

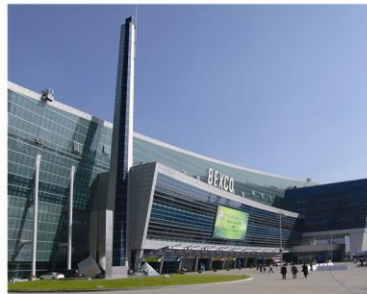
Due Date for Abstracts
June 30, 2012

ISABE 2013

21st ISABE Conference

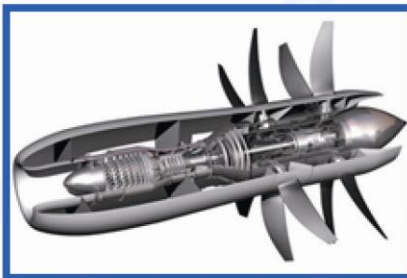
September 9-13, 2013 Busan, Korea

Challenges in Technology Innovation : Global Collaboration



B u s a n B E X C O

The First Announcement and Call for Papers



Hosted by Korean National Organizing Committee

THE KOREAN SOCIETY OF
PROPULSION ENGINEERS

KOREAN FLUID MACHINERY
ASSOCIATION

Please consult the website for more information
www.isabe2013.com



XXI ISABE

You are invited to participate in the Conference with a personal contribution in any part of the Conference Plan.

■ Contribute a Paper for

- any Contributed Technical Paper Session
- any proposed Pre-Arranged Session

■ Organize a Pre-Arranged Session

What is planned in Busan

■ Invited Lectures:

Lectures by distinguished leaders in airbreathing engines.

■ Contributed Technical Paper Sessions:

Papers on various topics associated with airbreathing engines for flight vehicles and aero-derivative engines for power generation.

■ Pre-Arranged Sessions:

Sessions of contributed technical papers on specific topics of current interest organized by the experts from the various nations.

■ Special Forum

■ ISABE - International Council of Aeronautical Sciences (ICAS) Joint Session

■ Social Events for Informal Discussions, Networking and Relaxation:

- Sunday: Reception at Bexco
- Monday: Busan City Reception
- Wednesday: Industry Sponsoring Dinner
- Thursday: ISABE Banquet

■ Accompanying Persons Program:

Guided tours offering a unique look in the beautiful surroundings of Busan

■ Technical Visits:

Wednesday afternoon: Tour to R&D Facilities of Samsung Techwin and Korean Air Lines

■ Technical Exhibits:

The Sponsoring Organizations will have displays in the Exhibit Hall of BEXCO.

■ For more information, please first consult the website at www.isabe2013.com. If questions remain, then consult

- Your National Representative (see page 8), or
- Prof. Frans A.E. Breugelmans at
Fax: 32-(0)2-359-9600,
E-mail: fb.isabe@skynet.be



Proposals for Participation

- Contributed Technical Paper Sessions
- Pre-Arranged Sessions
- Special Forum

Contributed Technical Paper Sessions

- **To offer a paper**
Please submit your abstract as described on page 4.
- **To offer to chair a session**
Please contact your national delegate with a copy to Prof. Frans A.E. Breugelmans at fb.isabe@skynet.be with the subject areas of your expertise.

Pre-Arranged Sessions

- **To offer to organize a Pre-Arranged Session**
Select a co-organizer from a nation other than your own and together select a topic area. For further information on how to proceed, please contact the Executive Secretary, Prof. Awatef Hamed, at a.hamed@uc.edu
- **To offer a paper in a Pre-Arranged Session**
Contact one or both organizers to advise them of your intent, and submit an abstract as described on page 4.

Special Forum

- **Please contact**
Korean National Organizing Committee
Chair: Dae Sung Lee
Korea Aerospace Research Institute
isabe2013.knoc@gmail.com



Important Dates

Abstracts due	June 30, 2012
Acceptance	November 30, 2012
All manuscripts (including honor and invited lectures) must be received by	April 30, 2013
Tentative programs and registration materials.....	April 30, 2013
Last date for pre-registration	June 30, 2013

Pre-registration is required for all presenters.

