Technische Universität Berlin

FINAL PROGRAM
ANNUAL MEETING 2006

27th – 31st March

http://www3.math.tu-berlin.de/gamm_2006

Gesellschaft für Angewandte Mathematik und Mechanik e.V.
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Welcome to the GAMM Annual Meeting 2006 in Berlin.

The Gesellschaft für Angewandte Mathematik und Mechanik (International Association of the Applied Mathematics and Mechanics) aims to cultivate and foster scientific research in the field of Applied Mathematics and all branches of Mechanics and Physics which contribute to the foundations of engineering sciences. One of the major goals are to support international cooperation and the organization of scientific events. Clearly the „Jahrestagung“ (Annual Meeting), which is regularly held in Spring, is The Major Event.

To promote the international idea the Annual Meeting is hosted almost every second year by a city outside of Germany. However this year, I am extremely happy that GAMM could accept the offer from the Technical University Berlin to hold the conference in Berlin. It is the first time back in Berlin after more than a quarter of a century and the first time after the fall of the wall. Needless to say that Berlin has gone through a dramatic change in these years.

The Program Committee assisted by the Special Interest Groups (Fachaußschüsse) and the local organizing committee under the leadership of Prof. Dr. Volker Mehrmann and Prof. Dr. Oliver C. Paschereit worked hard to create an excellent program: ten invited addresses, the 49th Ludwig Prandtl Memorial Lecture, presented by Rainer Friedrich of the Technical University München, and the Richard-von-Mises Prize lecture are substantial parts of the conference. In ten Minisymposia results in a hot topic will be presented. Again the Young Researchers’ Minisymposia attracted excellent proposals. The bulk of research in our fields is presented in 21 sections and an embedded session. The public Lecture is intended to bring one of our fields closer to the interested layman. This year’s lecture carries the title „Mathematical Approaches to Complex Systems in Bio- and Nanotechnology“ and will be presented by Prof. Dr. Christof Schütte who is one of the executive members of the DFG Research Center Matheon.

At this point I would like to thank the local organizers and their team for the great work they have done.

All attendees are invited to the Opening Ceremony taking place on Monday, March 27th, 2006 at 13:00 a.m. At this event we celebrate the exceptional young talents in our Science by handing over the Richard-von-Mises Prize to the winner. Finally, I want to recall that the General Assembly (Mitgliederversammlung) of the GAMM-Association will be held on Wednesday, March 29th, 2006 at 11:00 a.m.

Enjoy now not only what the GAMM 2006 Annual Meeting can offer to you but also what this unique, culturally rich city of Berlin, where historic buildings contrast with modern complexes, presents to its visitors. Make use of the evenings to go to the opera, a concert or a play or simply relax with your friends with good food, a beer or a glass of wine. The world does not only exist of mathematics and mechanics and Berlin is an excellent place where one can experience this.

Rolf Jeltsch
The President of GAMM
GAMM Annual Meeting 2006
in Berlin, Technische Universität Berlin
March 27th – March 31st, 2006

Invitation


The regular General Assembly of GAMM will be held on Wednesday, March 29th at 11:00 in the “Audimax” (H105) of Technische Universität Berlin.

On behalf of the Deutsche Gesellschaft für Luft- und Raumfahrt (DGLR) and the GAMM we also invite you to attend the 49th Ludwig Prandtl Memorial Lecture.

The President of GAMM  The Secretary of GAMM
R. Jeltsch  V. Ulbricht

Venue

The GAMM Annual Meeting 2006 in Berlin is taking place at Technische Universität Berlin. The sessions will be held in the main building and in the mathematics building.

The Opening Session including the Ludwig Prandtl lecture and the public lecture will be held in the Audimax in the main building.

Simultaneously to the conference an exhibition is taking place. The exhibition is located in the “Lichthof” of the main building. Please find a list of exhibitors in the back of this Program.

There will be a reception on Monday starting at 18:30 in the Lichthof, where the exhibition is located. After the public lecture on Wednesday, the 29th you will have the opportunity to participate in the conference dinner at the Mensa, starting at 20:00.

Please note that smoking is not allowed inside the buildings.
The roots of the Technische Universität Berlin: The history of Technische Universität Berlin goes back much further than the re-establishment under this name in 1946.

The roots in fact can be traced back to the 18th century. Friedrich der Große established the Bergakademie (Mining Academy) in Berlin in 1770, which was one of the three institutions that were the original predecessors to the TU Berlin. The two others were the Bauakademie (Building Academy) established in 1799, and the Gewerbeakademie (Vocational Academy (1821)). The latter two were merged in 1879 to form the Königlichen Technischen Hochschule zu Berlin (Royal Technical College of Berlin), located outside the city boundaries in Charlottenburg. In 1916 the Mining Academy also became a part of it.

Technische Universität Berlin, with approximately 31,500 students, is one of the largest German Institutes of Technology. In contrast to many other such institutions it offers a wide range of subjects. In addition to the core subjects in natural sciences and engineering, TU Berlin also has faculties and institutes specialising in planning, humanities, social sciences and economics. In the Berlin region it offers the widest range of engineering programs.

Parking and Public Transportation

Although the conference will take place during the semester break very limited parking places are at your disposal on the Straße des 17. Juni.

Berlin has a great public transportation system. Therefore we highly recommend to leave the car at the hotel and use the bus or the U-Bahn. A 7-Day ticket for Berlin ABC even enables you to make tours outside the city. For prices and more information please check the web-site http://www.bvg.de.

Organizing Committee

Volker Mehrmann Oliver C. Paschereit
Christian Mehl Wolfgang H. Müller Utz von Wagner

Organizational support is provided by the TU Berlin Servicegesellschaft mbH.
Invitation to the General Assembly

On the occasion of the GAMM 2006 Annual Conference in Berlin, the General Assembly for GAMM members will be held on Wednesday 29th March 2006 at 10:30 in the Lecture Hall “Audimax” (H 105) of the Technical University Berlin.

Agenda

1. President's report
2. Treasurer's report
3. Cash auditor's report
4. Discharges of the Governing Council
5. New elections
   - **R. Kreißig**, Chemnitz, 2. period of office, *not reeligible*
   - **H.G. Roos**, Dresden, 2. period of office, *not reeligible*
   - **H. Ulbrich**, München, 1. period of office, *reeligible*
6. Membership fees
7. Activity groups
8. Miscellaneous

All GAMM members are invited to take part in this meeting.

Volker Ulbricht
The Secretary of GAMM

German Branch of GAMM

After the General Assembly the German Branch of GAMM will hold its meeting at the same place.

Friedrich Pfeiffer
The Vice-President of GAMM
Einladung zur Mitgliederversammlung

Im Rahmen der GAMM-Jahrestagung 2006 in Berlin findet am Mittwoch, dem 29. März 2006, um 10.30 Uhr die Mitgliederversammlung der Gesellschaft für Angewandte Mathematik und Mechanik e.V. im Audimax (H 105) der Technischen Universität Berlin statt.

Tagesordnung

1. Bericht des Präsidenten
2. Bericht des Schatzmeisters
3. Bericht der Kassenprüfer
4. Entlastung des Vorstandes
5. Neuwahlen
   R. Kreißig, Chemnitz, 2. Amtperiode, nicht wiederwählbar
   H.G. Roos, Dresden, 2. Amtperiode, nicht wiederwählbar
   H. Ulbrich, München, 1. Amtperiode, wiederwählbar
6. Mitgliedsbeiträge
7. Fachausschüsse
8. Verschiedenes

Hiermit lade ich alle Mitglieder der GAMM zur Mitgliederversammlung ein.

Volker Ulbricht
Sekretär der GAMM

Deutsche Sektion der GAMM

Anschließend an die Mitgliederversammlung wird die Deutsche Sektion der GAMM am gleichen Ort tagen.

Friedrich Pfeiffer
Vizepräsident der GAMM
Scientific Program

Opening Session, Plenary Lectures and Public Lecture

All lectures will be held in the Audimax (H 105, Main Building)

Monday March 27th, 2006

13:00 Opening Session, Audimax (H 105, Main Building) of Technische Universität Berlin

13:30 49th Ludwig Prandtl Memorial lecture
R. Friedrich, Garching
*Compressible Turbulent Flows: Aspects of Prediction and Analysis*

14:30 J.W. Demmel, University of California at Berkeley
*The future of LAPACK and ScaLAPACK*

Tuesday March 28th, 2006

8:30 J. McKenna, University of Connecticut
*Nonlinear Oscillations in Suspension Bridge Models*

Wednesday March 29th, 2006

8:30 J. Schröder, Universität Duisburg-Essen
*Recent advances in modeling of anisotropic materials*

9:30 V. Mises prize lecture

18:30 public lecture
C. Schütte, Freie Universität Berlin
*Mathematical Approaches to Complex Systems in Bio- and Nanotechnology*

Thursday March 30th, 2006

8:30 J. F. Golse, ENS Paris
*From the kinetic theory of gases to the Euler or Navier-Stokes equations*

9:30 D.H. van Campen, Eindhoven University of Technology
*Nonlinear Dynamics of Non-smooth Mechanical Systems*

10:30 Coffee Break
11:00  **F. Bornemann**, Technische Universität München  
*Fast Variational Image Inpainting*

**Friday March 31st, 2006**

8:30  **P. Hansbo**, Chalmers Univ. of Technology  
*Nitsche's method for interface problems*

9:30  **M. Groves**, Loughborough University  
*Three-dimensional travelling gravity-capillary water waves*

10:30  Coffee Break

11:00  **O. Sigmund**, Technical University of Denmark  
*Current developments in topology optimization and material design*

12:00  **B. Wohlmuth**, Universität Stuttgart  
*Stable hybridization techniques in computational mechanics*

**Mini-symposia**

**Monday, March 27th, 2006, 16:00 – 18:00**

**Multigrid methods for optimal control of PDE’s**
Organizers:  
**A. Borzi**, Universität Graz  
**B. Vexler**, Austrian Academy of Sciences Linz

**Application and Theory of Stochastic Optimization Treatments**
Organizers:  
**K. Marti**, Universität der Bundeswehr München  
**T. Vietor**, Ford-Werke GmbH Köln

**Discrete and continuous nonlinear variational problems**
Organizers:  
**F. Otto**, Universität Bonn  
**M.A. Peletier**, Technische Universität Eindhoven  
**W. Reichel**, Universität Zürich

**Mechanic of cells**
Organizers:  
**J.P. Spatz**, Universität Heidelberg  
**U. Schwarz**, IWR, Universität Heidelberg

**Computational plasticity**
Organizers:  
**D. Raabe**, Max-Planck-Institut für Eisenforschung  
**P. Gumbsch**, Fraunhofer-Institut für Werkstoffmechanik Freiburg

**Feedback flow control**
Organizers:  
**R. King**, Technische Universität Berlin  
**B. Noack**, Technische Universität Berlin
Young researchers’ Mini-symposia

Tuesday, March 28th, 2006, 9:30 – 10:30, 11:00 – 12:00

Numerical Analysis of Partial Differential Equations
Organizers: S. Bartels, Humboldt-Universität zu Berlin
            M. Verani, Politecnico di Milano

Multiscale Systems in Refined Network Modeling: Analysis and Numerical Simulation
Organizers: A. Bartel, Universität Wuppertal
            M. Selva Soto, Humboldt-Universität zu Berlin

Iterative Methods for Large and Structured Matrix Computations
Organizers: D. Kressner, University of Zagreb
            B. Plestenjak, University of Ljubljana

Nano-to-macro characterization of hard and soft biological tissues: the contribution of Applied Mechanics and Mathematics
Organizers: C. Hellmich, Technische Universität Wien
            B. Markert, Universität Stuttgart

Sections of Short Communications

The short communications are scheduled on Tuesday, Wednesday and Thursday afternoon from 13:30 to 15:30 and from 16:00 to 18:00. Each talk is strictly limited to 20 minutes, including discussion.

