

# ETN's 15<sup>TH</sup> 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"> <li>- <b>Opening and President's speech</b>, Bernard Quoix, ETN President/TOTAL</li> <li>- <b>Approval of the previous AGM minutes</b></li> <li>- <b>Annual report of the activities and achievements</b>, Christer Björkqvist, Managing Director, ETN <ul style="list-style-type: none"> <li>• Energy &amp; climate policy, regulations, market trends</li> <li>• CEN SFGas Working Group on Gas Quality</li> <li>• ETN projects and Working Groups</li> <li>• Upcoming meetings and supported external events</li> </ul> </li> <li>- <b>Strategy and way forward</b>, Gary Lock, ETN Board member/Frazer-Nash Consultancy</li> <li>- <b>Financial report</b>, Andy Williams, ETN Treasurer/Chromalloy</li> <li>- <b>Adoption of accounts</b></li> <li>- <b>IGTC-20 Conference Advisory Board</b></li> </ul>
15:00–15:30	Coffee break
15:30–17:30	<ul style="list-style-type: none"> <li>- <b>Report from the ETN Project Board</b>, Peter Jansohn, Chair of ETN Project Board/PSI <ul style="list-style-type: none"> <li>• R&amp;D Recommendation Report and future opportunities</li> </ul> </li> <li>- <b>Safety moment: hexavalent chromium</b>, Cath Goy, ETN Vice President/Uniper</li> <li>- <b>The role of hydrogen in the energy transition – panel discussion</b> Chaired by Cath Goy, Team Leader GT combustion, Uniper <ul style="list-style-type: none"> <li>• Equinor – CCS and hydrogen <i>Geir Johan Rørtveit, Equinor</i></li> <li>• Hydrogen Fired Gas Turbine for the Realization of a Low Carbon Society <i>Satoshi Tanimura, General Manager Gas Turbine Technology &amp; Products, MHPS</i></li> <li>• Electrolysis systems for green fuel <i>Thomas Thiemann, Lead Energy Transition Technologies, Siemens</i></li> <li>• Hydrogen deployment in the power generation energy mix <i>Geert Laagland, Head of Engineering, Vattenfall</i></li> </ul> </li> <li>- <b>Closing remarks</b>, Christer Björkqvist, Managing Director, ETN</li> </ul>
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
08:30–10:30		<ul style="list-style-type: none"> <li>- <b>Additive manufacturing in the gas turbine supply chain – panel discussion</b>  Chaired by John Oakey, Professor of Energy Technology, Cranfield University <ul style="list-style-type: none"> <li>• Development and Industrialization of Additively Manufactured Gas Turbine Components  <i>Paolo Del Turco, Gas Turbines Engineering Technology Leader, BHGE</i></li> <li>• Ensuring and validating process stability for qualification of large industrial selective laser melting machines  <i>Steve Nardone, Project Manager Metal Additive Manufacturing, ENGIE</i></li> <li>• EOS technology driving the way towards serial production in turbomachinery  <i>Lukas Fuchs, Business Development Manager Turbomachinery, EOS</i></li> <li>• Höganäs: Tailored new powder alloys to advance existing applications  <i>Michael Hinz, Global Sales Manager Customization Technologies, Höganäs</i></li> </ul> </li> </ul>
10:30–11:00		Coffee Break
11:00–12:30	Parallel breakout sessions	<b>Technical Committee 1: Next generation power cycles: supercritical CO<sub>2</sub> for energy intensive industry</b> Chaired by Marco Ruggiero, External Funding & Research Collaborations, BHGE <ul style="list-style-type: none"> <li>– Horizon 2020 call: Industrial (Waste) Heat-to-Power conversion  <i>Ugo Simeoni, Research &amp; Innovation Manager, ETN</i></li> <li>– Demonstration of Supercritical CO<sub>2</sub> Cycles Technology for Waste Heat Recovery Applications  <i>Giuseppe Messina, Project Process Engineer, ENEA</i></li> <li>– Supercritical from heat to power: CARBOSOLA - the German R&amp;D initiative on sCO<sub>2</sub> as an alternative working fluid for waste heat recovery  <i>Michael Wechsung, Principal Expert, Siemens</i></li> <li>– Turbomachinery challenges for supercritical CO<sub>2</sub> applications  <i>Emanuele Rizzo, Senior Engineer Rotating Machinery, BHGE</i></li> </ul>
		<b>Technical Committee 2: Gas turbines operational and fuel flexibility</b> Chaired by Peter Kutne, Head of Department Gas Turbine, DLR <ul style="list-style-type: none"> <li>– PUMP HEAT - Performance Untapped Modulation for Power and Heat via Energy Accumulation Technologies  <i>Alessandra Cuneo, Project Manager, RINA-C</i></li> <li>– Horizon 2020 call: Integrated solutions for flexible operation of fossil fuel power plants through power-to-X-to-power and/or energy storage  <i>Alessandra Cuneo, Project Manager, RINA-C</i></li> <li>– Hydrogen Working Group</li> </ul>
12:30–13:45 Lunch		<b>Technical Committee 3: Additive manufacturing</b> Chaired by John Oakey, Professor of Energy Technology, Cranfield University <ul style="list-style-type: none"> <li>– AM-Motion benefits and trends of AM in Europe  <i>Paula Queipo, External Relations Director, Prodimtec</i></li> <li>– ETN AM research roadmap  <i>Ferenc Pankotai, Manager Combustion Engineering and AM, Solar Turbines</i></li> <li>– 3D Printing a Pump Impeller – Specification, Testing and Acceptance Criteria  <i>Jan de Roos, Senior Rotating Equipment Engineer, Shell</i></li> <li>– ETN AM Equipment Database  <i>Valentin Moens, Technical Project Officer, ETN</i></li> </ul>
13:45–15:00		<b>Technical Committee 4&amp;5: Gas turbine component life assessment</b> Chaired by Chris Dagnall, General Manager, DNV-GL Energy <ul style="list-style-type: none"> <li>– Expectations of an operator on gas turbine components life assessment  <i>Jean-Louis Meyer, GT Senior Engineer, EDF</i></li> <li>– Accessing Remaining Life of Critical Gas Turbine Parts  <i>Stefan Reh, Head of Test and Simulation for Gas Turbines Department, DLR</i></li> <li>– Methodology to assess the remaining life of gas turbines components  <i>Ambra Giovannelli, Dr. Fluid Machinery, University of Roma TRE</i></li> <li>– Predictive tools for gas turbine maintenance decision support  <i>Valentina Zaccaria, Assistant Professor in Energy Engineering, MDH</i></li> <li>– Maintenance interval extension for gas turbines – methodology and cases  <i>Sigrid Gijbels, Thermal Generation Lab Manager, ENGIE</i></li> </ul>
15:00–16:00		<ul style="list-style-type: none"> <li>- <b>Report from Technical Committee discussions</b>, Project Board</li> <li>- <b>Closing remarks</b>, Bernard Quoix, ETN President/TOTAL</li> </ul>

