



# ITER BUSINESS FORUM

## 28 to 30 March 2017

Palais des Papes / Avignon / France



### ITER BUSINESS FORUM 2017 (IBF/17)

#### TUESDAY 28 MARCH 2017 (OPTIONAL PROGRAMME)

	<b>Technical tour n°1</b> (*) Visit of the <b>ITER worksite</b>	<b>Technical tour n°2</b> (*) Visit of <b>CEA Marcoule site</b>	<b>Technical tour n°3&amp;4</b> (*) Visit of <b>Tricastin site</b> (EDF or AREVA)	<b>Sightseeing tour n°5</b> (*) <b>Guided tour of Pont d'Avignon and/or Palais des Papes</b> Visit of a vineyard "Châteauneuf du Pape"
09:00-18:00				
15:00-19:00	Registration	1-1 meetings		Stands installation (Exhibitors)
19:30-22:00	<b>WELCOME RECEPTION AT THE VENUE</b> (Grande Audience) Welcome Addresses by representatives of Local Authorities			

(\*) *Departure from Palais des Papes and back*

#### WEDNESDAY 29 MARCH 2017

08:00-08:30	Registration - Coffee
<b>PLENARY SESSION</b>	
08:30-08:50	Welcome addresses by : <ul style="list-style-type: none"> <li>▪ <b>Jacques VAYRON</b>, Director of <b>Agence ITER France</b></li> <li>▪ <b>Bernard BIGOT</b>, Director General of <b>ITER Organization</b></li> </ul>
08:50-09:10	Perspectives for the future EU strategy for the development of new energy resources, importance of fusion within the EU energy research and development portfolio, by <b>Gerassimos THOMAS</b> , Deputy Director-General, <b>European Commission</b>
09:10-09:40	General overview of the new reference baseline and staged approach of the ITER project, main milestones of the updated schedule for First Plasma, by <b>Gyung-Su LEE</b> , <b>ITER Organization</b> , Chief Operating Officer, Deputy Director General
09:40-10:00	The European contribution to ITER: status and opportunities, by <b>Johannes SCHWEMMER</b> , Director of <b>Fusion for Energy (F4E)</b>
10:00-10:20	General overview of the China Domestic Agency procurement activities, by <b>Luo DELONG</b> , Director General of <b>ITER China</b>
10:20-10:40	General overview of the Korean Domestic Agency procurement activities, by <b>Ki-Jung JUNG</b> , Director General of <b>ITER Korea</b> , National Fusion Research institute
10:40-11:00	General overview of the Japanese Domestic Agency procurement activities, by <b>Yoshinori KUSAMA</b> , Director of ITER Japan Domestic Agency ( <b>National Institute for Quantum and Radiological Science and Technology/QST</b> )
11:00-11:30	Coffee break
11:30-11:50	General overview of the Indian Domestic Agency procurement activities, by <b>Biswanath SARKAR</b> , Head of Cooling Systems Engineering Division, <b>ITER Organization</b> , on behalf of <b>Shishir DESHPANDE</b> , Director General of <b>ITER India</b> , Institute for Plasma Research
11:50-12:20	Main future Calls for Tenders to be launched by ITER Organization for 2017-2018, by <b>Françoise FLAMENT</b> , Head of Procurement and Contracts, <b>ITER Organization</b>
12:20-12:40	General overview of the Russian Domestic Agency procurement activities, by <b>Alexander PETROV</b> , Department of Administration, "Project Center ITER" ( <b>RF ITER Domestic Agency</b> )
12:40-13:00	General overview of the US Domestic Agency procurement activities, by <b>Ned SAUTHOFF</b> , Director of <b>US ITER Project Office</b>
13:00-14:30	<b>LUNCH</b> (Grande Audience)

## THEMATIC WORKSHOPS

### MACHINE ASSEMBLY AND INSTALLATION

Chairperson: **Kurt EBBINGHAUS**, Deutsches ITER Industrie Forum (DIIF), **ILO Germany**

