



# ANNUAL MEETING ON NUCLEAR TECHNOLOGY

May 22 - 24, 2007, Stadthalle Karlsruhe

## JAHRESTAGUNG KERntechnik

### Invitation and Call for Papers

The German Nuclear Society and the German Atomic Forum will jointly arrange the ANNUAL MEETING ON NUCLEAR TECHNOLOGY 2007 at the **Congress Centre Stadthalle Karlsruhe**, Germany, on May 22 - 24, 2007. dBCM GmbH has been commissioned to organize the event.

Numerous experts from Germany and abroad are expected to attend this conference.

The programme will comprise three categories of lecture events:

- Plenary sessions with survey talks
- Topical sessions with invited papers
- Technical sessions with papers contributed to the meeting

The programme will focus on German as well as on international aspects and developments of nuclear energy with a special attention paid to recent developments in the United Kingdom.

The **topical sessions** will partly be held in parallel on the following subjects:

- The Future of Nuclear Power in UK
- Application of CFD-Methods in Reactor Safety
- Fusion Technology
- Radiation Protection
- Recent Developments in Fuel Element Manufacturing
- Further Development of In-house Monitoring

The programme will be supplemented by a Nuclear Energy Campus. This event is dedicated as briefing for highschool students.

The complete detailed programme will be available in early 2007. Latest information will also be available on the web page: [www.jahrestagung-kerntechnik.de](http://www.jahrestagung-kerntechnik.de)

We would like to encourage to **submit technical and scientific papers** to the ANNUAL MEETING ON NUCLEAR TECHNOLOGY 2007. Many of the papers submitted will be selected for presentation.

Papers should cover one of the general topics listed below (for further details, see page 4):

- Reactor Physics and Methods of Calculation
- Thermodynamics and Fluid Dynamics
- Safety of Nuclear Installations - Methods, Analysis, Results
- Front End and Back End of the Fuel Cycle, Radioactive Waste, Storage
- Fuel Elements and Core Components

- Operation of Nuclear Installations
- Decommissioning of Nuclear Installations
- Fusion Technology
- Research Reactors
- Advanced Energy Systems - Energy Economics
- Radiation Protection

Required are so called **Compacts**. Compacts are shorter than full papers but longer than abstracts. In general, they cover up to four pages.

Only those Compacts can be considered which will be received by dBCM GmbH not later than **by December 1, 2006** together with the completed application form (see overleaf).

The Compacts should contain summaries of the results and concepts of the work covered. In particular, they should present new findings, the objectives, descriptions of the methods employed, and possibilities of generalization. The references used must be indicated.

Contributions must meet the formal requirements outlined on page 3 of this invitation. Papers failing to meet them cannot be considered.

The **conference languages** are English and German. Simultaneous interpretation between these two languages will be provided for the plenary sessions only. In view of the increasing international cooperation, and also in the interest of the many participants from abroad, English should be preferred.

The papers received will be subject to a peer review, on the basis of which a selection will be made in early 2007. Authors will be informed of the decision of the Selection Committee without delay. The right to combine papers on closely related subjects is reserved.

**Copyright** in papers accepted for presentation at the ANNUAL MEETING ON NUCLEAR TECHNOLOGY passes to INFORUM GmbH. Accepted papers will be published in the proceedings on CD ROM or DVD.

Authors whose papers have been accepted must nevertheless remit a **congress fee**. For the speaker this fee will be reduced by 25% (for regular fees see preliminary programme in early 2007).

Especially younger colleagues (<35) should be encouraged to present their work on this occasion. They may be assured of the kind interest of the paper selection committees. Those belonging to this group are kindly requested to indicate their birthday.

Please return not later than by **December 1, 2006** to: dbcsm GmbH Congress Office Kamillenweg 16-18 53757 Sankt Augustin, Germany. jk@dbcsm.de

# Application for Submission of a Paper to the ANNUAL MEETING ON NUCLEAR TECHNOLOGY 2007

Please complete and submit (in block letters or typed) together with your paper.

Title of report:

The paper will be read in  German  English

Author(s): Please indicate speaker's name first (1.)

Name, title: First name: Profession: KTG-Member No.: Date of birth:

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**Affiliation:**

(same order as above)

Zip-code/City, street or P.O. Box:

Phone:

E-mail:

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Short biography of speaker 1.:

(This short biography is only for use of the session chairman)

Name and contact data of author to whom correspondence should be sent:

(if not filled in, correspondence will be sent to the author quoted first above).

