue 17:40, C1-600
Hahn, H.	Wed 08:30
Hahn, H.	Wed 09:10
Hahn, H.	Thu 15:20
Haibel, A.	Tue 17:20
Haibel, A.	Wed 16:40
Hain, H.	Tue 12:00, D3-163
Halle, T.	D3-141
Halle, T.	Tue 18:00, D3-137
Halle, T.	Wed 18:00,
Halle, T.	Wed 18:00,
Hamann, S.	A2-470
Hamann, S.	Wed 15:50,
Hamaz, A.V.	Tue 15:30
Hammelmann, R.	Tue 12:00, C2-506
Hamza, A.	Tue 15:50, A3-655
Hamza, A.	Tue 14:30
Hamza, A.V.	0.0-615
Hamza, A.V.	Wed 08:50
Han, T.	Wed 09:30
Hansen, T.	D2-589
hansen, T.W.	Wed 14:50
Hanus, P.	Wed 15:10
Harenburg, J.	Tue 17:00
Harrington, M.	Wed 18:00
Hartmaier, A.	E3-153
Hartmaier, A.	B6-277
Hartmaier, A.	Thu 12:40
Hasani, A.	Tue 14:30
Hasler, S.	Wed 09:30
Hassabo, M.	Tue 17:40, C1-43
Hassan, A.	Wed 16:40
Hauptmann, W.	Thu 10:15
Haushahn, T.	Wed 17:00
Hausöl, T.	Tue 18:00, D3-442
Hausöl, T.	Tue 15:30, C1-556
Hayashi, Y.	Thu 11:20
Hayn, S.	0.0-679
He, H.Z.	C4-789
Hébert, C.	D2-279
Hébert, C.	D2-320
Hecht, U.	Tue 11:40
Hecht, U.	Wed 16:40
Heckel, T.	Thu 15:20
Heczko, O.	B1-660
Hegemann, D.	Tue 14:50
Heidom, U.	D1-314
Heilmaier, M.	B1-593
Heilmaier, M.	Tue 12:10
Heilmaier, M.	Tue 14:30
Heilmaier, M.	Wed 11:00
Heilmann, A.	Thu 10:15
Heim, M.	Wed 11:40
Heinle, C.	Wed 17:00
Heinrich, S.	F1-332
Heller, C.	F5-832
Heller, C.	Tue 18:00, F5-64
Heller, C.	Thu 14:40
Hellmann, G.P.	A4-257
Hellmann, G.P.	C4-341
Hellmann, G.P.	C2-346
Hellmann, G.P.	A4-354
Hellmann, G.P.	B5-364
Hemberger, Y.	E3-340
Hemberger, Y.	Wed 15:50
Hénaff, G.	Wed 18:00
Henkel, S.	Tue 11:00
Henneberg, D.	Thu 09:55
Hentschel, M.	Wed 15:50,
Herbeck-Engel, R.	C4-670
Herlach, D.M.	E3-90
Herper, H.C.	A2-566
Herper, J.	Tue 15:30, C2-74
Herrera, C.	Tue 14:50
Herrmann, M.	C4-519
Hertlein, F.	D1-314
Herzen, J.	Tue 17:20
Herzen, J.	Wed 09:30
Herzen, J.	Wed 16:40
Herzog, G.	Wed 11:20
Hessler-Wyser, A.	B1-517
Hessler-Wyser, A.	D2-577
Hessler-Wyser, A.	Wed 14:50
Hettstedt, F.	A2-576
Hickel, T.	Tue 16:40
Hickel, T.	Tue 16:40
Hickel, T.	Tue 17:20
Hickel, T.	Thu 09:35
Hickel, T.	Thu 09:55
Hild, S.	F1-274
Hild, S.	F1-493
Hinojosa, M.	F1-573
Hinze, U.	Thu 15:00
Hiraga, K.	Wed 12:00,

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Hirsch, U. Thu 10:15
Hirsekorn, S. Tue 11:20
Hirt, G. Wed 11:20
Hoch, E. F3-654
Hockauf, K. Tue 18:00, D3-137
Hockauf, K. Tue 17:00
Hockauf, M. D3-141
Hockauf, M. D3-253
Hockauf, M. Tue 18:00, D3-137
Hockauf, M. Tue 17:00
Hockauf, M. Thu 10:35
Hoeche, D. F5-37
Höhn, M. Tue 17:20
Hoell, A. Thu 15:00
Höppel, H.W. Tue 15:30, C1-556
Höppel, H.W. Tue 18:00, D3-442
Höppel, H.W. Tue 15:50
Höppel, H.W. Tue 16:40
Hoffelner, W. D2-756
Hoffman, M. Wed 11:40
Hoffmann, A. Thu 12:20
Hoffmann, F. Wed 15:10
Hoffmann, F. Wed 15:30
Hoffmann, H. Tue 11:40
Hoffmann, M.J. C4-389
Hoffmann, M.J. Wed 15:30
Hoffmann, M.J. Thu 09:55
Hoffmann, S. B5-403
Hoffmeister, J. Wed 17:40
Hofmann, M.R. Wed 15:50,
Hohnholt, M. Thu 12:00
Holdsworth, S.R. Wed 15:30
Hollad, S. B6-538
Holland, T. Thu 10:15
Holland, T. Thu 12:00
Holland, T.B. C4-211
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Holland-Moritz, D. Wed 9:50, D3-316
Hopfeld, M. Tue 12:00, C2-498
Hoppe, R. B1-299
Houbertz, R. Tue 11:40
Hrkac, T. A4-567
Hrkac, T. Thu 09:35
Hrt, G. Thu 11:40
Hu, W. Tue 14:30
Hua, J. E3-153
Huang, J. A4-217
Huber, J. Tue 16:40
Huber, M. Wed 10:40
Huber, N. Thu 12:40
Hublin, J. Wed 17:40
Hübner, P. Tue 11:00
Huemer, K. F1-274
Hünert, D. Wed 11:00
Hüsing, N. Tue 15:50, A3-154
Hüsing, N. Tue 14:50
Hufenbach, J. Wed 11:00
Hufenbach, W. C3-254
Humenik, M. Wed 12:00, F1-518
Hunkel, M. Wed 15:10
Huppmann, M. Tue 17:20
Huppmann, M. Tue 17:40
Husinsky, W. C4-303
Hvizová, P. C2-757

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Idrissi, H. Wed 10:40
Ilavsky, J. Tue 14:30
Imayev, R.M. B1-269
Imayev, R.M. Thu 09:15
Imayev, V. Thu 09:15
Imayev, V.M. B1-269
Imgrund, P. Thu 14:00
Indis, S. Tue 12:00, D3-163
Indris, S. Wed 08:50
Indris, S. Wed 09:10
Inführ, R. C4-355
Inoue, K. Wed 15:50, D3-59
Ioelovich, M. Tue 10:40
Ionescu, E. Tue 17:00
Ionescu, E. Wed 09:30
Iqbal, F. Wed 17:40
Irlizzi, G. C4-382
Ismail, E.A. Tue 17:00
Ismer, L. Tue 17:20
Ivan, I. C4-382
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Ivanisenko, Y. Wed 08:30
Izumi, T. C4-36