1. Mehrkörperdynamik – Multi body dynamics
   Organizers: P. Betsch, Universität Siegen
              C. Wörnle, Universität Rostock

2. Biomechanik - Biomechanics
   Organizers: W. Ehlers, Universität Stuttgart
              E. Kuhl, Universität Kaiserslautern

3. Schädigungs- und Bruchmechanik – Damage and fracture
   Organizers: W. Brocks, Research Centre Geesthacht
              R. Müller, Technische Universität Darmstadt

4. Strukturmechanik – Structural mechanics
   Organizers: W. Becker, Technische Universität Darmstadt
              W. Wagner, Universität Karlsruhe
5.  *Schwingungen - Oscillations*
Organizers:  
P. Eberhardt, Universität Stuttgart  
W. Seemann, Universität Karlsruhe

Organizers:  
A. Bertram, Universität Magdeburg  
P. Steinmann, Technische Universität Kaiserslautern

7.  *Gekoppelte Probleme – Coupled problems*
Organizers:  
S. Diebels, Universität des Saarlandes Saarbrücken  
S. Reese, Ruhr-Universitaet Bochum

8.  *Mehrskalen und Homogenisierung – Multiscales and homogenization*
Organizers:  
C. Miehe, Universität Stuttgart  
A. Mielke, WIAS Berlin

9.  *Turbulente und reaktive Strömungen - Turbulence and reactive flows*
Organizers:  
C. Oliver Paschereit, Technische Universität Berlin  
D. Thevenin, Otto-von-Guericke-Universität Magdeburg  
F. Thiele, Technische Universität Berlin

10.  *Reibungsbehaftete Strömungen - Viscous flows*
Organizers:  
N. Aksel, Universität Bayreuth  
G. Böhme, Universität der Bundeswehr Hamburg  
D. Hänel, Gerhard-Mercator-Universität Duisburg

11.  *Wellen und Akustik – Waves and Acoustics*
Organizers:  
A. Kluwick, Technische Universität Wien  
F. Ziegler, Technische Universität Wien

12.  *Angewandte Analysis – Applied Analysis*
Organizers:  
A. Münch, Humboldt-Universität zu Berlin  
G. Schneider, Universität Karlsruhe

13.  *Angewandte Stochastik – Applied Stochastics*
Organizers:  
W. Römisch, Humboldt-Universität zu Berlin  
K. Sabelfeld, Weierstraß-Institut Berlin

14.  *Computeralgebra und Analysis – Computer Algebra and Computer Analysis*
Organizers:  
W.M Seiler, Universität Heidelberg  
B.Tibken, Bergische Universität Wuppertal

15.  *Optimierung - Optimization*
Organizers:  
M. Hintermüller, Universität Graz  
A. Martin, Technische Universität Darmstadt
Organizers: R. Nabben, Technische Universität Berlin
            M. Tuma, Karls-Universität Prag

Organizers: B. Simeon, Technische Universität München
            C. Wieners, Universität Karlsruhe

18. Optimierung von Differentialgleichungen (ODE, DAE, PDE) – Optimization of Differential Equations
Organizers: V. Heuveline, Universität Karlsruhe
            M. Hinze, Technische Universität Dresden

19. Dynamik und Regelung – Dynamics and Control
Organizers: B. Jacob, Technische Universität Berlin
            K. Schlacher, Universität Linz

20. Mathematische Bildverarbeitung – Mathematical Image Processing
Organizers: M. Hanke-Bourgeois, Johannes Gutenberg-Universität Mainz
            J. Weickert, Universität des Saarlandes Saarbrücken

Embedded Session

Theoretische Untersuchungen und Ingenieuranwendungen von Wirbelflüssen - Theoretical studies and engineering applications of vortical flows
Organizer: E. Krause, RWTH Aachen
Special Events

Monday, March 27th, 2006
9:00 – 18:00
Registration
Main building of TU Berlin

Monday, March 27th, 2006
13:00 – 14:30
Opening Session including the Ludwig Prandtl
Memorial Lecture
Main building of TU Berlin, Audimax

Monday, March 27th, 2006
18:30 – 19:00
Reception in the „Lichthof“
Main building of TU Berlin

Tuesday, March 28th, 2006
18:00 – 19:00, 19:00 – 20:00
Possibility to visit the „Reichstag“

Tuesday, March 28th, 2006
18:00 – 19:00
Reception by the Governing Mayor of Berlin
Rotes Rathaus

Tuesday, March 28th, 2006
20:00 – 21:30
Concert of the Artemis Quartett
Berliner Philharmonie, Kammermusiksaal

Wednesday, March 29th, 2006
18:30 – 19:30
Public Lecture
Main building of TU Berlin, Audimax

Wednesday, March 29th, 2006
20:00 – 22:30
Conference Dinner
TU Mensa

Friday, March 31st, 2006
17:00 – 18:00
Possibility to visit the „Reichstag“
Sightseeing

Visiting the Reichstag is part of the conference Program. Two tours are offered on Tuesday, March 28th, 2006 at 18:00 and 19:00, and one on Friday, March 31st, 2006 at 17:00.

All participants who take part in one of the tours need to be at the Reichstag one hour in advance. Only persons who have send their birthdate in advance can participate in the tours. It is very important, that you bring your passport or your identification card. Meeting point is on the left side of the Reichstag, Westportal, Platz der Republik 1.

More sightseeing possibilities and more information is provided on our web-site, http://www3.math.tu-berlin.de/gamm_2006/ and on the conference site.
## Registration

**Registration**  
On-site registration is possible. Also, accompanying persons will have to register if they intend to participate in conference events, or the reception by the Governing Mayor.

**Registration fee for participants includes**  
If you register on-site only cash and credit cards are accepted (VISA and EURO/Master).
- Access to the scientific sessions and the exhibition;
- Book of abstracts;
- Conference kit;
- Public lecture;
- Coffee breaks from Monday to Friday;
- Certificate of attendance;
- Reception in the “Lichthof”
- Reception by the Governing Mayor of Berlin;

**Accompanying persons:**
- Reception by the Governing Mayor of Berlin;
- Public lecture;
- Reception in the „Lichthof“
- Conference dinner

**Scholarship**  
Participants who have been granted a scholarship can withdraw their allowance at the registration office during opening hours. Please make sure to bring your travelling documents and your ID/passport.

**Confirmation**  
Upon receipt of the full registration, each participant will receive a confirmation of his registration and an invoice via email.

Bank transfer sometimes needs more time than expected. Therefore we kindly ask you to bring your transfer voucher to the conference site.
**On-site Registration**

The Registration Desk will be opened for picking up the conference material and for on-site registrations at the following times:

- Monday, March 27th, from 9:00 to 18:00 at the main building
- Tuesday, March 28th, from 8:30 to 18:00 at the main building
- Wednesday, March 29th, from 8:30 to 18:00 at the main building
- Thursday, March 30th, from 8:30 to 18:00 at the main building
- Friday, March 31st, from 8:30 until 12:00 at the main building

**For contact after the conference**

TU Berlin Servicegesellschaft mbH
Hardenbergstrasse 19
10623 Berlin
Germany
Tel: +49-(0)30-447 202 66
Fax: +49-(0)30-447 202 88
E-mail: kongresse@tu-servicegmbh.de
URL: http://www.tu-servicegmbh.de/

**Conference Fees**

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
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<tr>
<td>GAMM members</td>
<td>190,00 €</td>
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<tr>
<td>Non-members</td>
<td>265,00 €</td>
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<tr>
<td>Students</td>
<td>120,00 €</td>
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<tr>
<td>Conference dinner (participants)</td>
<td>25,00 €</td>
</tr>
<tr>
<td>Accompanying person (incl. dinner)</td>
<td>55,00 €</td>
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<tr>
<td>Tour Reichstag</td>
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<tr>
<td>Concert at the Philharmonie</td>
<td>25,00 - 40,00 €</td>
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**Remarks:**

- **We kindly ask you to wear your badge all the time.**
- Non-members are invited to become members of the GAMM. In this case the difference between the registration fee for non-members and members will be counted as GAMM membership for one year.
General Information

• Lunch: There is a variety of cafés, restaurants and cafeterias on and around the campus. Many restaurants around the university have special lunch offers. Our restaurant guide in your conference bag will give you more information about where, what and how much.

Coffee break: coffee breaks will give you the opportunity for refreshment.

• In the main building the coffee station is located in the Lichthof.
• In the mathematics building coffee is offered on the first floor near the elevators.
• In the morning coffee break will be from 10:30 – 11:00 (except on Monday), in the afternoon from 15:30 – 16:00 (except on Friday).

• Opening hours of shops: supermarkets are usually open from 8:00 to 20:00. Other shops and department stores are open from 10:00 am to 20:00
• Bank hours: opening hours of banks vary from branch to branch.
• Other facilities: you will find a tourist information centre at the “Europacenter”, Tauntenzienstr. 9-12, Tel.: 250 025 or 0190 016316

Technical equipment in lecture halls

Every lecture hall is equipped with

• overhead projector
• video projector
• computer.

There are two central rooms for speakers who wish to use a video projector in Sections or Mini-Symposia for supply their contribution on CD, diskette or USB stick.

The rooms are: H 1036 for the Main building and MA 241 (Unix-Pool) for the Mathematics building.

Section speakers are kindly asked to supply their contribution on Tuesday, Wednesday or Thursday between 10:00 and 13:00.

Speakers for the Mini-Symposia on Monday afternoon and Tuesday morning are asked to supply their contribution on Monday between 13:00 and 15:30.
Internet access

Internet access is available for participants in room MA 241 (Mathematics building) during the periods

- Monday 13:00 - 18:30
- Tuesday, Wednesday, Thursday 10:00 - 18:30
- Friday: 10:00 - 13:30

Instructions will be available in room MA 241.

Exhibition

We kindly thank the following organisations and companies for their contributions and support.

Exhibitors

Birkhäuser Verlag AG
Cambridge University Press
Elsevier GmbH
EMS – European Mathematical Society
Publishing House
GAMM – Gesellschaft für Angewandte Mathematik und Mechanik e.V.
GERB Schwingungsisolierungen GmbH & Co. KG
MLP Finanzdienstleistungen AG
Oldenbourg Wissenschaftsverlag GmbH
Pearson Education Deutschland GmbH
SIAM - Society for Industrial and Applied Mathematics
Springer
Taylor & Francis
Teubner Verlag
Verlag Harri Deutsch GmbH
Vieweg Verlag
Walter De Gruyter GmbH & Co. KG
Wiley VCH

Location: Lichthof, 1st floor of the main building
Publication of Lectures

Invited lectures

Invited lectures will be published in the regular issues of ZAMM. Manuscripts up to a length that is equivalent to 25 pages in LaTeX files should be sent until May 31st, 2006, to the Redaktion ZAMM. Details are given at:

http://www.wiley-vch.de/home/zamm/

Mini-symposia Papers and Short Communications

Papers presented at mini-symposia and short communications may be published electronically on Wiley's Webserver Wiley-InterScience in the PAMM. The papers need to be prepared in accordance with the Author’s Instructions for Publication of Contributions to Mini-symposia and Short Communications given below. The papers are limited to:

- 4 pages for a contribution to a mini-symposium or a special topic lecture of a section;
- 2 pages for a short communication.

Longer papers cannot be accepted. The editors reserve the right to deny publication of a manuscript based on a referee’s judgment.

The files have to be submitted after the conference, but (latest) by May 31st, 2006, via

https://www3.math.tu-berlin.de/gamm_2006/db/

Exceptionally, the papers can be sent directly to the Scientific Office on CD.

Author’s Instructions for Publication

Lectures delivered at mini-symposia and short communications may be published electronically on Wiley's Webserver Wiley-InterScience. To facilitate and speed up the publication process, the following requirements are mandatory for all contributions.

- Manuscripts must be delivered in LaTeX using the sample file proceed.tex available in due time from the homepage http://www3.math.tu-berlin.de/gamm_2006/ with figures included as LaTeX source code, eps or tiff files. It will be impossible to process contributions that are not in LaTeX or for which the figures are not included electronically. An example of a contribution will be provided in a special file.
- Manuscripts are limited to the number of pages given above. Manuscripts comprising more pages will be rejected.
• Please submit your manuscript including all figures via the Internet to the Scientific Office. Details on how to prepare (authors instructions) will be given on the website http://www3.math.tu-berlin.de/gamma_2006/. The homepage will also contain detailed information on how to submit the files.

• Your manuscript will be reviewed and in case of acceptance forwarded to the publisher. It will then be published as is without modifications to text and style. Thus, it should be ready for publication both in terms of content and style.

Summary of Deadlines

<p>| Submission of papers of mini-symposium talks | 31.05.2006 |
| Submission of papers of contributed session talks | 31.05.2006 |
| Submission of papers of plenary lectures to ZAMM | 31.05.2006 |</p>
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<td>Plenary lecture J. McKenna</td>
<td>Plenary lecture J. Schröder</td>
<td>Plenary lecture F. Golse</td>
<td>Plenary lecture P. Hansbo</td>
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<td>YR’s Minisymposia 7-10</td>
<td>V. Mises prize lecture</td>
<td>Plenary Lecture D.H. v. Campen</td>
<td>Plenary lecture M. Groves</td>
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<td>10</td>
<td>Coffee break</td>
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Minisymposia

Mini symposium Mathematics 1 - Multigrid methods for optimal control of PDEs
Organizer: A. Borzi, B. Vexler
Monday, March 27th 16:00-18:00
Room: H 2013

X. Tai: Domain decomposition and multigrid methods for Optimal Control
S. Ulbrich: Interior-point multigrid methods for PDE-constrained optimization
L. Grasedyck: Solution of large scale Riccati equations in $O(N \log^2 N)$

G. Biros: Multilevel and domain-decomposition solvers for inverse problems
V. Schulz: On multigrid abstracts in shape optimization

Mini symposium Mathematics 2 - Theory and Applications of Stochastic Optimization Methods
Organizer: K. Marti, T. Vietor
Monday, March 27th 16:00-18:00
Room: H 2032

F. Dabbene: Approximate Solutions to Convex Optimization Under Stochastic Uncertainty
K. Marti: Multipoint First Order Reliability Methods (MFORM)
M. Kaminski: Stochastic finite element method by Taylor expansion approach

A. Schumacher: Robust Design considering highly non-linear structural behavior
H. Wenzel: Product Quality Improvement in the Simulation Driven Design-process
V. Kobelev: Fractional Tensor Analysis in Stochastic Optimization

Mini symposium Mathematics 3 - Discrete and continuous nonlinear variational problems
Organizer: F. Otto, M.A. Peletier, W. Reichel
Monday, March 27th 16:00-18:00
Room: MA 001

J. Horak: Numerical mountain pass and its applications
C. Melcher: Some dynamic problems in magnetism

M. Röger: Cell membranes, lipid bilayers and the elastica functional
F. Theil: Periodic mimimizers in atomistic systems
Mini symposium Mechanics 1 – Mechanics of cells
Organizer: U. Schwarz, J.P. Spatz
Monday, March 27th 16:00-18:00
Room: H 104
Title: Modelling mechanical aspects of cell and tissue dynamics