Fax:

e-mail:

The contribution encloses  pages, including all tables, graphs and references in a **reproducible version**.

Please cross

In case my contribution is accepted for oral presentation, I would like to have

15 minutes for presentation incl. app. 5 minutes for discussion

30 minutes for presentation incl. app. 10 minutes for discussion

To which section (s. page 4) should your paper be allocated?

Section:

I hereby confirm that I have not published the paper submitted either at any other technical/scientific meeting or for publication to a journal.

Place

Date

Signature



Deutsches Atomforum e.V.

Congress Office,  dbcsm GmbH

Kamillenweg 16-18, 53757 Sankt Augustin, Germany

Tel. +49 (0) 2241 / 93897-23, Fax: +49 (0) 2241 / 93897-12, e-mail: jk@dbcsm.de



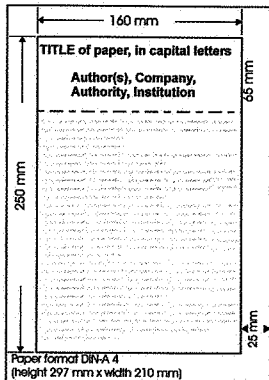
Kerntechnische Gesellschaft e.V.

# Information on Compact Writing

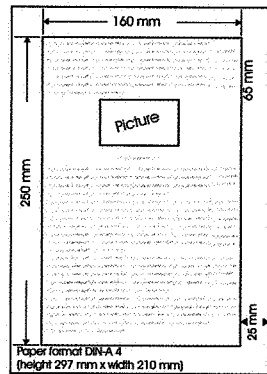
## How to submit compacts

Compacts must be submitted via e-mail to [jk@dbcmm.de](mailto:jk@dbcmm.de) together with the filled in application form (see page 2 of this Call for Papers). The application form is also downloadable from the web page [www.jahrestagung-kerntechnik.de](http://www.jahrestagung-kerntechnik.de). Papers must be submitted in pdf-format (Adobe®). If you do not want to send your compact via e-mail you can send it by ordinary mail on a 3,5" floppy disk, a zip disk (100 MB, 250 MB or 750 MB), CD-ROM or on DVD.

The receipt of papers will be acknowledged. If you have not had any response from us within two weeks, please get in touch with us.



1. page



following pages

## How to prepare compacts?

The page size to be delivered is DIN A4 (210 x 297 mm). It is important that the type area does not exceed 160 x 250 mm. The height of the typefaces must be 12 pt. The maximum number of characters should not exceed 10 per inch. As character set "Arial" is to be used.

The first page must start with a field in which centred the title of the work, the name(s) of the author(s) and the affiliation(s) are given (see example 1. page). This field must have the diameters 65 x 160 mm.

Tables and figures should be included in the text or appended at the end. References should be indicated at the end of the text.

It is recommended that compacts should not exceed four pages (including all illustrations, figures, tables, references, etc.).

## How the pdf-file is to be produced

As mentioned before papers must be sent via email in pdf-format. pdf-files should preferably be generated with the original Adobe® programme **Acrobat 4** or newer Versions.

### For users of Acrobat® 6 and 7

After you have produced your text you must print it to the printer called "Adobe PDF". Before you start using this printer you must download a file called "CompactJK.joboptions" from our ftp server. The download address is "http://jahrestagung.myftp.org" (Benutzername: guest; Kennwort: guest). This file has to be saved in the folder "C:/programme/adobe/acrobat/distillr/settings". This path might vary on your personal computer according to your installation. Now you are ready for printing. But before printing make the setting "CompactJK.joboptions" under "properties". Next you will be asked for a file name. Please choose your full name (i.e. forename.surname.pdf). After all this is done, please open the produced file with Acrobat Reader® for a check. Print it out on your standard printer and send it via facsimile to 0049 (0)2241/93897-12 or by ordinary mail to dbcmm GmbH. The file itself must be transferred via email to [jk@dbcmm.de](mailto:jk@dbcmm.de)

### For users of Acrobat® 4 and 5

The procedure is in principle the same as for Acrobat 6 or 7 users. The difference is that the virtual printer in these cases is called "Acrobat Distiller".