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Jacques, P.J. Wed 09:10
Jacques, P.J. Wed 10:40
Jäger, W. D1-314
Jäntsch, U. Thu 12:20
Jäpel, T. Wed 14:30
Jahedi, M. E2-178
Jahedi, M. E2-180
Jahedi, M. B6-179
Jahn, A. Wed 9:50, B2-39
Jahn, A. Wed 11:20
Jahn, A. Wed 11:40
Jahn, A. Thu 12:20
James, S.E. Tue 15:30
James, S.L. Tue 15:30
Janeczek, M. B6-429
Janek, J. D1-18
Janik, V. Tue 18:00
Janssen, M. D1-828
Januard, F. Thu 14:00
Jaro ová, M. B1-660
Jarosová, M. Wed 15:10
Jarozewicz, J. F5-317
Jeangros, Q. Wed 14:50
Jelvestam, U. C4-212
Jendras, M. Thu 15:20
Jenkinson, I. D2-494
Jerrams, S. Wed 18:00,
Jeurgens, L.P.H. Thu 10:15
Jeutter, N. Thu 09:55
Jin, H.-J. Tue 15:30, C1-597
Jin, H.-J. Tue 15:30
Jinguji, N. E2-175
Jo, W. Wed 15:50,
Jönsson, P. Thu 09:35
John, C. Wed 18:00,
Jowsa, J. Wed 9:50, B2-157
Jung, H. Thu 09:15
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Kabir, M.R. B1-338
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Kailer, A. A4-13
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Kampmann, R. D2-365
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Kannengießer, T. Wed 08:30
Kannengießer, T. Wed 11:00
Kappler, A. F3-229
Kaps, S. A2-480
Kaptay, G. F3-740
Kaptay, G. D2-741
Karimi, F. Thu 15:00
Karpacheva, G. A4-138
Karsten, S. F1-274
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Kasper, A. Wed 17:40
Kathrein, M. Tue 12:00, C2-297
Kathrein, M. Tue 11:40
Kato, M. Wed 11:20
Katsich, C. Wed 12:00,
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Katsikis, N. Tue 17:40
Kauffmann, A. B6-218
Kauffmann, A. B6-318
Kawalla, R. Wed 11:00
Kawalla, R. Wed 17:20
Kaysser-Pyzalla, A. Thu 12:40
Kaysser-Pyzalla, A.R. E3-106
Kebir, H. Wed 11:40
Keller, M.H. B3-469
Keller, T. Wed 17:20
Kelm, K. B1-593
Kelm, K. Wed 08:30
Kennerknecht, T. B6-359
Kern, D.P. Thu 10:35
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Keßler, O.	Wed 15:50
Kestens, L.A.I.	D1-828
Kestler, H.	Wed 11:00
Keuper, M.	E3-340
Keuper, M.	Wed 15:50
Khajepour, A.	Wed 09:10
Khaleghi, E.	Thu 09:35
Khalifa, T.	A4-42
Khan, A.A.	Wed 15:10
Khan, A.U.	Wed 15:30
Kharicha, A.	Wed 08:50
Khismatullin, T.	Thu 09:15
Khlusova, E.I.	E3-48
Khorashadizadeh, A.	Tue 14:50
Kido, F.	E2-545
Kieback, B.	Tue 17:00
Kienle, L.	A2-470
Kienle, L.	D1-312
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Kienle, L.	Thu 09:35
Killinger, A.	Tue 15:10
Kilo, M.	Wed 17:00
Kim, B.-N.	Wed 12:00,
Kim, D.H.	Wed 15:30
Kim, S.	Thu 09:15
Kim, S.	Thu 14:40
King, A.	Wed 15:10
Kipphardt, H.	Wed 08:30
Kirchlechner, C.	Thu 11:40
Kirchner, A.	Tue 17:00
Klabunde, R.	E2-102
Klag, O.M.	Wed 15:10
Klauß, H.	B6-218
Klauss, H.	B6-318
Klauß, H.	Wed 09:50
Klauss, H.	Thu 15:20
Kleebe, H.J.	Tue 14:30
Kleebe, H.-J.	Tue 15:10
Kleebe, H.-J.	Wed 09:30
Kleebe, H.-J.	Thu 12:20
Kleebe, H.-J.	Thu 14:20
Klement, U.	C4-212
Klemm, M.	C2-103
Klemm, S.	B1-322
Klemm, V.	B5-636
Klemm, V.	B5-525
Klemm, V.	Tue 12:00, C2-297
Klemm, V.	Tue 12:00, C2-520
Klemm, V.	Tue 11:40
Klemm, V.	Tue 14:50
Klemm, V.	Thu 10:35
Kleppinger, R.	D2-225
Klever, C.	A2-635
Klingelhöffer, H.	Wed 11:00
Klocke, A.	Wed 09:50
Klostermann, J.	A3-345
Kluger, P.	Thu 09:55
Knieke, C.	Tue 16:40
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Koch, D.	Wed 08:30
Koch, K.	F1-656
Koch, K.	Wed 14:30
Koch, K.	Thu 12:20
Köhler, M.	Thu 10:35
Körmann, F.	Thu 09:55
Körner, E.	Tue 14:50
Kohler, C.	Wed 15:50
Kohri, H.	Wed 11:20
Kolbasnikov, N.G.	E3-48
Kolbe, W.	Tue 17:00
Kollenberg, W.	C4-308
Kommareddy, K.P.	Tue 18:00
Kondratenko, S.V.	0.0-344
Konijnenberg, P.	Wed 17:00
Konovalov, S.	Wed 16:40
Konrad, C.	B6-488
Kopecek, J.	B1-660
Kopecek, J.	Wed 15:10
Koplin, C.	A4-13
Kosanin, N.	Wed 17:40
Kosogor, A.	E3-287
Kosta, A.	Thu 12:40
Kostka, A.	Thu 11:20
Kottlorz, C.	C4-341
Koukourakis, N.	Wed 15:50,
Kovalev, A.	Wed 9:50, B2-39
Kovalev, A.	Wed 11:20
Kovalev, A.	Wed 11:40
Kowanda, C.	Tue 12:10
Kozachenko, V.	0.0-344
Kozachenko, V.V.	A4-371
Kraft, O.	F1-452
Kraft, O.	Tue 10:40
Kranzmann, A.	Wed 11:00
Kratochvíl, P.	Wed 15:10
Krautz, M.	B6-318
Krempaszky, C.	Wed 17:20
Krenkel, W.	Wed 08:30
Kröger, W.	Tue 17:00
Kroke, E.	Tue 14:50
Kroll, S.	Tue 16:40
Krüger, L.	Tue 12:00, D3-265
Krüger, L.	Wed 9:50, B2-39
Krüger, L.	Wed 11:20
Krüger, M.	Wed 11:00
Krüssel, T.	Thu 11:20
Krumme, B.	Tue 12:00, A2-763
Krumphals, F.	Wed 16:40
krumphals, F.	Wed 16:40
Krupp, U.	Tue 17:40
Kruse, J.	Wed 09:30
Krywka, C.	D2-609
Krzysztofinska, M.	Tue 10:40
Kubota, Y.	B6-476
Kucheyev, S.	Tue 14:30
Kudryashov, V.	D2-365
Kübel, C.	Tue 18:00, D3-462
Kübel, C.	Wed 08:30
Kübel, C.	Wed 14:30
Kuebel, C.	Thu 09:35
Kübel, C.	Thu 12:20
Kuebel, C.	Thu 15:20
Kuehn, U.	Tue 16:40
Kühn, U.	Wed 11:00
Kühn, U.	Wed 15:30
Kühner, P.	F3-229
Kulawinski, D.	Tue 11:00
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Kulkami, A.	Thu 09:35
Kulkov, S.	B6-181
Kulkov, S.	Wed 12:00
Kumar, A.	Tue 11:20
Kumar, R.	Wed 15:30
Kumpfmüller, J.	C4-355
Kumpfmüller, J.	Thu 15:00
Kundin, J.	Tue 15:10
Kupfer, R.	C3-254
Kups, T.	Tue 12:00, C2-498
Kurmanaeva, L.	Tue 18:00, D3-462
Kurzydlowski, K.J.	F5-317
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Kutschera, S.	C2-346
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Kuvel, R.	B6-429
Kuzmin, N.L.	E2-20
Kwiaton, N.	Thu 15:20
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Labudde, T.	Tue 15:30
Lai, Y.W.	Wed 15:50,
Laipple, D.	Wed 16:40
Lakatos, G.	F3-740
Lampke, T.	D3-141
Lampke, T.	C2-706
Lampke, T.	Tue 18:00, D3-137
Lampke, T.	Wed 18:00,
Lang, G.	F1-100
Lang, G.	Tue 11:00
Lang, K.-H.	Wed 12:00,
