

VDI



Europe invites
the world

Call for Papers – International Conference on Gears

with exhibition



ASSOCIATED ORGANISATIONS



American Gear Manufacturers
Association AGMA, USA



le syndicat des Industriels
de la Mécatronique
Membre de la FIM
ARTEMA, France



British Gear Association



Chinese Mechanical
Engineering Society



Canadian Society for
Mechanical Engineering



Forschungsvereinigung
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Institution of Mechanical
Engineers, United Kingdom



Japan Society of
Mechanical Engineers



Romanian Association of
Mechanical Transmissions



Scientific Society of Mechanical
Engineers, Hungary



The Institution of
Engineers, India



The Korean Society of
Mechanical Engineers, Korea



Koninklijk Instituut Van
Ingenieurs



The Society of Instrument and
Control Engineers, Japan

DATE AND VENUE

October 5–7, 2015,
Technical University of Munich (TUM),
Garching (near Munich), Germany

SUBMIT YOUR ABSTRACTS NOW

covering related topics such as:

- Industrial applications
- Design, analysis and simulation of gears and transmissions
- Manufacturing
- Materials
- Testing

Submission Deadline
November 3rd, 2014

An event organized by VDI Wissensforum

www.vdi-gears.eu

Phone +49 211 6214-201 | Fax +49 211 6214-154

PURPOSE

The sixth international conference on gears and transmissions in Germany will become a broad platform for equipment manufacturers and producers and researchers of gear and transmission systems to present new solutions and their latest research results. Climate change is one of the big issues in public discussion, in politics and industry. The conference will show, what the transmission and drive train industry can contribute to increase energy efficiency. Gears are

vital in the efficiency of different applications. They transmit and vary torque between prime movers and applications. There is still room for improvement, which will be demonstrated by the presenters. New concepts for drive trains of energy supply systems provide answers to the increasing demand for energy worldwide. These concepts must be introduced to global markets more quickly. Therefore, new designs are necessary and will be presented at the conference. The

state-of-the-art of industrial applications will be demonstrated at an exhibition beside the conference.

With best regards
The Conference President
Prof. (ret.) Dr.-Ing. Bernd-Robert Höhn

PRESIDENCY



Conference President:
Prof. (ret.) Dr.-Ing. Bernd-Robert Höhn, Full Professor, Gear Research Centre (FZG), Technical University of Munich, Garching, Germany



Vice President:
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Vice President:
Prof. Dr.-Ing Karsten Stahl, University Professor, Chair for Machine Elements, Gear Research Centre (FZG), Technical University of Munich, Garching

CONTACT

If you have any general questions about the conference please contact

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 **Wissensforum**

VENUE



Source: Scharger Albert

Gear Research Centre
Technical University of Munich
Chair of Machine Elements



TOPICS

1. Industrial applications

- 1.1 Transmissions for energy systems, e.g. power plants, wind generators, water turbines etc.
- 1.2 Transmissions for mobility systems, e.g. gear boxes in the marine, aircraft, railway and automotive sectors
- 1.3 Transmissions for production machinery, e.g. transportation in manufacturing lines

2. Design, analysis and simulation of gears and transmissions

- 2.1 New designs for all types of gears (cylindrical, bevel and worm gears, beveloids) with improved efficiency and reduced noise and vibration
- 2.2 New gears, asymmetric involute gears, low-loss gears, cycloid gears and gear modifications for better efficiency and lower noise emission

- 2.3 New materials, heat treatment, lubrication and coatings for higher durability
- 2.4 Improved simulation programs for lightweight design and better life time prediction

3. Manufacturing

- 3.1 New manufacturing technologies to improve product quality and manufacturing time
- 3.2 Improved tools for future demands on production systems
- 3.3 New technologies for ecologically sustainable production and those which preserve natural resources
- 3.4 Simulation of manufacturing processes
- 3.5 Production/manufacturing related component properties

4. Materials

- 4.1 New materials, new steel alloys, sintered materials and reinforced gears with carbon and glass fiber
- 4.2 Heat treatment, new carburizing and nitriding methods
- 4.3 Lubrication and coatings for higher durability

5. Testing

- 5.1 New methods for lifetime, efficiency and noise behavior
- 5.2 Correlation of system and component tests
- 5.3 Time scaling strategies for fatigue tests of transmissions (e.g. Windmill transmissions)
- 5.4 New sensors and test procedures



CALL FOR SUBMISSION OF CONTRIBUTIONS

Are you an expert on one of the areas of our topics? Then we call on you to make an active contribution to the success of the congress with a presentation.

