

154th
ANNUAL
Meeting
APRIL 29–MAY 2, 2017

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JOIN THE CONVERSATION



Follow the NAS 154th Annual Meeting by joining the conversation on Facebook, Twitter, and Instagram **@theNASciences** or use the hashtag **#NAS154**.

9:00 am – 8:00 pm**Registration** • Room 120

Meeting registration and table selection for the President's Dinner are open throughout the day.

10:00 am – 12:45 pm**New Members' Orientation and Lunch** (by invitation) • Fred Kavli Auditorium

Academy officers and staff speak to members elected in 2016 about the organization, its mission, and membership activities. The discussion continues over a working lunch in the Lecture Room.

10:00 am – 4:00 pm**Bus Service to the Smithsonian National Mall and Koshland Science Museum** • Buses depart from 21st Street

Shuttle bus transportation is available from the NAS Building to the museums on the Smithsonian National Mall and the Koshland Science Museum. Members and annual meeting guests will be admitted to the Koshland Science Museum at no charge by showing their annual meeting name badge.

1:00 – 3:30 pm**Research Briefings: A Sampling of the Work of Members Elected in 2016** • Fred Kavli Auditorium* **Live webcast at nasonline.org/NAS154research**

Six new members—one from each Academy Class—talk about their research and answer questions from the audience.

Welcome

Susan R. Wessler • Home Secretary, National Academy of Sciences; University of California President's Chair, University of California, Riverside

Better Ways to Make Molecules

Melanie S. Sanford • Moses Gombert Distinguished University Professor of Chemistry, and Arthur F. Thurnau Professor of Chemistry, University of Michigan

From Darwin to DNA: The Genetics of Evolutionary Change

Hopi Hoekstra • Agassiz Professor and HHMI Investigator, Harvard University

Time and Chance Happened to Them All: Mortality and the Age-Specific Force of Natural Selection

Steven N. Evans • Professor of Statistics and Mathematics, University of California, Berkeley

What We Cannot See We Do Not Know: Immune Recognition Today

Hidde L. Ploegh • Senior Investigator, Program in Cellular and Molecular Medicine, Boston Children's Hospital

Social Psychological Perspectives on Race and Crime

Jennifer L. Eberhardt • Professor of Psychology, Stanford University

An Economist Looks at Climate Change

Geoffrey Heal • Donald Waite III Professor of Social Enterprise, Columbia Business School

5:30 – 7:30 pm**New Members' Dinner** (by invitation) • Constitution Avenue Terrace and Great Hall, Lecture Room and East Court**8:00 – 9:30 pm****Presentation Ceremony** (open to the public) • Fred Kavli Auditorium* **Live webcast at nasonline.org/NAS154presentation**

Members and foreign associates elected in 2016 are introduced to their colleagues in the Academy and sign the "Registry of Membership."

Reserved seating is provided for each new member and one guest. Other members and guests will be accommodated in unreserved seating on a first-come, first-served basis and will be directed to the Members' Room when seating has reached capacity.

9:30 – 10:30 pm**Reception** (open to the public) • Great Hall and West Court**FRED KAVLI AUDITORIUM**

In recognition of a \$10.5 million gift from The Kavli Foundation, the NAS auditorium has been renamed the Fred Kavli Auditorium. The Fred Kavli Endowment Fund will provide unrestricted funding to the NAS. These funds will allow the NAS greater flexibility in providing timely guidance on cutting-edge issues in science through new programs and policy studies. The funding will also help support the Academy's missions of validating scientific excellence; enhancing the vitality of the scientific enterprise; guiding public policy with science; and communicating the nature, values, and judgments of science to government and the public, including through symposia, workshops, and other events that bring together experts and practitioners from a wide variety of institutions and disciplines.

7:30 – 8:30 am

Breakfast—Home Secretary Briefing for Class Officers and Section Chairs (by invitation) • Fairmont Washington Hotel, Kennedy Ballroom, Ballroom Level

7:30 – 8:30 am

Foreign Associates' Breakfast (by invitation) • Fairmont Washington Hotel, Roosevelt Room, Ballroom Level

8:00 am – 6:00 pm

Registration • Room 120

Meeting registration and table selection for the President's Dinner are open throughout the day.