M. Bathe: F-actin bundle mechanical properties

U. Schwarz: Elastic interactions of cells with compliant environments

D. Drasdo: The role of biomechanics in the growth of multi-cellular systems

R. Weinkamer: Learning about mechanotransduction in bone from its microstructure

Mini symposium Mechanics 2 - Computational plasticity
Organizer: P. Gumbsch, D. Raabe
Monday, March 27th 16:00-18:00
Room: H 105
Title: Polycrystal Mechanics and Anisotropy

P. Van Houtte: Multiscale approach for texture-based anisotropic yield loci

H. Riedel: Texture in Mg and dual phase materials

G. Gottstein: Simulation of Texture and Anisotropy of Aluminum Alloys

T. Böhlke: Modeling of anisotropy

F. Roters: Crystal plasticity FEM at large scales and at small scales

C. Miehe: A Fast Multiscale Model for Texture-Induced Anisotropic Plasticity

Mini symposium Mechanics 3 - Feedback flow control
Organizer: R. King, B. Noack
Monday, March 27th 16:00-18:00
Room: H 1058

M. Schmidt: Low-dimensional input-output-modeling of distr. parameter systems

R. Becker: Separation Control on a Trailing Edge Flap using Extremum Seeking

D. Henningson: Control of instabilities in a cavity

M. Morzynski: Continuous Mode Interpolation for a priori Flow Models & Control

G. Tadmor: Interpolated Galerkin Models and their Use in Flow Control

L. Cordier: Control of the cylinder wake in the laminar regime by TRPOD
Mini symposium Young Researchers 1 - Numerical Analysis of Partial Differential Equations
Organizer: S. Bartels, M. Verani

Tuesday, March 28th 09:30-12:00
Room: H 104

M. Verani: A Finite Element Formulation for a Shape Optimization Problem.

M. Jensen: Discontinuous Galerkin Methods for First-Order Accretive Systems

A. Moura: Coupling 3D-1D fluid-structure interaction models in haemodynamics

C. Vergara: Defective Boundary Conditions in Haemodynamics

I. Cimrak: The Landau-Lifshitz model for shape optimization of MRAM memories

S. Bartels: Approximation of Landau-Lifshitz-Gilbert Equations

Mini symposium Young Researchers 2 - Multiscale Systems in Refined Network Modeling: Analysis and Numerical Simulation
Organizer: A. Bartel, M. Selva Soto
Tuesday, March 28th 09:30-12:00
Room: H 105

M. Bodestedt: Perturbation analysis of an integrated circuit PDAE


M. Brunk: Coupling of Energy-Transport model with MNA-equations for circuits

T. Sickenberger: Efficient transient noise analysis in circuit simulation

A. Bartel: Analysis and Integration of Multirate PDAE Including Wavelets

Mini symposium Young Researchers 3 - Iterative Methods for Large and Structured Matrix Computations
Organizer: D. Kressner, B. Plestenjak
Tuesday, March 28th 09:30-12:00
Room: H 1058

M. Hochstenbach: Advances in the numerical solution of polynomial eigenproblems

B. Plestenjak: Numerical methods for the banded quadratic eigenvalue problem

E. Jarlebring: A Quadratic Eigenproblem in the Analysis of a Time Delay System

D. Kressner: Iterative Methods for Large Structured Eigenvalue Problems

L. Grubisic: On accuracy of hierarchical Rayleigh-Ritz methods
Mini symposium Young Researchers 4 - Nano-to-macro characterization of hard and soft biological tissues: The contribution of applied mechanics and mathematics
Organizer: C. Hellmich, B. Markert
Tuesday, March 28th 09:30-12:00
Room: H 2013

E. Rohan: Homogenization approach to multi-compartment model of perfusion

C. Hellmich: Bone (re)modeling: poro-micromechanical aspects

H. Steeb: Remodeling and adaptation processes of biological tissues

B. Markert: Coupled multi-field analysis of avascular tumor growth

K. Hofstetter: Continuum micromechanics estimation of wood strength

N. Götzen: Novel Phenotypic Characterization of the Mouse Skeleton

Sections

Section 1 - Multi body dynamics
Organizer: P. Betsch, C. Woernle

Tuesday, March 28th 13:30-15:30
Room: H 2013
Title: Control, optimization and identification
Chair: A. Kecskeméthy, K. Zimmermann

P. Eberhard: Controller Design for Parallel Kinematics Using Flexible MBS

K. Zimmermann: Modelling and Controlling of Worm-like Locomotion Systems

K. Stadlbauer: Autonomer Mobiler Roboter mit SCARA-Armeinheit

M. Tändl: Optimization of spatial tracks using a morphing approach

A. Meinicke: Eccentricity and Misalignment Correction of a Low-Cost IMU
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<td><strong>U. Jungnickel</strong>: Elastic Components in</td>
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H. Alkhaldi: Computation of Screening Phenomena in a Vertical Tumbling Cylinder

C. Lillie: Modelling of discrete particles by superellipsoids

F. Schiefer: Ein innovatives Sensorkonzept zur "Schmerzdetektierung"

A. Müller: Topological Analysis of the Configuration Space of Mechanisms

C. Mladenova: Presentations of the Rotations in the Space Movements

Thursday, March 30th 16:00-18:00
Room: H 2013
Title: Miscellaneous
Chair: S. Leyendecker

B. Vohar: Optimization of elastic systems using ANCF finite elements

M. Kacic: Stability of Mechanical Systems with General Types of Forces

M.V. Shamolin: Almost conservative systems in dynamics of a rigid body

M. Sek: Atypical dynamic problems of ferroconcrete slabe ceilings

B. Steffen: Modelling the Fundamental Diagram of Pedestrian Movement

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Section 2 - Biomechanics
Organizer: Wolfgang Ehlers, Ellen Kuhl

Wednesday, March 29th 13:30-15:30
Room: H 2032
Title: Arterial Wall and Blood Circuit Mechanics
Chair: W. Ehlers

G.A. Holzapfel: Arterial models from uniaxial extension tests and histology

D. Balzani: Modeling of Residual Stresses and Damage in Arterial Walls


C. Patralski: Identification of the aortic leaflet valve material
Wednesday, March 29th 16:00-18:00
Room: H 2032
Title: Soft Tissue Biomechanics
Chair: E. Kuhl

U.-J. Görke: An anisotropic viscoelastic soft tissue model at large strains

A. Acartürk: Finite swelling with weakly fulfilled boundary conditions

T. Ricken: On the Description of Growth in Saturated Living Tissues

N. Karajan: Suitable initial conditions for multiphasic FE analyses of the IVD

K. Weinberg: Response of kidney tissue to dynamical loading

Thursday, March 30th 13:30-15:30
Room: H 2032
Title: Bone Mechanics, Growth and Remodelling
Chair: G. Holzapfel

W. Winter: Ein Beitrag zum plastischen Verhalten des zellularen Knochen

T. Ebinger: Optimization of hip femoral neck fracture surgery

G. Himpel: Fibre Reorientation in Transversely Isotropic Materials

M. Charlebois: An Elastic, Plastic and Damage Constitutive Model for Bone Tissue

J. Rosenberg: Contribution to the theory of growth and remodelling

Thursday, March 30th 16:00-18:00
Room: H 2032
Title: Basic Modelling and Moving Biological Systems
Chair: U. Nackenhorst

G. Stelzner: Kinematik und Dynamik aus experimentell ermittelten Bewegungen

S. Rues: Joint And Muscle Forces During Clenching

D. Strobach: An analysis of simplified muscle activation parameterization

M. Arghir: Study of the Human Body Vibrations for the Seated Vehicle Driver

A. Rezunenko: Study of partial differential equations with state-dependent delay

O. Sander: Efficient Simulation of Dynamic Stresses in the Human Knee
Section 3 - Damage and fracture
Organizer: W. Brocks, R. Müller

Tuesday, March 28th 13:30-15:30
Room: H 110
Title: Analytical models and fracture criteria
Chair: Wolfgang Brocks, Frederik Reusch

H. Schütte: On the elastic symmetries of growing mixed-mode cracks
B. Paluszynski: Isotropic softening model for high-cycle fatigue
K. M.-Abbasi: Evolution of elastic T-stresses of growing mixed-mode cracks
V. Loboda: On some relations between different interface crack models
I. Kostenko: Investigation of elastoplastic problem for cylindrical shells
V. Govorukha: Analytical-numerical analysis of an interface crack

Tuesday, March 28th 13:30-15:30
Room: H 111
Title: Composite structures, microstructures, interfaces
Chair: P. Steinmann, R. Müller

C. Balzani: Delamination Analysis of UD Composites Using Interface Elements
G. Ernst: Mikromechanische Festigkeitsberechnung von Faserverbunden
K. Kula: Modelling of composite plates including damage
M. Kühn: Modelling of Microstructures in Ceramics to simulate Crack Growth
R. Piat: Numerical modelling of brittle fracture in porous CFC-materials
J. Utzinger: Theory and Numerics of Laminar Welded Lightweight Structures

Tuesday, March 28th 16:00-18:00
Room: H 110
Title: Analytical models and fracture criteria
Chair: B. Fedelich, H. Schütte

E. Emmrich: The peridynamic equation of motion in non-local elasticity theory
F. Reusch: Non-local adaptive simulation of ductile damage in PRMMCs
C. Radeke: Statistical strength analysis of dense particle systems
J. R. Fernandez: Numerical analysis of an elastic contact problem with damage
A. Rubinov: To the construction of creep long-term fracture criterion
R. Iankov: Identification of material parameters in the Rousselier model
Tuesday, March 28th 16:00-18:00
Room: H 111
Title: Composite structures, microstructures, interfaces
Chair: G.A. Maugin, W. Brocks

C. Vallee: Construction of a bipotential for a multivalued constitutive law
M. Timmel: An Approach for Micromechanical Modelling of Damage Mechanisms
S. Ertürk: RVE and unit-cell simulations of damage and failure in PRMMCs

O. Menshykov: Analysis of critical strains and loads in layered composites
E.-M. Craciun: Interface crack in a prestressed orthotropic elastic composite
Y. Lapusta: Near-surface microbuckling in fiber composites

Wednesday, March 29th 13:30-15:30
Room: H 110
Title: Numerics
Chair: F. Reusch, P. Steinmann

J. Glaser: Propagating cracks with X-FEM and Material Force Method
M. Peters: Numerical aspects of the eXtended Finite Element Method
G. Geißler: An Adaptive Finite Element Approach for Brittle Fracture

S. Holger Reese: One fragmentation procedure for brittle material cracking
J. Hebel: Modelling crack initiation by means of finite fracture mechanics
W. Weber: Efficient crack growth analyses by combining fast methods for BEM

Wednesday, March 29th 13:30-15:30
Room: H 111
Title: Numerics
Chair: H. Schütte, G.A. Maugin

O. Hilgert: Numerical Simulation of Crack Growth
M. Schmidt: Damage detection on crates of beverages by means of neuro-numeric
E. Gürses: Robust Algorithm for Brittle Fracture based on Energy Minimization

L. Stankovic: Numerical prediction of macroscopic material failure
M.O. Steinhauser: Numerical simulation of fracture and failure in brittle solids
Wednesday, March 29\textsuperscript{th} 16:00-18:00
Room: H 110
Title: \textbf{Material forces}
Chair: Müller, Fedelich

\textbf{G. Maugin:} Open and recently answered questions in the configurational mechan
\textbf{B. Näsér:} Formulation of Material Force Approach for Finite Inelasticity
\textbf{R. Denzer:} Advances in Material Forces of Inhomogeneous Materials
\textbf{T. Horst:} Configurational forces in the context of a kinked crack

\textbf{P. Steinmann:} Surface Potentials in Deformational and Configurational Mechanics
\textbf{N. Apostolescu:} A Visualization Platform for Landing Gear Retraction and Extension

Thursday, March 30\textsuperscript{th} 13:30-15:30
Room: H 110
Title: \textbf{Cyclic and thermal loading, ferroelectrics}
Chair: R. Müller

\textbf{B. Fedelich:} Modelling of crack growth under cyclic loading at high temperature
\textbf{F.-B. Gockel:} Material Simulation and Damage Analysis at Thermal Shock Condition
\textbf{P. Neumeister:} On boundary conditions at non-conducting cracks in ferroelectrics

\textbf{M. Enderlein:} A ferroelectric micromechanical model for fatigue crack growth
\textbf{K. Wippler:} 3D BEM-analysis of cracks in piezoelectric structures
\textbf{L. Shatylo:} Fatigue crack propagation in nonlinear material with microdefects

\textbf{Section 4 - Structural mechanics}
Organizer: W. Becker, W. Wagner

Tuesday, March 28\textsuperscript{th} 13:30-15:30
Room: H 104
Title: \textbf{Elastic Systems}
Chair: Reinhold Kienzler, Jerzy Rakowski

\textbf{J. Rakowski:} Stiffness matrix of Timoshenko beam with nonlinear elastic support
\textbf{R. Kienzler:} On Hole-Growing Processes in Elastic Plates
\textbf{J. Hornig:} Analysis of load transfer in thermo-elastic membranes

\textbf{V. Saurin:} Variational Approaches in the Beam Theory
\textbf{O. Marynets:} The Stresses in Annular Lapped Plates
\textbf{A. Grigorenko:} Mechanical behavior of elastic cylinder with various cross-section
Tuesday, March 28th 13:30-15:30
Room: H 105
Title: Contact
Chair: U. Nackenhorst, B.W. Zastrau