For assistance, please call +49 (0) 2241/ 93897-22 or send an e-mail to our helpdesk: [guenter.bruessel@dbcmm.de](mailto:guenter.bruessel@dbcmm.de).



# Subject Categories

## Section 1:

### Reactor Physics and Methods of Calculation

- Mathematical Methods, including Numerical Procedures
- Programme Systems
- Application of Advanced Computer Systems
- In-core Management Programmes
- Core Design
- Nuclear Data for Reactors
- Reactor Dynamics and Reactor Control
- Fuel Management Systems
- Physics Experiments and their Interpretation
- Criticality Analysis
- Actinides

## Section 2:

### Thermodynamics and Fluid Dynamics

- Experiments and their Interpretation
- Mathematical Methods
- Programme Systems
- Cooling Systems Design
- Thermodynamic and Fluid Dynamic Aspects in Safety
- Plant Dynamics and Plant Control

## Section 3:

### Safety of Nuclear Installations - Methods, Analyses, Results

- Safety Analysis of the Reactor System and its Components
- Safety Analysis in Waste Management
- Experimental Safety Studies
- Environmental Releases of Activity
- Reliability and Safety of Nuclear Power Plants
- Probabilistic Safety Analysis/Assessment
- Safety Evaluation of Backfitting Measures
- Severe Accident Investigations
- Accident Management Measures
- Periodic Safety Inspections

## Section 4:

### Front End and Back End of the Fuel Cycle, Radioactive Waste, Storage

- Fuel Supply and Enrichment
- Nuclear Fuels
- Reprocessing
- Fuel Recycling
- Treatment and Storage of Fuel Elements and Radioactive Waste
- Nuclear Materials Safeguards
- Fuel Management
- Management of Operational Waste
- Final Storage
- Transportation

## Section 5:

### Fuel Elements and Core Components

- Materials for Core Components and Fuel Elements
- Fabrication of Fuel Elements
- Design
- In-pile Experiments
- Operational Behaviour

## Section 6:

### Operation of Nuclear Installations

- Organization of Power Plant Operation
- Computer Based Operation
- Quality Assurance
- Maintenance and In-Service Inspection
- Reactor Chemistry and Power Plant Chemistry
- Component Materials and Their Characteristics in Operation

- Mechanical Components and Systems in Reactor Plants
- Economical Aspects
- Components of Auxiliary and Ancillary Systems
- Protection and Safety Systems (Mechanical and Electrical)
- Turbine Plants
- Instruments and Control Equipment
- Man-Machine Interfaces
- Education and Expert Knowledge
- Simulators
- Legal Aspects of Operation
- Monitoring, Techniques of Measurements

## Section 7:

### Decommissioning of Nuclear Installations

- Decommissioning of Nuclear Power Plants
- Concepts of and Experience with Decommissioning of Research Reactors
- Decommissioning Installations of the Fuel Cycle
- Legal Aspects of Decommissioning
- Old Contaminations
- Management of Decommissioning Waste

## Section 8:

### Fusion Technology

- Plasma Physics Experiments
- Reactor-related Systems
- Blankets and Blanket Materials
- Fuel Cycle
- Magnet and Plasma Heating
- Materials of the First Wall and Structural Materials
- Remote Handling in Fusion
- Safety and Environmental Impacts

## Section 9:

### Research Reactors

- Operation and Uses
- Using Research Reactors
- Nuclear and Thermodynamic Design Aspects
- Safety Aspects
- New Developments
- Non Energetic Use of Nuclear Technology

## Section 10:

### Advanced Reactor Concepts, Energy Systems - Energy Economics

- Advanced and New Reactor Concepts
- Energy Requirement, Energy Supply
- Sources of Primary Energy (Fossil, Nuclear, and Others)
- Electricity Economy
- Cogeneration
- Reactor Systems and Strategies
- Nuclear Power Sources for Special Applications
- Systems Approaches
- Micro- and Macroeconomics
- Environment, Risk Comparisons
- Economic Comparisons

## Section 11:

### Radiation Protection

- Radiation Protection Technique
- Radiation Protection Measurement
- Dosimetry
- Work Area Monitoring
- Environmental Monitoring, Emission Monitoring
- NPP Remote Monitoring
- Diffusion Calculation
- Radiation Emergency Protection
- Data Management in Radiation Protection