Preparation of Abstracts

- Abstracts must be submitted for all papers following the instructions for Preparation of Abstracts, prior to June 30, 2012.
- All abstracts will be reviewed and scored by the Executive Committee, which includes all National Representatives and Society Officers, for final decision on the acceptance.
- The total number of papers that can be accepted has been limited by the Executive Committee.
- Prospective authors should submit electronically through the website http://www.isabe.org/papers_publications.html
- Please note that the author needs to create his/her own log-in account at the website in order to submit the abstract. Abstract can be uploaded only in either MS Word format or Adobe Portable Document File format (PDF). All figures and tables must be included in electronic submissions. You will be able to verify the status of the abstract at the website.
- A typical abstract should be a self-contained description of the paper, between 500 and 600 words, with figures and tables as necessary. A condensed statement of research in a single short paragraph without any supporting data or results is likely to be rejected as incomplete.

An automatic acknowledgement of submission will be distributed to the author, national representatives and organizing team.

Status of abstract evaluation process can be checked at the website by authors and national representatives.

An abstract can be resubmitted in case of recommendations from the experts/national representative.



Subject Areas Included in the Conference

Subject Areas

The following is a list of major subject areas of interest: all aspects of airbreathing engines for flight propulsion in all regimes of speed and aero-derivative engines for power production are included, as well as components that are ancillary to engines. The greatest emphasis is on creation and utilization of the best technology for sustainable progress.

- **Systems:** new developments in gas turbine engines, ramjet, scramjet engines, combined cycle engines, pulsed and other detonation engines, various assisted engines, micro engines, multipurpose engines, integrated systems and integration technologies.
- **Cost and Business:** economics of engine development, testing, production, certification, usage and maintenance, civil and military engine business, acquisition, ownership and marketing, life cycle and other costs.
- **Environment:** chemical and noise pollution.
- **Safety:** engine safety and engine-caused safety problems, material and structural failure.
- **Aeromechanics, Flutter, Vibration, and High Cycle Fatigue**
- **Engineering Sciences:** problems of fluid and gas dynamics, sprays, combustion, heat transfer, conventional and advanced materials.
- **Diagnostics, Instrumentation and Sensors**
- **Thermal Management:** cooling technology, heat exchangers and energy bypass schemes, compressor and turbine cooling.
- **Aero-Derivative**
- **Intelligent Engine Control and Health Monitoring**
- **Materials and Structures:** smart materials and structures, titanium technology, composites, thermoelasticity, structures.
- **Compressors, Turbines:** axial and centrifugal compressors, axial and other turbines, aerodynamics.
- **Fuels, Injection, and Ignition:** fuels for gas turbines, combined cycles, micro-engines, endothermic fuels for cooling, injection technologies, ignition technologies.
- **Integrated Testing, Prediction, and Evaluation**
- **Manufacturing Processes**
- **Engine Operability**
- **Maintenance and Organization**
- **Synthesis Methods:** from concept to usable product; rational methods of synthesis, virtual development and testing.
- **Hypersonic Vehicle Propulsion:** space launch vehicles, cruise vehicles, military systems.
- **STOVL Vehicle Propulsion:** thrust vector Design options, controls, ground effects.
- **Unmanned Air Vehicle Propulsion:** various propulsion systems for UAV
- **Helicopter Propulsion:** small engines, propellers, special air intakes, noise control.
- **Micro- and Small Engines:** components and systems.
- **Education and training:** re-engineering of the Gas turbine curriculum, education partnerships, best practices, etc.
- **Skills challenges:** demographics, apprenticeships, global skills, systems engineers, etc.



Registration

Accommodations, registration details and tentative programs will be mailed in April 2013. Please note that the presentation of a paper at the conference requires pre-registration.

Online registration will be possible from April 2013. For further information, please visit the website at www.isabe2013.com.

Conference Venue and General Information

■ Conference Venue

The XXI ISABE Conference will be held at Busan Exhibition Convention Center (BEXCO).

