Quarks and a Quest
21st Century Research at CERN & ITER
Geneva & Aix-en-Provence
with Adam Cohen, Princeton Plasma Physics Lab
September 5 - 13, 2015
Dear Princetonian,

The quest for unlimited energy is on and Princeton University, through its association with the Department of Energy’s Princeton Plasma Physics Laboratory (PPPL), is on the cutting edge of research in the most important questions of fundamental and applied science of our time. Join nuclear engineer and materials scientist Adam Cohen, Chief Operating Officer and Deputy Director at PPPL, as he unlocks not only the secrets of 21st-century science, but also the doors to some of the most promising research centers in the world.

The European Organization for Nuclear Research (CERN), widely considered the world’s most advanced center for particle physics, has become the critical center for scientific research in Europe. Through special arrangement through PPPL, see these amazing research facilities up close and learn about the fundamental research undertaken there. During a beautiful drive from Geneva to Aix-en-Provence, stop for a visit at the European Synchrotron (ESRF), the most powerful synchrotron radiation source in Europe where thousands of researchers travel to conduct exciting experiments at the cutting edge of modern science. Near Aix-en-Provence, join a guided tour of the construction site at ITER—an international project designed to build the “next generation” of experimental fusion reactor based on the tokamak concept. Again through special permissions obtained by PPPL, visit the existing buildings and the portion of the site in-progress and learn about the culmination of decades of fusion research, design work, and complex negotiations that have led to ITER’s large-scale scientific experiment aiming to demonstrate the technological and scientific feasibility of fusion energy.

Interspersed with these scientifically-focused visits will be time spent considering other cultural aspects of the region. Explore the historic and architectural significance of Geneva’s Old Town and the international presence of the United Nations. Experience the charms of Aix-en-Provence, including a visit to an area wine château. And enjoy time set aside for independent exploration—and selecting your own culinary adventures—all while benefiting from the exclusive access and ease of movement that group travel affords.

We hope your schedule allows you to join Princeton on this exclusive exploration of the grand machines scientists are using to study ultra-small particles that may reveal answers about the nature of the universe and the possibility for a new form of clean energy. Please contact the Princeton Journeys team today at journeys@princeton.edu or (609) 258-8686 to reserve your space.

With kindest regards,

Leslie J. Rowley
Executive Manager, Princeton Journeys

PRINCETON STUDY LEADER

Adam Cohen, Chief Operating Officer and Deputy Director at the Princeton Plasma Physics Laboratory, will serve as Princeton Study Leader for this program. After enjoying a rich and varied career that included being in the nuclear submarine service in the U.S. Navy, working as chief operations officer at Argonne National Laboratory, and serving as senior science adviser at the U.S. Department of Energy, Dr. Cohen joined PPPL in 2009, overseeing functions ranging from engineering and project management to finance and communications. He earned his Ph.D. in materials science from Northwestern University. On this Journey he hopes to discuss with travelers the importance of both basic and applied research in physics and to open doors through his connections at Europe’s finest facilities to learn, alongside travelers, the latest developments in research.
Sat. 9/5: Departure from U.S.A.
Depart the United States on independent overnight flights to Geneva, Switzerland.

Sun. 9/6: Arrival in Geneva
Arrive in Geneva and take independent transfers to the Hotel Warwick. This afternoon, embark on a guided walking tour of the historic Old Town. Admire the city’s Saint Peter’s Cathedral, an architectural hybrid constructed over centuries in Romanesque, Gothic, and Greco-Roman Style. Walk by the Town Hall, seat of the city’s government, and the Reformation Wall, dedicated to the leaders of the Reformation. Enjoy a festive welcome dinner of Swiss specialties in celebration of the exciting journey ahead.

Hotel Warwick Geneva (D)

Mon. 9/7: United Nations & Museum of History of Science
After breakfast and a morning lecture, take a behind-the-scenes guided tour of the United Nations building, the former home of the League of Nations and the second most important UN building after the New York Headquarters. Enjoy a delectable gourmet lunch at the Vieux Bois restaurant of the Hotel School of Geneva, located close to the United Nations in the beautiful park of Ariana. Visit the Museum of the History of Science housed in one of Geneva’s most beautiful neoclassical buildings, Villa Bartholini, with gorgeous views onto Lake Geneva. See a unique collection of amazing old scientific instruments from various disciplines including astronomy, medicine, meteorology, and physics. Return to the hotel for an independent afternoon and evening.

Hotel Warwick Geneva (B, L)

Tue. 9/8: CERN
The full day is dedicated to visiting CERN, the European Organization for Nuclear Research and the world’s largest particle physics laboratory. Here, scientists unite to study the building blocks of matter and the forces that hold them together. CERN provides the necessary tools, including accelerators that push particles to almost the speed of light and detectors to make the particles visible. Behind-the-scenes access allows for a chance to see the Compact Muon Solenoid and ample time to talk to laboratory scientists. Return to the hotel in the late afternoon with free time to further explore Geneva on your own.