Lang, W.	C4-669
Lange, C.	Tue 12:00, C2-498
Lange, R.	Thu 10:35
Lapovok, R.	Tue 15:50
Lashkariov, V.	Wed 12:00,
Laska, J.	A4-424
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Leder, A.	F1-656
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Lee, C.	Thu 09:15
Lee, C.	Thu 14:40
Lee, J.	Thu 09:15
Lee, J.	Thu 14:40
Lee, J.R.I.	Tue 14:30
Legros, M.	Tue 17:40
Lehmann, G.	B5-636
Lehmann, G.	B5-525
Lehmhus, D.	C4-669
Lehmhus, D.	Wed 9:50, C1-665
Lehnert, T.	C4-670
Lei, H.	Wed 17:00
Leisegang, T.	Wed 12:00
Leist, T.	Wed 15:50,
Leiste, H.	A2-635
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Leitner, H.	Thu 15:20
Leiva-Ronda, P.	B1-57
Lellinger, D.	Tue 17:40
Leonhardt, M.	Tue 12:00, C2-520
Leyens, C.	Thu 14:20
Li, C.	A3-213
Li, C.	Tue 15:30, C1-596
Li, J.	Wed 09:10
Li, W.	Thu 09:35
Li, X.	B6-237
Li, Y.	Tue 15:50
Li, Z.	C4-303
Lin, R.	C1-821
Lin, Y.-S.	Thu 12:40
Lindemann, J.	Thu 14:20
Lindemann, J.	Thu 14:40
Lindner, P.	D2-589
Lintz, E.	Wed 11:40
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Liska, R.	F5-832
Liska, R.	Tue 18:00, F5-64
Liska, R.	Thu 14:40
Liska, R.	Thu 15:00
Liss, K.-D.	Thu 11:20
Liu, G.	Wed 15:30
Liu, H.	Wed 09:10
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Llin, A.	Thu 11:20
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Loboda, P.	Wed 11:00
Loeffler, R.	Thu 10:35
Löffler, S.	Tue 12:00, A2-466
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Logvinov, R.	Thu 11:20
Lohbauer, U.	F3-537
Loitz, H.	Wed 14:30
Lopes, E.N.	F5-686
Lopes, E.S.N.	Tue 18:00, F5-599
Loprang, R.R.	Wed 17:20
Lorenz, U.	Thu 10:15
Lorenz, U.	Thu 14:40
Loretto, M.H.	Wed 14:30
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Lotnyk, A.	D1-312
Lotnyk, A.	B1-593
Lotnyk, A.	Thu 09:35
Lotynk, A.	D1-343
Lozovski, V.	Wed 12:00,
Lu, H.	B5-305
Lu, H.	Wed 09:30
Lucas, P.	C3-254
Luchsinger, R.	Wed 14:50
Ludwig, A.	D2-127
Ludwig, A.	Wed 15:50,
Ludwig, A.	Wed 08:50
Ludwig, A.	Thu 14:00
Ludwig, C.	Wed 09:50
Ludwig, W.	Wed 15:10
Lü, Y.	Thu 12:00
Lübben, T.	Wed 15:30
Luerssen, B.	D1-18
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Lupascu, D.C.	Tue 15:30, C1-596
Lupton, D.F.	Wed 9:50, C1-33
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Lysenko, V.	Wed 12:00,
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Mácutá, S.-D.	Wed 9:50, D3-46
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Mahmoud, T.	A4-42
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Maier, H.J.	Tue 15:30
Maier, V.	Tue 15:30, C1-556
Maier, V.	Tue 18:00, D3-738
Maier, V.	Tue 16:40
Maierle, J.	Thu 09:55
Maiwals, M.	Thu 14:40
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Maksimkin, A.	Tue 17:20
Maljusch, A.	B1-322
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Manara, J.	B3-469
Manhardt, H.	Wed 9:50, C1-33
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Maria, R.	D2-225
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Marquard, A.	Wed 11:00
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Marrow, T.J.	Wed 15:10
Martin, M.	Thu 14:40
Martin, S.	Tue 12:00, D3-265
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Martin, S.	Wed 11:20
Martin, U.	C4-519
Martin, U.	Tue 12:00, D3-265
Martin, U.	Wed 9:50, B2-39
Martin, U.	Wed 11:20
Marx, M.	Tue 18:00, D3-657
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Mathew, M.D.	Tue 15:50
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Matousek, J.	A4-755
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Matsumoto, Y.	B6-822
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Meier, H.	Tue 12:00, C2-506
Meka, S.	Tue 15:30
Melnichuk, Y.Y.	0.0-344
Memarpour, A.	Thu 09:35
Meneses, R.	Tue 12:00
Menning, M.	Wed 11:40
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Michaelis, A. A2-752
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Moat, R.J. Wed 15:50
Mönch, J. Thu 10:15
Moenig, R. Tue 12:00, D3-163
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Moll, H. Tue 12:00, C2-506
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Moos, R. Tue 12:00, A2-711
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Mücklich, F. Tue 11:00
Mühle, U. Tue 12:00, C2-520
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Müller, F. F1-286
Müller, F.E.H. Tue 12:10
Müller, M. D2-609
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Müller, M. Thu 15:00
Müller, M. Thu 15:00
Müller, M.M. Thu 14:20
Müller, R. Tue 12:00, C1-672
Müller, R. Tue 12:00, C1-675
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Müller, S. Tue 17:20
Müller, S. Tue 17:40
Müller, T. C2-706
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Müller-Buschbaum, P. Wed 11:20
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Nebe, J.B. Thu 10:35
Necas, D. Tue 18:00, C2-348
Neinhuis, C. Wed 15:30
Neinhuis, C. Wed 18:00
Nestler, D. C2-706
Neugebauer, J. B5-499
Neugebauer, J. B5-507
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Neugebauer, J. F1-493
Neugebauer, J. B1-534
Neugebauer, J. Tue 16:40
Neugebauer, J. Tue 17:20
Neugebauer, J. Thu 09:35
Neugebauer, J. Thu 09:55
Neugebauer, R. Wed 18:00,
Neumann, R. Tue 15:10
Neumeier, S. Thu 15:00
Newirkowez, A. Tue 18:00, C2-605
Nick, E.-M. Thu 15:00
Nickel, D. Tue 17:00
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Nicolau, A.M. Tue 18:00, F5-189
Niederberger, M. Wed 12:00,
Niendorf, T. Tue 15:30
Nies, D. Wed 12:00,
Nikolov, S. F1-493
Nishiura, N. B6-476
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Noster, U. Tue 17:00
Novikov, A. E2-621
Nürnberger, S. Thu 12:00
Nxumalo, S. C4-169

