

LAFAYETTE INSTITUTE NOW UNDER CONSTRUCTION

Dignitaries Meet for Official Groundbreaking

On October 10, 2012, 150 people gathered on the Technopole of Metz, France, for the official groundbreaking for the new Lafayette Institute. Among the many dignitaries present were Jean-Luc Bohl, president of the Metz Metropole; Dominique Gros, mayor of Metz; François Lavergne, vice president of the Moselle General Council; Jean-Pierre Moinaux, representing the Lorraine Regional Council; Steve Cross, executive senior vice president for research at Georgia Tech; Yves Berthelot, president of Georgia Tech-Lorraine and vice provost for international initiatives at Georgia Tech; and Abdallah Ougazzaden, director of Georgia Tech-Lorraine and director of the Georgia Tech/CNRS UMI2958 laboratory.



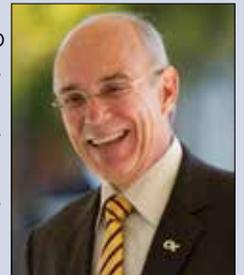
La premiere pierre, or first stone, as it is referred to in France, took place on the Georgia Tech-Lorraine campus in Metz, where the new Lafayette Institute will be located. The Lafayette Institute is a € 30 million facility that will facilitate the commercialization of innovations in optoelectronics.

The combination of yellow Pierre de Jaumont used for the construction of many buildings in Moselle, with red bricks representing the material of Tech Tower in Atlanta, offered a visual manifestation of the partnership of the Lafayette Institute with Georgia Tech and Metz.

“Georgia Tech is very excited about the construction of the building that will house the Lafayette Institute and is looking forward to its completion. We are eager for our students and scientists to start using this world-class facility, and to begin to create new international partnerships,” said Bernard Kippelen, president of the Lafayette Institute.

Georgia Tech Provost's Message

Georgia Tech's vision is to define the technological research university of the 21st century and to educate the leaders of a technologically driven world. To this end, we seek to foster global engagement in education, research, and innovation, so that our students will be well prepared for leadership in a globally connected world. I am pleased to see the vitality and success of Georgia Tech-Lorraine, reflected



Rafael L. Bras, Provost and Executive Vice President for Academic Affairs

in its record student enrollment and strong research growth, which are documented in this newsletter.

We are one Georgia Tech, bound by the shared commitment to excellence in all our endeavors, and to progress and service, wherever we are present. We can be proud of our students and alumni, faculty and staff, and all our many stakeholders who have contributed to Georgia Tech-Lorraine success.

Share Your News!



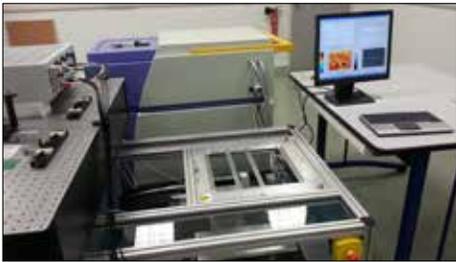
New Job? Moved recently? Made an addition to your family? Tell us so we can share your news with your fellow alumni. **What projects are you working on?** Share your challenges and accomplishments with fellow alumni. Brag a little. It's all news to us. **Have a company news item or an opinion?** Share these things with your fellow alumni. Let them know what's going on in your life.

Send your story to GTL-Alumni-newsletter@georgiatech-metz.fr.

Georgia Tech-Lorraine Research News

New UMI Research Lab Opens

A THz Imaging and Spectroscopy lab has been created at the UMI Georgia Tech-CNRS research center. Headed by ECE Professor David Citrin, this lab will image with a sub-millimetric resolution, polymers, ceramics and dielectrics as bulk coatings or fabricated structures as well as composite materials. The lab is funded by the FEDER (EU funds), the Conseil Regional of Lorraine, and Georgia Tech.



Mirror Lab in Rabat, Morocco

On April 4, 2013, an agreement was signed by French President Francois Hollande and Crown Prince of Morocco King Mohammed VI between the International University of Rabat in Morocco, the Georgia Institute of Technology, and the Centre Nationale de Recherche Scientifique (CNRS). The signing of this agreement established a mirror laboratory of the Unité Mixte Internationale (UMI) GeorgiaTech-CNRS in Morocco.