8:00 – 9:00 am

Breakfast • Great Hall, East Court, and West Court

8:30 – 11:00 am

PNAS Editorial Board Meeting (Board members only) • Fairmont Washington Hotel, Ballroom II, Ballroom Level
Breakfast is available beginning at 8:00 am.

9:00 – 9:45 am

Book and Author Talk—Deborah Cramer on *The Narrow Edge: A Tiny Bird, an Ancient Crab, and an Epic Journey* • Fred Kavli Auditorium

* **Live webcast at nasonline.org/NAS154book**

In *The Narrow Edge*, winner of the 2016 Academies Communication Award for best book, Deborah Cramer accompanies small sandpipers along their extraordinary migration from the tip of South America up into their Arctic nesting grounds. Join us to explore the making of *The Narrow Edge* and what Cramer has learned about communicating science to an increasingly skeptical public. A copy of *The Narrow Edge* will be provided to each session attendee free of charge on a first-come, first served basis, compliments of the National Academies Keck Futures Initiative. A book signing event in the West Court follows the talk.

10:00 am – 4:00 pm

Bus Service to the Smithsonian National Mall and the Koshland Science Museum • Buses depart from 21st Street hourly.

10:00 – 11:45 am**Break-Out Sessions**

Attribution of Extreme Weather Events—One Year Later • Fred Kavli Auditorium

In 2016, the National Academies Committee on Extreme Weather Events and Climate Change Attribution released its report on the *Attribution of Extreme Weather Events in the Context of Climate Change*. Meanwhile, NASA and NOAA reported the earth again recorded its warmest year in history last year. Additionally, NOAA recorded 15 separate weather and climate extreme events that resulted in losses of at least \$1 billion, five of which were drought or flood-related. If anything, the interest in attributing specific extreme weather events has only grown over the past year. Non-governmental organizations such as Climate Central and World Weather Attribution have embarked on a project to conduct rapid attribution of specific extreme weather events in a matter of weeks. These groups have examined the August 2016 floods in Baton Rouge, Louisiana, and the recent extreme summer heat in Sydney. This session examines how the science of extreme event attribution has progressed since the release of the report, and whether the report has had influence on how extreme weather events are attributed and discussed. In this session, the speakers review recommendations from the perspective of one year later and assess how they have withstood the test of time.

Moderator: David Tittle • Professor of Practice, Department of Meteorology and Director, Center for Solutions to Weather and Climate Risk, Pennsylvania State University

Speakers: Noah Diffenbaugh • Professor, Department of Earth System Science and Kimmelman Family Senior Fellow, Woods Institute for the Environment, Stanford University

Friederike Otto • Deputy Director and Senior Researcher, Environmental Change Institute, University of Oxford

J. Marshall Shepherd • Georgia Athletic Association Distinguished Professor and Director, Atmospheric Sciences Program, University of Georgia

Adam H. Sobel • Professor of Applied Physics and Applied Mathematics and of Earth and Environmental Sciences, Columbia University

TOURING WASHINGTON, DC

For guests who prefer to tour Washington, DC on their own, transportation is available from the NAS Building to the Smithsonian National Mall and the Koshland Science Museum on Saturday, April 29 through Monday, May 1 (see the bus schedule on page 24). Museum admission is free for members and their guests during the annual meeting. Maps and brochures to help plan your day are available outside of Room 120 in the North Court.

Cybersecurity: Why So Difficult? • Lecture Room

The first National Academies study on cyberinsecurity, *Computers at Risk: Safe Computing in the Information Age*, was written in 1991. We can write software that puts a lander on Mars or that runs the reservations for a hundred thousand U.S. plane flights a day, but security eludes us. For the last several years, cyber has headed the list on the U.S. Worldwide Threat Assessment. Is the fundamental reason technical? Are incentives not aligned? Is the issue basically social? Would liability laws help? Why can't we manage this problem? This session illuminates why cybersecurity may be getting worse even as the Digital Revolution moves ahead at warp speed.

Moderator: Susan Landau • Professor of Cybersecurity Policy, Worcester Polytechnic Institute

Speakers: Dmitri Alperovitch • Co-Founder and CTO, CrowdStrike, Inc.

