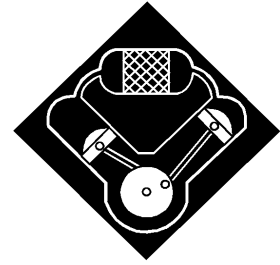


International Stirling Forum 2010

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Organisers:

Fachhochschule Osnabrueck

Deutsche Bundesstiftung Umwelt
(DBU)

C•U•T• Centrum fuer Umwelt und
Technologie Osnabrueck

VDI, Osnabruecker Bezirksverein e.V.

ECOS Gesellschaft fuer Entwicklung
und Consulting Osnabrueck mbH

Announcement - Call for Papers

Deadlines :

February 26, 2010	Deadline for submission for an lecture
March 15, 2010	Information accepting lecture
June 30, 2010	Submission manuscript
July 31, 2010	Deadline for registration for an exhibit
Oktober 5 – 6, 2010	Conference

The International Stirling Forum 2010 will be organised by ECOS GmbH in conjunction with the Fachhochschule (University of applied sciences) Osnabrueck, the Deutsche Bundesstiftung Umwelt (German Federal Environmental Foundation, DBU), the VDI (German association of engineers) and the Centre for Environment and Technology (C•U•T•) Osnabrueck. The Saxion Hogeschool Enschede (Technical University) and the Fachhochschule Muenster (University of applied sciences) are participating as cooperation partners. During this event current research work, developments and results of applications in the field of Stirling engine technology will be presented. Above that, this event is organised to be a contact forum in which manufacturers, developers, potential users and suppliers can meet in order to pave the way for future cooperation. In addition, the participation of all the cooperation partners will provide, on an institutional level, the opportunity for an intensified exchange in the fields of renewable energy usage, cogeneration and Stirling technology.

The event is directed at planners, producers, research institutes, universities and technical high schools that are active in the fields of Stirling engine development, production and application. It is also directed at potential supply firms (e.g. makers of burners, gear units, generators, etc.), energy supply companies, middle-sized firms with a need for new technologies to produce energy economically and ecologically, planners and decision-makers in public utilities, as well as firms and organisations concerned with development aid programs.

As we would like to give participants an overview on the current status of Stirling engine technology, we ask all contributing authors, when compiling their articles, to include details of practical experience, testing, and, if appropriate, marketing conditions of their products. If possible, we would also like them to include references to competing systems and approaches to market.

Presentations should be submitted on the following subjects:

Stirling Cogeneration Systems

- Stirling cogeneration systems for the utilisation of solid fuels (e.g. biomass), biogas, landfill gas and fossil fuels

Components for Stirling Engines

- Burner technology, combustion chambers (e.g. flameless oxidation)

- Control systems for Stirling engines
- Sealing-materials for Stirling engines (mainly for dynamic seals)
- Regenerator materials for Stirling engines (metal gauze, sieves, metal wool, etc.)
- Heat exchangers, heat pipes
- Standards for Stirling engines (power, efficiency, CE-Standards)
- Generators and their adaptation to Stirling engines
- Layout and design of crank-mechanisms for Stirling engines

New developments and operating experiences

- Stirling engines for use in hybrid propulsion technology
- Free Piston Stirling engines
- Stirling refrigerators for applications in the ambient temperature range
- Stirling heat pumps
- Low ΔT Stirling engines
- Dish/Stirling systems

Applications

- Application of Stirling engines in space
- Application of cryocoolers (e.g. medical technological applications, Squids, superconductors)
- Waste heat recovery
- Solid fuel furnaces
- Biogas and landfill gas technology
- Solar applications

Design, construction and production

- Standardisation of Stirling engine performance data
- Generalised methods of calculation (e.g. by dimensionless analysis) for manufacturers of Stirling engines and their components, Cycle-Simulations
- Mass production of Stirling engines

Marketing

- Economic aspects for Stirling engine applications
- The effects of new technologies (e.g. Hydrogen technology, fuel cells) on the marketing prospects of Stirling Engines

Conference languages will be English.

Please submit your proposal for a presentation by **February 26, 2010** on, at the most, 2 pages (A4) including the following information:

- Title of the presentation, author, co-authors, which firm or institute you represent, address, telephone/fax number
- Areas of application; your assessment of present day and future markets, market developments and anticipated competitors
- Current status of the technology; problems in adapting existing technologies; usability; operational results with individual machines

or in the case of theoretical research and development work:

- Your estimate of the current status of your work, with regard to completion of development, applicability, and availability of results

You will receive confirmation of acceptance of the proposed presentation, respectively of the publication of your report in the Proceedings, by **March 15, 2010**.

If your contribution is accepted, we will need a printable manuscript for the official conference document plus a summary of max. one page (A4) by **June 30, 2010**.

Exhibits

Participants have the possibility, to a limited extent, of showing their developments either by exhibits or posters. Demonstrations of Stirling Engines are possible and will be very welcomed. If you wish to exhibit posters or a Stirling machine during the Stirling Forum, please notify us by **July 31, 2010**.

Please send your registration for exhibits or a presentation, to:

ECOS GmbH, International Stirling Forum 2010, Westerbreite 7, D-49084 Osnabrueck, Germany

Tel.: +49-(0)541-9778-200, Fax: +49-(0)541-9778-202, e-mail: isf2010@ecos-consult.com

Homepage: <http://www.ecos-consult/isf2010.html>

We would be very pleased to welcome you at the International Stirling Forum 2010 in Osnabrueck.

A handwritten signature in black ink, appearing to read 'P. Beck', with a stylized flourish at the end.

Peter Beck
(Chairman)