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Oehler, H. Tue 17:40
Oehring, M. B1-272
Oehring, M. Thu 09:35
Oehring, M. Thu 10:15
Öztürk, G. A4-257
Ogurreck, M. Wed 09:30
Ogurreck, M. Wed 16:40
Ohrndorf, A. Tue 17:40
Olbricht, J. Wed 11:00
Oleneva, T. Thu 09:15
Olevsky, E. Tue 11:40
Olevsky, E. Thu 09:35
Oliveira, P.H.F. C3-549
Olschok, S. Thu 11:40
Ophey, J. Tue 12:00, D3-163
Ory, S. Wed 09:30
Oshida, H. Wed 12:00,
Ossenbrink, R. B3-351
Ossowski, M. Tue 15:30, C2-568
Ossowwski, M. F5-562
Ostafin, M. Thu 10:35
Oswald, A. B5-636
Oswald, A. B5-525
Oswald, S. B4-423
Oswald, S. 0.0-484
Oswald, S. Thu 14:00
Ott, R. Wed 08:50
Otterstein, E. C4-162
Ouyang, W. Thu 15:00
Ozkan, S. A4-138

P

Pabisch, S. Tue 14:50
Paesano Jr, A. E2-830
Paffenholz, V. Thu 11:40
Paidar, V. Thu 12:40
Paikin, A. E2-621
Pal, E. C4-669
Pal, E. Wed 9:50, C1-665
Palm, M. B1-534
Palm, M. B1-593
Palm, M. Wed 10:40
Pan, J. Tue 12:00, C1-675

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Pandey, S.	Wed 15:30
Pangpaiboon, N.	A4-416
Panjehpour, M.	B6-71
Papendorf, B.	Wed 09:30
Papula, S.	Wed 08:50
Paradowska, A.	Wed 08:50
Parameswaran, P.	Tue 15:50
Pardoen, T.	Wed 09:10
Park, H.-S.	Tue 15:30, C1-482
Park, J.-C.	B6-54
Partsch, U.	A2-752
Pasche, G.	B1-517
Paul, J.	Thu 09:35
Paul, J.D.H.	B1-272
Paul, J.D.H.	Thu 10:15
Pauly, S.	Wed 15:30
Paydar, M.H.	E2-178
Paydar, M.H.	B6-179
Paydar, M.H.	E2-180
Payton, E.	Tue 15:10
Payton, E.J.	Thu 12:40
Pazos Perez, N.	Wed 14:30
Pepke, L.-A.	Thu 12:00
Peranio, N.	Tue 15:50
Perets, J.	A4-371
Perin, V.	Tue 18:00, C2-348
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Perov, N.	A4-138
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Péter, L.	Thu 10:35
Peterlik, H.	Tue 15:50, A3-154
Peterlik, H.	Tue 14:50
Petrov, M.	F1-493
Petrovic, A.	C3-370
Petry, W.	Wed 17:20
Petzow, G.	Tue 10:40
Petzsch, F.	Thu 09:55
Peukert, W.	Tue 16:40
Pfeiffer, F.	Wed 09:30
Pflumm, R.	F1-268
Pham-Gia, K.	Wed 9:50, C1-764
Philippi, B.	Tue 17:20
Pierman, A.-P.	Wed 09:10
Pierret, S.	Wed 08:50
Pilipenko, D.	B3-373
Piorra, A.	A2-377
Pirling, T.	D2-589
Pirling, T.	Wed 17:40
Pitonak, R.	Tue 14:30
Pityana, S.L.	B1-335
Plankalayil, J.	F3-654
Plapcianu, C.	C4-382
Ploshikhin, V.	C3-387
Ploshikhin, V.	Thu 11:20
Podschuh, R.	A4-567
Podschun, R.	Thu 09:35
Pöpke, H.	D1-18
Poletti, C.	Wed 17:20
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Pollmann, K.	Wed 11:00
Polsakiewicz, D.	C4-308
Polska, U.	Tue 17:40
Pomm, M.	D2-539
Ponge, D.	Tue 14:50
Ponge, D.	Wed 09:30
Ponge, D.	Wed 12:00
Ponge, D.	Thu 12:00
Pontiller, P.	C2-285
Popp, M.	Wed 18:00,
Portella, P.D.	Wed 15:50,
Portella, P.D.	Tue 10:40
Posch, G.	Thu 14:20
Post, J.	B5-435
Pouchon, M.A.	D2-756
Pouryazdan, M.	Tue 17:40, C1-600
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Pradella, J.	Tue 15:10
Prado, L.A.S.A.	F1-332
Prahl, U.	B5-372
Prahl, U.	Tue 14:50
Prahl, U.	Wed 16:40
Prahl, U.	Wed 17:20
Prahl, U.	Thu 14:20
Prange, A.	Wed 17:40
Pranzas, P.K.	Thu 15:00
Prasad, R.M.	0.0-730
Prat, O.	E3-106
Presser, J.	C4-341
Preuss, M.	Wed 15:50
Preusse, T.	A2-480
Prihodovsky, A.	Thu 11:20
Princivalle, A.	Thu 10:35
Prokofiev, E.A.	Tue 15:10
Pucher, N.	C4-303
Pucher, N.	Tue 18:00, F5-64
Pyczak, F.	Wed 17:40
Pyczak, F.	Thu 09:35
Pyczak, F.	Thu 15:00

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Qian, T.	Tue 18:00, D3-657
Qin, X.	F5-832
Qin, X.	Thu 14:40
Quach, D.	C4-169
Quandt, E.	F5-263
Quandt, E.	A2-470
Quandt, E.	D1-343
Quandt, E.	A2-377
Quandt, E.	A2-576
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Quirmbach, P.	Thu 12:00

