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FRANCE TECH INSIGHT

French Innovation News for New England
2009

N°9 - November



Consulate General of France in Boston
Office for Science and Technology

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In This Issue

NEW ENGLAND NEWS

INNOVATION ACTOR OF THE MONTH

SPECIAL REPORTS

INNOVATION NEWS

LIVE FROM THE LABS

CHALLENGING JOBS IN FRANCE

EVENTS IN FRANCE

Related Links

- [Our Reports & Publications on US Innovation \(in French\)](#)
- [Office for science and technology in the US](#)
- [Office for science and technology in Boston](#)
- [Young Entrepreneurs Initiative](#)
- [Consulate General of France in Boston](#)
- [FACCNE](#)
- [Hubtech21](#)

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EDITO

Dear Reader,

Welcome to the November Issue of France Tech Insight, our monthly newsletter presenting the latest updates from the Office for Science and Technology of the French Consulate in Boston.

In the FTI this month :

- The 2009 FAID registration is open.

Secure your seat for our 2 day [French American Innovation Day](#). This year Topic : "Theragnostics and Biology : know-how challenges, applications and breakthroughs". Free of charge but limited space : first come, first served !

- The Young Entrepreneur Initiative Applications.

[Apply](#) now to get hands-on support and an organized business trip to France to develop the activities of your technology start-up on the old continent.

- The French-American Technology Transfers Workshop

Organized in the framework of our exchange program for technology transfer professionals ([FAT²E](#)), this workshop will take place in Paris on November 13.

- **The New Model of Governance of American Innovation**, our Interview with Richard Bendis of "Science Progress" is on the [Innovation America](#) Website.

- **OPTITECH, the Leading Optics and Photonics Cluster** is our "Innovation Actor of the month".

And, like every month, you will find the latest updates in French science, technology and innovation.

I wish you a very pleasant reading and I look forward to hearing from you shortly.

Sincerely,



Antoine MYNARD
Attaché for Science and Technology
attache-inno.mst@consulfrance-boston.org

NEW ENGLAND NEWS

**FAID 2009 Conference + \$300K Scientific Projects Competition :
REGISTRATION OPEN!**



"Theragnostics and Biology : know how challenges, applications and breakthroughs".

8th edition of the French American Innovation Day (FAID), Dec 3-4,

Harvard Medical School. The online registration is now open at www.france-science.org/faid2009. Our partner this year, Mérieux Alliance, provides a large support to the event, which brings him back visibility and access to high-end innovation projects. If your company may be interested in supporting the next edition of the FAID, please contact Lynda Inséqué at deputy-inno.mst@consulfrance-boston.org.

The Chateaubriand Fellowship Program - Get a Grant to Conduct your Research in France



The Chateaubriand Fellowship is a grant offered by the Office for Science and Technology of the Embassy of France in the United States. Every year, it allows students enrolled in American universities - PhD Candidates or Post docs - to conduct research in a French laboratory (public or private) for a 6 to 10 month period of time. Chateaubriand recipients receive allowances of 2000€ a month for doctoral and 2466€ for Post-Doctoral fellows, a round-trip ticket and health insurance. The research would be performed in a French university, a "Grande Ecole" of Engineering, a national laboratory or a private enterprise. In such case, the fellowship can be co-sponsored by the interested French company. For more information, visit www.france-science.org.

The New Edition of the Young Entrepreneurs Initiative Competition - Apply by Nov 29 to Launch Your Venture in France!



The French Embassy and top innovation network partners in France will provide selected candidates with connections with potential business and technology partners in France along with ongoing coaching and mentoring. Successful candidates, will be granted an organized business trip to France in the first year following their selection. **Application deadline: Nov 29, 2009.** Contact: Géraldine Quetin, YEI project manager in the US: +1.617.401.2450, yei.mst@consulfrance-boston.org - www.france-science.org/innovation/yei