The primary facility, located in Metz at the Georgia Tech-Lorraine campus, has previously established a mirror laboratory at the Georgia Institute of Technology in Atlanta, Ga. The objective of this agreement is to strengthen the collaboration between the UMI GeorgiaTech-CNRS and the scientific and academic community in Morocco on advanced materials



research — particularly in the fields of photovoltaics, energy recovery, and energy conservation. This project creates bridges between three continents — Africa, Europe, and America — creates opportunities for collaboration, and promotes the emergence of an ecosystem of innovation, technology transfer, and economic development.

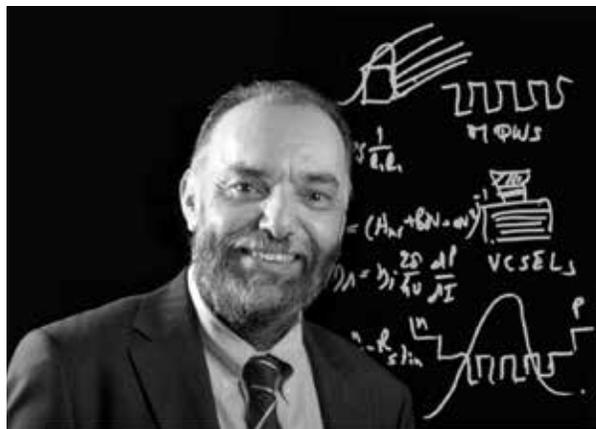
Director of Georgia Tech Lorraine Receives 2013 Steven A. Denning Award for Global Engagement

Abdallah Ougazzaden, director of both Georgia Tech-Lorraine and the Georgia Tech-CNRS Unité Mixte Internationale research center, has been named the recipient of the 2013 Steven A. Denning Faculty Award for Global Engagement. The award was presented at the Georgia Institute of Technology's Faculty Honors Luncheon on April 10, 2013.

This annual event honors the top faculty at Georgia Tech for their exceptional accomplishments and their roles in advancing the Institute's strategic vision. When the award was presented to Ougazzaden at the ceremony, it was said that:

"Professor Abdallah Ougazzaden exemplifies the commitment of Georgia Tech's faculty to advance research, education,

and economic development at the global level. As founding director of the Georgia Tech-CNRS research laboratory, with its main arm at Georgia Tech-Lorraine, Dr. Ougazzaden tirelessly promotes



Georgia Tech in France and throughout Europe. Also, through his vision and leadership, an extension (mirror laboratory) of the UMI has been established on Georgia Tech's Atlanta campus,

attracting even more industrial interest and faculty participation. Dr. Ougazzaden is also co-founder and vice president of the Institute Lafayette, Georgia Tech's open-innovation center in Metz, France.

His dedication to economic development and his reputation as an international scholar, combined with his deep knowledge of the U.S. and Europe, have allowed Dr. Ougazzaden to bring substantial international collaborations to Georgia Tech."

Promoting the recognition of Georgia Tech in other countries and advancing international research, education, and economic development are two key components of the Steven A. Denning award, and are emblematic of the work Ougazzaden has done for Georgia Tech and Georgia Tech-Lorraine.



Scholarship Challenge Inspires Philanthropist

A \$100,000 Scholarship Challenge fund was established by Georgia Tech President G.P. “Bud” Peterson in 2011. This fund was established to enable talented students to participate in Georgia Tech-Lorraine’s innovative educational programs outside their home continents. At the core of this program is the belief that many students who would benefit from Georgia Tech-Lorraine programs are precluded from participating because of financial constraints.

A Georgia Tech-Lorraine alumnus, John Vander Weide, was among the first to step forward and make a gift to this fund. As a participant in the double degree program (MSME 2006, Master Professionnel International, Ecole Nationale Supérieure d’Arts et Métiers, 2006) he experienced his own personal transformation as a student from the Midwest to a truly global engineer. Vander



John Vander Weide, MSME, 2006, Master Professionnel International, Ecole Nationale Supérieure d’Arts et Métiers, 2006

Weide came to the program from Grand Rapids, Mich., where he had spent most of his life. Today, he is living with his family in Cherbourg, France, working with Areva, Inc.

