



GLOBAL
ALUMNI GATHERING

PARIS, FRANCE

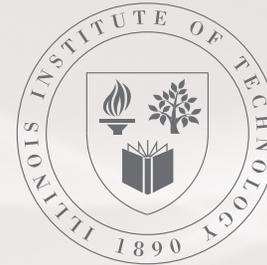
June 30–July 2, 2017



"Global Challenges of the 21st Century"



ILLINOIS INSTITUTE OF TECHNOLOGY



Welcome!

Thank you for participating in this international gathering. The topics covered in the symposium—energy, health/wellness, security, and water—were chosen because they mirror Illinois Tech's Engineering Themes and are areas in which we can impact the entire global population.

With the inspirational backdrop of the beautiful city of Paris, we will celebrate the impact Illinois Tech, our graduates, and our partner schools' graduates have had on our world on a global scale. We have helped to change the world in our 127-year history, and our alumni will continue to have a profound impact on the future of technology and innovation. Illinois Tech will continue to produce graduates with the skills, creativity, innovative thinking, and entrepreneurial spirit to redefine how we work, play, communicate, and improve our health. Our partner schools do the same. Together, we are improving our world.

We hope this gathering will empower you with new ideas, new professional relationships, and a closer bond with Illinois Tech alumni, near and far. And when you return home, we hope you will remain involved with Illinois Institute of Technology, the Alumni Association, or your own alma mater.



Alan W. Cramb
Illinois Institute of Technology,
President



Raj Rajaram (LAW '91)
Alumni Association Board of Directors,
Event Chairman

FRIDAY, JUNE 30

- **Guided Tour—City Hall, Paris**
2–3 p.m. (Group 1) (arrive at 1:45 p.m.)
3–4 p.m. (Group 2) (arrive at 3 p.m.)

*Place de l'Hôtel de Ville,
3 rue de Lobau | 75004 Paris*

- **Welcome Reception and Dinner**
7–11 p.m.

Keynote Speaker: Michael Graff (CHE '77), Chairman and Chief Executive Officer of American Air Liquide Holdings, Inc.
*Salon des Arts et Metiers, L'Hôtel des Arts et Métiers
9 bis avenue d'Iena | 75116 Paris*

SATURDAY, JULY 1

- **Symposium**
8:30 a.m.–12:30 p.m.

Panel Presentations
*Salon des Arts et Metiers, L'Hôtel des Arts et Métiers
9 bis avenue d'Iena | 75116 Paris*

Emcee: John Bilson, John and Mae Calamos Stuart School of Business
Dean Endowed Chair

SPEAKERS:

Energy—Moderated by Russell Betts, Dean of College of Science

The innovative generation, supply, and use of energy transcends all fields. Tomorrow's innovators will need a well-rounded understanding of the technical, social, and economic impact that energy has on their work.

Michael J. Graff (CHE '77)—Chairman and Chief Executive Officer of American Air Liquide Holdings, Inc.

Anil Ahuja—President, CCJM

Jose Dominguez Abascal—Professor, Universidad de Seville, Spain

Pinakin S. Patel (M.S. CHE '77)—Energy Advisor and Consultant (ET2M)

- **SYMPOSIUM SPEAKERS** *(continued)*

Health/Wellness—Moderated by Natacha DePaola, Carol and Ed Kaplan Armour College Dean of Engineering

Health has no boundaries; therefore, the challenges in this field are globally important. By creating medical technology that is accessible to all, we can empower doctors and scientists to prevent, diagnose, and treat people in cities and small towns around the world.

Sylvain Gioux—Professor, Telecom Physique Strasbourg

Mohamed Rebiai—Adjunct Professor, ENSEA; Founder and CEO, Streamvision

Kostas Giokas—Senior Researcher, Streamvision

Security—Moderated by Bob Carlson, Dean of School of Applied Technology

Security becomes more complex as technology becomes more sophisticated. We need to work to identify and prevent vulnerability and be ready to respond when our security is threatened.

Lori B. Andrews—Dist. Professor of Law, Chicago-Kent College of Law

Thomas Vonier—President, AIA

Water—Moderated by Hal Krent, Dean of Chicago-Kent College of Law

The engineering of water is a tremendous undertaking that involves delivering, cleaning, securing, and reclaiming our world's most abundant—yet endangered—resource.

