



8th INTERNATIONAL CONFERENCE ON HEAT ENGINES AND ENVIRONMENTAL PROTECTION

*May 28–30, 2007
Hotel Uni, Balatonfüred, Hungary*

S E C O N D A N N O U N C E M E N T

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Organized by:

Budapest University of Technology and Economics
Department of Energy Engineering
www.energia.bme.hu

Scientific Committee:

Chair: Prof. Dr. Antal Penninger
Co-chair: Prof. Dr. Károly Reményi
Secretary: László Kárpáti
Members: Prof. Dr. Attila Meggyes
Prof. Dr. László Imre
Prof. Dr. Attila Bíró
Dr. Gróf Gyula

Local Arrangements:

TRIVENT Conference Office
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The construction of machines and equipments, the fuel composition and fuel quality have decisive role in the operation of the heat engines and the power plants and extremely high impact on the environment. Due to the need of the conservation of the nature and the sustainable development the renewable energy resources have been used more and more intensively resulting in the application of the new systems, new solutions and new constructions for the energy industry. The conservation of the nature and the efficient, economic supply of energy is the main task nowadays in the energy engineering. These goals can be reached by the harmonized utilization of the renewable and the classic energy resources.

The aim of the conference, organized on the eighth occasion, is providing a forum of all those who are interested in the subjects and means to survey the possibilities, the results and the development trends.

ANTAL PENNINGER
Conference Chair

Papers/Proceedings

We are expecting papers not more than 6 A4 camera ready pages written according to the requirements of the Guidelines for Manuscript Preparation. The papers should be submitted not later than 20th April 2007 through e-mail to trivent@trivent.hu or on-line, according to the descriptions under the homepage www.energia.bme.hu.

The publication of the papers in the conference proceedings can be ensured only in case of the receipt of the registration fee. The proceedings will be published in English.

Language

During the conference lectures will be given in both Hungarian and English language. Simultaneous translation will be provided.

Venue

The conference venue is Hotel Uni, Balatonfüred, Hungary.
Address: H-8230 Balatonfüred, Széchenyi u. 10.

Registration Fee

The expected early registration fee until 1st May 2007 is EUR 350/person + 20% VAT, the late registration fee after 1st May 2007 is EUR 380/person + 20% VAT and includes conference proceedings (Printed proceeding and CD), accommodation in single rooms with full board, cocktail- and grill-party.

The expected early student registration fee until 1st May 2007 is EUR 200/person + 20% VAT, the late student registration fee after 1st May 2007 is EUR 230/person + 20% VAT and includes CD proceeding, accommodation in double bedrooms with full board, cocktail- and grill-party.

Company presentations, exhibition and advertising materials are to be paid extra:

- Company presentation: 105 EUR/15 minutes
- Exhibition material: 85 EUR/ 1 poster board (100x150 cm) + 1 table
- Advertising material in the conference bags: 65 EUR/100 flyers

The deadline for sending the registration form is 27th April, for payment is 5th May 2007. The payment is to be done by bank transfer.

Our bank: OTP Bank Rt.
Address: 1126 Budapest, Hungary Böszörményi út 9–11.
Account: 11712004-20144016
Account holder: S.J.T. TRIVENT Bt.
Swift code: OTP V HUH B XXX
IBAN number: HU 55 11712004-20144016

For those participating between 31 May – 2 June in IYCE 2007 conference (www.iyce2007.org) as well a 40% reduction from both registration fees can be given.

For more information please write an e-mail to trivent@trivent.hu.

The conference begins with registration from 16:00 and check in at the hotel, continuing with grill-party from 19:00 on 28th May.

For further information:

Concerning the conference:

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Preliminary Program

The exact schedule of the lectures, breaks and the evening program will be published in the final program.

The speakers will be informed about the exact time of their presentations in e-mail, 3 weeks before the conference the latest.

- Power generation – what should be the next step?
Károly Gerse
- Supporting of the CHP generation and the renewable resource utilization on the liberalized system
Alajos Stróbl
- About the energy policy
Pál Zarándy
- Possibilities in repowering of the hydrocarbon fuelled units by using alternative fuelled gas turbine
Botond Czinkóczy, Iván Gács, Péter Bihari
- Possibilities in transformation of structure of Hungarian primer energy sources
Iván Gács, Péter Bihari
- The Heller program: renewable energy utilization by heat pumps
Ferenc Komlós
- The Hungarian mineral resources and its role in the energy utilization
János Horn
- Increase of cooling capacity by hybrid condensation
László Hazlach
- Increase of the rate of primary energy saving by complementing the gas engine based CHP units with cool energy productions
Gábor Bercsi
- Cost and likelihood measure determination of the surplus/shortage of power system level
András István Fazekas
- Studying the energy utilization of an industrial pound
Bence Somogyi
- Use of micro-cogeneration systems for the decentralized production of electricity and heat
Armando Oliveira

- Natural gas replacement by direct using of renewable energy sources and by cogeneration
Gergely Büki
- The statistical model of the estimation of the daily average wind power potential
Károly Tar
- Comparison of benefits of distributed generation technologies using multi-criteria analysis
István Krómer, Zoltán Bessenyei
- Multistage power generation from geothermal energy
Lajos Tímár
- Environmental impacts of renewable energy
Károly Reményi
- Biomass: its present and future role in climate change mitigation
Tamás Jászai
- Utilization of bio fuels in internal combustion engines
Ákos Bereczky
- Utilization of pure vegetable oil in Diesel engines
Róbert Kecskés, Benjámín Losonczy, Péter Hermanutz, Ákos Bereczky
- Cofiring of different syngases with natural gas
Krisztina Valler, Ágnes Woperáné Serédi, Árpád Bence Palotás
- Utilization of wood and grass type biomass, waste and by-products as the power plant fuels
Tamásné Szemmelveisz, István Szűcs, Árpád Bence Palotás, László Winkler, Krisztina Valler
- Excess air control by using ion-current
László Winkler, Árpád Bence Palotás
- Evaporation of vegetable oils and oleic acids
Tamás Laza, Rainer Stauch, Antal Penninger
- Actual research results of TUKI in industrial burner development
Mónika Sevcsik, László Nemes, György Bodnár
- The radiation heat transfer in combustion technique
André Charette
- Comparative analysis of the pyrolysis gases by spectrometry
Viktória Kovács
- Effect of the valve timing on exhaust emission
István Lakatos

- Results of the first field tests of the HOVAL woods logs boiler/Stirling engine combination
Bodo Groß, Ulrich Bemann, Daniel Hegele
- Temperature dependent thermal properties determination by the genetic algorithms
Balázs Czél, Gyula Gróf
- Experimental analysis of transient thermal behaviour in hydrogen cryo-adsorption storage systems
Petar Aleksic
- Heat transfer between the water surface and the superheated steam
Tamás Környey, Gyula Gróf
- We reduced a panel house's heat consumption to one fourth
Zoltán Czinege
- Integration of fuel cells into the heating system
Albin Zsebik
- Numerical simulation of thermal behavior of an artificial geothermal system
Anita Jobbik
- The renewable energy sources and their impacts on the gas engines operation
Viktória Kovács, Attila Meggyes, Ákos Bereczky