“The Scholarship Challenge will enable talented students to participate in this exceptional program, particularly during these difficult financial times,” Vander Weide said. “I look at this as an investment in the next generation of students, sustaining a talent pool that has a strong global base that will work to address future global challenges.”

To date, \$81,000 has been pledged. The program matches every dollar or euro, thus immensely increasing the impact of each individual gift. Funds raised to date are already generating income, enabling what will be a perpetual stream of support for students from the U.S. traveling to France and students from France traveling to the Atlanta campus.

Marta Garcia, associate vice president for development at Georgia Tech said the ultimate goal is to reach an endowment level of \$250,000. “This will create a steady, perpetual, and very generous stream of support, ensuring that qualified students, regardless of financial constraints, are able to benefit from experiencing Georgia Tech on two continents,” she said. “The philanthropic spirit expressed by gifts such as John’s is a fine reflection of the unique character of Georgia Tech’s distinguished alumni.” Garcia encourages donors to make a commitment before June 2015, when the Scholarship Challenge results will be

Message from the Club President



Aurelien Cottet, President, Georgia Tech Alumni Club of France

I welcome you all to the third edition of our alumni publication. As you can see, Georgia Tech-Lorraine has continued to “push the envelope” as its academic and research programs continue on their dynamic paths.

Your participation in our alumni events and your personal commitment to our Scholarship Challenge Program represent a growing tradition of alumni engagement that keeps us connected and enables us to share in the pride we feel as alumni of Georgia Tech.

I will be watching Georgia Tech’s women’s basketball team play in Paris in August, with some of you fellow alumni. We will cheer them on, with a shared pride in our association with this great university. Go Jackets!

Aurelien Cottet

President, GT Alumni Club of France

announced at the 25th Anniversary of Georgia Tech-Lorraine.

To make a commitment to the Fund, payable over five years by credit card, please visit www.georgiatech-metz.fr/scholarshipchallenge.

Alumni Spotlights

Mat Hans, MSECE, 1992; PhD ECE, 1998

Master of Science in Engineering, École Supérieure d'Electricité (Supélec), 1993

Mat Hans was born in Grenoble in the south of France, where he spent his early childhood. When he was 8, his family moved to Binghamton, N.Y., where his father, who worked for IBM, was assigned. Hans spent three formative years of his life there, learning English and attending an American school.

When he returned to France, he was so “Americanized” he had to re-learn French. He attended French lycee, then course preperatoire, and ultimately ended up at Supélec. His affinity for the U.S. and long-time desire to return there led him to enroll in the double degree program at Georgia Tech-Lorraine, where he earned his master’s degree in 1992. Upon completion of his dual degree program in 1993, Hans came to Georgia Tech’s Atlanta campus to work on his doctorate.

He had returned to his “second home” 22 years after leaving the U.S. as a

child. He fully embraced this experience, pursuing his doctorate in digital signal processing (DSP), studying under the “legendary” Professor Ron Schafer.



During his graduate studies, Hans was able to experience life in diverse corners of the U.S., doing internships in both Palo Alto, Calif., and Boston, Mass.

If these experiences did not seal the deal for making his home in the U.S., meeting

his future wife, a University of Georgia student of veterinary medicine, did! He was fortunate to secure a position with Hewlett Packard, whose offer of employment included their commitment to sponsor him in obtaining permanent resident status.

Hans continued working for Hewlett-Packard until 2005 when he joined Motorola, where he ultimately served as director of commercialization. He now serves as senior vice president of product commercialization at DTS Inc. He and his wife Tricia and their three children live in southern California. His immersion into U.S. culture culminated in August 2012, when he became a naturalized American.

“Georgia Tech-Lorraine definitely opened many doors for me, which I was so ready to walk through,” said Hans. “This experience brought the concept of global engagement to life for me.”