14:30-17:30

#### Presentation of the new contracting strategy of ITER Organization

- Overview of ITER Procurement Strategy for Assembly and Installation, **Joo-Shik BAK**, Head of Construction Department, **ITER Organization** (30')
- Work Packages for Tokamak Machine Assembly, by **Jens REICH**, Head of Tokamak Assembly Division, **ITER Organization** (25')
- Work Packages for Tokamak Complex Installation, by **Stephen MURPHY**, Head of Tokamak Complex Division, **ITER Organization** (25')
- Work Packages for Balance of Plant, by **Sergio ORLANDI**, Head of Plant Engineering Department, **ITER Organization** (20')
- Contractual aspects of the updated procurement strategy, by **Françoise FLAMENT**, Head of procurement, **ITER Organization** (20')
- Status Report on Construction Management for ITER Construction, by **Angie JONES**, CMA Senior Manager, **MOMENTUM** (15')
- Atlas of ITER Main Components and Systems, by **Alexander ZIMIN**, Full Professor, **BAUMAN MSTU** (Moscow State Technical University) for **RFDA** (15')
- Progress Report on Sector Sub-Assembly Tool, by **Jeoung Geoun KIM**, Director, **TAE KYUNG HEAVY INDUSTRIES Ltd (THI)** (15')
- Current Status on Special Process for Magnet Feeder Joint (CNDA ASIPP), by **Arnaud DEVRED**, Superconductor Systems & Auxiliaries Section Leader, **ITER Organization** (15')

16:00-17:00

Refreshments

17:30-19:30

#### BUILDINGS & POWER SUPPLY SYSTEMS

Chairperson: **Christian DIERICK**  
Agoria vzw, **ILO Belgium**

- Status of ITER Buildings construction by **Laurent SCHMIEDER**, Site, Buildings and Power Supplies Project Team Manager, **F4E** (20')
- Presentation of facilities available to Contractors on the ITER site, by **Timothy WATSON**, Head of Facilities, Logistics & Materials Division, **ITER Organization** (20')
- Electrical Power Distribution, Coil Power Supplies construction and next steps, by **Ivone BENFATTO**, Head of Electrical Engineering Division, **ITER Organization** (20')
- Scope and opportunities for BIPS (**IO / F4E**) activities on ITER Tokamak Building Auxiliary Systems, by **Giovanni DI GIUSEPPE**, Area Manager For Nuclear Building, **ITER Organization** and **Francis MUNOZ**, **F4E** (20')
- Fabrication of switching network for ITER, by **Maxim MANZUK**, Head of laboratory, **EFREMOV Institute** (15')
- **Vincent MAILLARD**, TB04 Project Director, **OMEGA Consortium** (10')
- **Oriol RIBAS**, Deputy Director ITER TB03, **VINCI FERROVIAL RAZEL BEC - VFR Consortium** (10')

#### CRYOGENICS AND COOLING SYSTEMS

Chairperson: **Sergio ORLANDI**, Head of Plant Engineering Department, **ITER Organization**

- Status of Cryogenic systems procurement and installation, by **David GRILLOT**, Cryogenic System Section Leader, **ITER Organization** (25')
- Status of the Tokamak and Components Cooling Water System design: opportunities for tenders for procurement, manufacturing and construction at ITER Site, by **Giovanni DELL'ORCO**, Cooling Water System Section Leader, **ITER Organization** (20')
- Vacuum System and cryogenic pumping progress, by **Robert PEARCE**, Vacuum Section Leader, **ITER Organization** (20')
- Status on Cryoplant and vacuum pumping technical progress, procurement and installation, by **Alain TEISSIER**, Cryoplant & Fuel Cycle Project Team Manager, **F4E** (20')
- Status of Air Liquide contribution to the ITER project, by **Suzanne ROY**, VP ITER Program, **AIR LIQUIDE** (10')
- Status of Inox India contribution to the ITER project, by **Rajkumar PANJWANI**, President (Cryo scientific division), **INOX INDIA** (10')
- Status of ITER cryodistribution project, by **Ohlig KLAUS**, Chief Executive Officer, **LINDE Kryotechnik** (10')

One to One

Exhibition

19:30-22:30

CONGRESS DINNER (Grande Audience)