M. Ziefele: On the treatment of frictional rolling contact
K. Willner: Contact of fractal surfaces - Experimental and numerical results
V. Pauk: Modelling of the frictional heating generated in rolling contact
J. Nettingsmeier: Frictional Contact of Rubber on rough Surfaces
A. Konyukhov: High order FE and co-variant description for contact problems
M. Luege: Finite strain model for contact interface in forming processes

Tuesday, March 28th 16:00-18:00
Room: H 104
Title: Viscoelastic / Elastoplastic Systems
Chair: S. Reese, B. Eidel

J. Wang: Modeling and simulation of springback in sheet metal structures
H. Sparr: Numerical Simulation of Cold Ring Rolling
M. Vogler: A visco-plastic material law with applications to crash problems
M. Stoffel: Anisotropic damage of shock wave-loaded plates
Y. Lyashenko: The stress concentration in the components of the viscous-elastic

Tuesday, March 28th 16:00-18:00
Room: H 105
Title: Stability
Chair: K. Schweizerhof, Y. Kyosev

M. Mackiewicz: Elastic Buckling of an Open Cylindrical Shell Under Pure Bending
Z. Laszczyk: Critical load of an axially compressed sandwich cylindrical panel
M. Haßler: Stability Analysis of Fluid Loaded or Supported Shell Structures
D. Debowksi: Dynamic stability of a porous rectangular plate
T. Belica: Dynamic stability of a porous cylindrical shell
Y. Kyosev: Stability problems of the textile wound structures

Wednesday, March 29th 13:30-15:30
Room: H 104
Title: Finite Element Methods
Chair: P. Wriggers, J. Schröder

N. Sänger: A comparison of nonlinear beam finite element formulations
J. Mosler: A novel h-adaptive finite element method for standard dissipative
E. Friederike Boerner: A finite element formulation based on the Cosserat point theory

A. Schwarz: Remarks on a Least Square Mixed Finite Element for Elasticity

M. Fleischer: Anwendungsaspekte der Submodelltechnik der FEM

A. Bucher: Mapping algorithms of field variables in nonlinear adaptive FEM

Wednesday, March 29th 13:30-15:30
Room: H 105
Title: Applications
Chair: L. Panning, P. Ruge

J. Wranik: Schiefwinklige verbundene Stahlbetonplatten im Brückenbau

C. Birk: Longitudinal track-structure interaction on railway bridges

G. Brys: Biegesteife Rahmenknoten in Verbundkonstruktionen Stahl-Beton

R. Wille: Zum Übergang von der inneren zur äußeren Reifenmechanik

Room: H 104
Title: Composites
Chair: E. Schnack, B. Kuczma

H. M. Wigger: Size Effects at Corners of Anisotropic Material Discontinuities

R. Tsotsova: Inverse Identification of Delaminations in Layered CFRP-Composites

J. Artel: Analysis of free-edge effects by boundary finite-element method

M. Kuczma: Partially connected composite beams

G. Timchenko: Free vibration analysis of composite plates and shells with complex

V. Shevchuk: Determining mechanical state of the body-multilayer coating system

Wednesday, March 29th 16:00-18:00
Room: H 105
Title: Miscellaneous
Chair: R. Lammering, W. Seemann

A. Vishnevsky: Study on the thermo-mechanical behavior of superelastic NiTi wires

R. Lammering: A Piezoelectric Finite Shell Element in Convective Coordinates

F. Koenemann: Elasticity as a change of state in the sense of the First Law ä

B. Delibas: Simulation of rate dependent properties of piezoelectric materials
V. Ispas: Geometrical modeling of TRT2 modular robot

V. Ispas: Kinematics modeling of TRT2 modular robot

Thursday, March 30th 13:30-15:30
Room: H 104
Title: Optimization
Chair: F.-J. Barthold, Klaus Hackl

D. Materna: Coherence of Structural Optimization and Configurational Mechanics

G. Kotucha: Numerical instabilities in Structural Optimization

M. Rodak: Bicriterion optimization of cold-formed thin-walled beams

M. Hyca: Optimization of Initial Deflection of Beam-Columns

T. Walczak: Mechanism synthesis with the use of neural network

R. Starosta: On some application of genetic algorithm in mechanism synthesis

Thursday, March 30th 13:30-15:30
Room: H 105
Title: Numerical Methods 1
Chair: R. Krause, S. Reese

J. Bitzenbauer: Mehrskalenberechnungen bei inhomogenen Körpren

U. Hoppe: Numerical Simulation of Crack-Propagation in Shells

B. Helldörfer: Coupling of 3D boundary elements and curved finite shell elements

R. Krause: A New Stabilized Implicit Newmark Scheme for Dynamic Contact

C. Rickelt: An efficient strategy for lifetime calculation of large structures

L. Abdelhakim: An H-matrix type preconditioner for Contact Problems

Thursday, March 30th 16:00-18:00
Room: H 104
Title: Dynamics / Oscillations
Chair: Becker, Wilfried

E. Magnucka-Blandzi: Vibration of a circular porous-cellular plate

P. Koszela: Chaotic vibration in nonlinear problems of bar structures

K. Avramov: Free and forced nonlinear oscillations of cylindrical shells

G. Pilgun: Nonlinear free vibrations of shallow shells of arbitrary shape
Thursday, March 30th 16:00-18:00
Room: H 105
Title: Numerical Methods 2
Chair: R. Kutyłowski, T. Kozbial

M. Mazza: Galerkin BE formulation of stress based finite elements
K. Ziopaja: Damage detection and estimation using wavelet transform
G. Wasniewski: Symmetric Galerkin BEM for shallow spherical shell

T. Kozbial: Application of Daubechies wavelets approximation to plate bending
J. Buskiewicz: Synthesis of workspace by using angle derivative function (ADF)

Section 5 - Oscillations
Organizer: P. Eberhard, W. Seemann

Tuesday, March 28th 13:30-15:30
Room: H 2033
Title: Bremsen
Chair: P. Eberhard, W. Seemann

M. Kröger: Modellierung der Reibkraftverläufe einer Bremse
G. Spelsberg-Korspeter: Moving Continua and Brake Squeal - Part 1: Euler-Bernoulli Beam
D. Hochlenert: Moving Continua and Brake Squeal - Part 2: Kirchhoff Plate
S. Schlagner: Quietschen von Kfz-Scheibenbremsen
H. Hetzler: Investigations on low-frequency noise of disc-brakes
A. Steindl: Bifurcations of slip-stick travelling waves in a breake-like syste

Tuesday, March 28th 13:30-15:30
Room: H 2032
Title: Schwingungsdaempfung und Pendel
Chair: A. Fidlin, F. Ziegler

F. Ziegler: A novel, vertically acting tuned liquid column damper
P. Barthels: Freie Zielanfahrt
Y. Mikhlin: Vibration Absorption by using the essentially nonlinear subsystem
M. Stangl: Dynamics of an Elastic Pendulum with Internal Flow of Fluid
A. Fidlin: Low frequency effects in bi-harmonically excited pendulum
M. Borowiec: Vibration of Pendulum with Oscillating Support and Extra Torque
Tuesday, March 28th 16:00-18:00
Room: H 2033
Title: Kontakt
Chair: R. Seifried, A. Bockstedte

R. Seifried: Multiple impacts of transversely struck aluminum beams

D. Schwarzer: Bifurcation behavior of a 1DOF sliding friction oscillator

H. Keitzel: Influence of the contact model on the onset of sprag-slip

N. Hoffmann: Nonconservative beatings in systems with sliding friction

M. Brinkmeier: Simulation and Measurements of Rolling Tire Dynamics

P. Glösmann: Fahrwegmonitoring von Rad-Schiene-Systemen

Tuesday, March 28th 16:00-18:00
Room: H 2032
Title: Seile und Schwingungsanalyse
Chair: N. Wagner, A. Heinen

H. C. Renezeder: Three-Dimensional Simulation of a Circulating Monocable Ropeway

U. Aps: Wirkung von Störungen auf die Stabilität von Seilschwingungen

A. Heinen: Neufassung und Anwendung einer nichtlinearen Seiltheorie

N. Wagner: Inverse eigenvalue problems in structural dynamics

L. Reicke: Vibration Analysis in Mechanical and Medical Engineering

A. Abramyan: Stability of a SDOFO with a time varying mass

Wednesday, March 29th 13:30-15:30
Room: H 2033
Title: Technische Anwendungen I
Chair: J. Wojnarowski, N. Hoffmann

O. Rott: A comparison of analytical cutting force models

J. Wojnarowski: Influence of the Tension of Band Saw on the Critical Working Speed

M. Byrtus: On modelling and analysis of gear drives with nonlinear couplings

C. Wetzel: On the crosswind stability of high speed railway vehicles

A. Bockstedte: Hoisting Manipulation for Flying Cranes

M.-A. Pick: Analysis of critical motions of floating structures

Wednesday, March 29th 16:00-18:00
Room: H 2033
Title: Technische Anwendungen II
Chair: T. Kletschkowski, L. Popa
P. Moldenhauer: Efficient Calculation of Tread Block Vibrations

U. Strehlau: Simulation von Pyroschocks

T. Kletschkowski: Electro-vibro-acoustical simulation of linear vibrations in ducts

R. Oleskiewicz: Losses in Negative Capacitance Circuit for Piezo Vibration Control

N. Neumann: Periodic\&Chaotic Attractor Detection of a Vibro-Impact Oscillator

L. Popa: Contributions to the Study of Torsional Vibrations of Crankshaft

P. C. Müller: Natural frequencies of a multi-degree-of-freedom vibration system

U. Zwiers: Vibration Analysis of Gyroscopic Systems

F. Weichert: Optimization of multi body systems with integrated measuring data

E. Brommundt: Tilting Angles for Cylinder Coordinates

G. Manucharyan: Determination of the chaos onset in nonlinear systems

A. Manevich: Subharmonic resonance in 2dof cubic systems with closes eige

Thursday, March 30th 13:30-15:30
Room: H 2033
Title: Diskrete und nichtlineare Schwinger
Chair: E. Brommundt, P.C. Mueller

A. Bobylov: Numerical modelling of forced vibrations of viscoelastic solids ..

A. Chistilina: Research of layered shells with complex form by R-function method

A. Khentov: On the dynamics of pendulum with vibrating fastener's point

A. Myslinski: Rolling contact problem with slip rate dependent friction

L. Yuan: On Paper Machine Roll Contact with Beating Vibrations
Thursday, March 30th 16:00-18:00
Room: H 2033
Title: Kontinuierliche Schwingersysteme
Chair: R. Heuer, C. Adam

C. Adam: Nonlinear flexural vibrations of composite shallow open shells
H. J. Holl: Efficient Series Solutions for Vibrating Thin Rectangular Plates
L. Yan-Zhu: On formulation and analysis in dynamics of Kirchhoff's rod

G. Machina: Spatial Random Material Property Model for Vibration of Composites
A. Buchacz: New branched vibration systems as result of synthesis of mobility
R. Heuer: Vibrations of linear structures with spatial local nonlinearities

Section 6 - Material models in solids
Organizer: A. Bertram, P. Steinmann

Tuesday, March 28th 13:30-15:30
Room: H 107
Title: Plasticity I
Chair: A. Bertram

R. Mahnken: Simulation of asymmetric effects in plasticity
K. Chau Le: Dislocation nucleation and workhardening in anti-plane constrained
M. Schurig: A Model for the Vertex Effect in Polycrystal Plasticity

A. Ekhlakov: Molecular dynamics model of the texture formation in CFC
V. Shneider: Complex cyclic loading in the micro deformation plasticity theory

Tuesday, March 28th 13:30-15:30
Room: H 106
Title: Phase Transitions I
Chair: W. Müller

E. Kuhl: Simulation of Mineral Growth with the Cahn-Hilliard Equation
D. Christ: On the necessity of modelling SMA in range of large deformations
C. Grabe: Multidimensional isothermal tests of superelastic NiTi

O. Lyeshchuk: Computer-Aided Modeling of Diamond Crystallization Zones in HPA
O. Kokoshyn: Microstructure Approach to the Description of Shape Memory Effect
Tuesday, March 28th 16:00-18:00
Room: H 107
Title: **Granular Media and Non-Standard Continua**
Chair: P. Steinmann

**O. Avci:** Modelling of granular materials applied to localization problems

**H. Meier:** Failure of granular materials at different scales

**P. Grammenoudis:** Classical limits of a micropolar plasticity model

**C. B. Hirschberger:** Computational Material Forces in Micromorphic Continua

**J. A. Gawinecki:** Global solution of Cauchy problem in nonlinear non-simple material

**M. Svanadze:** Boundary value problems in the theory of micromorphic elastic continua

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Tuesday, March 28th 16:00-18:00
Room: H 106
Title: **Phase Transitions II**
Chair: E. Kuhl

**M. Böl:** Simulation of shape memory polymers by means of the finite element (40 min.)

**M. Wolff:** Transformation-induced plasticity: Modelling and analysis in 3-d

**W. H. Müller:** Modelling phase separation and coarsening in Ag-Cu

**A. Berezovski:** Velocity of moving phase-transition front in solids

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Wednesday, March 29th 13:30-15:30
Room: H 107
Title: **Identification, Fractional Derivatives**
Chair: R. Mahnken

**C. Hohl:** Identifikation von Materialparametern anhand inhomogener Versuche

**B. Kleuter:** Parameter identification for the FE analysis of elastomers

**M. Lindner:** Different methods of sensitivity analysis in parameter estimation

**H. Johansson:** Error Computation for Parameter Identification problems

**T. Pfitzenreiter:** Thermodynamic models for fractional derivatives

**I. Schäfer:** Uniqueness of solutions of linear fractional partial differential
Wednesday, March 29th 13:30-15:30
Room: H 106
Title: Polymers
Chair: D. Helm