Dayanna Palacios, MSEE, 2012

Master Recherche en Génie Electrique, Ecole Supérieure d'Electricité (Supélec)

In 2006, Dayanna Palacios left her home country of Ecuador for the first time to pursue her undergraduate studies at Georgia Tech in the U.S. For the next four years, she experienced a robust and successful undergraduate experience, graduating with highest honors in 2010. She entered the graduate program in electrical engineering right after graduation and decided to earn a second master’s degree from Supélec.

Her program of study landed her at the Paris campus, which she enjoyed immensely. She had a rudimentary knowledge of French when she arrived, and one year later she returned home

essentially fluent. Now Palacios can boast complete fluency in three languages—Spanish, English, and French—an accomplishment of which she is rightfully proud.

During her studies in France, she discovered the perfect niche for her area of specialization, power systems-nuclear energy, with France supported nearly 80 percent by this power source. Upon completion of the program, she returned to Atlanta to seek employment. She interviewed with Enercon Services and was extremely impressed with the company. At the conclusion of the interview, she was informed that her non-citizen



status would be an obstacle to being hired. She left greatly disappointed, feeling that the “perfect job” had eluded her.

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Alumni Spotlights *(continued)*

She continued her job search, and received a call from Enercon Services shortly thereafter, and was “stunned” to hear that they had decided that they would sponsor her to obtain permanent residency status. This is an expensive and time-consuming process taken by companies when they want to recruit exceptional talent.

Palacios’ story is still very young, as her professional career has only just begun. But she fully appreciates how the opportunity to live and study in France has enriched and deepened her, academically, professionally, and personally.

She eventually aspires to start her own company in power systems. “I know

that because of my knowledge of such diverse cultures and my language skills, my horizons are vast,” Palacios said. From the young lady who first ventured from her home in South America six short years ago, she has indeed come a long way. And the best is yet to come.

First Student to Complete Global Engineering Immersion Program

Maëlle Buisson MSECE, 2013

Formation d’ingénieur generaliste, Supélec, Paris, 2012

MMaëlle Buisson has the distinction of being the very first student to earn a master’s degree in electrical and computer engineering combining studies in three different Georgia Tech campuses — Lorraine, France; Shanghai, China; and Atlanta, Georgia, U.S.A. — through the Global Engineering Immersion Program (GEIP). The GEIP is a 12-month master’s program that allows students to spend a semester in Europe, Asia, and the United States.

Buisson is French. She was born and raised in Saint Denis, just outside Paris. After her “Classe Préparatoire,” she entered the graduate program

in electrical engineering at Supélec, one of GTL’s partner universities, and the most prestigious electrical engineering program in France. There she heard about the double degree program with Georgia Tech-Lorraine and seized the opportunity to earn a second master’s degree from another prestigious university in the U.S.

The GEIP provided Buisson the perfect venue for the international experience she sought. “How wonderful it was to find this opportunity to study in China as well as the U.S.,” she said.



Buisson was exposed to a veritable whirlwind of cultural experiences after leaving France, as she came first to Atlanta, and then to Shanghai. “My little French world has opened up to embrace the whole world,” Buisson said. “I just can’t believe that I have been able to experience life in these two drastically different cultures.”

Corporate Announcements



World Leader in Mineral-Based Specialty Solutions for Industry

The group transforms a unique range of minerals to deliver essential functions such as heat resistance, conductivity, and barrier effect, which are essential to its customers' products and manufacturing processes. Innovation is an essential vector of the group's organic growth and an integral part of the 2012-2016 strategic plans. Research and Development teams design new processes, technologies, and products, in cooperation with marketing teams which



continually monitor market growth and opportunities for our minerals.

Innovation strategy is based on a team of 300 scientists and technicians from 28 research centers, which are made up of eight principal centers and 20 regional laboratories. Each activity is in charge of generating new products and processes under decentralized organization structure. The greater

Proppants-A Growth Driver

Proppants are used to operate non-conventional oil and gas deposits, which have great growth potential in the United States. As propping agents, their role is to keep open the cracks created by hydraulic pressure in rocks containing hydrocarbons. After identifying the market's potential, IMERYS developed a range of ceramic proppants that meet its customers' highly diverse needs. To meet sharp annual growth in demand, in 2011 the group built a new ceramic proppants plant in Georgia (USA) that came on stream in 2012.

innovation efforts are reflected in intellectual property activities, with 37 new patent applications in 2012.



