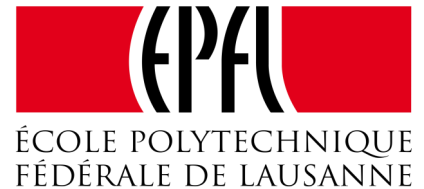


MOSES Workshop

Modelling and Optimization of Ship Energy Systems
October 23 - 25, 2017. EPFL Sion, Switzerland



MEET EXPERTS IN THE FIELD

The workshop focuses on the potential and challenges of the use of mathematical modeling and optimization techniques for improving energy efficiency in shipping. Designing and operating ships more efficiently will allow reducing their cost, environmental impact and use of non-renewable resources.

The program of the workshop is a combination of scientific presentations and chances to discuss and develop the network within this field.

CHOOSE YOUR PRESENTATION

Two types of presentations will be accepted:

- **Full presentation:** 10-15 minutes
Classic conference-style presentation
- **Short presentation:**
For introducing your research to your peers

REGISTRATION

- **Register** online (deadline for registration: **12th of October 2017**) at:
http://registration.epfl.ch/?form=MOSES_2017
- **Submit an abstract** of your presentation online at:
<https://easychair.org/conferences/?conf=moses2017>

The registration fee for the workshops includes lunch and coffee for the three days plus a gala dinner.

- 150 CHF for regular participants.
- 50 CHF for PhD students

INVITED SPEAKERS

- **Gerasimos Theotokatos**
Strathclyde University
- **Selma Brynolf**
Chalmers University of technology
- **Jing Sun**
University of Michigan
- **George Dimopoulos**
DNV-GL
- **Andrea Coraddu**
Strathclyde University
- **Christos Frangopoulos**
National Technical University of Athens
- **Kari Tammi**
Aalto University
- **Edward Sciberras**
Damen Shipyards

WORKSHOP PROGRAM

Updated information on the program and speakers is [available HERE >>](#)

Day 1 – 23.10.2017

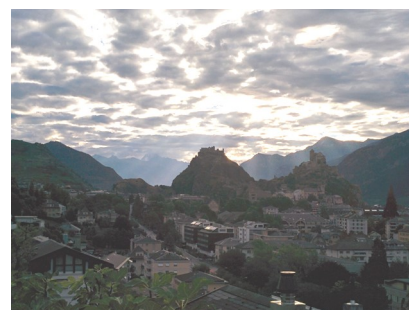
09:00 – 10:00	Registration
10:00 – 10:30	Workshop opening
10:30 – 11:15	Invited speaker Christos Frangopoulos , NTUA Static and Dynamic Optimization of Synthesis, Design and Operation of Total Energy Systems of Ships
11:15 – 11:45	<i>Coffee break</i>
11:45 – 12:30	Invited speaker Kari Tammi , Aalto University Ship energy efficiency in simulations and system analysis
12:30 – 14:00	Lunch break
14:00 – 15:30	Presentations
15:30 – 16:30	Coffee break
16:30 – 17:15	Invited speaker George Dimopoulos , DNV-GL Complex ship energy systems modelling, simulation and optimization: applications experience in various ship types
17:15 – 18:00	Presentations

Day 2 – 24.10.2017

09:00 – 09:45	Invited speaker Jing Sun , University of Michigan Integrated Power Systems for Electrified Ships: Control and Optimization
09:45 – 10:30	Invited speaker Edward Sciberras , Damen Shipyards Modelling for energy management
10:30 – 11:00	<i>Coffee break</i>
11:00 – 12:30	Presentations
12:30 – 13:00	Visit to the GEM Fuel Cell laboratory at EPFL with Jan van Herle
13:00 – 14:30	<i>Lunch break</i>
14:30 – 15:15	Introduction to IPESE: a general perspective and work in shipping
15:15 – 16:30	<i>Coffee break</i>
16:30 – 17:15	Presentations
17:15 – 18:00	Invited speaker Gerasimos Theotokatos , University of Strathclyde Towards the development of a systematic method for ship propulsion system energy management
19:00 – 22:30	<i>Workshop Dinner</i>

Day 3 – 25.10.2017

09:00 – 09:45	Invited speaker Selma Brynolf , Chalmers University Cost-effective choices of marine fuels in a carbon-constrained world: insights from the Global Energy Transition (GET) model
09:45 – 10:30	Invited speaker Andrea Coraddu , University of Strathclyde Ship energy systems modelling: a gray-box approach
10:30 – 11:00	<i>Coffee break</i>
11:00 – 12:30	Presentations
12:30 – 13:00	Closure of the workshop
13:00 – 14:00	<i>Lunch break</i>



SION IN THE HEART OF THE ALPS

Sion is located in the South of Switzerland, in the Rhône valley, hidden between the Swiss-Italian Alps and the Bernese Oberland. Its location earns Sion a favorable climate, warm, sunny and dry for most of the year. This makes the Rhône valley particularly favorable for vineyards, and wines from Valais are renowned all around Europe.

With its town center and its three castles, Sion conserves a charming medieval feeling.

HOT TO GET HERE:

- **By plane, via Geneva.**
Trains from Geneva airport leave hourly to Sion station (2h train)
- **By plane, via Zurich.**
A train ride from Zurich to Sion takes roughly 2h30, with change in Visp and Bern.
- **By train**
Sion is well connected to many European cities in