<http://www.bexco.co.kr>

The Hotel Paradise, the main hotel, is within 5-10 minutes by car from the main venue of BEXCO.

www.paradisehotel.co.kr

The airport express bus stops at BEXCO and major hotels.

Free shuttles will be running between BEXCO and major hotels including Paradise Hotel during the conference.

■ General Information

The city - Busan:

<http://www.busan.go.kr>

Haeundae-gu

<http://www.haeundae.go.kr>

The Airport

Gimhae international airport is about 50 minutes away by bus, metro or taxi.

Gimhae:

<http://www.airport.co.kr/doc/gimhae>

Busan - a great meeting destination

■ Walking distance

Limited needs for transfers between the convention center and most hotels. However, efficient and reliable local public transportation system is operated by bus and subway.

■ Comfortable

Busan's stunning natural environment is a harmonious blend of mountains, rivers and the sea. Its geography includes a coastline that has both superb beaches and scenic cliffs in abundance with mountains which provide excellent hiking and extraordinary views. All the facilities that you need such as accommodations, restaurants, shopping and tour spots (beach, gallery, etc.) are within 5 minutes from Convention Center.

■ Excursions and Cultural Visits

Visit the Beomeosa(Temple); Nestled on the slopes of Mt. Geumjeongsan, Beomeosa Temple has a long history of 1,300 years. The Temple contains numerous cultural properties and relics such as the Three-story Pagoda and the Main Hall of Daeungjeon.

Visit the Taejongdae; Taejongdae's cliffs have fantastically shaped rocks. Taking the Danubi Train at the entrance to Taejongdae Park, visitors can enjoy beautiful views of the forested slopes and blue sea from the comfortable trains as well as from the Observation Platform.

Visit the Jagalchi Seafood Market; This growing large-scale seafood distribution center is Busan's number one market where a variety of fresh and dried seafood can be purchased and tasted at reasonable prices.

Visit the Haeundae beach; It is the famous beach where many vacationers pay a visit every summer. The beach has convenient accommodations and facilities as well as a breathtaking vista and beautiful ocean view.



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Netherlands

Delft University of Technology

Norway

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 Warsaw University of Technology
 WSK PZL-Rzeszów S.A.

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ISABE Board of Directors and National Representatives

Australia

Prof. Andrew Neely
 School of Engineering & Information
 Technology
 UNSW Canberra
 Australian Defense Force Academy
 Canberra ACT 2600
a.neely@adfa.edu.au

Austria

Prof. Dr. Franz Heitmeir
 Institute for Thermal Turbomachinery
 and Machine Dynamics
 Graz University of Technology
 Inffeldgasse 25 A
 A-8010 GRAZ
Franz.Heitmeir@tugraz.at

Belgium

Prof. Dr. Patrick Hendrick
 Service of Fluid Mechanics &
 Aerospace Propulsion
 ULB
 CP 165/41
 Avenue F.D. Roosevelt, 50
 1050 Brussels
Patrick.Hendrick@ulb.ac.be

Canada

Prof. Dr. Hany Moustapha
 Director, Aerospace Programs
 Ecole Technologie Supérieure
 Senior Research Fellow
 Pratt & Whitney Canada
 323 Peel Street
 Montreal
Hany.Moustapha@etsmtl.ca

People's Republic of China

Prof. Dr. Jianzhong XU
 Chinese Academy of Sciences
 Institute of Engineering
 Thermophysics
 12 Zhongguancun Road
 P.O.Box 2706
 Beijing 100080
xjz@mail.etp.ac.cn

Czech Republic

Egypt

Prof. Dr. Essam E. Khalil
 Mechanical Engineering Department
 Cairo University
 Cairo
Khalilel1@asme.org

Finland

Mr. Jari Valkama
 Manager, Airworthiness
 Finnair Technical Services
 EV/30, FI-01053 FINNAIR
jari.valkama@finnair.fi

France

Dr. Ir. Francois Garnier
 Manager Aircraft Propulsion
 ONERA Châtillon
 BP 72 - 29 Avenue de la Division
 Leclerc
 F-92322 Châtillon Cedex
Francois.Garnier@onera.fr

