

ETN'S 15TH ANNUAL GENERAL MEETING & WORKSHOP

AGENDA

27-28 March 2018
Pau, France

WEDNESDAY 27 MARCH 2019: Annual General Meeting

Morning	ETN Board and Project Board meetings
9:00–11:00	Site visit: Total's Remote Assistance, Intervention and Diagnostics (RAID) room (optional)
11:00–13:15	Registration at Total's conference centre
12:00–13:00	Welcome lunch
13:15–15:00	<ul style="list-style-type: none"> - Opening and President's speech, Bernard Quoix, ETN President/TOTAL - Approval of the previous AGM minutes - Annual report of the activities and achievements, Christer Björkqvist, Managing Director, ETN <ul style="list-style-type: none"> • Energy & climate policy, regulations, market trends • CEN SFGas Working Group on Gas Quality • ETN projects and Working Groups • Upcoming meetings and supported external events - Strategy and way forward, Gary Lock, ETN Board member/Frazer-Nash Consultancy - Financial report, Andy Williams, ETN Treasurer/Chromalloy - Adoption of accounts - IGTC-20 Conference Advisory Board
15:00–15:30	Coffee break
15:30–17:30	<ul style="list-style-type: none"> - Report from the ETN Project Board, Peter Jansohn, Chair of ETN Project Board/PSI <ul style="list-style-type: none"> • R&D Recommendation Report and future opportunities - Safety moment: hexavalent chromium, Cath Goy, ETN Vice President/Uniper - The role of hydrogen in the energy transition – panel discussion Chaired by Cath Goy, Team Leader GT combustion, Uniper <ul style="list-style-type: none"> • Equinor – CCS and hydrogen <i>Geir Johan Rørtveit, Equinor</i> • Hydrogen Fired Gas Turbine for the Realization of a Low Carbon Society <i>Satoshi Tanimura, General Manager Gas Turbine Technology & Products, MHPS</i> • Electrolysis systems for green fuel <i>Thomas Thiemann, Lead Energy Transition Technologies, Siemens</i> • Hydrogen deployment in the power generation energy mix <i>Geert Laagland, Head of Engineering, Vattenfall</i> - Closing remarks, Christer Björkqvist, Managing Director, ETN
17:30	Bus service will be organised between the venue and hotels
19:00–23.00	Dinner at Le Jeu de Paume, Hotel Parc Beaumont

THURSDAY 28 MARCH 2019: Workshop

Bus service will be organised between the hotels and Total's conference centre

- **Additive manufacturing in the gas turbine supply chain – panel discussion**
 Chaired by John Oakey, Professor of Energy Technology, Cranfield University
 - **EOS technology driving the way towards serial production in turbomachinery**
Lukas Fuchs, Business Development Manager Turbomachinery, EOS
 - **Development and Industrialization of Additively Manufactured Gas Turbine Components**
Paolo Del Turco, Head of Advanced Technology & Validation Engineering, BHGE
 - (Title tbc)
Steve Nardone, Project Manager Metal Additive Manufacturing, ENGIE

Coffee Break

Parallel Breakout Sessions

Technical Committee 1

Next generation power cycles: supercritical CO₂ for energy intensive industry

Chaired by Marco Ruggiero, External Funding & Research Collaborations, BHGE

- Horizon 2020 call: Industrial (Waste) Heat-to-Power conversion
Ugo Simeoni, Research & Innovation Manager, ETN
- Demonstration of Supercritical CO₂ Cycles Technology for Waste Heat Recovery Applications
Giuseppe Messina, Project Process Engineer, ENEA
- Supercritical from heat to power: CARBOSOLA - the German R&D initiative on sCO₂ as an alternative working fluid for waste heat recovery
Michael Wechsung, Siemens
- Turbomachinery challenges for supercritical CO₂ applications
Emanuele Rizzo, Senior Engineer Rotating Machinery, BHGE

Technical Committee 2

Gas turbines operational and fuel flexibility

Chaired by Peter Kutne, Head of Department Gas Turbine, DLR

- PUMP HEAT - Performance Untapped Modulation for Power and Heat via Energy Accumulation Technologies
Alessandra Cuneo, Project Manager, RINA-C
- Horizon 2020 call: Integrated solutions for flexible operation of fossil fuel power plants through power-to-X-to-power and/or energy storage
Alessandra Cuneo, Project Manager, RINA-C
- Hydrogen Working Group