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Raabe, D.	D2-26
Raabe, D.	F1-274
Raabe, D.	B6-463
Raabe, D.	Tue 14:50
Raabe, D.	Tue 14:50
Raabe, D.	Tue 15:50
Raabe, D.	Wed 09:30
Raabe, D.	Wed 10:40
Raabe, D.	Wed 10:40
Raabe, D.	Wed 12:00
Raabe, D.	Wed 14:30
Raabe, D.	Wed 15:10
Raabe, D.	Thu 11:20
Raabe, D.	Thu 12:00
Raabe, D.	Thu 12:20
Raabe, D.	Thu 12:40
Rabe, U.	Tue 11:20
Rabizadeh, T.	C2-826
Rack, A.	Wed 10:40
Rademann, K.	Wed 14:50
Räthel, J.	C4-519
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Rafaja, D.	B6-429
Rafaja, D.	B5-525
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Raff, J.	Wed 11:00
Ragulya, A.	Thu 12:20
Rai, R.	Tue 11:20
Ram, F.	E3-643
Ramond, L.	Thu 10:35
Rampedi, L.	B1-335
Rampf, M.	Wed 14:50
Randau, C.	D1-637
Rappaz, M.	D2-577
Ratayski, U.	Tue 12:00, C2-520
Rath, J.	Wed 15:30
Rauber, M.	Tue 15:10
Razghandi, K.	Wed 18:00
Razumovsky,	B1-667
Rebenklau, L.	A2-752
Recker, D.	Wed 11:20
Redenbach, C.	Wed 10:40
Reese, S.	Tue 12:00, C2-506
Refle, O.	Thu 14:20
Rehman, H.	Wed 15:50,
Rehmer, B.	Wed 12:00,
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Reisgen, U. Wed 17:20
Reisgen, U. Thu 09:35
Reisgen, U. Thu 11:40
Ren, X.J. D2-494
Renard, K. Wed 10:40
Renusch, D. Wed 11:40
Renz, A. Tue 12:00, D3-336
Renz, P. Tue 15:30, C1-596
Repper, J. D2-522
Repper, J. Wed 17:20
Requena, G. Thu 14:20
Rester, M. Thu 11:40
Rethmeier, M. Thu 12:00
Rettenmayr, M. Tue 12:25
Reverey, J.F. F5-263
Reznikova, E. Wed 09:30
Rezwan, K. Tue 14:50
Rezwan, K. Tue 16:40
Rezwan, R. Thu 11:40
Richter, D. A2-200
Richter, H.-J. Thu 14:20
Ricoeur, A. Thu 09:55
Ried, P. Wed 08:30
Riedel, R. 0.0-730
Riedel, R. Tue 17:00
Riedel, R. Wed 09:30
Riedl, T. Tue 17:00
Rieheman, W. Tue 12:00, D3-749
Rieth, M. Thu 12:20
Rieu, M. Wed 09:30
Rindasu, V. D2-165
Ritter, U. A4-371
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Rödel, J. Wed 15:50,
Rödel, J. Tue 09:55
Rödel, J. Tue 15:10
Rödel, J.R. Wed 11:20
Röhe, S. Tue 15:50, A3-246
Roelandt, J.M. Wed 11:40
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Rogl, P. Wed 15:30
Rohwerder, M. B1-322
Rojacz, H. Wed 12:00,
Rojas, D. E3-106
Rolland, J.Y. Wed 09:30
Ronninger, C. Tue 15:30, C2-533
Roosen, A. Thu 11:20
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Roters, F. Tue 15:50
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Roth, A. Wed 14:30
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Roth, M. Thu 15:00
Roth, S.V. Wed 11:20
Roth-Fagaraseanu, D. Thu 14:00
Rothenstein, D. Wed 09:30
Rothkirch, A. Wed 11:20
Rott, A. Tue 14:30
Rott, G. Tue 17:00
Roungos, V. Thu 09:15
Rouquette, S. Thu 14:00
Rousseau, B. Wed 09:30
Roy, I. Tue 11:20
Rudnik, Y. C3-387
Rudnizki, J. Tue 14:50
Rudolphi, M. Wed 11:40
Ruhnow, M. Tue 17:00
Rumpler, M. Tue 18:00
Rupp, D. Thu 12:40
Rusconi, M. Wed 17:40
Russel, P.S.J. Wed 14:30
Russmüller, G. F5-832
Ryukhtin, V. Wed 08:30

