IN BRIEF

VISITS: SATISFACTION!
To understand the issues surrounding ITER, there is nothing like a visit with those who are working every day towards making fusion a new source of energy. Patrice experienced this and explains in behalf of the group engineers, executives and their team located to the site on June 10th, 2014 – most of us – all that we have learned about the conduct of some of the greatest innovations in this challenge for future energy. It is quite interesting. Thank you so much for organizing this visit and which we all found perfect. We know with a good memory of the day and of your company.

OVER 100 MILLION € IN 2 MONTHS
Last May, Fusion for Energy (F4E) announced the signature of their contract with the company Air Liquide for the construction of the last cryogenic facility in the world. It will produce liquid hydrogen and will be complementary to the installation for the production of liquid helium which will be used to cool the superconducting magnets of the facility and keep them at a temperature of 4.2 K. Air Liquide Asia Pacific will be responsible for the construction of this cryogenic facility, which will be located near the ITER site. The contract, worth 100 million euros, covers planning, design and construction of the facility and its auxiliary systems. In early June, F4E also signed another important contract of nearly 40 million euros with the engineering consultancy that brings together Assystem, Dalhousie Centre Fusion for Energy (CCFE) and Soil Machine Dynamics Ltd (SMD) along with the French Technical Research Centre (VIT) and Tampere University of Technology. They are in charge of the design and production of the remote-controlled maintenance system of the ITER divertor, a key element in the machine.

SCHOOL VISITS
Monday to Friday!
Discover the scientific challenges and extraordinary technology of the site where the world’s largest fusion research facility is ready to be constructed.

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The results of the job fair reveal that 93% of companies that participated felt they had gained time in their recruitment thanks to the forum. According to the satisfaction survey, all of them are willing to participate in an event of this type again. Since January 2014, job offers are primarily for positions involving engineers, technicians, designers, managers, finance, IT and maintenance workers in anticipation of the work planned for later this year.

JUNE: EXAM TIME

Throughout the month of June, 42 high school students and 6 European curriculum students in their baccalauréat exams of the International Provence- Alpes-Côte d’Azur (IPACA) school. This year, for the first time the institute has students in the German section (A), in the Spanish and Italian sections for the International Baccalaureate Option (IBO), 2 students chose the English section, 4 the Spanish section 9 the German section and 3 the Spanish section. The students are located in France in three subjects: French, Philosophy and Economics amongst others. History, geography and mathematics are also French. A graduation ceremony is scheduled on 4 July 2014.

ARBOURIUM CONTEST
WON BY A SCHOOL IN AIX

École Marie Mauron (Aix-en-Provence) won the Arborium contest organized by ITER École Marie Mauron (Aix-en-Provence) won the Arborium contest organized by ITER. After a week of competition, the schools used the visual and auditory clues to help them solve the challenges. Students were guided by the sound of marsh. At the end of the day, the school of the most beautiful trees was awarded. Wonderful life that abounds at the foot of some venerable oak trees which are several centuries old, and were able to calculate the age of the trees. When they had to calculate, they explained and answered each question point by point. Find the competing teams on www.itercadarache.org site.

LOCAL NEWS
MOBILIZED FOR LOCAL EMPLOYMENT

The success of the last employment forum, held on June 1st, 2014, reassures Roger Pivel, Mayor of Saint-Paul-Lou-Durance. President of the event, working with the surrounding communities and the implementation of the municipal employment services (see page 1), he intends to continue the work of the past two years through the municipal employment office « École d’Emploi d’Aix » - we are on the territory of two major research centres – that are real local employment resources. Provided we action, our willingness to participate in the organization of job fairs and relay information on courses such as the form-worker training currently being held at the civil works training centre in Wallerue with a dozen participants. Employment surrounding ITER is a key element we can easily use but we have not yet used and is not yet only because new companies are also coming into our town; businesses have been created and accommodation solutions are emerging. (Note: It is essential to work together to go further, “said the mayor).

IN FUSION: "I"monic and "F"usor: all about hydrogen
In Europe, researchers are exploring a wide variety of techniques to produce hydrogen for ITER, including nuclear fusion, chemical catalysis and electrolysis. Large quantities of hydrogen are needed for the production of liquid helium which will be used to cool the superconducting magnets of the facility. ITER will be the world’s largest fusion research facility and keep them at a temperature of 4.2 K. Air Liquide Asia Pacific will be responsible for the construction of this cryogenic facility, which will be located near the ITER site. The contract, worth 100 million euros, covers planning, design and construction of the facility and its auxiliary systems. In early June, F4E also signed another important contract of nearly 40 million euros with the engineering consultancy that brings together Assystem, Dalhousie Centre Fusion for Energy (CCFE) and Soil Machine Dynamics Ltd (SMD) along with the French Technical Research Centre (VIT) and Tampere University of Technology. They are in charge of the design and production of the remote-controlled maintenance system of the ITER divertor, a key element in the machine.

COMPA NIES RECRUITING FOR CEA AND ITER

The latest job forum in Cadarache Castle brought together more than 800 participants on 2nd June 2014. An immensely successful event.