H. Dal: Approaches to the Modelling of Physical Ageing in Rubbery Polymers
J. Méndez: Experiments and Identifications for Finite Polymer Inelasticity
A. Shaban: Simulation of Rate Dependent Plasticity of Polymers
M. Itskov: A constitutive model for the anisotropic Mullins effect in rubber
A. Ehret: A generalized polyconvex hyperelastic model for anisotropic solids

Wednesday, March 29th 16:00-18:00
Room: H 107
Title: Plasticity II
Chair: C. Le

T. Kayser: Modeling and simulation of aluminum alloys during extrusion
A. Kainz: Inconsistencies in plane-strain elasto-plastic rolling simulations
I. Vladimirov: Modelling the Springback of Sheet Metals at Large Deformations
S. Alexandrov: Maximum friction law in plasticity
T. Czyz: Boundary element method for dynamic inelastic analysis
E. Lyamina: Flow of pressure-dependent plastic materials between two cones

Wednesday, March 29th 16:00-18:00
Room: H 106
Title: Instabilities, Numerics
Chair: K. Weinberg

C. Brüggemann: Modeling and Simulation of the Portevin-Le Chatelier Effect
A. Flatten: Non-local modeling of thermomechanical localization in metals
M. Ban: On separately convex potentials and their applications
D. Rosato: Non-Isothermal Shear Band Localization in Crystal Plasticity
P. Jäger: Modelling and Computation of 3D Discontinuities in Solids
D. Zimmermann: Material-Force-Based Refinement Indicators in Adaptive Strategies
Thursday, March 30th 13:30-15:30
Room: H 107
Title: Coupled Problems, Numerics
Chair: T. Böhlke

D. Helm: Modellierung und Simulation thermomechanischer Kopplungsphänomene (40 min.)

K. Linnemann: A Constitutive Model for Magnetostrictive Materials

N. Pop: Approximation of the Contact Problems in Elasticity with Mixed Fin

M. Vesenjak: Homogenisation of cellular structures in dynamic FE analyses

G. Dziatkiewicz: Dual reciprocity BEM for dynamic piezoelectricity

Thursday, March 30th 16:00-18:00
Room: H 106
Title: Composites
Chair: M. Böl

M. Szczesniak: Numerical modelling of a heterogeneous composite material

L. Nazarenko: Nonlinear Deformation of Three-Component Composites

J. Jedrysiak: The elastic response for microlayered functionally graded media

J. Rychlewska: On the modelling of functionally graded laminates with microcracks

J. Szymczyk: Successive approximations in dynamics of laminated media

V. Burlayenko: Creep damage analysis of plates using an anisotropic damage model

Thursday, March 30th 16:00-18:00
Room: H 106
Title: Miscellaneous
Chair: M. Schurig

V. Chiroiu: On the solitonic behavior of carbon nanotubes fracture

L. Munteanu: The pseudospherical reduction of the uniaxial deformation of carbo

P. Teodorescu: On the solitonic mechanism of bending for carbon nanotubes

T. Böhme: Cavities in an elasto-plastic material: A mesoscopic concept

N. Bontcheva: Simulation of strain induced austenite - martensite transformation

L. Malag: Analysis of stress and strain in spread cylindrical sample
Thursday, March 30th 18:00-20:00  
Room: H 107  
Title: **Thermal Problems**  
Chair: M. Itskov

**Y. Zhuk:** Vibrations and heating of inelastic solids under harmonic loading  
**L. Lacinski:** Heat conduction in laminates with a weak transversal inhomogeneity  
**C. Wozniak:** Heat conduction in certain functionally graded material  
**M. Svanadze:** On the problems of heat propagation in a binary mixture

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**Section 7 - Coupled problems**  
Organizer: S. Diebels, S. Reese

Tuesday, March 28th 13:30-15:30  
Room: H 2036  
Title: **Electromechanical coupling**  
Chair: T. Ricken

**H. Romanowski:** Aspects of the simulation of electro-mechanical coupling effects  
**I. Kurzhöfer:** A hybrid finite element formulation for electromechanical problems  
**D. Schrade:** Phase field simulations of ferroelectric materials  
**J. Unger:** On the influence of electric currents on plastic deformation  
**B. Svendsen:** ALE-based 3D FE simulation of electromagnetic forming

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Tuesday, March 28th 16:00-18:00  
Room: H 2036  
Title: **Piezo ceramics and ferro electrics**  
Chair: R. Müller

**F. Dienerowitz:** Pretwisted Beam with Piezoelectric Structures  
**S. Klinkel:** A 1D constitutive law for hysteresis effects in piezoceramics  
**H. Bossong:** Characterisation and Modelling of Piezoceramic Actuator Hystereses  
**O. Goy:** 3D Simulation of Point Defect Migration in Ferroelectrics  
**V. Mehling:** Consistent modeling of ferroelectric material behavior  
**O. Dashko:** An Analytical Solution of a 3D Problem of Magnetoelasticity
Wednesday, March 29th 13:30-15:30
Room: H 2036
Title: Thermomechanical coupling
Chair: P. Steinmann

S. Bargmann: Modeling of non-classical thermoelasticity

M. Gross: Stable time integration of non-linear thermomechanical problems

X. Feng: Experimental and theoretical investigation of PLC deformation band

S. Göktepe: Coupled Finite Thermovisco-plasticity of Glassy Polymers

V. Chekurin: Inverse problems for tensor fields optical tomography

Wednesday, March 29th 16:00-18:00
Room: H 2036
Title: Multiphase continua
Chair: B. Markert, M. Böl

T. Graf: Phase transition processes of pore fluids in porous materials

J. Bluhm: Modeling of phase interfaces during freezing and thawing processes

Z. Chen: Wave propagation in fluid-saturated porous media

M. Johlitz: Size Effects due to the Formation of Interphases in Polymer Joints

Thursday, March 30th 13:30-15:30
Room: H 2036
Title: Surface coupling
Chair: S. Diebels

R. Niekamp: A Framework for the Coupling of Simulations

M. Müller: Beschreibung der Zeitskalen-problematik bei Bremsvorgängen

T. Helmich: Numerical Simulation of Surface Scanning in an AFM Environment

H. Altenbach: Ausrichtung von Partikeln in stationären Strömungsfeldern

S. Schrape: FSI of a Simplified Aero Engine Compressor Cascade Configuration
Section 8 - Multiscales and homogenization
Organizer: C. Miehe, A. Mielke

Tuesday, March 28th 13:30-15:30
Room: H 112
Title: Energy Minimization and Relaxation
Chair: A. Mielke

S. Conti: Energy scaling and microstructure formation in paper crumpling
P. Hornung: Asymptotic analysis of thin martensitic films
A. Orlando: On the numerical relaxation of single-slip plasticity
K. Kühn: Analysis of magnetic nanowires
I. Münch: Constitutive modeling and FEM for a nonlinear Cosserat continuum
P. Neff: Local minimization on SO(3) and relaxation

Tuesday, March 28th 16:00-18:00
Room: H 112
Title: Multiscale Modeling
Chair: J. Giannoulis

H. Uecker: A model problem for inclined film flow over wavy bottoms
T. Koprucki: Upscaling of quantum calculations to macroscopic state equations
H.-C. Kaiser: Coupled models H. semiconductor device simulation
A. Chatzouridou: From microscopic investigations to macroscopic models of foams
S. Demiray: Homogenization of elastoplastic open-celled foams
S. Ilic: Multiscale FEM in modelling of solution-precipitation creep

Wednesday, March 29th 13:30-15:30
Room: H 112
Title: Multiple Scales in Phase Transformations and Transitions
Chair: K. Hackl

T. Bartel: Energy-barriers due to nucleation in solid/solid phase-transitions
R. Heinen: A Lamination Upper Bound to the Free Energy of Shape Memory Alloys
T.-A. Langhoff: Energetic modelling of multiphase materials with microstructure
A. Schlömerkemper: About phase transformations in polycrystalline shape-memory alloys
M. Lenz: Model and simulation of magnetic shape-memory polymer composites
B. Nestler: From dendritic and eutectic solidification to grain growth
Wednesday, March 29th 16:00-18:00
Room: H 112
Title: Effective Constitutive Laws
Chair: S. Conti

H. Emmerich: Improved constitutional relations by and for multiscale models
C. Timofte: Homogenization Results for Enzymatic Dispersion Processes

S. Kaßbohm: Fourier Series for Continua with Microstructure
J. Orlik: Homogenization for Contact Problems for Hyprosthesis with Periodi

T. Biwanski: Flow structure in a technical scale reactor with internal reboiler

Wednesday, March 29th 16:00-18:00
Room: H 111
Title: Foundations of Homogenization
Chair: P. Neff

P. Jenny: Multi-Scale Finite-Volume Method for Stiff Elliptic Problems
B. Miara: Shape optimization of heterogeneous phononic materials

I. Schmidt: Effektive Steifigkeit von Polymeren mit Kohlenstoff-Nanoröhrchen
A.-M. Timofte: Homogenization for rate-independent systems

M. Schanz: Effective Frequency Dependent Properties of Cellular Materials
B. Scholz: From Particle Dynamics to Micropolar Media: A Localization Study

Thursday, March 30th 13:30-15:30
Room: H 112
Title: Multiscale Modeling in Metals
Chair: C. Miehe

V. Levkovitch: Homogenization modeling of induced anisotropy in sheet metals
T. Hochrainer: A self-consistent theory of 3D-dislocation based plasticity

M. Becker: Micromechanically Motivated Gradient Crystal Plasticity
A. Trondl: 3D FEA of Size Effects in Deformation of Thin Metallic Films

R. Glüge: Texture Evolution and Swift effect in NiAl
Y. Chen: Local Deformation Behavior and Crystallographic Texture Evolution

Thursday, March 30th 13:30-15:30
Room: H 111
Title: Passage from Discrete to Continuum Models
Chair: H. Uecker

J. Giannoulis: Three-wave interaction in discrete lattices
B. Schmidt: On the passage from atomic to continuum theory for thin films
C. Patz: Dispersive and long-time behavior of oscillations in lattices

J. Rademacher: Towards macro-limits of Riemann problems in atomic chains

I. Andrianov: Continuous models for discrete media for higher-frequency I.

A. Mielke: Lagrangian and Hamiltonian structures for modulation equations

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Room: H 112
Title: Homogenization of Composites
Chair: M. Becker

M. Kästner: Homogenisation of fibre composites using X-FEM

M. Birkle: On Variational Based Scale-Bridging of Inelastic Composites

B. Köster: A Micromechanical Damage Model for Fibre Reinforced Composites

V. Danishevskyy: Effects of interphases in fibre-reinforced composite materials

Georg Haasemann: On the simulation of textile reinforced composites and structures

J. Kreikemeier: Investigation, modelling and analysis of stiffened grf-p-samples

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Section 9 - Turbulence and reactive flows
Organizer: C. O. Paschereit, D. Thevenin, F. Thiele

Tuesday, March 28th 13:30-15:30
Room: H 2035
Title: Chemical Engineering and Applications
Chair: C. O. Paschereit

S. Donescu: The motion of a micropolar fluid in inclined open channels

M. Javurek: Oscillation of Confined Jets in Continuous Casting Mold Flow

S. Schlauch: Numerical simulation of stirred liquid-liquid systems

J. Schumacher: Statistics and geometry in high-Schmidt number scalar mixing

H. Shalaby: Particle-Laden Flow Simulation in a Cyclone Separator

M. Streng: Analyse eines Flotationsprozesses

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Tuesday, March 28th 16:00-18:00
Room: H 2035
Title: RANS and boundary layer
Chair: F. Thiele

G. Chernykh: Swirling turbulent wake behind a self-propelled body

M. Hölling: Using laser-cantilever anemometry under various flow condition
P. Kudinov: Compressible Flows Simulation on Multiblock Unstructured Grids

R. Schwarze: Performance and limitations of the unsteady RANS approach

I. Vigdorovich: Turbulent Boundary Layer on a Flat Plate with Suction

E.-S. Zanoun: Mean Flow Properties in Smooth Pipe Flow Experiment

Wednesday, March 29th 13:30-15:30
Room: H 2035
Title: Turbulence and two-phase flows
Chair: D. Thevenin

R. Henniger: LES of particle settling in homogeneous turbulence

A. Jocksch: Exergetic aspects of turbulent high-speed boundary layers

A. Kubik: Influence of Mass Loading on Particle-Laden Turbulent Channel Flow


R. Stresing: Longitudinal and transversal two-point correlations in turbulence


Wednesday, March 29th 16:00-18:00
Room: H 2035
Title: Reacting flow computations
Chair: D. Thevenin

O. Kurenkov: LES of premixed combustion using the level set approach

D. W. Meyer: Parameterized Scalar Profile Mixing Model for Turbulent Combustion

M. Hegentschweiler: Model of Partially Premixed Turbulent Combustion with PDF Methods

B. Rembold: A Lagrangian Joint PDF Approach for Turbulent Premixed Combustion

D. Thevenin: Influence of the Propagation Direction for an Acoustic Wave Inter

Thursday, March 30th 13:30-15:30
Room: H 2035
Title: Fundamental considerations
Chair: F. Thiele

M. Aripov: Self similar approach for visualisation of nonlinear processes

V. Grebenev: Integration of infinite chain of transport equations for cumulants

S. Yasuda: Evaporation and condensation of a binary mixture of vapors
Section 10 - Viscous flows
Organizer: N. Aksel, G. Böhme, D. Hänel