10 Days of Business Development in Boston for the Two Winners of a National Business Plan Competition



Our Office has organized, in collaboration with the [Institute For Technology Entrepreneurship and Commercialization](#) at Boston University (ITEC) and other partners, an intensive 10 day business development program for the high-tech music instrument start-up "La 3eme Main", winner of the French national entrepreneurship Competition "Innovons Ensemble". They have been provided by ITEC with a hands-on entrepreneurship training for international start-ups, they have met with people from their industry (notably [The Mouradian Guitar Co](#), [Sonicbids](#) and [Harmonix](#)), with other entrepreneurs (thanks to [DartBoston](#) and [Incunation](#) !) and they are now able to pitch to investors (Thanks to [Mass Global Partners](#)), fill a patent application (Thanks to [Pepper Hamilton](#)), and do business in the US. They saw during this program the opportunities they have in the US market and will probably come back soon. Good luck guys !

The Annual French-American Technology Transfer Workshop... in Paris



In 2007, FAT²E, an exchange program between French and American technology transfer managers has been launched by the Office for Science and Technology of the French consulate in Boston : www.tt-fellow-exchange.org. After 2 years of successful experiences, a feedback event is organized in Paris gathering all the participants and the French technology transfer community. and some of their US counterparts. Keynote speakers will notably include Scott Mcfarlane, technology licensing manager at Cornell University. November 13, Paris. For more information, contact Lynda Inséqué at deputy-inno.mst@consulfrance-boston.org.

The New Model of Governance of American Innovation : Our Interview with Richard Bendis of "Science Progress"



In order to better understand the environment we work in, our Office regularly investigates the American dynamic regarding innovation policies. One of our recent article has been published on the Innovation America website (www.innovationamerica.us). In this article, we analyze the report "Creating a National Innovation Framework", published in « Science Progress », which propose a new governance for the american innovation system. We wanted to know more about it, so we contacted one of the article's authors, Mr. Richard Bendis, to ask him a few questions. You can find the article with the interview both in English (www.innovationamerica.us) and in French (www.bulletins-electroniques.com)

The Partner University Fund: We Support your Transatlantic Academic Collaboration Project



The Embassy of France in the U.S and the FACE Foundation are pleased to present the third call for project proposals of the Partner University Fund (PUF). PUF promotes innovative collaborations of excellence in research and education between French and American institutions of higher education. There is the possibility of receiving up to \$80,000 per year in funding over a three-year period. Project proposals must be submitted by **December 15th, 2009**. For more information, please contact: puf@ambafrance-us.org and visit the website: www.facecouncil.org/puf

Upcoming Events from the French-American Chamber of Commerce



- **November 10, 8:00am - 5:00pm: "Boston Cleantech Venture Day"**. Exceptional opportunities to invest and partner with sixteen promising European Cleantech companies. Sixteen European Cleantech companies see this event as a most attractive opportunity to present and network with US VC firms, corporate investors and others. Where: Edwards Angell Palmer & Dodge, 111 Huntington Avenue, Boston MA. Cost : \$195. Registration : www.bostoncleantechventureday.com

- **November 19, 6:00pm - 8:30pm: "Green Energy: What can we learn from Europe's experience?"** The FACCNE in collaboration with the Swiss American Chamber of Commerce and the German American Business Council is happy to present this international panel of experts from prestigious companies who will discuss Clean Energy in terms of solar and nuclear energy, wind power, and global implications. See the full invitation [here](#). For more information and RSVP: www.faccne.org. Where: Ernst and Young, Hancock Tower, 200 Clarendon St., Boston.

Café des Sciences #24 - Nov 17 : "Papier 2.0 et nouveau langage web : innovations et expérience aux Etats-Unis de 2 sociétés du pôle SYSTEM@TIC". For this November edition of the Café des Sciences, we are delighted to welcome a group of 10 companies for the leading IT and digital media cluster [SYSTEM@TIC](#). Two of them, [MLState](#) et [Kayentis](#), will present their innovative products and their development opportunities on the US market. November 17, 6pm-8pm, Cambridge Innovation Center, 5th Floor, One Broadway in Cambridge. RSVP : cafe@hubtech21.com. PRESENTATION IN FRENCH.

The CNRS Ranked N°1 Research Institution in the World !