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Saad, A. Tue 17:00
Saage, H. Wed 11:00
Saccone, A. Wed 15:30
Sachs, C. F1-493
Sadeghi, M. Wed 08:30
Saeed, M.E. Tue 17:40, C1-43
Saeed-Akbari, A. Thu 14:20
Safdar, A. C4-789
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Salit, V. Wed 11:20
Salmon, M. Tue 15:30
Saloman, A. Tue 17:20
Sandhya, R. Tue 15:50
Sandlöbes, S. Tue 16:40
Saparin, P. Wed 17:40
Sariolu, F. C1-746
Saruhan, B. Tue 12:00, A2-298
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Saruhan-Brings, B. Wed 08:30
Sarvezuk, P.W.C. E2-830
Saski, S. Wed 11:20
Sato, H. B6-476
Satzinger, V. C4-355
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Saukkonen, T. Tue 17:40, C1-417
Sauvage, X. Tue 17:40
Savina, I.N. Tue 15:30
Sax, A. Thu 12:00
Schaaf, P. Tue 12:00, C2-498
Schaaf, P. Tue 15:30, C2-533
Schacherl, R.E. Tue 15:30
Schacht, K. Tue 11:00
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Schäublin, R. B1-517
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Schaper, M.K. Wed 15:30
Schaper, M.K. Thu 14:00
Scharff, P. A4-371
Schattschneider, P. Tue 12:00, A2-466
Schaufler, J. C2-457
Schebaum, O. Tue 11:20
Scheerer, H. Tue 18:00, C2-119
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Scheiba, F. 0.0-484
Scheibe, H.-J. Tue 12:00, C2-520
Scheibel, T. F1-100
Scheibel, T. Tue 11:00
Scheibel, T. Wed 11:20
Scheibel, T. Wed 11:40
Scheible, T. Wed 12:00, F1-518
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Scheller, P.R. Wed 9:50, B2-39
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Scherer, T. Tue 18:00, D3-462
Scherer, T. Tue 17:40, C1-600
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Scherer, T. Thu 12:20
Scherf, H. Wed 17:40
Schestakow, I. Tue 16:40
Scheuermann, M. Wed 09:10
Schiller, S. F3-270
Schiller, S. Wed 10:40
Schillinger, B. Wed 11:00
Schimmel, T. F1-656
Schimmel, T. Wed 15:50
Schimpf, C. Tue 14:50
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Schindler, I. Wed 15:10
Schlaad, H. F1-226
Schlaad, H. Wed 12:00, F1-191
Schläfer, J. Tue 12:00, C1-675
Schlarb, A.K. Tue 16:40
Schlecht, S. D1-312
Schleser, M. Wed 17:20
Schlichting, J. Tue 17:00
Schliefer, A. Tue 16:40
Schlosser, M. Tue 14:30
Schloth, P. Tue 14:30
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Schmidtchen, S.	A2-453
Schmitt, B.	D2-756
Schmitt, C.	F1-431
Schmitt, M.	A3-67
Schmitt, V.	Wed 15:10
Schmitz, G.J.	B1-593
Schmitz, H.-W.	Thu 15:00
Schmölzer, T.	Thu 11:40
Schneider, G.	Wed 11:40
Schneider, G.A.	F1-332
Schneider, G.A.	Wed 12:00, F1-339
Schneider, G.A.	Wed 09:50
Schneider, H.-C.	Tue 10:40
Schneider, J.M.	Tue 11:20
Schneider, J.M.	Thu 14:40
Schneider, W.	E2-102
Schnettler, R.	Tue 17:40
Schnubel, D.	Thu 12:40
Schöbel, M.	Thu 11:40
Schöpe, H.J.	E3-521
Schöpe, H.J.	E3-532
Schöpe, H.J.	Tue 12:00
Scholtes, B.	Tue 17:00
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Schreiber, G.	B5-525
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Schreyer, A.	Wed 09:30
Schreyer, A.	Wed 14:30
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Schreyer, A.	Wed 16:40
Schreyer, A.	Thu 12:40
Schreyer, A.	Thu 15:00
Schröder, K.	Thu 14:20
Schryvers, D.	Wed 10:40
Schucknecht, T.	Thu 10:35
Schüler, D.	F1-286
Schüler, K.	Tue 17:20
Schürmann, U.	D1-312
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Schultz, L.	B6-318
Schultz, L.	Wed 09:50
Schultz, L.	Thu 15:20
Schulz, M.	A2-594
Schulz, M.	Tue 11:00
Schulz, M.	Wed 10:40
Schulz, U.	F1-139
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Schumacher, J.	Thu 14:40
Schwager, H.	Wed 15:30
Schwartzkopf, M.	Wed 11:20
Schwarz, M.	Tue 14:50
Schwarz, S.	C4-389
Schwarze, R.	A3-345
Schweikart, A.	Wed 14:30
Schweikert, N.	Wed 08:50
Schwentenwein, M.	F5-832
Schwentenwein, M.	Thu 14:40
Schwikowski, R.	D2-522
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Seifi, M.	E2-774
Senk, D.	Thu 11:20
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Sethmann, I.	Tue 15:10
Shackelford, J.F.	C4-211
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Shao, W.	A3-213
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Shen, H.	Tue 12:00, C1-672
Shen, H.	Wed 09:10
Shevchenko, R.	Tue 15:30
Shevchenko, T.	Wed 12:00,
Shinoda, K.	0.0-21
Shinoda, K.	Wed 15:50, D3-59
Shiota, I.	Wed 11:20
Shipway, P.	D1-107
Shvindeleman, L.S.	Thu 14:00
Siemers, C.	B1-342
Sietsma, J.	D1-828
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Siklos, M.	C4-303
Silva, K.L.	E2-830
Silva, W.M.	Thu 10:35
Simancik, F.	B5-682
Simek, D.	B5-525
Simek, D.	B5-636
Simo, A.	Wed 14:50
Singh, V.	Tue 15:50
Sinning, H.-R.	Tue 12:00, D3-749
Skiera, E.	Thu 10:15
Skrotzki, B.	Wed 12:00,
Skrotzki, B.	Tue 10:40
Skrotzki, B.	Wed 11:00
Skrotzki, W.	Thu 10:35
Sladoje, D.	C3-447
Slomski, E.M.	Tue 18:00, C2-119
Smith, A.	Wed 11:20
Snis, A.	C4-789
Sokolov, S.F.	E3-48
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Sommitsch, C.	Wed 16:40
Sommitsch, C.	Thu 12:20
Somson, C.	D3-633
Song, J.	Thu 11:20
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Souptel, D.	Wed 12:00
Sowiska, A.	F5-562
Sowiska, A.	F5-565
Soydan, A.M.	Tue 15:30, C1-586
Spaepen, F.	Tue 10:40
Speck, O.	Wed 14:50
Speck, T.	F1-431
Speck, T.	Wed 14:50
Speck, T.	Wed 17:00
Spengler, J.	B5-364
Spieß, K.	Wed 11:20
Spohn, U.	Thu 10:15
Springer, H.	Thu 12:40
Staab, T.	Wed 15:10
Stadlmann, K.	C4-355
Stadlmann, K.	Tue 18:00, F5-64
Stadlmann, K.	Thu 15:00
Staehlke, S.	Thu 10:35
Stampfl, J.	C4-303
Stampfl, J.	C4-355
Stampfl, J.	F5-832
Stampfl, J.	Tue 18:00, F5-64
Stampfl, J.	Thu 14:40
Stampfl, J.	Thu 15:00
Stark, A.	Thu 09:35
Stark, N.	E2-102
Starke, P.	Wed 18:00,
Starke, P.	Wed 17:40
Staron, P.	D2-365
Staron, P.	Wed 14:30
Staron, P.	Thu 12:40
Stefanescu, F.	D2-165
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Stein, F.	B1-593
Stein, F.	Wed 10:40
Stein, L.	Thu 09:35
Steinbach, I.	E3-153
Steinbach, I.	Tue 14:30
Steinborn, G.	B3-469
Steinbrech, R.W.	Thu 10:15
Steiners, M.	Thu 09:35
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Stenzel, C.	Tue 11:00
Stevan, S.	C3-370
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Stöger-Pollach, M.	Tue 12:00, A2-466
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Stoschka, M.	Thu 15:20
Straub, T.	B6-359
Strauß, C.	Thu 14:20
Strehl, G.	D3-141
Struis, R.P.W.J.	Wed 09:50
Strunskus, T.	A2-576
Strunskus, T.	A4-567
Strunskus, T.	A4-591
Strunskus, T.	Thu 09:35
Stüber, M.	A2-635
Stüber, S.	Wed 9:50, D3-316
Stukowski, A.	B6-680
Sturm, D.	B1-593
Sturm, H.	C4-669
Su, X.X.	D2-494
Suffner, J.	Thu 15:20
Suhre, M.H.	Wed 11:40
Susila, P.	Tue 14:30
Suty, M.	Tue 10:40
Suzuki, S.	0.0-21
Suzuki, S.	Wed 15:50, D3-59
Svendsen, B.	Wed 12:00
Svensson, M.	Thu 14:00
Svoboda, J.	Tue 17:00
Svoboda, J.	Tue 17:40
Swain, M.V.	Wed 09:50
Swieszkowski, W.	F5-317
Sytchev, J.	D2-741
Szawnowski, J.	C4-231