Tuesday, March 28th 13:30-15:30
Room: H 1058
Title: Interfaces and Films
Chair: M. Dreyer

K. Adler: Modelling Free Surfaces in Oscillating Pipe Flows
K. Afanasiev: Thin film dynamics on vertically rotating disks
A. Grah: Unsteady Modeling and Simulation of Open Capillary Channel Flows

C. Heining: Bistable resonance in gravity-driven film flows
U. Rosendahl: Sounding rocket experiment on capillary channel flow
F. Peters: Kräftegleichgewicht an kleinen Bläschen in einer Scherströmung

Tuesday, March 28th 16:00-18:00
Room: H 1058
Title: Channel Flow
Chair: P. Erhard, M. Scholle

P. Ehrhard: Messung des Strömungsfelds in einem Mikromischer
D. P. J. Barz: 3D simulation and experiment of flow in a folded microchannel
S. Strein: Stability analysis for the flow in a wetting/dewetting (micro-)gap

M. Finck: Simulation of Nasal Flow by Lattice Boltzmann Methods
V. Prokop: Numerical Solution of Newtonian and Non-Newtonian flows
P. Jonás: Pressure distributions in a channel with a backward facing step

Wednesday, March 29th 13:30-15:30
Room: H 1058
Title: Heat and Mass Transfer
Chair: H. Steinrück, D. Hänel

C. Conzen: Experimentelle Untersuchung des Temperaturfelds in einem Extruder
L. Savic: Mixed Convection Flow past a Horizontal Plate: The Trailing Edge

S. Domesi: Dynamics of spherical particles in thermocapillary liquid bridges
M. Scholle: Influence of eddies on heat transfer in Couette flow
I.-R. Stan: Hammer Effect of Surfactants on a Free Drop
Wednesday, March 29th 16:00-18:00
Room: H 1058
Title: Stability
Chair: C. Egbers, N. Aksel

P. Stücke: Über die exzentrische Zylinderspaltströmung bei engen Spaltweiten

N. Scurtu: Numerical simulation of the flow in eccentric cylindrical system

M. Smieszek: Untersuchung eines scherverdünnenden Fluids im Zylinder­spalt

C. Mayer: Wavelets Generated by Stokes Potentials

U. Schoisswohl: Flow instabilities in buoyant-thermocapillary liquid pools

S. Slavtchev: Solute transport by radial capillary flow in a Hele-Shaw cell

 Thursday, March 30th 13:30-15:30
Room: H 1058
Title: Non-Newtonian Fluid Flow
Chair: O. Wünsch, G. Böhme

H. W. Müllner: Viscosity Characterisation for Rubber Blends from Die Swell Data

A. Rudert: Simulation of the Filling Behaviour of a Non-Newtonian Fluid

H. Shahnazian: Controlled shear stressed rheological investigations of ferrofluid

L. Mirela Pop: Microstructure of Co-based ferrofluids and its influence on the rh

O. Matvienko: Particles separation in the non-Newtonian suspensions

D. Ivanovic: Control of Unsteady MHD boundary layer on porous accelerating surf

 Thursday, March 30th 13:30-15:30
Room: H 1029
Title: Miscellaneous
Chair: V. Vetlutsky, N. Lebedeva

N. Lebedeva: Admixture Stratification in the stagnation region of two streams

T. Zlatanovski: General solution to the Stokes equation in spheroidal coordinates

V. Yericheva: Heat Transfer and Aeroelastic Oscillation of Circular Cylinder

V. Vetlutsky: Partikelbeladene Strömung in einer Überschalldüse

N. Ivanova: Numerical analysis of slow steady flows of nonlinear viscous fluid
Thursday, March 30th 16:00-18:00
Room: H 1058
Title: Modelling/Rotating Systems
Chair: F. Obermeier, V. Vasanta Ram

P. Mausbach: Scherviskosität für das “Gaussian Core Model”-Fluid
F. Obermeier: Prandtl's Mixing Length Model - Revisited
J. Vimmr: Modelling of Newtonian and non-Newtonian incompressible fluid flow
N. Bleier: Stability of a strongly swirling annular flow
J. Hussong: The critical layer of a swirling annular flow in transition

Thursday, March 30th 16:00-18:00
Room: H 1029
Title: Aerodynamics and Turbulence
Chair: D. Redchyts

D. Redchyts: Numerical modelling of aerodynamics of Darrieus and Savonius
O. Prykhodko: Numerical modeling of space flows using Navier-Stokes equations
B. Rasuo: On Boundary Layer Control Using Suction in the Wind Tunnels
A. Dumitrache: A numerical model for two-dimensional flow of flapping airfoil
H. Dumitrescu: Boundary Layer and Flow Field Structure on Wind Turbine Blades

Section 12 - Waves and acoustics
Organizer: A. Kluwick, F. Ziegler

Tuesday, March 28th 13:30-15:30
Room: H 2038
Title: Acoustics
Chair: A. Kluwick

O. von Estorff: Vibro-acoustic Investigations Using Finite and Infinite Elements
D. Obrist: Computation of Acoustic Far-Fields
H. Schmidt: A zero Mach number projection method coupled to external acoustics
V. Cardos: Aerodynamic and acoustic radiation from an airfoil in arbitrary mo
D. Russikh: To the Calculation of the Acoustic Field of Wind Turbine
G. Sokol: Infrasound is an ecologically harmful factor in wind energy
Tuesday, March 28th 16:00-18:00  
Room: H 2038  
Title: **Free surface and scalar dispersive waves**  
Chair: A. Kluwick, A. Basmat  

**A. Kluwick:** The effect of surface topography on weakly nonlinear roll waves  

**O. Basmat:** Interaction of a Solitary Wave with a Porous Elliptical Cylinder  

**I. Selezov:** Pulse propagation in fluid-filled cylindrical shell with insertion  

**F. G. Boese:** On Impulse Distortion in Dispersive Media  

**Y. Rudnev:** Small oscillations of inviscid fluid in vessels with perforated  

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Wednesday, March 29th 13:30-15:30  
Room: H 2038  
Title: **Elastic waves 1**  
Chair: R. Heuer, C. Adam  

**W. Ellermeier:** Waves in Active Media  

**S. von Ende:** Simulation von Lamb-Wellen zur Schadensdetektion in Platten  

**I. Sofronov:** Non-reflecting boundary conditions for anisotropic media  

**I. Symchuk:** To evolution of the profile of hyperelastic cylindrical waves  

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Wednesday, March 29th 16:00-18:00  
Room: H 2038  
Title: **Elastic waves 2**  
Chair: C. Adam, R. Heuer  

**D. Zakharov:** Bending Waves of Rayleigh Type in Anisotropic Layered Plates  

**I. Dobovsek:** Wave Dispersion Decoupling in Micropolar Thermoelasticity  

**O. Simionescu-Panait:** Attenuated wave propagation in cubic crystals under biasing fields  

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Thursday, March 30th 13:30-15:30  
Room: H 2038  
Title: **Impact**  
Chair: A. Basmat  

**A. Teufel:** Rotating stick-slip-separation waves in a shaft-bush configuration  

**Y. Rossikhin:** Dynamic Stability of a Pre-Stressed Elastic Orthotropic Plate  

**M. Shitikova:** Fractional Derivative Viscoelastic Model of the Shock Interaction  

**V. Kubenko:** Plain problem of impact by a blunted rigid body against a thick
Section 13 - Applied analysis
Organizer: A. Münch, G. Schneider

Tuesday, March 28th 13:30-15:30
Room: MA 141
Title: Multiple scales
Chair: G. Schneider, A. Münch

S. Teufel: Effective Quantum Dynamics in Slowly Perturbed Periodic Media (40 min.)

E. Pesetskaya: The effective conductivity of composite materials

W.-P. Düll: Phase dynamics in modulation equations for pattern forming system

S. Meier: Two-scale models of diffusion and reaction in porous media

Tuesday, March 28th 13:30-15:30
Room: MA 142
Title: Eigenvalue problems
Chair: A. Münch, G. Schneider

C. Trunk: Minimum-Phase Infinite-Dimensional Second-Order Systems

J. Behrndt: An operator theoretic approach to elliptic boundary value problems

O. Kirillov: Krein space related perturbation theory for MHD $\alpha^2$-dynamos

I. Karabash: Indefinite Sturm-Liouville operators and parabolic equations

R. Bulatovic: On the Perfectly Matched Gyroscopic Systems

B. Loginov: Pseudoperturbation method for computation of E. Schmidt eigenvalue

Tuesday, March 28th 16:00-18:00
Room: MA 141
Title: Multiple scales
Chair: G. Schneider, A. Münch

C. Lasser: Resonances generated by a conical intersection of energy levels

T. Swart: The Non-Crossing-Rule

M. Zeitlin: Pattern formation in collective quantum dynamics

A. Fedorova: Fusion Modeling in Complex Vlasov-Maxwell-Poisson Dynamics

N. Kazic: On the accumulation resonance of systems
Tuesday, March 28th 16:00-18:00
Room: MA 142
Title: Thin liquid films and thin membranes
Chair: A. Münch, G. Schneider

P. Evans: Asymptotic structure of a dewetting thin liquid film
T. Rump: Coarsening in a droplet model: The role of migration
I. Bock: On a Pseudoparabolic System for a Viscoelastic Shallow Shell

D. Rajter-Ciric: On stochastic wave equation
D. Ivasishina: Calculation of temperature field in non-asymptotically thin layers
A. Voigt: Strong anisotropies in geometric evolution laws - physically motivated higher order regularizations

Wednesday, March 29th 13:30-15:30
Room: MA 141
Title: Elasticity, energy methods
Chair: G. Schneider, A. Münch

P. Krejc: Hysteresis in temperature-driven phase transitions (40 min.)
F. Schmid: An evolution model in contact mechanics with dry friction
S. Ricker: Existence of Solutions to the Linearized Spinning Wheel Problem

D. Knees: Energy release rate for cracks in finite-strain elasticity
A. Glitzky: Energy models where the equations are defined on different domains

Wednesday, March 29th 16:00-18:00
Room: MA 141
Title: Fluid mechanics, conservation laws
Chair: A. Münch, G. Schneider

C. Rohde: Mathematical models for Liquid-Vapour Flows (40 min.)
D. Langemann: Harmonical analysis of the total ponderomotive force
M. Prytula: Analysis of Witham type model

Y. Brazaluk: Dynamics of bubble motion under buoyancy force
M. Polyakov: Calculation of spraying process
Thursday, March 30th 13:30-15:30
Room: MA 141
Title: Phase separation, phase transformation
Chair: G. Schneider, A. Münch

J. A. Griepentrog: Nonlocal Phase Separation Processes (40 min.)

M. Herrmann: On cluster formation in Becker-Doering processes

A. Muntean: A two-reaction-zones model: Global existence of solutions

D. Serbichenko: Numerical solution of Stefan problem in Leybenzon approximation

O. Kochubey: Boundary instability of slow phase transformation

Thursday, March 30th 13:30-15:30
Room: MA 142
Title: Fixed point theorems, bifurcations
Chair: A. Münch, G. Schneider

U. Schäfer: A fixed point theorem in infinite-dimensional spaces

L. Marko: Global solutions of nonlinear problem in Hilbert space.

T. Seidel: Breaking the Symmetry in a Car-Following Model

I. Konopleva: Application of cosymmetric identity in branching theory

S. Iglin: Research of hyperelastic orthotropic elliptical membranes

A. Takaci: On the equation of viscoelastic bar

Thursday, March 30th 16:00-18:00
Room: MA 141
Title: Numerical methods
Chair: G. Schneider, A. Münch

M. Plum: Enclosure Methods for Elliptic Partial Differential Equations (40 min.)

K. Ruotsalainen: Boundary integral operators for fractional diffusion equation

T. Smolenska: Numerical modelling of nonuniformity of biological growth
Thursday, March 30th 16:00-18:00
Room: MA 141
Title: Miscellaneous
Chair: A. Münch, G. Schneider

U. Kähler: Frames for the continuous spherical wavelet transform

P. Cerejeiras: Factorization of the Non-stationary Heat Equation

P. Batra: Necessary stability conditions for differential-difference systems

I. Dmitriyeva: On Some New Aspects of Classical Riemann Problem

M. Milovanovic: Some mathematical models in forestry

Section 14 - Applied stochastics
Organizer: W. Römisch, K. Sabelfeld

Tuesday, March 28th 13:30-15:30
Room: H 1029
Chair: Karl Sabelfeld, Werner Römisch

R. Adamowski: Spectral Analysis of Dynamic Systems with Random Parameters

S. Heinz: Stochastic Multi-Scale Methods for Turbulent Flow Simulations

K. Mazur-Sniady: Random Longitudinal Vibrations of Composite Rod

C. Proppe: Computation of failure probabilities via local approximations

A. Rystwej: Dynamics of an Infinite Beam under Stochastic Moving Forces

M. Tyagi: Stochastic Particle Method for Nonlinear Hyperbolic Problems

Tuesday, March 28th 16:00-18:00
Room: H 1029
Chair: E. Buckwar

Y. Kabysyh: Boundary-layer effects in randomly heterogeneous materials

M. Schlather: Simulating random fields

R. Sieniawska: Influence of plastic strength randomness on structure reliability

Wednesday, March 29th 13:30-15:30
Room: H 1029
Chair: Werner Römisch, Kart Sabelfeld

R. Winkler: Improved linear multi-step schemes for SDEs

E. Buckwar: Asymptotic mean-square stability of linear multistep methods for S

K. Ellermann: The random environment of offshore systems

T. Wagner: Predicting turnovers of Cash Recycling Systems
T. Postelnicu: Numerical Taxonomy for Statistical Data Processing

Wednesday, March 29th 16:00-18:00
Room: H 1029
Chair: R. Winkler

J. Gottschall: Stochastic modelling of wind speed power production correlations

D. Bryja: Suspension bridge response due to non-stationary wind action

T. Zajac: Die kinematisch erzwungenen Schwingungen der Fußgängerbrücke

Section 15 - Computer algebra and computer analysis
Organizer: W. Seiler, B. Tibken

Wednesday, March 29th 13:30-15:30
Room: MA 142
Title: Computer Algebra Applications
Chair: W. M. Seiler


V. Pillwein: Hypergeometric Summation Techniques for High Order Finite Elements

E. Zerz: Linear exact modeling from multivariate data

K. Gabor: A Generalization of Pascal’s Triangle Using Powers of Base Numbers

I. Mladenov: Lorentz Force via Exponential Mapping

Wednesday, March 29th 16:00-18:00
Room: MA 142
Title: Interval Arithmetics
Chair: B. Tibken

F. Decker: Enclosing Eigenpairs of the Quadratic Eigenvalue Problem

M. Neher: On Complex Inclusion Functions

M. Schnurr: Some Supplements Concerning Automatic Slope Computation

S. Markov: Towards an axiomatisation of interval arithmetic

W. Krämer: Generalized Intervals and the Dependency Problem

Thursday, March 30th 13:30-15:30
Room: MA 041
Title: Symbolics and Numerics
Chair: W. M. Seiler
T. Sauer: H-bases - Computer Algebra for numerical computations (40 min.)

