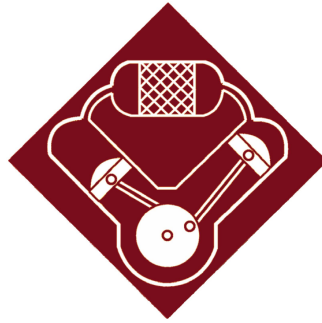

Draft Programme

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**International
Stirling Forum 2008**

Osnabrück, Germany

September 23 and 24, 2008

Conference & Exhibition

**Zentrum für Umweltkommunikation
ZUK der DBU**

Tuesday, September 23, 2008

8:30 Conference registration and distribution of the congress documents, coffee

10:00 Welcome and opening of the conference by:
Dr. Roland Digel, Deutsche Bundesstiftung Umwelt (DBU)
Peter Beck, managing director ECOS GmbH

Cogeneration I

Chairman: *C.M. Bartolini*, Università Politecnica delle Marche, Ancona, Italy

10:15 **The Path To Stirling Commercialization**
D. Miklosi, Stirling Biopower Inc., Ann Arbor, USA

10:45 **Global Change in Energy Validation – Challenges For Market Introduction Of Stirling Engines**
A. Baumüller, Tübingen, Germany

11:15 > coffee break <

11:30 **About Forecasting Volumes Of Manufacture And Prospects Of Application Of Power Installations With Stirling Engines In Russia**
N.G. Kirillov, St.- Petersburg, Russia

12:00 **The Long Road From Laboratory To Market With Stirling Microcogeneration Systems - Results Of The MCC Experience**
Javier Aranceta, Asier Lopez, Xabier Ruiz del portal, Mondragon Componentes, Aretxabaleta, Spain

12:30 > lunch <

Thermodynamic Design and Simulation

Chairman: *A.J. Organ*, mRT-Regenerative Thermal Machines, Cambridge, United Kingdom

14:00 **Less Steam, More Traction: Stirling Engine Design Without The Hot Air**
A. J. Organ, mRT-Regenerative Thermal Machines, Cambridge, United Kingdom

14:30 **One Man's Attempt To Understand The Stirling Engine**
A. J. Organ, mRT-Regenerative Thermal Machines, Cambridge, United Kingdom

15:00 **The Effect Of Angular Velocity In Stirling Engine On The Thermal Performance Of Heat Regenerator**
H.R. Mortazavy, J. Zarinchang, A.A. Golneshan, Shiraz University, Shiraz, Iran

15:30 > coffee break <

16:00 Simulation And Construction Of A Solar Stirling Engine With Two Cylinders Equipped With Flat-Plate Solar Collector

A.T. Saleh, J. Zarinchang, University Of Shiraz, Iran

16:30 Stirling Engines Evaluation Performance For Various Theoretical/Experimental Models Of The Regenerator

G. D. Antonakos, I. Koronaki, E. D. Rogdakis, A. Sparacello, National Technical University Of Athens, Greece

17:00 Meeting of the International Stirling Engine Council (ISEC)

18:00 Get-together with welcoming buffet

Wednesday, September 24, 2008

Parallel Paper Session I

Cogeneration II

Chairman: *V. Naso, Università di Roma "La Sapienza", Rome, Italy*

9:00 About Problems Of Manufacture and Methodology Of Creation Of New Highly Effective Power Installations With Stirling Engines

N.G. Kirillov, St.- Petersburg, Russia

9:30 Market Introduction Of Stirling Micro CHP

W. Lewis, Bosch Thermotechnology Ltd, Warndon, United Kingdom

10:00 Micro-Chp - The New Condensing Boiler That Produces High Efficiency Electricity

M. Bijkerk, Remeha B.V., Apeldoorn, The Netherlands

10:30 > coffee break <

11:00 Development Of A Wood-Fired Micro-CHP-System With Stirling Engine For Residential Applications

Benoit Sicre, Timo Maurath, Fraunhofer Institut für Solare Energiesysteme, Freiburg, Germany; Jeannette Wapler, Kurt Schüle, PSE AG, Freiburg, Germany

11:30 A Gasified Combustor Of Wood Pellets For A Stirling Engine

T. Saito, Y. Irigoien, K. Kobayashi, K. Hamaguchi, Meisei University, Tokyo, Japan

12:00 Development Of Wood Pellet Fired Stirling Co-Generation Systems

K. Hamaguchi, T. Saito, S. Yokokura, Meisei University, Tokyo, Japan

12:30 > lunch <

Cogeneration III

Chairman: J. Ouwehand, Saxion Hogescholen, Enschede, The Netherlands

14:00 **DeBiT- Test Plant For The Gasification Of Solids (eg. Dry Wood) And The In-Situ Combustion Of The Gas**