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Ta, M.-T.	Wed 09:30
Tabatabaei, Y.	E2-774
Takagi, H.	E2-175
Takahashi, R.	D2-127
Takahashi, T.	Tue 11:20
Takeshi, G.	C4-36
Takeuchi, I.	D2-127
Talík, M.	Wed 10:40
Tamehiro, H.	E2-175
Tanaka, K.	Wed 11:20
Tatschev, D.	Thu 15:00
Tcherdyntsev, V.	Tue 17:20
Tekkaya, E.	Wed 12:00
Telle, R.	Tue 18:00, C2-605
Teryaev, D.	E2-621
Thackray, R.	D1-792
Theisen, W.	Tue 18:00, C2-650
Theisen, W.	Tue 12:00, C2-506
Theisen, W.	Wed 9:50, B2-455
Theisen, W.	Thu 14:40
Thiel, K.	Thu 12:00
Thielen, M.	F1-431
Tholey, M.	E3-340
Thomas, A.	Tue 11:20
Thomas, I.	Tue 11:40
Thomas, P.	Tue 11:20
Thoss, F.	B4-423
Threadgrill, P.L.	Wed 15:50
Thron, A.M.	Thu 12:00
Tie, D.	F5-37
Tillmann, W.	Tue 15:30, C2-74
Tillmann, W.	Thu 09:55
Tkachenko, K.	E2-621
Todd, I.	D1-792
Todoshchenko, O.	Tue 17:40, C1-417
Todoshchenko, O.	Wed 08:50
Toews, K.D.	Thu 12:40
Toimil-Molares, M.E.	Tue 15:10
Tolstosheeva, E.	C4-669
Torgersen, J.	Tue 18:00, F5-64
Touková, J.	A4-755
Tourret, D.	E3-90
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Traiphol, N.	A4-416
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Tran, T.	C4-211
Tran, T.	C4-212
Tran, T.	Thu 10:15
Trassl, S.	Wed 15:10
Traykova, T.	Wed 12:00, F1-696
Treccani, L.	Tue 14:50
Treccani, L.	Tue 16:40
Treccani, L.	Thu 11:40
Tredici, I.	Thu 09:15
Triebel, C.	Tue 17:40
Troßmann, T.	F1-135
Troßmann, T.	Tue 18:00, C2-119
Troßmann, T.	Tue 15:30, C2-118
Trucatto, M.	C4-382
Truszkowski, T.	F5-562
Truszkowski, T.	F5-565
Tsakiropoulos, P.	D1-792
Tschichholz, G.	B3-469
Tsykhonia, A.	Wed 12:00,
Tu, H.Y.	C3-387
Türeyen, K.	Tue 18:00, F5-439
Turley, F.	Thu 14:00

U

Übeyl, M.	D3-360
Übeyli, M.	Tue 18:00, F5-439
Uhlmann, I.	Tue 15:10
Ulbricht, D.	A4-354
Ulbricht, D.	C2-346
Ulrich, S.	A2-635
Urlau, U.	Wed 09:30

V

Vainio, U.	Thu 15:00
Valeriani, A.	Wed 17:40
Valiev, R.Z.	Tue 15:10
van Benthem, K.	Thu 12:00
van Buuren, A.	Tue 14:30
van der Biest, O.	Thu 12:40
Van Petegem, S.	D2-756
Van Petegem, S.	Tue 17:40
Van Petegem, S.	Wed 15:30
Van Petegen, S.	Tue 14:30
Van Petegern, S.	D2-320
Van Petegern, S.	0.0-444
Van petegern, S.	Wed 11:40
Van Swygenhoven, H.	D2-320
Van Swygenhoven, H.	D2-756
Van Swygenhoven, H.	Tue 14:30
Van Swygenhoven, H.	Tue 17:40
Van Swygenhoven, H.	Wed 08:50
Van Swygenhoven, H.	Wed 11:40
Van Swygenhoven, H.	Wed 15:30
Van	0.0-444
Van	Tue 13:45
Vander, A.	B4-702
Vannod, J.	D2-577
Vanovsek, W.	Thu 14:20
Varga, F.	F5-832
Varga, F.	Thu 14:40
Varga, M.	Wed 12:00,
Vasilescu, E.	Tue 18:00, F5-189
Vasilyev, A.	E3-48
Vasilyev, A.	E2-20
Vasilyev, A.A.	E2-66
Veehmayer, M.	Thu 11:20
Vehoff, H.	B1-664
Vehoff, H.	Tue 18:00, D3-657
Vehoff, H.	Tue 11:40
Vehoff, H.	Tue 17:20
Veith, M.	C4-670
Velickovic, B.	C3-447
Verdes, B.-A.	E2-825
Veres, D.	B3-630
Veron, E.	Wed 09:30
Vetter, M.	Wed 17:00
Veyssière, P.	Thu 12:00
Vidrich, G.	Tue 12:00, D3-749
Villaret, V.	Thu 14:00
Viswanath, R.N.	Tue 15:30
Vitek, V.	Thu 12:40
Vlasak, T.	Wed 10:40
Vlasova, E.	A4-652
Völkl, R.	B6-488
Völkl, R.	B6-489
Volkmann, T.	E3-90
von Appen, J.	Thu 09:15
von Byern, J.	Thu 12:00
von Gynz-Rekowski, C.	B3-235
von Hagen, R.	Tue 12:00, C1-675
von Klinski-Wetzel, K.	Tue 12:10
von Niessen, K.	Tue 16:40
von Petzold, J.	B5-507
von Woedtke, T.	Thu 14:20

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Vor, H.	Wed 17:40
Voß, S.	Wed 10:40
Vovchenko, L.L.	A4-371
Vukicevic, M.	C3-370
Vukicevic, M.	C3-447
Vukicevic, M.	C3-370
Vukicevic, M.	Wed 17:40