Technical Committee 3

Additive manufacturing

Chaired by John Oakey, Professor of Energy Technology, Cranfield University

- AM-Motion benefits and trends of AM in Europe
Paula Queipo, External Relations Director, Prodimtec
- ETN AM research roadmap
Ferenc Pankotai, Manager Combustion Engineering and AM, Solar Turbines
- 3D Printing a Pump Impeller – Specification, Testing and Acceptance Criteria
Jan de Roos, Senior Rotating Equipment Engineer, Shell
- ETN AM Equipment Database
Valentin Moens, Technical Project Officer, ETN

Technical Committee 4&5

Gas turbine component life assessment

Chaired by Chris Dagnall, General Manager, DNV-GL Energy

- Expectations of an operator on gas turbine components life assessment
Jean-Louis Meyer, GT Senior Engineer, EDF
- Accessing Remaining Life of Critical Gas Turbine Parts
Stefan Reh, Head of Test and Simulation for Gas Turbines Department, DLR
- Methodology to assess the remaining life of gas turbines components
Ambra Giovannelli, Dr. Fluid Machinery, University of Roma TRE
- Predictive tools for gas turbine maintenance decision support
Valentina Zaccaria, Assistant Professor in Energy Engineering, MDH
- Maintenance interval extension for gas turbines – methodology and cases
Sigrid Gijbels, Thermal Generation Lab Manager, ENGIE

- **Report from Technical Committee discussions**, Project Board
- **Closing remarks**, Bernard Quoix, ETN President/TOTAL

Sponsor



Accommodation

[Hotel Parc Beaumont](#)

1 Avenue Edouard VII, 64000 Pau, France

[Hotel Villa Navarre](#)

59 Avenue Trespoey, 64000 Pau, France

Venue

[Total's conference centre](#)

Avenue Larribau, 64018 Pau Cedex, France

AGM Dinner

[Le Jeu de Paume](#)

Hotel Parc Beaumont

1 Avenue Edouard VII, 64000 Pau, France

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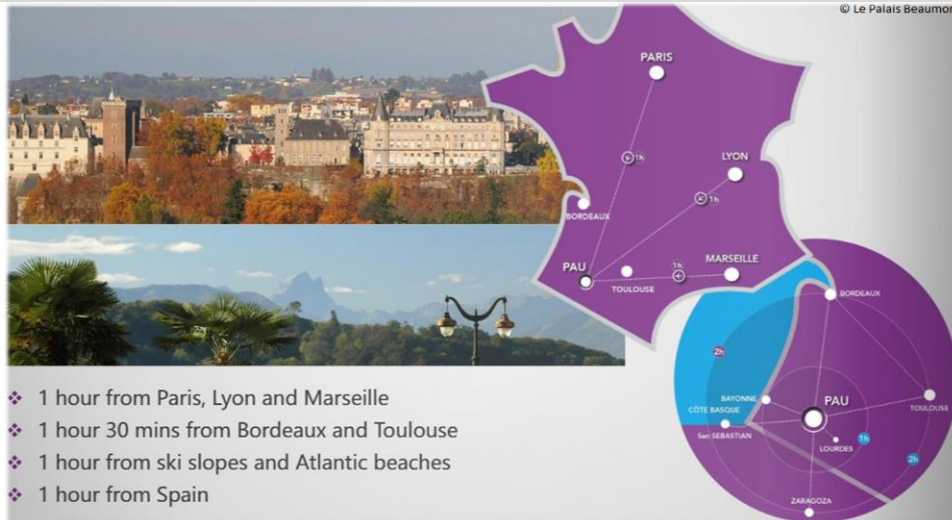
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Connections hotels – meeting venue

Bus service will be organised between the venue and hotels for the afternoon of 27 March and the morning of 28 March.

Directions



Pau Pyrénées Airport is located 13 km from Pau city centre and has daily flights from Paris (CDG and Orly), Lyon, Nantes and Marseille. Other airports nearby are Biarritz, Bordeaux and Toulouse. Pau can also be reached by train from several cities around France.

Pau city centre can be reached from the airport by taxi (average fare 30 euros) or shuttle bus, which operates between 7:00 and 19:00 (journey time about 30 minutes). Tickets can be purchased on the bus.

[Total's conference centre](#) (Cstjf) is located 5km away from Parc Beaumont hotel and 4km from Villa Navarre hotel. It can be reached from the airport by taxi.