MICROSOFT Introducing Xbox Music: The Ultimate All-in-One Music Service

Today, people need to use multiple music services to get exactly what they want. There are download-to-own music services, Internet radio services, and subscription services that allow an individual to consume all the music one would want. But, as more music services have emerged, it's

become harder than ever for consumers to enjoy the music they want — and to experience it the way they want it, on any device. Whether it's music purchased on a smartphone, a music app on a tablet, listening to songs through the living room TV, or turning to Internet radio on a PC at work, the music consumers love is scattered across different services. Enjoying music today requires too much work.

To solve this problem, Microsoft Corp. is introducing Xbox Music, the first all-in-one music service that gives consumers the freedom to stream custom-created playlists for free, subscribe to all the

music they want or download-to-own their favorite songs. Through the power of the cloud, it effortlessly integrates the music experience across a tablet, PC, phone, and TV. With more than 30 million songs in the global catalog, Xbox Music began rolling out around the world in October 2012 on Xbox 360, Windows 8, Windows RT PCs and tablets, Windows Phone 8, and additional platforms including Xbox One later.

Most of the development for the Xbox Live Music service is done in the Microsoft Engineering Center in Paris, headed by Jamel Gafsi.



A History and Culture of Science and Innovation

Employing approximately 120,000 people of 140 nationalities working in more than 85 countries, including more than 160 Georgia Tech and Georgia Tech-Lorraine alumni, Schlumberger is the world's leading supplier

of technology, information solutions, and integrated project management services for the oil and gas industry, from exploration through production.

With 25 R&D facilities around the world, Schlumberger is committed to developing innovative technology that adds value to our customers' operations. Every year, more capital is invested into R&D by Schlumberger than by all other oilfield services companies combined.

Added to the Schlumberger list of innovations in 2013 is DigiScope* slimhole measurements while drilling (MWD). MWD technologies measure physical properties such as pressure, temperature, and wellbore trajectory in 3D space while extending a wellbore. DigiScope MWD transmits high-quality data to surface, enabling real-time reservoir description and geosteering in land, extended-reach, and deepwater wells.

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Corporate Announcements *(continued)*

“DigiScope MWD transmits real-time drilling optimization and formation evaluation data at high physical bit rates of up to 36 bps, minimizing rate of penetration restrictions in the deepest onshore and offshore wells,” said Steve Kaufmann,

president, Drilling & Measurements. “The powerful tool telemetry is six times faster than traditional MWD services as proven with more than 200,000 feet drilled in the most challenging formations across four continents in the last three years.”

Schlumberger plans to recruit more than 5,000 graduates from engineering, science, geoscience, business, finance, and HSE fields in 2013.

To learn more about working for Schlumberger, visit careers.slb.com.



The Microwave Vision Group (MVG), a specialist in electromagnetic wave testing solutions, has launched the new SG 24, an improved version of its flagship multi-probe measurement system, which is specially designed to respond to high speed protocols such as 4G and WiFi.

With the development of new high speed protocols, wireless signals have become increasingly complex and the challenge to measure these signals has intensified. MVG has taken on the challenge and engineered the new SG 24 system with increased measurement sensitivity. This

advancement allows manufacturers to easily test mobile devices with high data throughput such as for LTE, WiFi 802.11a and WiFi 802.11n protocols.

“The improvements allow for both higher power in the center of the arch and better sensitivity, increasing the scope of measurement possibilities for manufacturers aiming to develop mobile devices with recent and future technologies,” said Nicolas Gross, applications director of Microwave Vision.

MICROWAVE VISION Group is a leading global manufacturer of antenna test and measurement systems for the telecommunications, automotive, defense and aerospace industries, as well as for academic research. The company brings together the electronic scanners

developed by SATIMO using its “microwave vision” technology, ORBIT/FR positioners and electromechanical scanners, AEMI absorbing materials, and now REMC specialized shielded chambers. MVG is an international company.



The SG 24 can perform both TRP and TIS measurements according to the CTIA 3.2 test plan.