THURSDAY 30 MARCH 2017

THEMATIC WORKSHOPS

08:30-10:30

**VACUUM VESSEL & THERMAL SHIELDS**

Chairperson: **Martin TOWNSEND**, Head of Business Development, UKAEA, Culham Science Centre, **ILO United Kingdom**

- Status of Vacuum Vessel components and remaining procurement, by **Chang Ho CHOI**, Vessel Section/Division, **ITER Organization** (30')
- Status of EU Vacuum Vessel manufacturing and procurement, by **Francesco ZACCHIA**, Vacuum Vessel Project Team Manager, **F4E** (15')
- Progress and plan of EU Vacuum Vessel sector manufacturing, by **Gianfranco SAVOLDI, ANSALDO-MANGIAROTTI-WALTER TOSTO Consortium (AMW)** (15')
- Progress and plan of KO Vacuum Vessel sector and equatorial/lower ports manufacturing, by **Byung-Kyoon CHUNG**, Contract manager, **HYUNDAI HEAVY INDUSTRIES CO. LTD (HHI)** (15')
- Progress and plan of RF upper port manufacturing, by **Thomas SCHILLER**, Senior Design Engineer, **MAN DIESEL & TURBO SE (MDT)** (15')
- Vacuum Vessel Assembly Contract: progress on development phase, by **Sofia CORINO DIEZ, EQUIPOS NUCLEARES SA (ENSA)** (15')
- Status of KO Thermal shield manufacturing and procurement, by **Namil HER**, Vessel Section/Division, **ITER Organization** (15')

**MAGNETS & IN VESSEL COILS**

Chairperson: **Belén DEL CERRO GORDO**, CDTI, Ministry of Economy and Competitiveness, **ILO Spain**

- Overview of the ITER Magnets system, Status of design, qualification and procurement of In-Vessel Coils, by **Neil MITCHELL**, Head of Magnet Division, **ITER Organization** (25')
- Status and lessons learned of Magnet procurement in EU, by **Alessandro BONITO OLIVA**, Magnets Project Team Manager, **F4E** (25')
- Current Status and Lessons learned on TF Coil Manufacturing, by **Katsusuke SHIMIZU, MITSUBISHI HEAVY INDUSTRIES Ltd (MHI)** (15')
- Central Solenoid production status, by **John SMITH**, Program Manager, **GENERAL ATOMICS** (15')
- Lessons learned from PF Coils manufacturing by **Jean-Claude CERCASSI**, Business Development Manager, Big Science, **CNIM** (15')
- Status and lessons learned from PF Winding tools, by **Marco DANI**, President and Chief Engineer of **SEA-ALP Engineering Consortium** (10')
- Status and lessons learned of European TF Coils Winding Packs, by **Andrés FELIPE MARTÍNEZ**, Project Manager, Consortium **IBERDROLA-ASG-ELYTT** (15')

10:00-11:00

Refreshments

10:30-12:30

**DIAGNOSTICS**

Chairperson: **Søren Bang KORSHOLM**, Technical University of Denmark DTU, **ILO Denmark**

- Introduction to ITER diagnostics and business opportunities, by **Michael WALSH**, Head of Port Plugs & Diagnostics Integration Division, **ITER Organization** (35')
- F4E diagnostic work, overview of FPA teams and direct business opportunities, by **Glenn COUNSELL**, Diagnostics Project Team Manager, **F4E** (25')
- Hardware overview for ITER Divertor Thomson Scattering, by **Dmitry SAMSONOV, IOFFE INSTITUTE** (15')
- RF DA Port integration, by **Aleksandr BURDAKOV**, Deputy Director, **BUDKER Institute of Nuclear Physics** (15')
- EU Port Integration activities, by **Amaia ZARRAOA, IDOM Ingeniería y Consultoría SA** (15')
- Equatorial Wide-Angle Viewing System development, by **Laurent LETELLIER**, Project Manager, **CEA** (15')

**IN VESSEL COMPONENTS**

Chairperson: **Mario MEROLA**, Head of Internal Components Division, **ITER Organization**