Vasudevan “Raj” Rajaram (LAW '91)—Senior Project Manager, CCJM

Derek J. Wold (M.S. ENVE '02)—Executive Vice President, Baxter & Woodman, Inc.

- **Optional Independent Sightseeing in Paris**
Afternoon

- **Alumni Associations Meeting**
4–5 p.m.

Leaders of the various alumni chapters in attendance
Hotel Le Derby Alma Lobby, 8 Avenue Rapp | 75007 Paris

- **Dinner Cruise on the River Seine**
8–11:30 p.m.

Compagnie des Bateaux Mouches

Boat: Le Zouave

Port de la Conference, Pont de l'Alma, Rive droite | 75008 PARIS

SUNDAY, JULY 2

OPTIONAL SIGHTSEEING

SIGHTSEEING OPTION 1 GIVERNY—CLAUDE MONET'S GARDEN & HOUSE

Experience the world of Claude Monet, the most important Impressionist painter. Tour the lush gardens at Giverny: the Clos Normand Garden, blooming with flowers, and the Japanese Water Garden. Explore Monet's studio and the house he lived in for more than 40 years.

Transportation: Train Intercity

Cost: approximately 15 Euros one way, 30 Euros round trip (individuals will buy tickets at the station)

Travel Time: approximately 50 minutes

Departure: from Gare St. Lazare Station, 13 Rue d'Amsterdam 8:19 arriving at 9:05

Return: 14:53 arriving 15:40

Garden and House Tour

Cost: 10.20 Euros, adults and seniors; students 7.20 Euros; children under 7 free (individuals will buy tickets on site)

Visit giverny.org/gardens/fcm/visitgb.htm to learn more.

Lunch can be purchased at a number of nearby establishments.

SIGHTSEEING OPTION 2 CHÂTEAU DE VERSAILLES (PALACE VERSAILLES)

Explore Versailles through the centuries and discover the history of this famous palace and its estate.

Transportation: Train RER C

Cost: 3.55 Euros one way, 7.1 Euros round trip (individuals will buy tickets at the station)

Travel Time: 41 minutes

Departure: from Gare d'Austerlitz (85 Quai d'Austerlitz) 8:24 arriving at Gare de Versailles Chateau (Rive Gauche) at 9:05

Return: return trains depart every 15 minutes

Château De Versailles Entry

Cost: 27 Euros for Passport ticket (includes an audio-guide and admission to the palace, the royal stables, the Palaces of Trianon and the Estate of Marie-Antoinette, the temporary exhibitions, the gardens, and the Musical Fountain Show)

Visit en.chateauversailles.fr/ to learn more.

Lunch can be purchased on site or at a number of nearby establishments. Visitors also may picnic on site.



Michael J. Graff (CHE '77)

**EXEC. VP & EXEC. COMMITTEE MEMBER, AIR LIQUIDE S.A.
CHAIRMAN & CEO, AMERICAN AIR LIQUIDE HOLDINGS, INC.
EXECUTIVE VICE PRESIDENT, AMERICAS HUB**

Mike Graff (CHE '77) serves as executive vice president and executive committee member of Air Liquide S.A., chairman and chief executive officer of American Air Liquide Holdings, Inc., chairman of the board of Airgas, and board member of Air Liquide Sante Intl. As head of the group's Americas Hub, Graff leads business operations for North, South, and Central America, as well as the Caribbean, from its Houston headquarters. He is also the global chairman of the group's Electronics business line and has oversight for safety and industrial systems worldwide.

Graff is a senior executive with over 30 years of experience in the energy, chemicals, and polymers industries across the Americas, Asia, and Europe, beginning his career with Amoco and BP, plc.

Graff serves on the board of directors of Westlake Chemical Corporation and on a number of industry and civic boards including the American Chemistry Council, Bipartisan Policy Center's American Energy Innovation Council, and Children at Risk, and he is an active member of the Rice University Baker Institute, Junior Achievement, and the Bush Literacy Foundation.

Graff holds a bachelor's degree in chemical engineering from Illinois Institute of Technology and a master's degree in chemical engineering from Purdue University, and has completed post graduate programs in business and executive management. He was a 2016 recipient of the Illinois Tech Alumni Association's Professional Achievement Award and is a member of both the university's Board of Trustees and the Armour College of Engineering Board of Advisors.