E. Kartashova: BK-factorization as a link between symbolics and numerics

A. Weber: Symbolic-numeric methods for investigating Kirchhoff rods

M. Rosenkranz: A Novel Treatment of Linear Two-Point Boundary Value Problems

G. Regensburger: Max-plus Linear Algebra and Nonlinear Ordinary BVPs

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Section 16 - Optimization
Organizer: M. Hintermüller, A. Martin

Tuesday, March 28th 13:30-15:30
Room: MA 144
Title: Topics in Discrete Optimization
Chair: A. Martin

A. Fügenschuh: Topology Optimization of Branched Sheet Metal Products with MIP

G. Greif: Geometry Optimization of Branched Sheet Metal Products by All-at-O

U. Günther: Modelling Manufacturing Constraints for Branched Sheet Metal Produ

T. Koch: Finding the Strategic Corridor

N. Simeliene: Optimization of Investment Policy

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Tuesday, March 28th 16:00-18:00
Room: MA 144
Title: NLP-Techniques in Optimal Control, Stochastic and Multicriteria Optimization
Chair: M. Hintermüller

C. Grossmann: General Path-Following Penalty Methods Applied to Elliptic Control

N. Krejic: On a quasi-Newton method for stochastic optimization

Z. Luzanin: A Newton-like method for stochastic problems

Y. Kondratenko: Multicriteria optimisation of cargo operations in uncertainty

J. Kasprzak: Bi-objective optimization of in-plane loaded composite plates

S.-D. Stan: Optimal design of 2 DOF PKM

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Wednesday, March 29th 13:30-15:30
Room: MA 144
Title: Applied Problems and Solution Techniques I
Chair: Y. Kondratenko
J. Curtis: Minimal Heat Loss for Given Volume of Insulation

R. Kutylowski: Topology optimization procedure based on structure stress history

A. Dzjuba: Theoretical and experimental research of optimal cylindrical shell

G. Domek: Experimental revision of timing belt's loading model in FEM

M. Ranjbar: Study of Optimization Methods for Structural-Acoustic Applications

A. Nastase: Multidisciplinary aerodynamical optimal shape's design

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Wednesday, March 29th 16:00-18:00
Room: MA 144
Title: Applied Problems and Solution Techniques II
Chair: N. Krejic

S. Rapajic: Globally convergent Jacobian smoothing IN methods for NCP

S. Shakhno: Method with Superquadratic Convergence for Nonlinear Least Squares

I. Nedelkovski: Expert System for Optimal Water Distribution at Irrigation System

N. Paulianok: Optimal Output On-Line Control via Dynamic Regulators

M. Lupu: Optimization Method for Airfoils in the Case of Nonlinear Problems

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Section 17 - Applied and numerical linear algebra
Organizer: R. Nabben, M. Tuma

Tuesday, March 28th 13:30-15:30
Room: MA 043
Title: H-matrices, model reduction, control theory
Chair: P. Benner

I. Ibragimow: H-Matrices and Low Rank Plus Sparse Matrices

S. Börm: H²-matrices with variable rank

U. Baur: H-matrix based balanced truncation method for large-scale systems

F. Blömelging: Substructuring and SVD-based model reduction methods

T. Damm: Linear matrix equations in model reduction for bilinear systems

T. Stykel: The matrix sign function method for projected Lyapunov equations

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Tuesday, March 28th 13:30-15:30
Room: MA 042
Title: Iterative methods and preconditioner
Chair: R. Nabben
J. Mayer: Some New Developments in ILU Preconditioners

J. Duintjer Tebbens: Preconditioner Updates for Nonsymmetric Linear System Sequences

A. Kallischko: FSPAI for Symmetric Positive Semidefinite Systems

E. Ludwig: Some new variants of Schwarz iterations in domain decomposition

C. Mense: Algebraic Multilevel Methods for nonsymmetric Matrices

M. Bollhöfer: Algebraic multigrid for indefinite systems

Tuesday, March 28th 16:00-18:00
Room: MA 043
Title: Eigenvalue Problems
Chair: M. Bollhöfer

T. Betcke: A domain decomposition GSVD method for planar eigenvalue problems

I. Wrobel: On simultaneous rootfinding methods for computing singular values

V. Drygalla: Exact innerproducts and the accurate computation of eigenvalues

M. Karow: Eigenvalue perturbation analysis for the classical Lie and Jordan

C. Schröder: Structured Kronecker forms for the Palindromic Eigenvalue Problem

J. Saak: On ADI parameters for solving PDE control-related matrix equations

Tuesday, March 28th 16:00-18:00
Room: MA 042
Title: Iterative methods for linear systems and miscellaneous
Chair: Z. Strakos

R. Nabben: Domain Decomposition Methods and Deflated Krylov Iterations

M. Rozloznik: Numerical behavior of iterative methods for saddle-point problems

V. Norbert: Parallel algorithm for linear equations in different architectural

M. Gyozo: A Scalable Parallel Algorithm for Solving General Linear System of

E. Boudinov: Conjugate direction method for large nonsymmetrical linear systems

Wednesday, March 29th 13:30-15:30
Room: MA 043
Title: Eigenvalue Problems
Chair: V. Simoncini

J. Moro: Perturbation of multiple eigenvalues (40 min.)

H. Voss: An a priori bound for automated multi-level substructuring

H. Schwetlick: Block RQI for Symmetric Matrices Converges Cubically

C. Mehl: Resurrecting Eberlein's Jacobi-like method
V. Mehrmann: Generalization of symplectic matrices to matrix polynomials

Wednesday, March 29th 16:00-18:00
Room: MA 043
Title: Iterative methods
Chair: J. Liesen

A. Frommer: Shifted Linear Systems: Algorithms, Applications, Theory (40 min.)

Z. Strakos: Stopping criteria in iterative methods - a miscellaneous issue?

I. Hnetaýkova: Lanczos tridiagonalization and the core problem

V. Simoncini: Projection methods for approximating the matrix exponential ...

M. Popolizio: On acceleration methods for approximating the matrix exponential

Thursday, March 30th 13:30-15:30
Room: MA 043
Title: Iterative methods
Chair: A. Frommer

O. Ernst: Krylov Subspace Methods and Matrix Functions (40 min.)

M. H. Gutknecht: The Block Grade of a Block Krylov Space

J. Liesen: Effects of nonnormality on the convergence of GMRES

P. Tichy: GMRES and the polynomial numerical hull for a Jordan block

J.-P. M. Zemke: Abstract Perturbed Krylov Methods

Thursday, March 30th 16:00-18:00
Room: MA 043
Title: Mixed Problems
Chair: M. Tuma

D. Potts: Fast summation at nonequispaced knots by NFFTs (40 min.)

A. Smoktunowicz: Iterative improvement of singular triplets of matrices

C. Popa: Hybrid algorithms in image reconstruction

G. Dirr: A new type of C-numerical range arising in quantum computing

S. Solmaz: General Inertia and Circle Criterion
Section 18 - Numerical methods for differential equations
Organizer: B. Simeon, C. Wieners

Tuesday, March 28th 13:30-15:30
Room: MA 004
Title: DAEs
Chair: B. Simeon

R. Lamour: Practical tests of index determination of DAEs
S. Bächle: A structure preserving index reduction method for MNA
R. Dokchan: Numerical integration of DAEs with critical points
F. Ebert: Element-based index reduction in electrical circuit simulation
L. Wunderlich: Numerical Treatment of Second Order Differential-Algebraic Systems
K. Surla: On a spline collocation method for a singularly perturbed problem

Tuesday, March 28th 13:30-15:30
Room: MA 005
Title: Flow Problems
Chair: C. Wieners

M. Bause: Higher Order Mixed Approximation of Weakly Regular Solutions
J. Eberhard: Simulation of a free boundary problem modeling lesion growth
N. Chamakuri: Numerical Computation of Heat and Mass Transfer in Fluidized Beds
N. Faustino: Interpolating wavelets applied to the Navier-Stokes equations
A. Düster: CFD based on a DG method solving the discrete Boltzmann equation
B. Seibold: Multigrid and M-Matrices in the Finite Pointset Method

Tuesday, March 28th 16:00-18:00
Room: MA 004
Title: H-Matrices and Related Topics
Chair: C. Wieners

M. Bebendorf: The hierarchical LU decom. for singularly perturbed problems
J. Djokic: Efficient Update of Hierarchical Matrices assembled by ACA & HCA
S. Le Borne: Hierarchical matrix preconditioners for saddle point problems
A. Constantiniu: New Nodal/Element Basis Interpolation Scheme for Galerkin Methods
J. Geiser: Domain-Decomposition Methods for Parabolic Problems
Tuesday, March 28th 16:00-18:00  
Room: MA 005  
Title: **Fluid Dynamics and Related Topics**  
Chair: B. Simeon

**P. Louda:** Numerical solution of turbulent flow in a turbine cascade  

**B. Müller:** Using CSP for Modeling Burgers-Turbulence  

**I. Sladek:** Mathematical Modelling of Atmospheric Flow Over Complex Topography  

**E. Audusse:** Well-balanced and conservative discretizations for Coriolis forces  

**S. Vater:** A Semi-Implicit Projection Method for the Zero Froude Number SWE  

**S. A. Konglok:** A K Model for Simulating the Dispersion of Sulfur Dioxide in Urban

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Wednesday, March 29th 13:30-15:30  
Room: MA 004  
Title: **BEM and Related Topics**  
Chair: C. Wieners

**W. L. Wendland:** Fast Boundary Element Method for Eddy Current Heat Production  

**S. Sauter:** Efficient Numerical Solution of Time Domain Boundary Integral Form  

**L. Banjai:** A refined BEM convergence theory for Helmholtz problems  

**U. Kähler:** $H^2$ based 3D-Wavelet Galerkin BEM  

**B. Heubeck:** Finite elements for long semiconductor laser resonators  

**M. Oevermann:** A Finite Volume Method for Poisson's equation with discontinuities

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Wednesday, March 29th 13:30-15:30  
Room: MA 005  
Title: **Diverse Topics**  
Chair: B. Simeon

**T. Schmelzer:** Talbot Quadratures and Rational Approximations  

**R. Chapko:** A comparison of Landweber and hybrid methods for inverse problems  

**M. Schäfer:** Partial space moment approximation for radiative transfer  

**D. Herceg:** On a nonequidistant difference scheme of Chawla type  

**M. Yunusi:** Numerical solutions of DEs in partial derivations  

**P. B. Beda:** Anticipatory computation and the models of dynamical systems
Wednesday, March 29th 16:00-18:00
Room: MA 004
Title: **Solid Mechanics**
Chair: C. Wieners

**F. S. Attia**: The Use of the MTW-Element in a MGM for linear Elasticity

**G. Starke**: Adaptive Least-Squares Finite Element Methods in Elastoplasticity

**H.-U. Rempler**: An Extended FE Formulation for Elasto-Plastic Materials

**C. Lovadina**: A posteriori error estimates for plates

**H. Wobker**: HPC Techniques for the FEM Simulation in Structural Mechanics

**K. Kukielka**: Modeling and numerical analysis of the thread rolling process

Wednesday, March 29th 16:00-18:00
Room: MA 005
Title: **Reaction-Diffusion Equations and Related Topics**
Chair: B. Simeon

**H.-J. Reinhardt**: Multidimensional Inverse Heat Conduction Calculations

**T. Linß**: Layer-adapted meshes for time-dependent reaction-diffusion

**M. Ehrhardt**: Nonlocal Boundary Conditions for Higher-Order Parabolic Equations

**N. Pochai**: A One-dimensional Mathematical Model of Water Pollution Control

**B. Jovanovic**: Difference schemes for a general parabolic problem with interface

**R. Müller**: Numerical Simulation of Dendritic Crystal Growth

Thursday, March 30th 13:30-15:30
Room: MA 004
Title: **Finite Elements and Related Topics**
Chair: C. Wieners