Companies interested in advertising in our AIE newsletter, please contact

Sylvie André-Mitsialis - Tel.: 04 42 25 29 26
sylvie.andre@agenceiterfrance.org - Anaïs Padilla
Sylvie André-Mitsialis - Tel.: 04 42 25 29 26
sylvie.andre@agenceiterfrance.org - Anaïs Padilla
Sylvie André-Mitsialis - Tel.: 04 42 25 29 26
sylvie.andre@agenceiterfrance.org - Anaïs Padilla

Email: iter@arceneciel.com

More information about this issue is available on our website: www.itercadarache.org

Visit the ITER Divertor, a key element in the machine
UPDATE

THREE CHALLENGES FOR ITER FRANCE


WELCOME: A PRIORITY

Each company has received a personalized welcome and continued support. Providing help in the completion of administrative formalities (visas, work permits, etc.) and working closely with slide services, Agence ITER France’s Welcome Office has welcomed more than 13,000 people (Agence ITER employees and their families) since 2004. Just in 2014, nearly one hundred (and a few people have benefited from its services (56 arrivals and 30 departures). This workshop has led to the development of new non-employees since the team was created in 2006 within Agence ITER France – as stated by Jerome Panet, the High Level Training Program has provided itself, with some 1,550 participants trained since 2007. Today this know-how is used by the French Customs and Tax Administration for companies working alongside ITER. As a member of Welcomes Across Borders (W@B), ITER France gives support in finding solutions for bearing future on-site personnel. Created under the auspices of the General Secretary for Regional Affairs at the regional prefecture, RH accompanies French and foreign companies coming to work directly or indirectly on the ITER project. Along with Agence ITER France, W@B is supported by a number of partners: ITER France, National Energy Corporation, Agence ITER France’s Welcome Office for companies looking to locate in France. This regional dynamic of opens a comprehensive response to companies on all future tasks to employment, or on transfer, especially transport to and from the office sites to other areas.

ARRIVAL OF CONVOYS

At the same time, Agence ITER France is preparing to host the increase in ITER transport. The dedication to the ITER library is preparing to host the first real convoy announced for the end of this year. They will transport large electrical transformers from South Korea weighing a hundred tons less than 4 meters high and about 0.5 meters long. Some imposing boxes are also due to arrive from the United States. They are almost 7 meters in radius and each weighs more than 1,000 tons. These convoys mark the start of the daily activity which is thus expected to peak between 2016 and 2017 with an average transport of 45 to 50 convoys per year.

INTERNED

For the last five years, ITER is preparing to host the full-sized components of the Tokamak, the central part of ITER. That’s why ITER Organization, Agence ITER France and the Prefecture of the Var are preparing to host the first real convoys announced for the end of this year. They will transport large electrical transformers from South Korea, weighing a hundred tons, less than 4 meters high and about 0.5 meters long. Some imposing boxes are also due to arrive from the United States. They are almost 7 meters in radius and each weighs more than 1,000 tons. These convoys mark the start of the daily activity which is thus expected to peak between 2016 and 2017 with an average transport of 45 to 50 convoys per year.

INTERMED

The temporary facility for Agence ITER France involves long-term decommissioning and the construction of a new facility dedicated to it. As part of the management of radioactive substances generated by the ITER installation, Intermed will be used to store components of the machine for 50 years in a secure underground repository prior to transportation to the storage sites of the National Agency for Radioactive Waste Management (Andra). The project has many environmental issues, such as its location, and its storage conditions. Safety studies must be undertaken to meet the specifications set by the Nuclear Authority in the context of the creation of this type of installation. The facility is being reviewed on site on about 4 hectares. For this reason, a call for consulting firms was launched to establish a project management contract by mid-2015. The project will be implemented in the framework of agreements previously signed between CEA and ITER Organization, and major milestones are being defined, in particular with an intergovernmental and consultation phase scheduled for 2015-2016.

OUTLOOK 2014...

The international treaty laying the legal, technical and financial foundations of the cooperation between the ITER project’s seven international partners was signed on 22nd November 2006 in Paris. As the president of the Republic of France, representatives of the European Union, Russia, China, United States, Korea, Japan, South Korea and India met at the Palais des Nations in Geneva to sign the treaty with ITER Organization, on 22nd September 2006, Article 23. It is for this reason that the international cooperation in the field of fusion is in place and that ITER is now an international cooperation in the field of fusion.

OPENING A KEPCO E&C ANTENNA IN AIX-EN-PROVENCE

This is a historic day which confirms our commitment to respecting the ITER project and achieving our mutual challenge to build the largest research facility in the world and make a new source of energy, namely, thermonuclear fusion. President Xi Jinping, President of the People’s Republic of China, and President François Hollande, President of France, sign the ITER project’s seven international partners was signed on 22nd November 2006 in Paris. As the president of the Republic of France, representatives of the European Union, Russia, China, United States, Korea, Japan, South Korea and India met at the Palais des Nations in Geneva to sign the treaty with ITER Organization, on 22nd September 2006, Article 23. It is for this reason that the international cooperation in the field of fusion is in place and that ITER is now an international cooperation in the field of fusion.

ASSEMBLY HALL TAKES SHAPE

The foundations of the assembly hall where the tokamak's elements will be assembled are finished. It is now time to start work on the structure of the building. Assembly of the steel structure is to take the metal frame for the building and concrete is expected for August 2014 and completed by the end of the year. Adapting the complex that will house the torus, the assembly hall will be erected in the heart of the ITER Organization’s Arbois Technical Area. A work site dedicated to ITER was created by the CEA for the construction of ITER’s tokamak. The work site is located on a 10 hectares plot of land between the ITER Organization’s Arbois Technical Area and the ITER Organization’s Arbois Technical Area.

A WIDE RANGE OF ACADEMIC COOPERATION

Besides the creation of a new collection for the “Concordances” university archive dedicated publishing articles about the international scientific program, the partnership established by the ITER Organization, Agence ITER France and the University of Lorraine continues to evolve and extend. This partnership will be an extension to allow full access to the services of the university library and the facilities of its laboratories and research centers. The aim is to provide access to all university publications and to the scientific and technical literature in all fields.