David D. Clark • Senior Research Scientist, Computer Science and Artificial Intelligence Laboratory, Massachusetts Institute of Technology

Suzanne E. Spaulding • former Under Secretary, U.S. Department of Homeland Security

Grant M. Wagner • Distinguished Chair, Information Assurance & Cyber National Cryptologic School, U.S. National Security Agency

Gene Drive • Members' Room

Human efforts to recruit benefits from living nature are as old as the domestication of the dog and advanced through the gradual selection for yield, nutrition and hardiness in other animals and plants. These events took hundreds, if not thousands of years. Modern understandings of biology have driven efforts to find more rapid ways, so-called 'gene drives' of introducing beneficial traits into a wide range of organisms. Recent breakthroughs in genome editing, in particular those based on CRISPR/Cas biology, have brought gene drive technologies closer to reality. Presentations in this session describe the technology, some of its applications in public health and invasive species management, and the ethical and social concerns that accompany this emerging science.

Moderator: Anthony A. James • Donald Bren Professor, Departments of Microbiology & Molecular Genetics and Molecular Biology & Biochemistry, University of California, Irvine

Speakers: Zach N. Adelman • Associate Professor, Department of Entomology, Texas A&M University

Elizabeth Heitman • Professor, Program in Ethics in Science and Medicine, University of Texas Southwestern Medical Center

Ryan Phelan • Co-Founder and Executive Director, Revive & Restore

Immigration in the United States • Board Room

More than 40 million people living in the United States were born in other countries, and an almost equal number have at least one foreign-born parent. Together, the first generation (foreign born) and the second generation (children of the foreign born) comprise almost one in four Americans. The changing patterns of immigration and the evolving consequences for American society, institutions and the economy continue to fuel public policy debates at the local, state, and national level. Many of these political debates would be greatly improved if they were grounded in the latest social science evidence on the topic. This session reviews the findings of two recent National Academies reports, *The Integration of Immigrants into American Society* and *The Economic and Fiscal Impacts of Immigration*. These reports document the effects of immigration on the labor market, fiscal expenditures and revenues, health, crime rates, families, and population composition of the U.S. They also measure immigrant and second generation socioeconomic mobility and social integration. The panelists review what is known about how both authorized and unauthorized immigrants are integrating and the effects of immigration on Americans.

Moderator: Mary C. Waters • John L. Loeb Professor of Sociology, Harvard University

Speakers: Francine D. Blau • Frances Perkins Professor of Industrial and Labor Relations and Professor of Economics, Cornell University

Douglas S. Massey • Henry G. Bryant Professor of Sociology and Public Affairs, Princeton University

Kim Rueben • Senior Fellow, Tax Policy Center, and Director, State and Local Finance Initiative, The Urban Institute

Communicating Science: Informing Practice with Rigorous Research • Room 125

It is critical that the scientific community build capacity for and foster the use of evidence-based strategies for engaging the public with science and ensuring its appropriate use. A core group of scholars across the social, behavioral, and decision sciences are conducting innovative research critical to the practice of scientifically sound science communication. The organizers and speakers in this session address the importance of evidence-based communication, highlight the avenues of current research in science communication and the most promising areas for future investigation, and provide examples of ways in which this research has been used most fruitfully in practice. The presentations draw from a new National Academies report on science communication, from two NAS Sackler Colloquia on the Science of Science Communication, and from career-long experience researching and practicing science communication.

Moderators: **Karen Cook** • Ray Lyman Willar Professor of Sociology, and Director of the Institute for Research in the Social Sciences (IRISS), Stanford University

Barbara Kline Pope • Executive Director of Communications, National Academies of Sciences, Engineering, and Medicine

Speakers: **Baruch Fischhoff** • Howard Heinz University Professor, Carnegie Mellon University

Alan I. Leshner • CEO Emeritus, American Association for the Advancement of Science

Dietram A. Scheufele • John E. Ross Professor in Science Communication and Vilas Distinguished Achievement Professor, University of Wisconsin-Madison