Hotel Warwick Geneva (B, L)

Wed. 9/9: University of Geneva & Martin Bodmer Foundation
Head to the University of Geneva for a special visit to the laboratories of the Physics School of Observatory. After lunch at the university’s campus café, continue on After another morning lecture, take a private tour of the Martin Bodmer Foundation Library and Museum. Designed by Swiss architect Mario Botta, the Bodmer Foundation is one of the most important private libraries in the world, with over 160,000 documents in 80 languages, several hundreds of manuscripts, and ancient cuneiform tablets. The collection also includes an original copy of the Gutenberg Bible and Dante’s Divine Comedy. The remainder of the day is set aside for individual pursuits.

Hotel Warwick Geneva (B, L)
Thu. 9/10: Grenoble’s ESRF & Aix-en-Provence
Depart from Geneva by private motor coach and drive to the town of Grenoble at the foot of the French Alps. Stop at the ESRF (European Synchrotron Radiation Facility) for a guided tour to the experimental hall and beam lines. ESRF is the most powerful synchrotron radiation source in Europe where several thousand researchers conduct experiments in this first-class scientific environment. After an independent lunch at the ESRF cafeteria, continue driving south to Aix-en-Provence. Check in at the deluxe five-star Hotel Roi René and enjoy time to relax and settle in. This evening, gather for a traditional Provençal dinner at a local restaurant.

Grand Hotel Roi René Aix-en-Provence (B, D)

Fri. 9/11: ITER
Embark on a full day visit to ITER, a large-scale scientific experiment intended to prove the viability of fusion as an energy source. Its construction began in 2010 using the financial and scientific resources of several international partners—China, the European Union, India, Japan, Korea, Russia, and the United States. The visit will include a presentation of the project followed by a guided tour of the ITER platform where the scientific facilities are under construction. Enjoy a light lunch at the ITER site. Time-permitting, also visit the nearby CEA (Cadarache Center), which is one of the most important technological research and development centers for energy in Europe with activities that focus on nuclear fission, nuclear fusion, new energy technologies, and research in the field of vegetal biology. Return to the hotel for an evening at leisure.

Grand Hotel Roi René Aix-en-Provence (B, L)

Sat. 9/12: Château la Coste
Drive to the nearby Château la Coste in Le Puy Sainte Reparade for a day enjoying wine, food, art, and architecture in the beautiful surroundings of the French countryside. Tour the Jean Nouvel designed Chai with an introduction to wine making followed by a tasting of the wines produced on the property. Then, savor a lunch buffet of provincial specialties. Enjoy time at leisure to walk through the estate’s grounds to view an assortment of unique installations by famous artists from all over the world such as Richard Serra, Louise Bourgeois, Sean Scully, Andy Goldsworthy, Alexander Calder, and Frank Gehry. Return to Aix-en-Provence and enjoy the remainder of the afternoon at leisure. In the evening, gather for a convivial farewell dinner at a nearby local restaurant to celebrate the end of a fascinating cultural and scientific journey.

Grand Hotel Roi René Aix-en-Provence (B, D)

Sun. 9/13: Departures for U.S.A.
After breakfast, take independent transfers to the Marseille Provence Airport (MRS) for independent flights returning to the United States.

(B)
Tour Price
Land Only: $5,295 | Single Supplement $1,065

Flights
Participants are responsible for all aspects of their air arrangements arriving at the Geneva International Airport (GVA) in Switzerland on September 6, 2015 and departing from the Marseille Provence Airport (MRS) in France on September 13, 2015. Participants are responsible for their own airport transfers. Transportation between Geneva and Aix-en-Provence is included in the cost of the program and is arranged through the operator for all group participants.

Deposit & Final Payment
A deposit of $1,000 per paying participant is required to guarantee participation in the program. This deposit may be paid by check or by Visa or MasterCard. Final payment balance will be invoiced and is due on May 28, 2015 and must be paid by check to ISDI. Registrations will be accepted beyond the deposit deadline on a space available basis with payment in full by check only.

Cancellations & Refunds
All cancellations must be received in writing by ISDI, and are subject to a non-refundable administrative fee of $500 per person. Charges are calculated as of the day notification is received in writing by ISDI. Written cancellation received by ISDI before or on May 28, 2015: full refund less $500 per person administrative fee. Written cancellation received by ISDI between May 29 and July 22, 2015: cancellation charge of 50 percent of tour cost, plus any non-refundable land costs. Written cancellation received by ISDI on or after July 23, 2015: no refund. After the tour has commenced, it is not possible to issue any refunds. No refunds can be issued for occasional missed meals, sightseeing tours, or concerts. No refunds for any unused portion of the tour. If due to weather, flight schedules, or other uncontrollable factors you are required to spend an additional night, you will be responsible for your own hotel, transfers, and meal costs.