Please submit a brief abstract of max. one A4 size sheet by **November 3rd, 2014**, summarizing your presentation. You can submit your paper at www.vdi-gears.eu

TYPES OF CONTRIBUTION

Your contribution can take the form of:

1. a full presentation:

If your paper is accepted you will be allowed to speak 20 minutes, with additional 5 minutes for discussion and the opportunity to respond to questions and comments from the audience.

2. a poster presentation:

The posters will be on view for discussion in the exhibition area.

SUBMISSION OF ABSTRACTS

If you want to present a contribution your submission must include:

- Title of the paper and/or poster
- An abstract summarizing your paper
- Information about the lecturer and co-authors: name, title(s), company address, department, affiliation, e-mail, telephone and fax number
- In which topic area(s) your presentation should be listed
- A statement specifying what is new in your presentation
- A bibliography of your previous publications about this subject
- How you would like to present your paper upon acceptance (full or poster presentation)
- **Notation if a peer review of the complete manuscript is requested**

Please note that abstracts and final papers will be only accepted if they are uploaded to the conference's website: www.vdi-gears.eu

All submissions must be either Microsoft WORD (DOC or DOCX) or Portable Document Format (PDF) files. Your abstract must be received by November 3rd, 2014. Based on the abstract, the programme committee will decide on the acceptance and order of presentation in the conference programme. Please note that the number of Co-authors named in the printed programme is limited up to two.

SUBMISSION OF THE FINAL MANUSCRIPT

If your paper is accepted you will be invited to submit the final manuscript which must be received by July 3rd, 2015 the latest. In the case that you wish a peer review the final manuscript has to be received by April 10th, 2015 the latest. Peer reviewed manuscripts will be marked in the conference proceedings.

If you receive notification of acceptance, you will also receive instructions concerning manuscripts and a question form to be returned to the VDI Wissensforum. The accepted papers (full papers and posters) will be printed in the conference proceedings provided to the conference participants and published as a "VDI-Bericht".

SCHEDULE

- Deadline for submission of abstracts **November 3rd, 2014**
- Notification of acceptance **End of February 2015**
- Final programme available in **June 2015**
- Deadline for submission of manuscripts **April 10th, 2015 (with peer review)**
- Deadline for submission of manuscripts **July 3rd, 2015 (without peer review)**

GENERAL INFORMATION

The conference will last three days, comprising keynote addresses and presentations in a series of plenary and parallel sessions. The official language of the conference will be English. No simultaneous translation will be provided. The conference programme will be available in June 2015.

CONFERENCE FEE

Speakers (one person per paper) will receive a 30 % discount on the regular conference fee. Discounts cannot be accumulated. Travel expenses will not be paid.

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Japan Society of Mechanical Engineers



ARTEMA, France



Romanian Association of Mechanical Transmissions



British Gear Association



Scientific Society of Mechanical Engineers, Hungary



Chinese Mechanical Engineering Society



The Institution of Engineers, India



Canadian Society for Mechanical Engineering



The Korean Society of Mechanical Engineers, Korea



Drive Technology Research Association, Germany



Koninklijk Instituut Van Ingenieurs, The Netherlands



Institution of Mechanical Engineers, United Kingdom



The Society of Instrument and Control Engineers, Japan

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and its technical divisions provide all sectors with verified knowledge on the design of products and processes and their optimization in terms of quality and the time- and cost-benefit ratio.

www.vdi.eu

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Would you like to get face to face with the high-powered delegates attending this VDI congress and present your products and services to a specialist sector of your market? For an optimum presentation of your company, make use of the exhibition held in parallel with the conference. Here you can meet industry decisionmakers – make your target contacts neatly and without a great deal of organisational outlay. Secure your stand space right at the heart of this industry rendezvous and/or use a sponsorship package specially tailored to your requirements to enable you to stand out more clearly and

effectively from your competitors. We can supply you with exclusive communication possibilities before, during and after the event.