Noon – 1:30 pm

Lunch • West Court and East Court

Noon – 1:30 pm

Women in Science Luncheon • Great Hall

Margaret Kivelson is Distinguished Professor of Space Physics Emerita at UCLA and Research Professor at the University of Michigan. Kivelson received her B.A. from Radcliffe College in 1950 and completed her Physics Ph.D. under the tutelage of Julian Schwinger in 1957. From 1955 to 1967 she worked at the RAND Corporation. Her move to UCLA occurred at a time when NASA projects were growing rapidly. She signed on to study Jupiter and its moons and learned while doing, ultimately becoming a member of the faculty and the Principal Investigator of the Magnetometer Investigation on the *Galileo* spacecraft, the first to orbit an outer planet. Her *Galileo* data revealed the probable presence of a global ocean beneath the surface of the moon Europa, and a large magnetic field at the moon Ganymede. At UCLA, she was active in promoting studies of gender equity and in encouraging the establishment of a Women's Studies Program. She was elected to the NAS in 1999, the American Academy of Arts and Sciences in 1998, and the American Philosophical Society in 2005. She was awarded the John Adam Fleming Medal of the American Geophysical Union and the Alfvén Medal of the European Geosciences Union in 2005 and became an Honorary Fellow of the Royal Astronomical Society in 2010.

Members and guests who registered for the Women in Science luncheon received an event ticket at registration. Please enter the luncheon through the East or West Gallery doors, and present your event ticket.

2:00 – 3:30 pm

Awards Ceremony • Fred Kavli Auditorium

* **Live webcast at nasonline.org/NAS154awards**

Join members and guests for this celebration of science honoring the 2017 NAS award recipients.

Jane Lubchenco, NAS Public Welfare Medal

Armand Paul Alivisatos, NAS Award in Chemical Sciences

Frances H. Arnold, Raymond and Beverly Sackler Prize in Convergence Research

Barry C. Barish, Henry Draper Medal

Rodolphe Barrangou, NAS Award in Molecular Biology

Tim Behrens, Troland Research Award

Sian Leah Beilock, Troland Research Award

Edward S. Buckler, NAS Prize in Food and Agriculture Sciences

Mats Carlsson, Arctowski Medal

Robert H. Dennard, NAS Award for the Industrial Application of Science

Gabriela González, NAS Award for Scientific Discovery

Viggo Hansteen, Arctowski Medal

Leroy E. Hood, NAS Award for Chemistry in Service to Society

Jerome H. Milgram, Gibbs Brothers Medal

Daniel S. Nagin, NAS Award for Scientific Reviewing

David H. Reitze, NAS Award for Scientific Discovery

Bernard Roizman, Selman A. Waksman Award in Microbiology

Pardis Christine Sabeti, Richard Lounsbery Award

Peter R. Saulson, NAS Award for Scientific Discovery

Susan Solomon, Arthur L. Day Prize and Lectureship

Karel Svoboda, Pradel Research Award

Stanley E. Whitcomb, Henry Draper Medal

3:30 – 4:30 pm

Awards Reception (by invitation) • East Court and Lecture Room

Please enter the reception through the East Court or Lecture Room, and present your event ticket.

4:00 – 6:00 pm**Garden Party** • West Terrace

Badges for guests who are only attending the Awards Ceremony and the Garden Party are available beginning at 1:00 pm in Room 120.

6:30 – 8:00 pm**Concert—David Finckel and Wu Han** •

Fred Kavli Auditorium

David Finckel and Wu Han are among the most esteemed and influential classical musicians in the world today. They are recipients of Musical America's Musicians of the Year award, one of the highest honors granted by the music industry. The talent, energy, imagination, and dedication they bring to their multifaceted endeavors as concert performers, recording artists, educators, artistic administrators, and cultural entrepreneurs has garnered superlatives from the press, public, and presenters alike. The concert features works by Bach, Beethoven, Shostakovich, Rachmaninoff, and Grieg.

Doors will open at 6:00 pm, and ticket holders should be seated between 6:00 pm and 6:20 pm. At 6:20 pm, all empty seats will be available to members and registered guests who did not receive concert tickets.

7:00 am – 3:00 pm**Registration** • Room 120

Table selection for the President's Dinner is available until noon.

7:00 – 8:15 am**Breakfast** • West Terrace**7:00 – 8:15 am****Briefing—Academies' Committee on Human Rights** • Room 125

Led by Committee Chair Martin Chalfie, this breakfast briefing highlights issues surrounding digital security and human rights. Guest speaker John Scott-Railton of The Citizen Lab (Munk School of Global Affairs, University of Toronto) discusses the use of digital surveillance and technologies to target human rights activists and other members of civil society worldwide.

7:00 – 8:15 am**PNAS Associate Editors' Breakfast** (by invitation) • Board Room**7:00 – 8:15 am****Briefing—Strategic Security Challenges in 2017 and Beyond** • Lecture Room (Breakfast available in the East Court.)

