



International Conference Energy and Environment in Ships

May 22 – 24, 2015

Athens, Greece

www.ashrae.org/ships2015

Organized by ASHRAE, the Hellenic Navy, the Technical Chamber of Greece (TEE) and the ASHRAE Hellenic Chapter, the International Conference on Energy and Environment in Ships, will take place on May 22-24, 2015, in Athens, Greece.



The Conference seeks to bring together the various professionals involved in the shipping industry, both onshore and at sea, and to present the current state of the art and insight in future technologies and challenges related to HVAC, indoor environmental quality, energy safety and security.

The Conference will provide a comprehensive overview of the areas relevant to military and commercial ships. The conference format includes keynote addresses from invited speakers, oral presentations, poster sessions and a call for papers.

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

Call for Papers

The Call for Papers is now open. Conference **papers that apply to ships as well as to onshore facilities are requested**. Following are the topics, with the complete list of topics at the bottom of the invitation:

Visit www.ashrae.org/ships2015 to submit an abstract. Deadlines are as follows:

- **November 3, 2014:** Abstract Submission Deadline
- November 17, 2014: Abstract Evaluation Deadline
- January 26, 2015: Final Paper Submission Deadline
- March 23, 2015: Letter of Acceptance

Registration

Registration information will be posted on the conference website once registration has opened.

Authors of accepted papers will receive a special discount on registration.

Technical Program

See back of flyer for the complete list of topics. The main technical topics* will cover the following areas:

- Working and Living Spaces in Buildings and Ships
- Environmental Impact Assessment
- Energy Security and Power Safety
- Sustainability and Recycling
- Commissioning, Retro-commissioning, Operations and Maintenance
- Health and Safety
- Standards and Legislation
- Knowledge Gathering, Diffusion, Training and Education

*The technical topics are subject to change and will be updated accordingly.



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1. Environmental Management

- 1.1. Working and living spaces. Buildings and ships
 - 1.1.1. IAQ
 - 1.1.1.1. Chemical risk management
 - 1.1.1.2. Health and 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 and disposal
 - 1.6.1. In ships
 - 1.6.2. At the harbour
- 1.7. Social and 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 and 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 and long term)

- 4.1. Working fluids
- 4.2. Low temperature heat utilization
- 4.3. Advanced paints
- 4.4. Alternative fuels

5. Commissioning, Retro-commissioning, Operations and Maintenance

6. Health and Safety

7. Standards and Legislation

8. Knowledge Gathering, Diffusion, Training and Education

- 8.1. Knowledge pool, Database
- 8.2. Networks
- 8.3. Teleconference
- 8.4. Telemedicine
- 8.5. Telemetry
- 8.6. Teletraining