- Status of the ITER Blanket System and future activities, by **René RAFFRAY**, Blanket Section Leader, **ITER Organization** (15')
- Status of the ITER Divertor and future activities, by **Frédéric ESCOURBIAC**, Divertor Section Leader, **ITER Organization** (15')
- European procurement of In-Vessel components for ITER - State of progress and next steps, by **Patrick LORENZETTO**, In Vessel Project Team Manager, **F4E** (20')
- Design development, manufacturing and experimental validation of ITER blanket system components, by **Maxim SVIRIDENKO**, Leading Engineer, **JSC NIKIET** (20')
- Status of the WEST programme in support of the ITER Divertor, by **Jérôme BUCALOSSI**, WEST Project Head, **CEA** (20')
- R&D and procurement status of ITER full tungsten divertor outer target in JADA, by **Satoshi SUZUKI**, Divertor Responsible Officer, **JADA** (20')
- High Heat Flux Test Facility for Plasma-Facing Components, by **Jan PROKÚPEK**, Head of ITER Contracts, **RESEARCH CENTRE REZ**, Czech Republic (10')

One to One

Exhibition

12:30-14:00

LUNCH (Grande Audience)

14:00-16:00	<p align="center"><b>HEATING SYSTEMS &amp; CURRENT DRIVE</b>  Chairperson: <b>Michel HÜBNER</b>  EPFL-Swiss Plasma Center, <b>ILO Switzerland</b></p> <ul style="list-style-type: none"> <li>- Overview of HCD systems from IO point of view (First plasma items, NBTF programme, RF Source development) by <b>Bertrand BEAUMONT</b>, Ion Cyclotron &amp; Lower Hybrid Section Leader, <b>ITER Organization</b> (30')</li> <li>- Overview and present status of the ITER Neutral Beam Test Facility, by <b>Vanni TOIGO</b>, Project Manager, Consortium <b>RFX - Padova</b> (20')</li> <li>- Status and plans of the ITER Electron Cyclotron Launcher in the EU, by <b>Gabriella SAIBENE</b>, Head of Antennas and Plasma Engineering, <b>F4E</b> (20')</li> <li>- Contribution to ITER on the ECRH Modulator Program, by <b>Josef TROXLER</b>, CEO, <b>AMPEGON</b> (10')</li> <li>- Activities for ITER and satellites projects in plasma heating solutions - Recent results, by <b>Stéphane BETHUYS</b>, Head of Marketing - Science, <b>THALES Electron Devices SAS</b> (10')</li> <li>- Manufacturing Experience of the ITER Diagnostic NBI, by <b>Christian ECKARDT</b>, Manager Research Devices, <b>PVA Industrial Vacuum Systems GmbH</b> (10')</li> <li>- Contribution to ITER and fusion projects, by <b>Andrea CERACCHI</b>, CEO, <b>CECOM</b> (10')</li> </ul>	<p align="center"><b>TEST BLANKET MODULES PROGRAM</b>  Chairperson: <b>Luciano GIANCARLI</b>, Section Leader,  <b>ITER Organization</b></p> <ul style="list-style-type: none"> <li>- Status of the ITER TBM Program and future activities, by <b>Luciano GIANCARLI</b>, Section Leader, <b>ITER Organization</b> (25')</li> <li>- The European TBM Systems, from R&amp;D to industrial feasibility: achievements and challenges ahead, by <b>Yves POITEVIN</b>, TBM Project Team Manager, <b>F4E</b> (20')</li> <li>- Current status of KO-HCCR TBS design and R&amp;D activities, by <b>Mu-Young AHN</b>, TBM Technology Team, <b>KODA</b> (20')</li> <li>- Current Progress on Design and R&amp;D Activities of Chinese HCCB TBS, by <b>Kaiming FENG</b>, <b>SOUTH WESTERN INSTITUTE OF PHYSICS (SWIP)</b> (20')</li> <li>- Scope of the TBS activities supported by CEA, by <b>Michel SOLDAINI</b>, Contract Manager for TBS activities, <b>CEA</b> (15')</li> <li>- Contribution to the ITER TBM Program by <b>Maria Teresa DOMINGUEZ BAUTISTA</b>, Advanced projects director, <b>EMPRESARIOS AGRUPADOS</b> (10')</li> <li>- Irradiation and PIE for TBM structural material specimens at lower end of the operational temperature window, by <b>Pär BECCAU</b>, <b>STUDSVIK NUCLEAR/NRG</b> (10')</li> </ul>	