Exhibitor and sponsor inquiries should be addressed to

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DATE AND LOCATION

The International Conference on Gears will take place in Garching, Technical University Munich, Garching, Germany, from Monday, October 5th, 2015 to Wednesday, October 7th, 2015. The famous Oktoberfest starts on Saturday, September 19th and ends on Sunday, October 4th, 2015. Participants will have the opportunity to extend

their visit to the famous city and its surroundings for a couple of days. Munich offers a lot of places of interest such as the Marienplatz in the city center, Old and New Town Hall, Frauenkirche, Viktualienmarkt and Odeonsplatz. Other attractions include the English Garden, the Deutsche Museum, the Königsplatz, the Pinakothek

I, II and III and the site of the 1972 Olympics. Visitors should not miss a trip to the points of interest outside of Munich such as the Castle Neuschwanstein, Castle Linderhof, Lake Starnberg, Lake Ammersee, Lake Chiemsee and the Isar Valley.

INTERNATIONAL CONFERENCE ON GEARS 2015

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I shall be attending the "International Conference on Gears 2015" on October 05th–07th, 2015, Garching/Munich, Germany

Please choose your price category (PC)

All prices plus VAT*	PC	INTERNATIONAL CONFERENCE ON GEARS 2015 (02TA210015)
Regular attendance fee	1	<input type="checkbox"/> EUR 1.390,-
Personal VDI-members and members of associated organisations	2	<input type="checkbox"/> EUR 1.240,-
VDI membership number/Name of the associated organisation**		

* The VAT directive of the respective country applies

** With price level 2 you must quote your VDI membership number or the name of the associated organisation.

1111

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Date _____ x Your signature _____

VDI Wissensforum

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www.vdi-gears.eu

Registration: Registrations for conference attendance must be made in writing. Confirmation of your registration and the associated invoice will be mailed to you. Please do not pay your conference attendance fee until you have received our invoice and its invoice number to be stated for transfer.

Conference Venue

Gear Research Centre
Chair of Machine Elements
Technical University of Munich
Boltzmannstraße 15, 85748 Garching, Germany
www.fzg.mw.tum.de

Hotel Reservation

A contingent of rooms is reserved for participants for October 05th to 07th, 2015. For booking please visit www.vdi-gears.eu
More Hotels close to the conference venue may be found via our HRS service www.vdi-wissensforum.de/hrs.



VDI Wissensforum service package: The conference package includes the conference documents (VDI-Bericht), coffee-break beverages, lunch and the evening events.

Conference attendance conditions and terms: By way of your registration you accept the conference attendance conditions and terms of VDI Wissensforum GmbH as binding. Any cancellation of your registration must be made in writing. We will charge you only an administrative fee of € 50.00 plus German VAT if you cancel your registration earlier than 14 days ahead of the conference date. Any cancellation that reaches us after this deadline will entail the conference attendance fee as stated in our invoice to be charged in full. The date of the post office stamp of your written cancellation will be the decisive criterion. In that case, we will gladly mail you the conference documents on request. Subject to agreement, you may name a substitute participant. Individual parts and sections of conferences and seminars cannot be booked. You will be informed without delay if an event has to be cancelled for unforeseeable reasons. In that instance, you will be entitled only to a refund of your conference attendance fee if already paid. We reserve the right to exchange speakers and/or change the program sequence in exceptional cases. In any case, the liability of VDI Wissensforum GmbH is restricted exclusively to the conference attendance fee.

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