## 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

### Contacts

Christer Björkqvist  
Managing Director  
+32 (0)495 75 34 27

Noora Kilpinen  
Communications Officer  
+32 (0)497 256 520

Valentin Moëns  
Technical Project Officer  
+32 (0)479 735 444

Ugo Simeoni  
Research and Innovation  
Manager  
+32 (0)471 336 769

Ilona Kolb  
Financial and  
Administrative Officer  
+32 (0)483 414 860

## Taxi numbers

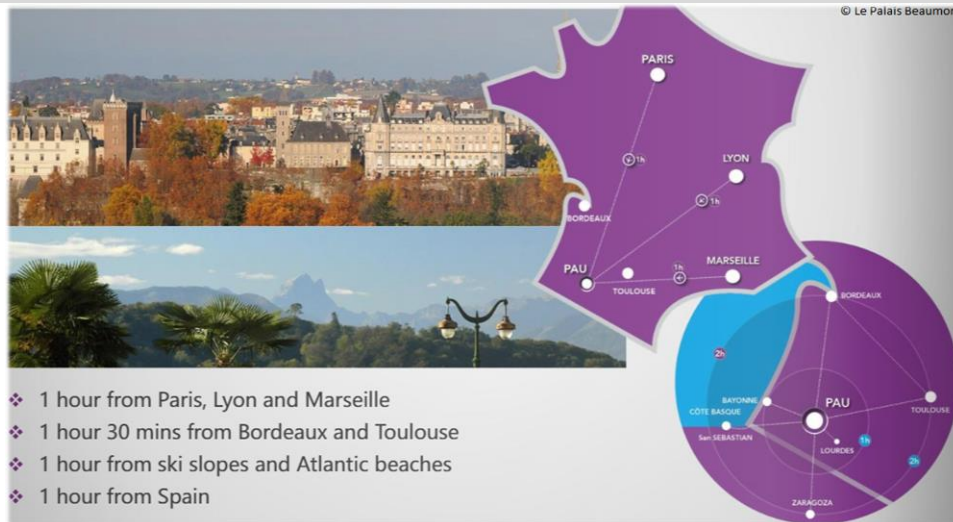
Allo Taxis Palois, Pau: +33 (0)5 59 02 22 22

Taxi Christophe Falque, Pau: +33 (0)6 01 63 78 85

## 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.