Anil Ahuja

PRESIDENT, CCJM

Anil Ahuja is president of CCJM, a multi-disciplinary engineering firm providing Smart City and Smart Building designs, major water and wastewater system engineering, and bridge and highway design and rehabilitation. In 2014 he launched the CCJM Smart Cities & Energy Unit emphasizing the company's outstanding expertise in Smart Buildings and integrating the entire urban environment in a holistic approach to engage more in the creation of smart and sustainable buildings, neighborhoods, and entire cities.

In 1997 Ahuja authored *Building Systems Engineering—Integrated M/E Design*, a Sustainable Green Technology volume. His new book, *Integration of Nature & Technology for Smart Cities*, extends the topic of the previous publication from the building to the entire city, discussing new trends and paradigms in the smart buildings and city sectors.

Ahuja has over 30 years' experience in building systems design, design management, construction management, commissioning, and operations and maintenance.

José Domínguez Abascal

**PROFESSOR, UNIVERSIDAD DE SEVILLA
CHAIRMAN, ABENGOA**

José Domínguez Abascal has been a professor at the University of Seville since 1982 where he served as vice rector from 1990–1992 and dean of engineering from 1993–1998. From 2004–2008 he was secretary general of universities, research, and technology in the regional government of Andalusia. He was CTO of Abengoa, a NASDAQ listed company, from 2008–2015 and chairman of the company from 2015–2016. Now he is back to university.

Abascal is a member of the European Academy and member of the Royal Academy of Engineering of Spain. He is a fellow of the American Society of Civil Engineers (ASCE). He was awarded the National Research Award in Engineering and the National Award for Restoration of Cultural Heritage.

Abascal is the author of two books published in the United States and United Kingdom, one of them translated into several languages, and more than two hundred international research publications.

Pinakin S. Patel (M.S. CHE '77)

**ENERGY ADVISOR AND CONSULTANT (ET2M)
FORMER DIRECTOR, FUEL CELL ENERGY INC.**

Pinakin Patel (M.S. CHE '77) has been actively engaged in the alternate energy arena for over 40 years and serves on the advisory boards of several companies in the United States and Canada. He is the recipient of special recognition awards from the U.S. Department of Energy, the U.S. Department of Defense, the states of Connecticut and California, and reputable organizations such as the American Society of Mechanical Engineers and the Electrochemical Society. He has worked in technology to market for all types of fuel cells, electrolyzers, and the biomass waste to energy field. His major contribution is the development of a Tri-generation system for electric cars and grid-support needed for solar and wind energy. Tri-generation power plants are water independent and scalable to the multi-megawatt level. He has more than 30 patents and over 200 publications and invited presentations resulting from \$500 million in research and development.

His technical innovations include development of internal reforming fuel cell technology for co-production of power and syngas, advance separation technology for hydrogen co-production, and solid state compressors for hydrogen. Patel led collaborative research and development efforts with many reputed international companies such as BASF, General Motors, Exxon, Pacific Gas and Electric, Fluor Engineers, Westinghouse, Sanyo and Mitsubishi in Japan, Haldor Topsoe and Elkraft Power Co. in Denmark, and Global Thermal Electric in Canada.



Sylvain Gioux

PROFESSOR, TELECOM PHYSIQUE STRASBOURG

Sylvain Gioux has been a tenured project leader at the CEA-LETI research institute in Grenoble, France, an adjunct assistant professor at Boston University, and an assistant professor at the Beth Israel Deaconess Medical Center and Harvard Medical School.

Gioux is currently a professor in biomedical engineering at the University of Strasbourg and the ICube laboratory, where he leads novel developments related to photonics applied to health and biology. In particular, his research is focused on the development of novel real-time optical imaging methods for surgical guidance that have a potential to impact patient care.

Mohamed Rebiai

ADJUNCT PROFESSOR, ENSEA FOUNDER AND CEO, STREAMVISION

Mohamed Rebiai has been president and chief executive officer of Streamvision since 2003. Previously, he was managing director of CSTI, a subsidiary of CS Communications & Systèmes Group. In addition to this role, he was also leading the multimedia branch of the CS Group. Rebiai has been nominated to the position of deputy general manager of Advanced Audio Video Systems, a company specializing in the design and implementation of systems and software dedicated to the broadcast TV market.

Rebiai started his career as senior lecturer in the University of Technology, Compiègne (UTC). Following his work at UTC, he joined Thomson Broadcast in 1987, where he held several leading positions. Rebiai then was nominated to the position of search managing director of the Thomson Broadcast Group.