According to the 2009 SCImago Institutions Rankings (SIR), the [CNRS](#) (Centre National pour la Recherche Scientifique), the major French governmental research organization, is the most performant research institute in the world. The ranking shows 5 indicators of performance, stressing output, collaboration and impact. For more information, please visit: www.scimagoir.com

Two Leading French Clusters in Boston to develop partnerships

- **SYSTEM@TIC** leading IT and digital media cluster - Nov 16-21. www.systematic-paris-region.org

- **OPTITECH**, leading optics and photonics cluster - Nov 30 to Dec 4. www.popsud.org

Meetings with local companies and research labs will be organized. [Contact us](#) for more information about these business and technology partnerships opportunities.

INNOVATION ACTOR OF THE MONTH



PÔLE OPTIQUE
& PHOTONIQUE

OPTITEC - POPSUD, the Leading Optics and Photonics Cluster

OPTITEC is a leading French competitiveness cluster specialized on complex optics and imaging systems dedicated to space, aeronautics, defense, medical and greenphotonics application. OPTITEC is a major European-scale centre for optics-photonics and image processing with more than **20% of French R&D in optics, 12 363 jobs** for qualified staff, including **3 900 for researchers and engineers**. The cluster developments are based on leading edge research centers and universities, representing 1 500 researchers working in world-renowned laboratories: CNRS, Institut Fresnel, Laboratoire d'Astrophysique de Marseille, INRIA, ONERA, CEA, CEMAGREF and IFREMER. The industrial ecosystem is particularly dynamic with major groups such as Thales Alenia Space, Eurocopter, Dassault Systems, STMicroelectronics

and Atmel, developers and integrators of complex systems, and also users of optical and photonic tools. The region has also a dense network of SMEs, most of them leaders in their market sector (SESO, Orsay Physics, Optis, Cilas, etc.), start-ups originating as spin-offs from the proliferation of major regional corporations or laboratories such as Silios Technologies, Realviz, Lumilog, Light Technologies, Kloé and Supersonic Imaging....The industrial sector has a mean growth rate of 10% with 38,2% of their turn over based on export, and 15% dedicated to R&D. From 2006 to 2009, **90 projects were awarded by the OPTITEC label, representing an overall value of 200M €**, with a funding rate of almost 50 %. The strong research / industry / education synergy provides a solid base for maintaining an ongoing and constantly renewed pool of projects. 40 new partners every year and more than 70 SMEs are involved in joint projects.

Contact: POPSud - OPTITEC competitiveness cluster - Phone: +33 (0)4 91 05 59 69 - www.popsud.org or e-mail Katia Mirochnitchenko, Director at katia.mirochni@popsud.org

A delegation composed with leaders, researchers and 10 entrepreneurs from the clusters Optitech, Elopsys and Route des Lasers, will be in Boston from Nov 30 to Dec 4 to develop technology partnerships and research collaborations. Contact [Yann Le Beux](#) for more information about their program.

SPECIAL REPORTS

CEMAGREF - Three Challenges for Sustainable Water and Land Management

Have you ever heard of CEMAGREF? Of course, the reputation of the teams working at the Public Scientific and Technological Establishment (EPST) is well-established. Strangely enough, CEMAGREF is one of the least well-known of all the major French public research organizations, although its scope of activities encompasses major twenty-first century concerns, as the research organization's prime target is sustainable water and land management.

... Read More : <http://www.bulletins-electroniques.com/actualites/60940.htm>

Food - World Unique Platform at the Paul Bocuse Institute

Next December will be the first anniversary of the Paul Bocuse Institute's Research Center at the Ecully Castle near Lyons. Agnes Giboreau, an AgroSup Dijon graduate in engineering and specialist in sensory analysis, is the Director of the world unique platform.

... Read More : <http://www.bulletins-electroniques.com/actualites/60941.htm>

A New Generation of Level Sensors In the Works

SPSI, a pressure sensor design and production specialist set up in Champigny-sur-Marne near Paris, is a small R&D business whose products are used in the automotive, aviation, food processing and defense industries.