15:30-16:30	Refreshments		
16:00-18:15	<p align="center"><b>FUEL CYCLE, HOT CELL &amp; REMOTE HANDLING SYSTEMS</b>  Chairperson: <b>Timo MÄÄTTÄ</b>, VTT Technical Research Centre of Finland, <b>EFLO Finland</b></p> <ul style="list-style-type: none"> <li>- Tritium Plant Overview and Contracting Opportunities, by <b>Ian BONNETT</b>, Tritium Plant Section Leader, <b>ITER Organization</b> (10')</li> <li>- Application of Nuclear Knowledge to progress Tritium Plant design, by <b>Katsusuke SHIMIZU</b>, <b>MITSUBISHI HEAVY INDUSTRIES Ltd (MHI)</b> (10')</li> <li>- Fuelling and Wall Conditioning Overview and Contracting Opportunities, <b>So MARUYAMA</b>, Fuelling and Wall Conditioning Section Leader, <b>ITER Organization</b> (10')</li> <li>- Introduction to ITER Remote Handling and Hot Cell Complex, by <b>Spencer PITCHER</b>, Head of Remote Handling &amp; Radioactive Materials Division, <b>ITER Organization</b> (25')</li> <li>- The global status of the F4E RH procurement contracts and long term vision, by <b>Carlo DAMIANI</b>, Remote Handling Project Team Manager, <b>F4E</b> (15')</li> <li>- Status of Hot Cell Complex Engineering, by <b>Ronan MOULLEC</b>, Project Director, <b>TRACTEBEL Engineering</b> and <b>Gianni SCARSI</b>, Senior System Engineer, <b>ANSALDO NUCLEARE</b>, for <b>TANDEM Consortium</b> (10')</li> <li>- Design activities toward manufacturing the Blanket Remote Handling System, by <b>Shunsuke IDO</b>, <b>TOSHIBA Corp.</b> (10')</li> <li>- Status of the Neutral Beam RHS, by <b>Ian GRAYSON</b>, Fusion Account Director, <b>AMEC FOSTER WHEELER</b> (10')</li> <li>- Status of the Cask and Plug Remote Handling System, by <b>Jean-Luc DUMONT</b>, Bid/Program Manager, <b>AIRBUS SAFRAN LAUNCHERS</b> (10')</li> <li>- Status of the Divertor Remote Handling System, by <b>Robert SHARRATT</b>, Technical Responsible Engineer, <b>ASSYSTEM UK</b> (10')</li> <li>- Status of the In Vessel Viewing System, by <b>Maxime LAUER-SOLELHAC</b>, IVVS Project Manager, <b>CNIM</b> (10')</li> </ul>	<p align="center"><b>CODAC AND I &amp; C SYSTEMS</b>  Chairperson: <b>Toon VERHOEVEN</b>, DIFFER: Dutch Institute for Fundamental Energy Research, <b>ILO Netherlands</b> (16:00-18:00)</p> <ul style="list-style-type: none"> <li>- ITER Control System: design status, required technologies and schedule, next steps of procurement, by <b>Anders WALLANDER</b>, Head of Control System Division, <b>ITER Organization</b> (40')</li> <li>- I&amp;C Development activities in preparation of ITER first plasma, by <b>Filippo SARTORI</b>, I&amp;C Group Leader, <b>F4E</b> (30')</li> <li>- TCS Contribution to ITER Control System Design, by <b>Manojkumar ANNIGERI</b>, <b>TATA CONSULTANCY SERVICES</b> (10')</li> <li>- 4 years' experience in the integration of Plant Systems I&amp;C to CODAC, by <b>Javier VARAS</b>, <b>GTD SISTEMAS DE INFORMACION</b> (10')</li> <li>- Design and qualification of the Nuclear Safety Control System of ITER by <b>Begoña COLLAR</b>, <b>EMPRESARIOS AGRUPADOS</b> (10')</li> <li>- Status of Central Interlock System, by <b>Geug-sin BANG</b>, <b>KEPCO E&amp;C</b> (10')</li> </ul>	One to One Exhibition