Rebiai holds six international patents and has written more than 40 published scientific articles.



Lori B. Andrews

**UNIVERSITY DISTINGUISHED PROFESSOR,
CHICAGO-KENT COLLEGE OF LAW
DIRECTOR OF THE INSTITUTE FOR SCIENCE, LAW,
AND TECHNOLOGY, CHICAGO-KENT COLLEGE OF LAW**

Lori B. Andrews is a distinguished professor of law at Illinois Tech Chicago-Kent College of Law and director of the university's Institute for Science, Law and Technology. She has been a visiting professor at Case Western Reserve University School of Law and at the Woodrow Wilson School of Public and International Affairs at Princeton University.

The *ABA Journal* describes Andrews as “a lawyer with a literary bent who has the scientific chops to rival any CSI investigator.” She is an internationally recognized expert on emerging technologies. She is the author of more than 150 articles on biotechnology, genetics, and social networks and three novels in addition to her nonfiction work. Her most recent book is *I Know Who You Are and I Saw What You Did: Social Networks and the Death of Privacy* (2012). She has created a Social Network Constitution.

Andrews' path-breaking litigation about technologies caused the *National Law Journal* to list her as one of the “100 Most Influential Lawyers in America.” In 2002 she won the National Health Law Teachers Award. In 2005 she was made an Honorary Fellow of the American College of Legal Medicine for her “distinguished achievement in the field of legal medicine.”

Thomas Vonier

PRESIDENT, AMERICAN INSTITUTE OF ARCHITECTS

As AIA president Thomas Vonier is devoted to stimulating public demand for architecture and leading efforts to promote public buildings and spaces as vital elements of national infrastructure. Vonier has a sustained record of global engagement in the challenges of urbanization and climate change, advancing the values of design and architecture in international settings.

Based in Paris and Washington, D.C., Vonier is a board-certified security professional. His practice serves public and private clients with global industrial operations. He also works with municipalities to improve urban security. He led groundbreaking research for U.S. embassies and consulates, resulting in landmark recommendations to the secretary of state and a new generation of embassy design criteria. Vonier was international advisor to the Federal Triangle planning project, which received a Presidential Design Award.

Vonier served as the U.S. liaison delegate to the Architects' Council of Europe in Brussels, and he was elected in 2014 to serve as secretary general of the International Union of Architects in Paris, leading in its work with UNESCO, the WTO, and various world heritage, habitat, and climate organizations.



Vasudevan “Raj” Rajaram (LAW '91)

SENIOR PROJECT MANAGER, CCJM

Vasudevan “Raj” Rajaram (LAW '91) earned his J.D. from Illinois Institute of Technology Chicago-Kent College of Law in 1991. In 1986, he founded Midwest Engineers in Chicago, and currently is senior project manager for CCJM Engineers, Ltd.

Rajaram is a geotechnical and environmental engineer with 42 years of experience in sustainable environmental management. He has completed several major projects related to underground construction, hazardous waste management, wastewater treatment and recycling, and municipal solid waste management, including the Deep Tunnel project in Chicago. Rajaram was a director of the Center of Transformation of Waste Technology, and was involved in the Hammond Wastewater Treatment Plant for beneficial utilization of high-nitrate treated wastewater.

He has authored over 40 papers and published four books. His passions include recycling every drop of water for beneficial use (especially the recycling of treated wastewater for agriculture) and preventing contamination of our water resources by industrial and municipal waste.

Derek J. Wold (M.S. ENVE '02)

EXECUTIVE VICE PRESIDENT, BAXTER & WOODMAN, INC.

Derek J. Wold (M.S. ENVE '02) earned an M.S. in environmental engineering from Illinois Institute of Technology in 2002. Currently he is an executive vice president at Baxter & Woodman Inc. Consulting Engineers and holds a seat on the board of directors. Wold joined the firm in 1996 and is the firm's Wastewater Group leader. He manages the firm's water and wastewater engineers, located in nine offices throughout Illinois, Wisconsin, and Florida.

Focusing on implementing energy efficiency improvements in water and wastewater process design projects, Wold has been instrumental in providing energy reduction solutions to wastewater agencies throughout northeast Illinois. He has received national recognition, being selected to present at the Water Environment Federation Technical Exhibition and Conference in 2011, 2012, and 2015.