**B. Heinrich**: Nitsche mortaring combined with the Fourier-finite-element method

**S. Franz**: Superconvergence of SDFEM for elliptic problems with parabolic layers

**M. Stiemer**: Adaptive FE-discretizations of mixed elliptic-parabolic PDEs

**H. Zarin**: A finite element method for two-parameter perturbed problems in 2D

**R. Schneider**: Automatic anisotropic mesh adaption

**T. Samrowski**: A Fast Adaptive Method for the Neumann Problem
Thursday, March 30th 16:00-18:00
Room: MA 004
Title: Diverse Topics
Chair: B. Simeon

E. Hart: Numerische Aspekte für das Projektions-Iterationsverfahren
T. Krylova: Non-linear eigenvalues of boundary problem for differential …

F. Kudratillo: Boundary value problem for higher order abstract partial different
L. Kurpa: R-Functions Method for Solving Nonlinear Problems of Shell Theory

Thursday, March 30th 16:00-18:00
Room: MA 005
Title: Diverse Topics
Chair: C. Wieners

D. Takaci: The difference schemes for operator difference equations
T. Tarasova: Boundary element method in domain with disturbed boundary

D. Yevdokymov: Potential theory application to Onsager's equation system
O. Tumashova: Deformation state of flexible cylindrical shells

Section 19 - Optimization of differential equations
Organizer: V. Heuveline, M. Hinze

Tuesday, March 28th 13:30-15:30
Room: MA 415
Chair: V. Heuveline

R. Griesse: Optimal Control in Magnetohydrodynamics (40 min.)
T. Götz: Control of crystallization processes

C. Meyer: Optimal control of sublimation growth of semiconductor crystals
S. Görner: MPC for the Burgers Equation Based on an LQG Design

Tuesday, March 28th 16:00-18:00
Room: MA 415
Chair: M. Hinze

R. Pinnau: Mathematical Tasks in Optimal Control of Radiative Heat Transfer (40 min.)
M. Herty: Analysis for an Optimality System in Radiative Transfer

T. Lahmer: Optimal data selection for piezoelectric material characterization
N. Dmitruk: Optimal Online Control of Large Scale Dynamical Systems
Wednesday, March 29th 13:30-15:30
Room: MA 415
Chair: E. Kostina

T. Carraro: Parameter estimation and optimal experimental design for PDE (40 min.)

Y. Menshikov: Inverse Problem for the Differential Equation under Uncertainties

S. Göttlich: Modelling and Optimization of Supply Chains on General Networks

G. Winkler: A Priori Discretization Error Estimates of OCP in Nonconvex Domain

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Wednesday, March 29th 16:00-18:00
Room: MA 415
Chair: R. Griesse

B. Vexler: Adaptive Finite Elements for Parabolic Optimization Problems (40 min.)

K. Theißen: Controlling evolution equations into stationary solutions

K. Arens: Levelset Methods in a Benchmark for Thermoacoustic Instabilities

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Thursday, March 30th 13:30-15:30
Room: MA 415
Chair: R. Pinneau

F. Strauss: Existence and approximation results in design optimization (40 min.)

G. Vossen: Sufficient conditions for bang-bang and singular controls

N. Balashevich: Optimization of Linear System under Convex End-Point Constraints

J. Kubitz: Smoothing Solver for nonsmooth Least-Squares Methods

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Thursday, March 30th 16:00-18:00
Room: MA 415
Chair: Thomas Carraro

E. Kostina: Robustness issues in model validation for complex dynamic systems (40 min.)

M. Hintermüller: Path-following in constrained minimization

A. Schiela: The Control Reduced Interior Point Method

D. Wachsmuth: Numerical verification of optimality conditions
Section 20 - Dynamics and control
Organizer: B. Jacob, K. Schlacher

Tuesday, March 28th 13:30-15:30
Room: MA 001
Title: Controllability and controller design
Chair: B. Lampe

T. Meurer: Feedforward Control of the Temperature Distribution in a Cuboid
A. Kugi: Nonlinear control of a variable displacement axial piston pump
K. Sepahvand: Robust control of mechatronic systems with sensor uncertainties

T. Sattel: A note on vehicle guidance control using a mechanical analogy
N. Mandaloju: Analogue Implementation of the Funnel Controller
A. Brzakala: Dynamical stability of a viscoelastic bar

Tuesday, March 28th 13:30-15:30
Room: MA 041
Title: Mechanical systems
Chair: M. Hanke

C. Rudolf: Messung langsam veränderlicher Lasten mit Piezosensoren
M. Neumann: Eigenschaften und Stabilität eines dynamischen Reibgesetzes

C.-C. Neuber: Aufbau und Regelung einer Magnetführung für Werkzeugmaschinen
D. Liana Pisla: Kinematic and dynamic analysis of a parallel micro-manipulator

Tuesday, March 28th 16:00-18:00
Room: MA 001
Title: Differential Algebraic Equations
Chair: A. Ilchmann

R. März: Feedback solutions of optimal control problems with DAE constraint
E. Virnik: On Controllability of Positive Descriptor Systems
S.-O. Lindert: Steuerung und Regelung von LTI-Systemen in DAE-

Darstellung
B. Lampe: Causal polynomial stabilisation of forward models of discrete PMD
T. Reis: Decoupling of Abstract DAEs

Tuesday, March 28th 16:00-18:00
Room: MA 041
Title: Controllability and optimality
Chair: B. Jacob
**V. Istratie**: Optimal Interception with Terminal Constraints.

**A. Pisla**: Achievement of control strategies for micro-robots

**F. Ursu**: New developments in robust synthesis with antiwindup compensation

**M. Popescu**: Analysis of optimality in singular control

**G. Kostin**: Method of Intergo-Differential Relations for Optimal Beam Control

**P. Kiriazov**: Controllability of Dynamic Systems and Applications in Engineering

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**Wednesday, March 29th 13:30-15:30**  
Room: MA 001  
**Title**: System theory  
Chair: K. Schlacher

**A. Ilchmann**: Time-varying linear systems: relative degree and normal form

**H. Zwart**: Well-posedness and regularity of the undamped wave equation

**K. Röbenack**: High gain observers using an approximate observer normal form

**G. Kielau**: Generalized Helmholtz Conditions for the Existence of a Lagrangian

**A. Gaull**: Zellabbildung für dynamische Systeme mit Störungen

**M. Schöberl**: Geometric Analysis of Hamiltonian Mechanics using Connections

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**Wednesday, March 29th 13:30-15:30**  
Room: MA 041  
**Title**: Fuzzy control and identification  
Chair: B. Jacob

**V. Kondratenko**: Fuzzy arithmetic analytic models for triangular uncertain numbers

**I. Ursu**: Fuzzy supervised neurocontrol of electrohydraulic servos

**E. Pervukhina**: Analysis of adaptive filtering algorithm for random consequences

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**Wednesday, March 29th 16:00-18:00**  
Room: MA 001  
**Title**: Numerical Methods  
Chair: A. Kugi

**R. Mohr**: Galerkin-based Time Integrators for Finite Plastodynamics

**F. Wirth**: State dependent AIMD algorithms and consensus problems

**R. Shorten**: AIMD for General Decentralised Resource Allocation

**R. Balan**: A MPC algorithm applied to nonlinear processes

**T. Örtel**: Integrated motional measurement system for a flexible beam

**S. Siegmund**: Vortex Merger is a Bifurcation in Time
Thursday, March 30th 13:30-15:30
Room: MA 001
Title: Vibration problems
Chair: K. Schlacher

Z. Wójcicki: Parametric vibration in foot-bridges
K. Majcher: Sensitivity analysis of multi-storey building due to blast loading

G. Stavroulakis: Vibration suppression of smart beams under stochastic loading
D. Takacs: Theoretical and experimental investigation of tyre dynamics

P. Sniady: Vibrations of an Elastically Connected Double-String System

Thursday, March 30th 16:00-18:00
Room: MA 001
Title: Modeling
Chair: B. Jacob

O. Hancu: Modeling, simulation and control of a hydraulic servo system
L. Poppe: The Immune Response as an Optimal Control Problem with Time-Delays

M. Dhanu Singh: Modeling of Pneumatic Hybrid Actuator using Exponential Approaches
M. Strömgren: Semidiscretization of a PDAE system modelling a heat exchanger

D. Ionescu: A geometric modelling of nonlinear RLC networks
F. Antritter: Trajectory design using differential parameterizations

Section 21 - Mathematical image processing
Organizer: M. Hanke-Bourgeois, J. Weickert

Wednesday, March 29th 13:30-15:30
Room: MA 042
Title: Differential Equations and Variational Models I
Chair: J. Weickert

G. Steidl: Higher Order Total Variation Regularization (40 min.)
O. Nemitz: Structure enhancing smoothing of 3D MR Angiography data

J. Friedrich Acker: PDE based visualization of nonstationary flows
B. Burgeth: Nonlinear and Singular PDEs for the Processing of Tensor Fields

K. Frick: Inverse Scale Space Methods for Surface Denoising
Wednesday, March 29th 16:00-18:00
Room: MA 042
Title: **Inverse Problems**
Chair: M. Hanke-Bourgeois

**A. Kirsch**: Inverse Scattering Problems for Maxwell's Equations (40 min.)

**K. Bredies**: An optimal control problem in image processing

**B. Gebauer**: Detecting objects by low-frequency electromagnetic imaging

**R. Griesmaier**: Identification of small in-homogeneities: Asymptotic factorization

**T. Schuster**: Can projection methods be useful for detecting optical flow?

 Thursday, March 30th 13:30-15:30
Room: MA 042
Title: **Correspondence Problems**
Chair: B. Kawohl

**J. Modersitzki**: Mathematical Methods for Image Registration (40 min.)

**B. Berkels**: Symmetric Ambrosio-Tortorelli based registration

**N. Olischläger**: An Image Processing Approach to Surface Matching

**P. Ruhnau**: Optical Stokes Flow

**H. Köstler**: Including landmark based information in optical flow problems

 Thursday, March 30th 16:00-18:00
Room: MA 042
Title: **Differential Equations and Variational Models II**
Chair: J. Modersitzki

**B. Kawohl**: Mumford-Shah vs Perona-Malik: an analytic view at image processing (40 min.)

**W. Boiger**: An efficient local morphological Scheme for the AMSS

**M. Breuß**: Discretisation of stabilised inverse diffusion equations

**M. Welk**: Dynamical Systems in the Modelling of Space-Discrete Image Filters
Section 22 - Theoretical studies and engineering applications of vortical flows
Organizer: E. Krause

Tuesday, March 28th 09:30-12:00
Room: H 2032
Title: Vortices in atmospheric and geophysical flows
Chair: E. Krause, L. Ting

R. Klein: Three-layer structure of gradient wind vortices in the atmosphere
A. Tanabe: Laboratory experiments on vortices colliding with multiple islands
O. Buhler: Interactions between waves and vortices
N. Shokina: Numerical simulation of stationary flows in rivers with islands

Tuesday, March 28th 13:30-15:30
Room: MA 313
Title: Vortices in complex flows
Chair: L. Ting, E. Krause

B. Shashikanth: Dynamics and control of a moving cylinder and point vortices
E. Crespo del Arco: Pattern dynamics in rotating RBC with realistic boundary condition
K. Ishii: Numerical analysis of 3D vortical cavity flow
I. Recktenwald: Turbulent channel flow rotating about the streamwise axis

Tuesday, March 28th 16:00-18:00
Room: MA 313
Title: Point and line vortices
Chair: P. Bontoux, D. Blackmore

O. Knio: Recurrent Motions for Perturbed Three Point Vortex Dynamics
I. Mamaev: Dynamics of vortex sources in an ideal fluid
C. Lim: Vortex line statistics - new results by path-integral Monte Carlo

Wednesday, March 29th 13:30-15:30
Room: MA 313
Title: Dynamics of vortex structures and filaments
Chair: D. Blackmore, P. Bontoux

A. Borisov: Dynamics of a rigid body and vortex structures in an ideal fluid
Y. Prykarpatsky: Some aspects of Chern-Simons type vorticity solutions
N. Kevlahan: Stochastic Lagrangian DNS of vortex reconnection
G. Accary: Simulation of transitional convection in near-critical fluids
Wednesday, March 29th 16:00-18:00
Room: MA 313
Title: **Aerodynamic applications**
Chair: W. Schröder, R. Klein

**M. Dietz:** Helicopter Tip Vortex Conservation by Vortex-Adapted Chimera Grids

**G. Ling:** Numerical Studies on Vorticity Modification in Wake-type Flow

**E. Serre:** Spectral vanishing viscosity for LES of rotor-stator flow

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Thursday, March 30th 13:30-15:30
Room: MA 313
Title: **Vortices with axial flow**
Chair: R. Klein, G. Ling

**M. Brøns:** Topology of vortex breakdown bubbles

**M. Klaas:** Investigation of Normal and Oblique Shock/Vortex Interaction

**N. Takahashi:** The influence of turbulence on a columnar vortex with axial flow

**J. Fröhlich:** Large Eddy Simulation of swirl flows in annular and co-annular jet

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Thursday, March 30th 16:00-18:00
Room: MA 313
Title: **Vortex interaction**
Chair: G. Ling, D. Blackmore

**G. Huppertz:** Vortex/Engine-Jet Interaction in the Near Wake of a Swept Wing

**E. Krause:** Influence of winglets on near-field of tip vortex

**R. Hörschemeyer:** Tip Vortex Wake Destabilization with and without Winglets
**List of participants** (registration before February 22\(^{nd}\), 2006)

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<tr>
<th>Name</th>
<th>Institution</th>
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Bächle, Simone  
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<td>Freitag, Melina</td>
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