... Read More : <http://www.bulletins-electroniques.com/actualites/60942.htm>

NUTRICE to Improve Rice Cooking

"The rice cooker market is very big, especially in Asia. The market is now dominated by the most cost-efficient technology. We have to understand the influence of every cooking parameter (that currently available appliances control) on the organoleptic and nutritional qualities of rice," recapped Philippe Crevoisier, General Manager for 'Electric Cooking' at the SEB group.

... Read More : <http://www.bulletins-electroniques.com/actualites/60943.htm>

INNOVATION NEWS

Nanotechnologies - CNRS Creates its First Joint International Research Unit in Asia

CINTRA stands for CNRS International - NTU - Thales Research Alliance, the name of the CNRS's first Joint International Research Unit based in Singapore. The three partners (CNRS, Nanyang Technological University (NTU) of Singapore and Thales) that created the CINTRA Joint International Research Unit are highly complementary.

... Read More : <http://www.bulletins-electroniques.com/actualites/60945.htm>

Biotech - Grenoble Based Startup Cytoo Raises 3.2 Million Euros

Cytoo (www.cytoo.com), a Grenoble based company with a subsidiary in Boston, was created in 2008. It manufactures and sells innovative products for cell based assays, high content analysis and cell screening. Its products use adhesive micropatterning technology that make cell analysis more reliable and reproducible as it substantially reduces cell variability.

... Read More : <http://www.bulletins-electroniques.com/actualites/60946.htm>

Photovoltaics -Total, GDF SUEZ and Photovoltech Join IMEC Program

IIAP (Industrial Affiliation Program) was launched by IMEC, an world renowned independent research institute specialized in nanoelectronics and nanotechnology. The multi-partner R&D program focuses on sharply reducing silicon in crystalline silicon solar cells while increasing solar cell efficiency, a move that should substantially lower solar energy cost.

... Read More : <http://www.bulletins-electroniques.com/actualites/60947.htm>

LIVE FROM THE LABS

Are Flash Memories Soon to be Replaced?

The so-called 'nomad' electronics permeating our daily lives critically depend on components that can preserve data when the device is off. They are what is called 'nonvolatile' memories. Today there are three major memory families, i.e., high energy consuming magnetic memories, long write/read time flash memories, and ferroelectric memories that are the fastest but whose stored information is destroyed during reading. The latter, which have been on the market for more than ten years, are used for niche applications such as certain game consoles. The research results published in the May 31 issue of Nature stand to revolutionize nonvolatile memories.

The team at the CNRS/Thales-Paris-Sud II Joint Physics Unit working with Cambridge University and Thales Group researchers has managed to ...

... Read More: <http://www.bulletins-electroniques.com/actualites/60220.htm>

EDUCATION OUTLOOK

Composite Structures - The EADS Foundation and Ecole Centrale de Nantes Endow International Chair

The Pays de Loire Region has enabled France to become the leader in vital research on modeling the manufacturing processes of composite structures, major technological challenges for the aviation and space industries.

... Read More : <http://www.bulletins-electroniques.com/actualites/60944.htm>

European Nuclear Energy Leadership Academy Launched

Last July, six companies [1] including the AREVA Group signed an agreement to establish the European Nuclear Energy Leadership Academy. Hailed by the European Commission, the agreement that was hatched at the European Nuclear Energy Forum (ENEF) lays the groundwork for the Academy and defines the next project implementation stages.

... Read More : <http://www.bulletins-electroniques.com/actualites/60412.htm>

Master's in Health Food Marketing (MAS) - Still Studying in School and Already Working in a Company

Health food is more than a passing fad, for several years it has proven to be a strong trend meeting a recognized problem - the way we eat conditions our health. Aware of the stakes involved, the ESC Dijon Bourgogne Group created a Master's degree specialized in Health Food Marketing (MAS) headed by Doctor Valerie Philippon, three years ago.