For more information, visit www.microwavevision.com
Learn more about the new SG 24 at www.satimo.com/content/products/sg-24



The Supply Chain Commerce – An Imperative for Omni-Channel Success

Manhattan Associates has a 23-year history of providing global supply chain services to more than 1,200 customers worldwide. Supply chain optimization is at the core of Manhattan Associate’s strategic marketing leadership.

At its 2013 customer annual conference, Manhattan Associates introduced Supply Chain Commerce. This tool for executing

a successful omni-channel strategy represents a fundamental change in how two historically separate functions come together to create unprecedented growth opportunities for buyers and brands.

Two unique capabilities of Supply Chain Commerce were outlined that are expected to optimize customer experiences and improve brand loyalty.

Network-wide selling infrastructure: This provides customers a responsive framework for accessing desired products according to their unique requirements. Customer-centric planning, network inventory availability, enterprise-wide order orchestration, and flexible fulfillment will be achieved across all demand channels.

End-to-end control of inventory distribution: Through intelligent forecasting, lean replenishment, cost-effective transportation, and scalable inventory management, every component of the distribution network is optimized. This results in optimal customer service and support and flawless execution from end-to-end.

The supply chain industry strives to meet customers’ needs and expectations and, in so doing, promotes customer loyalty and confidence. This is the imperative that drives Supply Chain Commerce.

For more information: www.manh.com



Georgia Tech-Lorraine Students Hosted by Local French Families

For the third consecutive year, local families in Metz, France, gathered with students to give them an opportunity to meet other Metz residents and enjoy an evening of hospitality and cultural exchange. The evening began with the 15 families and 20 students gathering at Georgia Tech-Lorraine for an initial “meet and greet” and photo opportunities. Following this, the newly acquainted groups departed for their respective evenings out. Each family offered its own unique brand of hospitality, which ranged from four-course home cooked meals, to dining at a local restaurant or café. One family offered its students a decidedly American activity — bowling.

Regardless of the venue, each student was treated to the warmth and hospitality of a family in Metz and had the opportunity to make new friends and gain a glimpse into the personal lives of their French hosts.

Rachel Puechner, a chemical and biomolecular engineering student, said, “I loved being able to peek into their daily lives for that moment. Meeting the children, sharing an amazing dinner, and having them make me feel like a part of the family was something that I am so grateful for having experienced and will never forget.”

Flash Mob

Georgia Tech-Lorraine students delighted the Metz community with a spontaneous flash mob performance to the upbeat song “Good Time” by Owl City and Carley Rae Jespen. Performed in the Place de la Republique in downtown Metz on July 19, 2012, this uniquely American spectacle was a surprise treat for passersby. The flash mob was organized by Kelsay Lewis, an undergraduate computer science major. “I had so much fun doing this with the other GTL students!” she said. “I’ll always remember dancing there, in the middle of town with my fellow students, all dressed in red, white and blue, signifying both France and America.”

The flash mob was captured on YouTube and can be viewed at www.youtube.com/watch?v=e9kUyFv_Ivo.



Habitat for Humanity and Habitat et Humanisme Address Urban Poverty

Last fall, students from Georgia Tech-Lorraine gathered to participate in a housing restoration project in Thionville as part of Habitat et Humanisme, a French NGO that assists low-income families in finding housing.

At the same time, a parallel project took place in Atlanta, where volunteers from the French community there participated in a local Habitat for Humanity housing construction project. Habitat for Humanity is an ecumenical Christian nonprofit organization that builds homes for people in need.

Following completion of the respective housing projects, a public conference took place at Georgia Tech on Nov. 5 titled “The Fight Against Urban Poverty, a Priority in France and the United States,” featuring guest speakers from both Atlanta Habitat for Humanity and Habitat et Humanisme.

This conference took place as part of France-Atlanta 2012, a two-week program co-sponsored by the Consulate General of France in Atlanta and Georgia Tech. With the banner of “together towards innovation,” France-Atlanta offered events and symposia in scientific,



humanitarian, business, and cultural domains. This program has been jointly sponsored since 2010 by the consulate general of France in Atlanta and Georgia Tech, under the high auspices of the ambassador of France to the United States, the governor of Georgia, and the mayor of Atlanta.