Thank you to our event hosts:

- **Vasudevan “Raj” Rajaram (LAW '91)** – International Committee Co-Chair and Global Gathering Planning Chair
- **Perri Irmer (ARCH '81)** – International Committee Co-Chair and Global Gathering Planning Co-Chair
- **Vanita Misquita (Ph.D. PSYC '98)** – Director of Overseas Programs, Office of International Affairs, and Global Gathering Planning Co-Chair
- **Charlotte Leroy (LL.M. ICLP '11)** – President, Europe Alumni Association and Local Event Host

If you need assistance while in Paris, feel free to contact:

- **Vanita Misquita (Ph.D. PSYC '98)**
Director of Overseas Programs,
Office of International Affairs, Illinois Tech Europe
Phone: +33 6 15 20 37 16
- **Charlotte Leroy (LL.M. ICLP '11)**
Europe Alumni Association President
Phone: +33 6 62 21 73 15

THANK YOU
TO OUR



GLOBAL
ALUMNI GATHERING SPONSORS

PLATINUM | \$15,000

Air Liquide: Michael J. Graff (CHE '77)  Air Liquide
creative oxygen

BRONZE | \$1,000

CCJM: Anil Ahuja, President &
Vasudevan “Raj” Rajaram (LAW '91) 

Adrian Nemcek (EE '70)

Threshold Acoustics: 
Dawn Schuette (ARCH CRP '92, M.S. CRP '93) threshold

PATRON | \$500

Business Excellence, Inc.: 
Manu Vora (M.S. CHE '70, Ph.D. '75)

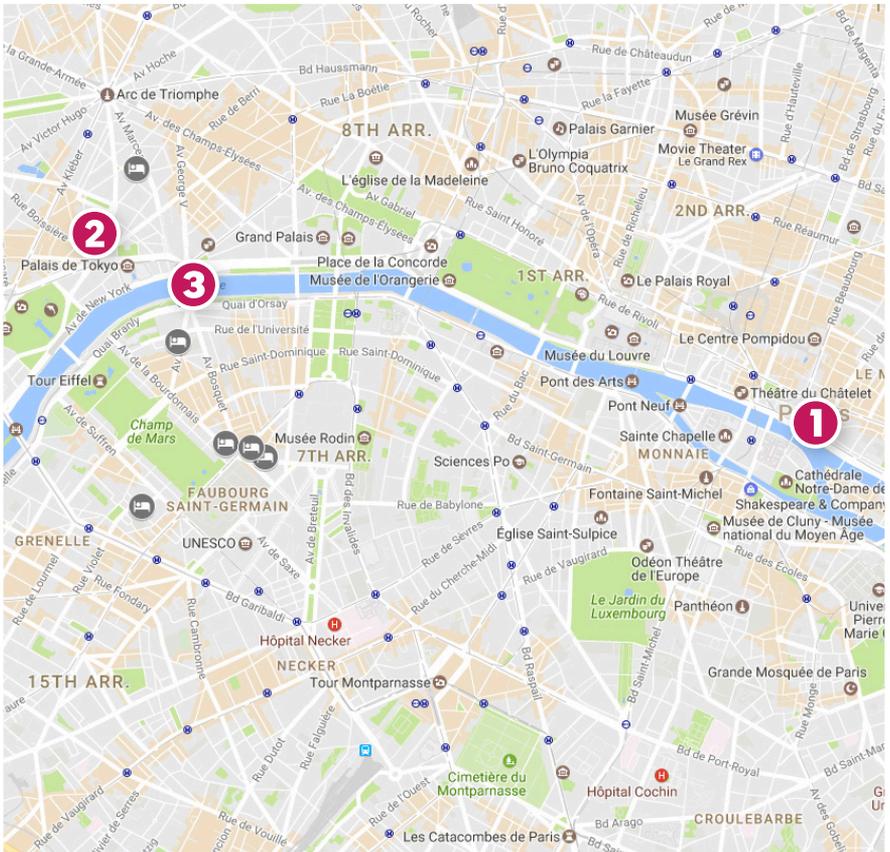
Carbon Arrow: Arun Prakash (AE '99) 

Bob Hoel (BE '70)

Ann Trandai (EE '89, M.S. '93)



MAP



- 1 Place de l'Hôtel de Ville (City Hall)
- 2 Les Salons de l'Hôtel des Arts et Métiers
- 3 Pont de l'Alma

Visit alumni.iit.edu/global-gathering-2017-map for an interactive map.