W

Wackermann, K.	Tue 15:10
Wagner, B.	A2-585
Wagner, G.	Wed 15:10
Wagner, J.B.	Wed 14:50
Wagner, K.	F1-135
Wagner, M.	D3-141
Wagner, M.	Wed 18:00,
Wagner, M.	Tue 17:00
Wagner, M.F.-X.	D3-253
Wagner, S.	D3-253
Wagner, S.	Tue 17:00
Walheim, S.	F1-656
Wall, B.	Tue 10:40
Walles, H.	Thu 09:55
Walter, S.	E3-352
Wang, D.	A2-502
Wang, D.	Tue 17:40, C1-600
Wang, D.	Wed 14:30
Wang, D.	Thu 15:20
Wang, G.	Thu 14:40
Wang, Q.	Tue 18:00
Wang, X.	0.0-615
Wang, Y.M.	0.0-615
Wang, Y.M.	Wed 08:50
Wannabaipoon, S.	Wed 11:20
Warchomicka, F.	Wed 17:20
Warzecha, M.	Wed 9:50, B2-157
Watanabe, Y.	B6-476
Weber, A.	F3-654
Weber, G.	Thu 12:00
Weber, O.	Wed 10:40
Weber, S.	Tue 18:00, C2-650
Weber, S.	Wed 9:50, B2-455
Weber, S.	Tue 11:55
Weber, S.	Thu 14:40
Weber, U.	A4-217
Weber, U.	C3-387
Wei, L.Y.	C4-789
Weidner, A.	Wed 14:50
Weiler, L.	Wed 11:20
Weinberger, M.	Tue 14:50
Weinberger, T.	Wed 16:40
Weiner, S.	Wed 08:30
Weinert, U.	Wed 11:00
Weinkamer, R.	Wed 17:40
Weinmann, W.	Tue 17:20
Weirich, T.E.	Thu 15:00
Weis, A.	F1-656
Weiß, A.	Wed 9:50, B2-39
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Weißbach, T.	Wed 12:00
Weisser, M.	Wed 15:30
Weissmüller, J.	Tue 15:30, C1-597
Weissmüller, J.	Tue 15:30
Welter, E.	Wed 12:00
Welter, E.	Thu 15:00
Weltmann, K.-D.	Thu 14:20
Wendrock, H.	Wed 11:00
Wenisch, S.	Tue 17:40
Wenzel, C.	Thu 09:55
Wenzel, M.	D2-225
Werner, C.	C4-669
Werner, C.	Tue 11:40
Werner, C.	Thu 09:15
Werner, E.	Wed 17:20
Werre, P.	E3-521
Weygand, S.M.	Thu 12:40
Wielage, B.	C2-706
Wierzcho, T.	F5-562
Wierzcho, T.	F5-565
Wierzchon, T.	Tue 15:30, C2-568
Wierzo, T.	B6-563
Wiesmann, J.	D1-314
Wietbrock, B.	Thu 11:40
Wildau, M.	Tue 15:30
Wilde, F.	Wed 16:40
Wilden, J.	Tue 15:30, C2-533
Wilhelm, M.	Wed 10:40
Wilke, M.	Tue 12:00, C2-498
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Willert-Porada, M.	C2-285
Willert-Porada, M.	Tue 15:30, C1-482
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Willert-Porada, M.	Thu 11:20
Willey, T.	Tue 14:30
Williams, J.	Wed 15:50,
Willumeit, R.	F5-37
Wimpory, R.	Thu 11:40
Winkler, M.	Tue 15:30, C1-556
Winning, M.	Tue 14:50
Winning, M.	Wed 10:40
Winning, M.	Wed 14:30
Winzer, J.S.	Wed 11:20
Wirjadi, O.	Wed 10:40
Wirth, I.	Thu 14:40
Witt, U.	Tue 15:50
Witte, F.	Tue 17:20
Wittstock, A.	Tue 15:50, A3-246
Witusiewicz, V.	Wed 16:40
Wörner, C.	Wed 12:00,
Wohner, N.	A4-567
Wojarski, L.	Thu 09:55
Wolf, F.G.	A3-67
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Wolf, M.	Thu 11:40
Wolf, S.	Tue 12:00, D3-265
Wolf, S.	Wed 9:50, B2-39
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Wolff, M.	F1-332
Wolinski, P.	Wed 9:50, B2-157
Woltermann, E.	A2-585
Wondraczek, L.	B4-702
Wondraczek, L.	Wed 14:30
Wondraczek, L.	Wed 18:00
Woodcock, T.	Wed 17:00
Wu, K.	D1-637
Wu, K.	Tue 15:30, C1-482
Wu, M.	Wed 08:50
Wu, Q.	B6-538
Wu, Q.	Wed 9:50, D3-543
Wu, X.	Wed 15:10
Wüller, E.	Tue 16:40
Wüst, J.	D2-225
Wüstefeld, C.	Tue 12:00, C2-297
Wuestefeld, C.	Tue 11:40
Wulfhorst, J.	Wed 9:50, C1-570
Wunderlich, F.	Wed 12:00
Wunderlich, G.	Thu 12:20
Wunderlich, W.	C4-36
Wurster, S.	Thu 09:55
Wuttig, M.	A2-377
Wuttig, M.	Thu 15:40

X

Xia, H.	A2-453
Xiao, L.	Tue 12:00, C1-675

Y

Yagodzinskyy, Y.	Tue 17:40, C1-417
Yagodzinskyy, Y.	Wed 08:50
Yan, X.	Wed 15:30
Yetik, H.	Tue 18:00, F5-439
Yi, S.	Tue 16:40
Yildiz, Ö.	Tue 15:30, C1-586
Yilmaz, E.	B6-624
Yíma, V.	Wed 15:10
Yind, D.	Tue 18:00
Yoo, J.	Thu 14:40
Yoon, B.	Thu 09:15
Yoon, K.H.	Tue 15:30, C1-596
Yoon, W.-S.	Wed 08:50
Young, M.L.	D2-127
Yüce, A.	Tue 12:00, A2-298
Yüce, A.	Wed 11:20
Yukawa, H.	B6-822
Yumoto, A.	Wed 11:20

Z

Zaefferer, S.	E3-643
Zaefferer, S.	Tue 11:20
Zaefferer, S.	Tue 11:40
Zaefferer, S.	Tue 14:50
Zaefferer, S.	Tue 16:40

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Zaefferer, S.	Wed 17:00
Zaefferer, S.	Thu 12:20
Zaghrioui, M.	Wed 09:30
Zajak, D.	Thu 15:00
Zajickova, L.	Tue 18:00, C2-348
Zamanzade, M.	B1-664
Zambaldi, C.	Thu 12:20
Zametta, R.	Tue 15:10
Zamponi, C.	F5-263
Zamponi, C.	A2-470
Zander, D.	Thu 15:20
Zaporojtchenko, V.	A4-567
Zaporojtchenko, V.	A2-576
Zaporojtchenko, V.	A4-591
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Zarei, Z.	C2-826
Zarnetta, R.	D2-127
Zaslansky, P.	Wed 12:00, F1-696
Zeffiro, A.	Thu 09:15
Zeng, M.	Tue 14:30
Zeng, X.H.	Thu 12:40
Zenker, R.	C2-103
Zhang, F.	C4-162
Zhang, F.	Tue 17:00
Zhang, W.	B3-351
Zhao karger, Z.	Wed 14:30
Zheng, M.Y.	D1-637
Zheng, N.	Thu 14:40
Zhong, Y.	Tue 15:30, C1-597
Zhou, J.	Thu 10:15
Zhu, L.-F.	Tue 16:40
Ziaei Rad, S.	D1-673
Zielasek, V.	Tue 15:50, A3-246
Zigler, A.	F1-493
Zillmann, B.	Wed 18:00,
Zimmermann, J.	D2-756
Zimmermann, J.	D2-320
Zimmermann, J.	Tue 17:40
Zimmermann, J.	Wed 11:40
Zimmermann, M.	Wed 18:00
Zlotnikov, I.	Wed 12:00, F1-191
Zoch, H.-W.	Wed 15:30
Zöllmer, V.	C4-669
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Zöllmer, V.	Thu 14:40
Zollfrank, C.	Wed 09:10
Zoughi, M.	C2-824
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MSE Side Events
Building S3/20
Exner Memorial
karo 5
MSE 2010
Hessisches Landesmuseum
Friedensplatz
Luisenplatz
Ernst-Ludwigs-platz
Schloss
Marktplatz
Alexanderstraße
Rundeturmstraße
Landgraf-Georg-Straße
Kantplatz
Hochschulstraße
Lauteschlägerstraße
Mauerstraße
Heinheimer Straße
Luisenstraße
Schleiermacherstraße
Wilhelminenstraße
Holzstraße
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