Strategic threats to U.S. and international security are evolving based on relations between and among nuclear armed states and nuclear aspirants, the actions of non-state actors who seek WMD capabilities, and emerging capabilities enabled by newer technologies that offer asymmetric impact and cause us to rethink what we need to be secure. How can we address these evolving threats and what role should scientists and the NAS play in these issues?

Presenter: **Richard L. Garwin** • IBM Fellow Emeritus, IBM Thomas J. Watson Research Center; Member, NAS Committee on International Security and Arms Control, 1980-present

8:30 – 9:15 am**President's Address** • Fred Kavli Auditorium* **Live webcast at nasonline.org/NAS154president**

Marcia McNutt presents her first annual talk to members and their guests, and speaks about the renaming of the Fred Kavli Auditorium.

9:30 am – Noon**Symposium—Deep Learning and Artificial Intelligence** •

Fred Kavli Auditorium

* **Live webcast at nasonline.org/NAS154symposium**

In less than a decade, the field of “artificial intelligence” or “AI” has been jolted by the extraordinary and unexpected success of a set of techniques now called “Deep Learning.” These methods (with some other related rapidly advancing technologies) already exceed average human performance in some kinds of image understanding; spoken word recognition and language translation; and indeed some tasks, like the game of Go, previously thought to require generalized human intelligence. AI may soon replace humans in driving cars, coding new software, robotic caregiving, and making healthcare decisions. The societal implications are enormous. In this session, experts in the field discuss this revolution from five different perspectives.

Moderator: William H. Press • Raymer Professor in Computer Science, The University of Texas at Austin

The Deep Learning and Artificial Intelligence Revolution

Rob Fergus • Research Scientist, Facebook AI Research, and Associate Professor of Computer Science, New York University

Rethinking the Software Industry

Peter Norvig • Director of Research, Google Inc.

How Machines Learn by Doing

Michael L. Littman • Professor of Computer Science, Brown University

Autonomous Machines Interacting with Humans

Manuela Veloso • Herbert A. Simon University Professor and Head, Machine Learning Department, Carnegie Mellon University

The Impact of Artificial Intelligence on Healthcare

Suchi Saria • Assistant Professor, Computer Science with joint appointments in Statistics and Health Policy, Johns Hopkins University

10:00 am – 4:00 pm

Bus Service to the Smithsonian National Mall and Koshland Science Museum • Buses depart from 21st Street hourly.

Noon – 1:00 pm

Lunch for Annual Meeting Guests • West Terrace

12:30 – 4:00 pm**Section Meetings** (working lunch—members only) •

Fairmont Washington, Park Hyatt, and Westin Georgetown Hotels

Section and Class meetings begin at 12:30 pm at the three annual meeting hotels. Buses depart from the NAS at noon. Section meetings are held as working lunches; lunch for annual meeting guests is available in the NAS Building.

Class I—Westin Georgetown:

11 Mathematics	Logan
12 Astronomy	Mayfair Court
13 Physics	Scott
14 Chemistry	Washington Ballroom
15 Geology	Dupont
16 Geophysics	Thomas Boardroom

Class II—Fairmont Washington:

21 Biochemistry	Sulgrave
22 Cellular & Developmental Biology	Longworth
23 Physiology & Pharmacology	Wilson
24 Cellular & Molecular Neuroscience	Potomac
25 Plant Biology	Lindens
26 Genetics	Grand Ballroom II
27 Evolutionary Biology	Culpeper
28 Systems Neuroscience	Potomac
29 Biophysics & Computational Biology	Latrobe

Class III—Fairmont Washington:

31 Engineering Sciences	Dumbarton
32 Applied Mathematical Sciences	Marshall
33 Applied Physical Sciences	Kennedy Ballroom
34 Computer & Information Sciences	Imperial II

Class IV–Park Hyatt:

41 Medical Genetics, Hematology, & Oncology	Gallery Ballroom 1
42 Medical Physiology and Metabolism	Salon 1 & 2
43 Immunology and Inflammation	Gallery Ballroom 3
44 Microbial Biology	Gallery Ballroom 2

Class V–Fairmont Washington:

51 Anthropology	Grand Ballroom I
52 Psychological & Cognitive Sciences	Decatur
53 Social & Political Sciences	Imperial I
54 Economic Sciences	Adams

Class VI– Park Hyatt:

61 Animal, Nutritional, & Applied Microbial Sciences	Salon 3 & 4
62 Plant, Soil, & Microbial Sciences	Green Park
63 Environmental Sciences & Ecology	Salon 5
64 Human Environmental Sciences	Victoria Park

1:00 – 4:45 pm**Guest Programs • West Court**

Guests registered for tours should gather in the West Court by 12:50 pm.