Germany

Prof. Dr. Heinz-Peter Schiffer
 Fachgebiet Gasturbinen &
 Flugantriebe
 Technische Universität Darmstadt
 Petersenstrasse 30
 D-64287 Darmstadt
schiffer@qlr.tu-darmstadt.de

Greece

Prof. Dr. Kyriacos D. Papailiou
 Lab. of Thermal Turbomachines
 National Technical University of
 Athens
 P.O. Box 64069
 15710 Athens
kpapail@lt.ntua.gr

India

Prof. Dr. Job Kurian
 Dept. of Aerospace Engineering
 Indian Institute of Technology,
 Madras
 Chennai 600 036
kurian@ae.iitm.ac.in

Israel

Prof. Alon Gany
 Faculty of Aerospace Engineering
 Technion - Israel Institute of
 Technology
 32000 Haifa
gany@tx.technion.ac.il

Italy

Prof. Francesco Martelli
 Department of Energetics
 "S. Stecco"
 University of Florence
 Via di Santa Marta 3
 I-50139 Firenze
francesco.martelli@unifi.it

Japan

Prof. Emeritus Toshio Nagashima
 University of Tokyo
 7-3-1 Hongo, Bunkyo-ku
 Tokyo 113-8656
tnaga@mail.ecc.u-tokyo.ac.jp

Korea

Dr. Dae Sung Lee
 Executive Director of Aeronautical
 Innovative Technology Laboratory
 Korea Aerospace Research Institute
 Yusong P.O. Box 113
 Taejon 305-600
dslee@kari.re.kr

Netherlands

Prof. J.P. van Buijtenen
 Delft University of Technology
 Faculty of Aerospace Engineering
 Kluyverweg 1
 2629 HS Delft
J.P.vanBuijtenen@tudelft.nl

Poland

Mr. Robert Haligowski
 EU R&T Director
 WSK "PZL RZESZOW" S.A.
 Ul. Hetmanska 120
 35-078 Rzeszow
Haligowski.Robert@wskrz.com

Portugal

Russia

Dr. Mikhail Ivanov
 Deputy General Director
 Central Institute of Aviation Motors
 2 Aviamotornaya St.
 111116 Moscow
ivanov@ciam.ru

Slovak Republic

Prof. Dr. Vojtech Molnar
 Slovak Technicka. Univ. Bratislava
 Dept. of Thermal Power Eng.
 Strojnicka Fakulta - KTE
 Namestie Slobody 17
 SK-81231 Bratislava
Vojtech.molnar@stuba.sk

South Africa

Mr. Glen Snedden
 Business Area Manager
 Gas Turbine Technology
 Defencetek - CSIR
 P.O. Box 395
 Pretoria 0001
gsnedden@csir.co.za

Spain

Sweden

Mr. Anders Sjunnesson
 Volvo Aero Corporation
 9005AS, Advanced Engineering
 SE 461-81 Trollhättan
anders.sjunnesson@volvo.com

Switzerland

Prof. Dr. Reza Abhari
 Institut für Energietechnik
 ETH Zürich (ML)
 CH-8092 Zürich
rabhari@ethz.ch

Turkey

Prof. Dr. Ibrahim S. Akmandor
 Department of Aerospace Engineering
 Middle East Technical University
 Universiteler Mahallesi,
 Dumlupinar Bulvari No. 1
 Cankaya, Ankara 06800
akmandor@metu.edu.tr

Ukraine

Prof. V. I. Timoshenko
 Deputy Director
 Aerogasdynamics Department
 National Academy of Sciences
 15 Leshko - Popel St.
 49005 Dnepropetrovsk
timoshenko@itm3.dp.ua

United Kingdom

Prof. Riti Singh
 Gas Turbine Engineering
 School of Engineering
 Cranfield University
 Cranfield, Bedfordshire MK43 0AL
r.singh@cranfield.ac.uk

United States

Dr. Woodrow Whitlow Jr.
 Associate Administrator
 Mission Support Directorate
 NASA Headquarters
 Mail Suite 4J11
 300 E Street SW
 Washington, DC 20546-0001
woodrow.whitlow-1@nasa.gov