... Read More : <http://www.bulletins-electroniques.com/actualites/60221.htm>

CHALLENGING JOBS IN FRANCE

Post-doc in cell biology/biochemistry (Inserm, Montpellier)

A 4-year postdoctoral position, funded by the FP7 EU program ADIPOA, will be available on January 2010 at the Inserm unit headed by C. Jorgensen and located in Montpellier, France. The candidate will set up animal models for OA and cartilage disease, cellular biology using progenitor cells, mesenchymal cells or adipose-derived stem cells, as well as molecular biology. The

successful candidate will have a solid experience in cell biology, biochemistry techniques and animal models. Authorization to conduct in vivo experiments is required. Applications, including a short letter of motivation for carrying out this project, a CV, list of publications and names for two references should be sent by e-mail to: christian.jorgensen@inserm.fr or daniele.noel@inserm.fr. More [information](#).

Post-doc at the Laboratory of Structural Enzymology and Biochemistry, Cytoskeleton and Motility Dynamics group (Gif-sur-Yvette)

In vivo and in vitro studies have shown that lamellipodial and filopodial protrusions, located at the leading edge of a crawling cell, are generated by spatially controlled polymerization of actin filaments at the cell membrane, induced by two different nucleation machineries (WASP-Arp2/3 generates a branched network in the lamellipodium; formins generate long unbranched filaments in filopodia). For more informations : www.lebs.cnrs-gif.fr/carlier/docs/ANR_EH_PostDocAnnouncement.pdf

Post-doc in Mass Spectrometry and Fluorescence of Isolated Nanohybrids (Lyon)

Applications are invited for a one-year postdoctoral position at the Laboratoire de Spectrométrie Ionique et Moléculaire (LASIM). Metal-biomolecular nanohybrids are promising for the detection and imaging of biomolecules and for the design of new materials with adaptative structural, electronic and optical properties. In order to gain understanding about the nature of the interactions in nanohybrids and to unravel the mechanisms responsible for optical processes, we propose to study emissive properties of single nanohybrids in well-defined environments. In this context, we develop a new instrument coupling laser-induced fluorescence to a charge detection device ("megadalton" mass spectrometry). The post-doc fellow will be mainly responsible for this new experiment. S/he will test the charge detection spectrometer and its coupling with a fluorescence setup and then develop a research program on protein-metal complexes. The candidate should possess a PhD in chemistry or physics and basic knowledge in molecular physics, biochemistry and/or nanosciences. Expertise in laser spectroscopy, optics and/or mass spectrometry is useful. The net salary is approximately 2100 €/month. Send CV, letter, list of publications and 2 references before November 30, 2009 to: Rodolphe Antoine, antoine@lasim.univ-lyon1.fr

Call for Applications: Post-doc fellowships and undergraduate summer internships at the Institut Pasteur, Paris

Three-year post-doc fellowships are offered to American post-doctoral scientists wishing to pursue research at the Institut Pasteur in Paris. In addition, 10-week undergraduate summer internships at the Institut Pasteur offer hands-on laboratory experience to students contemplating a scientific career. Open to US citizens. Deadline for post-doc fellowship applications: September 11th, 2009. Deadline for internship applications: December 18, 2009. [Website](#) or [Facebook](#) or [LinkedIn](#) or [Twitter](#)

Total is recruiting researchers in biotechnology

the oil group TOTAL is currently looking for several researchers who will work with partner laboratories, in Europe and in the US, within the scope of joint research projects on the themes "deconstruction of lignocelluloses," "feedstocks" and "algae." [Learn more](#) about these opportunities.

EVENTS IN FRANCE

Meet InnoV - A Keynote Event on Innovation and New Technologies

Meet InnoV (www.meetinnov.com), a major business convention dedicated to innovation and new technologies, will be held on November 26 and 27, 2009, at Paris XII-Val de Marne, in Creteil. This will be an opportunity to meet every innovation player, from the major groups to innovative small businesses, including research laboratories, investors and innovation support facilities.

More Info: <http://www.bulletins-electroniques.com/actualites/60949.htm>

Aerosolutions 2009 - New Opening on the Space and Defense Markets

On December 1 and 2, 2009, Aerosolutions 2009, the major international business event in the Aerospace and Defense industry, will be held in Bordeaux.

More Info: Aerosolutions 2009 - <http://www.aerosolutions-bordeaux.com>

Acknowledgments

A large part of the scientific content included in the France Tech Insight is produced by our partner in France, the Agency for the Diffusion of Technological Information (ADIT). For more information, please visit its website.

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