N. Ebeling, Fachhochschule Münster, Germany

14:30 **Heat And Electricity Based On Wood, Short Report Of A Field-Test With A Micro-Stirling-Engine And A Log-Boiler**

B. Kammerich, Dortmund, Germany

15:00 **Strom und Wärme aus Holzpellets - Die Entwicklung des "Stirling-Power-Moduls"**

K.W. Stanzel, Stirling Power Module Energieumwandlungs GmbH, Graz, Austria

15:30 **Erste Erfahrungen bei der Markteinführung der Sunmachine Pellet/Bioerdgas**

W. Flecks, Sunmachine Gesellschaft für Stirling-Technologien mbH, Wildpoldsried, Germany

16:00 closure

Parallel Paper Session II

Engine Design

Chairman: *Kh. Mahkamov*, Durham University, United Kingdom

9:00 **Prototype Stirling Engine Comprising One Single Free Piston and A Resonance Tube**

J.P. Budliger, Consultant, Plan-des-Ouates, Switzerland; *M. Lindegger*, Circle Motor AG, Gümligen, Switzerland; *R. Schmid*, R. Schmid AG, Thörishaus, Switzerland

9:30 **Design Of A Convertible Stirling-Vuilleumier Hybrid System For Demand-Oriented Decentralized Cogeneration And Heat Pump Application**

I. Geue, H.-D. Kühl, Technische Universität Dortmund, Germany

10:00 **A Research Stirling Engine Being Capable Of More Than One Layout**

A. B. Stefanovskiy, Tavriyan State Agro-Technological University, City Of Melitopol, Ukraine

10:30 > coffee break <

11:00 Research Of Distribution Of Non-Uniformity Of Temperature Of Stirling Engine With The External Heat Supply

V.P. Breusov, St.- Petersburg, Russia

11:30 A Novel Stirling Cycle Engine Design

E.A. Paradissis, VIOLAMP, Athens, Greece

12:00 Neues Projekt Schwenkkolben Heißgasmotor

G. Binnen, Binnen Konstruktionen GbR, Obersulm, Germany

12:30 > lunch <

Stirling Related Processes: Design, Simulation and Tests

Chairman: *P. Stouffs*, LaTEP, Université de Pau et des Pays de l'Adour, France

14:00 Bench-Test Model Of Isshiki-Type Steam Rankine Stirling Engine

N. Ohtomo, *S. Ohtomo*, NERC Co.,Ltd., Sapporo, Japan; *N. Isshiki*, former professor of Tokyo Industry University, Japan; *H. Kojima*, Technical Advisor of NERC Co.,Ltd., Sapporo, Japan; *M. Sugiyama*, Toichi Kogyosho Ltd., Japan; *S. Yamagata*, Hokkaido University, Japan; *T. Ise*, I-sec Co.Ltd., Japan

14:30 Design, Experimental Setup And Preliminary Testing Results Of A Small Joule Cycle Ericsson Engine Prototype

A. Toure, *S. Soubacq*, *M. Alaphilippe*, *P. Stouffs*, LaTEP, Université de Pau et des Pays de l'Adour, France; *D. Marquet*, France Telecom, Orange, France

15:00 Dynamic Simulation Of A Small Joule Cycle Ericsson Engine: First Results

F. Lontsi, *J. Castaing-Lasvignottes*, *P. Stouffs*, LaTEP, University of Pau, France

15:30 > closure <

Speech time includes time for discussion of approx. 5 minutes

The International Stirling Forum 2008 is sponsored by:



Organisers:



Organisation

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www.ecos.eu/isf2008

Location

Deutsche Bundesstiftung Umwelt DBU (German Environmental Foundation),
Zentrum für Umweltkommunikation ZUK (Center for Environmental Communication)
An der Bornau 2, 49090 Osnabrück, Germany
Location: www.dbu.de/contact

Organisers

ECOS Gesellschaft für Entwicklung und Consulting Osnabrück mbH
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Cooperation partners

Saxion Hogeschool Enschede (NL)
Energieonderzoek Centrum Nederland ECN (NL)
Stadtwerke Osnabrück AG (D)

Languages

All discussion contributions are possible in either **German** or **English**. Translation will not be organised.