Terms & Conditions
International Seminar Design, Inc. (ISDI) acts only as an agent for the participant with respect to transportation, accommodations, and all other services relating to this tour. ISDI, the Office of Alumni Affairs at Princeton University, and Princeton Journeys, and/or their agents assume no responsibility or liability for any act, error or omission, or for any injury, loss, accident, delay or irregularity, which may be caused by any defect in any aircraft, ship, train, bus, or other carrier, or through neglect or default of any subcontractor or other third party, which may be used wholly or in part in the performance of their duty to the participants of the tour. ISDI and the Office of Alumni Affairs and Princeton Journeys reserve the right to cancel any tour prior to departure for any reason including insufficient numbers of participants. ISDI reserves the right to decline to accept or retain any person as a member of the tour at any time. If bookings fall below the minimum required, passengers will be advised of additional costs or itinerary alterations before departure date. All participants will need to sign Terms and Conditions/Responsibility statement, the full text of which can be found at http://alumni.princeton.edu/journeys/terms/.

Insurance
As a service to its travelers, the Office of Alumni Affairs of Princeton University automatically provides all Princeton Journeys participants with basic medical, accident, and evacuation coverage under a group travel insurance policy. It is highly recommended that you supplement this basic protection with your own additional coverage, as well as trip cancellation/interruption or baggage coverage. Information on additional insurance is available and will be mailed from Princeton Journeys upon receipt of your reservation.

University Disclaimer
Princeton University, through its Office of Alumni Affairs and Princeton Journeys, is pleased to provide this service of facilitating travel opportunities for its Alumni and Friends. The Office of Alumni Affairs strives to work with the best tour operators to make available interesting and enriching travel opportunities for the Princeton family. Please note that the University does not conduct tours, nor does it act as an agent for guests interested in tours. Princeton Journeys acts as a facilitator with tour operators, with whom tour participants make arrangements for completing travel, and is pleased to act as a liaison with tour operators should you have any questions or concerns that may arise before, during, or after your tour. Princeton Journeys encourages you to familiarize yourself thoroughly with the tour operator’s cancellation and refund policies, and also to investigate available services such as trip cancellation insurance. The University is not responsible for changes to trips or travel arrangements or for losses or additional expenses resulting from travel.

Tour Price Inclusions
Hotel accommodations as listed in the itinerary; breakfast daily, five lunches, three dinners; two glasses of wine or beer at group dinners; lecture series; services of an ISDI tour manager; land transportation by private motor coach; entrance fees to sites per itinerary; local English-speaking guides; gratuities to local guides and drivers; bottled water daily on motor coach; taxes, service fees, and porterage during group tours; basic medical and evacuation insurance.

Tour Price Exclusions
International airfare, airline taxes, and fuel surcharges; individual transfers to and from the hotel upon arrival and departure; airport porterage; excursions, activities, or meals during traveler’s free time; personal items; phone service; taxis; travel extensions; personal insurance for baggage and tour cancellation; passport fees; visa fees; gratuities for chambermaids; other items of a personal nature.

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Registration Form
September 5 - 13, 2015

Name (as listed on passport)  Princeton Affiliation

Address

City  State  Zip

Daytime Telephone   /   Cell Phone

E-mail Address  please send program specific mailings to my email to receive information more quickly

Number of Persons   /   Amount Enclosed

DEPOSIT BY:  VISA or MASTERCARD   CHECK

Card Number   /   Exp. (mm/yy)

Billing Zip Code (if different from above)

ROOMING OPTIONS (please select)

Double Occupancy (We prefer separate beds)

Single Supplement ($1,065)

I will share a room with

I would like a roommate but will pay the price of the single supplement if one cannot be found.

NAME: ____________________________
SIGNATURE: ____________________________
DATE: ____________________________

Each Participant Must Sign
Registration invalid without signature

Complete and mail to:
Princeton Journeys, John Maclean House, P.O. Box 291, Princeton, New Jersey 08542-0291
Or fax credit card information to: (609) 258-3561

For more information
Contact the Princeton Journeys staff at journeys@princeton.edu or (609) 258-8686

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TOUR HIGHLIGHTS

- Visit the world’s most advanced center for particle physics, the European Organization for Nuclear Research (CERN).

- Discover the European Synchrotron (ESRF), the most powerful synchrotron radiation source in Europe where physicists, chemists, and materials scientists work on the beam lines and experimental hall.

- Near Aix-en-Provence, join an exclusive-access tour of the ITER construction site, soon to become a large-scale scientific experiment that aims to demonstrate the technological and scientific feasibility of fusion energy.

- Visit a state of the art wine facility at Château la Coste designed by famous architect Jean Nouvel, and sample the excellent wines produced on the property.

- Enjoy free time to explore the culinary scene of both Geneva and Aix-en-Provence.