



1st INTERNATIONAL CONFERENCE
ENERGY & ENVIRONMENT in SHIPS (EEinS 2015)
MAY 22 - 24, 2015

Theme

A series of International Conferences on *Energy, Environment & Climatic Change in Ships* is to be materialised .

The “1st *Energy & Environment in Ships*” seeks to bring under one umbrella the various professionals involved in the shipping industry, both onshore and at sea, providing with the current state of the art and insight in future technologies and challenges related to HVAC, indoor environment quality, energy safety and security.

The Conference will provide a comprehensive overview of the areas relevant to both military and commercial ships. It will be structured along keynote addresses from invited speakers, oral presentations and poster sessions.

Presentations will address current practices, new approaches, methodologies, technologies and areas of improvement.

Audience

The Conference is addressed to professionals in the shipping industry, both military and commercial, operators of ships, managers of land facilities, technical personnel and other experts.

Topics

The two main Sections of the Conference will be as follows:

Section A. Technical papers, original research and scientific articles.

Section B. Applications, experiences, good practices, description and outlines, educational activities, issues for dialog and discussion.

All accepted papers (Section A & B) will be published in an electronic media publication (e-proceedings book with an ISBN number). Oral presentations will be recorded and uploaded for free viewing on the website, following the event.

The technical topics will cover the following areas. Topics that will not be covered in the 1st Conference will remain an open agenda for the subsequent conferences and workshops.

1. Environmental Management

- 1.1. Working and living spaces. Buildings & ships
 - 1.1.1. IAQ
 - 1.1.1.1. Chemical risk management
 - 1.1.1.2. Health & safety
 - 1.1.2. Heating
 - 1.1.3. Air Conditioning
 - 1.1.4. Ventilation

- 1.1.5. Smoke management
- 1.1.6. Filtration of potable water
- 1.1.7. Lighting
- 1.1.8. Insulation (Thermal, Sound, Electronic)
- 1.1.9. Vibration
- 1.1.10. Human comfort
- 1.2. Cargo spaces
 - 1.2.1. Heating
 - 1.2.2. Air Conditioning
 - 1.2.3. Refrigeration
 - 1.2.4. Ventilation
 - 1.2.5. Lighting
 - 1.2.6. Insulation (Thermal, Sound) Environment for electronic component space
 - 1.2.7. Vibration
- 1.3. Harbour
 - 1.3.1. Port reception facilities
 - 1.3.2. Pollution
 - 1.3.3. Noise pollution
- 1.4. Fuel Storage Tanks
- 1.5. Management of Hazardous materials
- 1.6. Waste management & disposal
 - 1.6.1. In ships
 - 1.6.2. At the harbour
- 1.7. Social & Financial Impacts
- 2. Environmental Impact Assessment**
 - 2.1. Environmental Footprint
 - 2.1.1. CO2 footprint
 - 2.1.2. Ecological footprint
 - 2.1.3. Initial Startup, port entry & exit
 - 2.1.4. Pneumatic systems
 - 2.1.5. Hydraulic systems
 - 2.2. Renewable energy sources
 - 2.2.1. Solar thermal and PV
 - 2.2.2. Wind turbines
 - 2.2.3. Wave energy transformers
 - 2.3. Slow steaming
 - 2.4. Net Zero Energy use
 - 2.5. Net Zero Water use
- 3. Energy security and Power Safety**
- 4. Sustainability/recycling (short & long term)**
 - 4.1. Working fluids
 - 4.2. Low temperature heat utilisation
 - 4.3. Advanced paints
 - 4.4. Alternative fuels
- 5. Commissioning, retro-commissioning, operations & maintenance**
- 6. Health & Safety**
- 7. Standards & Legislation**
- 8. Knowledge Gathering, Diffusion, Training & Education**
 - 8.1. Knowledge pool, Database
 - 8.2. Networks
 - 8.3. Teleconference
 - 8.4. Telemedicine
 - 8.5. Telemetry
 - 8.6. Teletraining

Organisation

The Conference will be organised by: ASHRAE, The HELLENIC NAVY, the TECHNICAL CHAMBER OF GREECE (TEE) and the ASHRAE HELLENIC CHAPTER.

Conference location

The Conference venue will take place in ATHENS, HELLAS.

Conference date

The three day event will be held in May 22 to 24, 2015.

Chapter involvement

The Hellenic Chapter has developed strong links to both the Hellenic Navy and the shipping community in Hellas and will be heavily involved in the organisation and running of the conference. The Hellenic Chapter has already completed two international conferences on Energy in Buildings (EinB) during the past couple of years and is currently organising the third consecutive event on November 15, 2014.

Conflicting conferences

There are not any conflicting technical conferences known currently.

Industry conferences or other initiatives

The shipping industry related expo is the International Shipping Exhibition "POSIDONIA", held biannually and is taking place this year on June 2-6, 2014 in Athens, Hellas. (for more info <http://www.posidonia-events.com>).

Budget

To secure the financial viability and success of the conference, it has to rely on solid sponsorships. Similar efforts have successfully been undertaken and secured for EinB2012 & EinB2013, and for all chapter events organised by the Hellenic Chapter over the past 15 years. Low registration fees for participants are also foreseen.

Experts

Experts from the commercial shipping industry and the Hellenic Navy as well as from other related fields are invited to present papers or posters. Furthermore keynote speakers will augment the conference.

Steering & Scientific committee

A strong steering committee is proposed to be formed consisting of representatives from the collaborating organisations, namely: two from ASHRAE, two from the TEE, two from the Hellenic Navy, two from the Hellenic Chapter and one committee chair. The scientific committee will be organised by invited experts in the field, covering the main conference topics.

IMPORTANT DATES:

- October 13rd, 2014: Abstract Submission Deadline (*Authors*)
- November 3rd, 2014: Abstract Evaluation Deadline (*Authors*)
- January 26th, 2015: Final Paper Submission Deadline (*Authors*)
- March 23rd, 2015: Letter of Acceptance (*Authors*)
- April 6th, 2015: Registration deadline for Authors / *Early Bird deadline (attendees)*
- May 20th, 2015: *Advance registration deadline (attendees)*
- May 22nd - 24th, 2015: International Conference