- Tour 1 • Smithsonian Steven F. Udvar-Hazy Center; returns at 4:45 pm.
- Tour 2 • Montgomery County Parks–Brookside Gardens; returns at 4:45 pm.
- Tour 3 • The John F. Kennedy Center for the Performing Arts; returns at 4:00 pm.

CALL FOR NOMINATIONS: 2018 NAS AWARDS

Nominations are now being accepted for the NAS awards to be presented in 2018. Nominations must be submitted via our online nomination form at awards.nasonline.org by **Monday, October 2, 2018**. For more information and a list of awards scheduled for presentation in 2018, visit nasonline.org/awards-nominations.

4:00 – 5:00 pm

Class Meetings (members only) • Fairmont Washington, Park Hyatt, and Westin Georgetown Hotels

Class meetings will be held at the three designated annual meeting hotels.

Class I Westin Georgetown – Washington Ballroom

Class II Fairmont Washington – Grand Ballroom II

Class III Fairmont Washington – Kennedy Ballroom

Class IV Park Hyatt – Gallery Ballroom 2

Class V Fairmont Washington – Grand Ballroom I

Class VI Park Hyatt – Gallery Ballroom 1

7:00 – 11:00 pm

President's Dinner • Smithsonian's National Museum of American History

The Smithsonian's National Museum of American History collects and preserves more than 3 million artifacts—all true national treasures. The collection features everything from the original Star-Spangled Banner and Abraham Lincoln's top hat to Dizzy Gillespie's angled trumpet and Indiana Jones' hat and whip from the *Raiders of the Lost Ark*. The museum's collections form a fascinating mosaic of American life and comprise the greatest single collection of American history.

This black-tie optional dinner–dance begins with a reception at 7:00 pm. Selected galleries will be open during the reception and after the dinner. Buses depart from the NAS Building and from the hotels (Fairmont Hotel Juniper Restaurant entrance) at 6:45 pm.

8:00 – 8:45 am

Breakfast • West Terrace

8:00 – 8:45 am

NAS Section Liaisons' Breakfast (by invitation) • Board Room

8:00 – 9:00 am

Registration • Room 120

9:00 – 11:30 am

Business Session (members only) • Fred Kavli Auditorium
The annual business meeting agenda includes the election of members and foreign associates, reports from officers, committees, and Classes, and consideration of proposed changes to the bylaws.

Noon – 2:00 pm

Elkan Blout Society Luncheon • (by invitation) • West Court and Members' Room

FUTURE ANNUAL MEETINGS

April 28–May 1, 2018
April 27–30, 2019
April 25–28, 2020

Auditory Assistance

An auditory assistance system is available in the Fred Kavli Auditorium. NAS staff (identified by blue name badges) can provide assistance.

Badges

Admission to most events is by name badge. Badges are color coded: white for members, green for guests, blue for staff, and yellow for Garden Party guests.

Building Access

The Constitution Avenue entrance has a ramp for wheelchairs. Elevators and lifts are noted on the maps on pages 20-22.

Bus Service

From Saturday afternoon to Tuesday afternoon, bus transportation is provided between annual meeting events and hotels. The schedule is printed on page 24.

Coat Room

A coat room is located near the Great Hall and will be attended during the following hours:

Saturday, April 29	9:00 am to 10:30 pm
Sunday, April 30	8:00 am to 8:30 pm
Monday, May 1	7:00 am to 5:00 pm
Tuesday, May 2	8:00 am to 2:30 pm

Computers

PC and Mac computers with most of the popular software packages and Internet access are provided in the Members' Center. Wireless Internet access is available throughout the building.

Food Service

A conscientious effort is made to provide healthy, nutritionally balanced foods. If you have made arrangements for a special meal, please notify the catering staff.

Guest Program

For questions about your registration, see the registration staff in Room 120. General information about Washington, DC and its environs is available outside of Room 120 in the North Court; brochures and pamphlets of the DC area are available outside of Room 120.

Lost and Found

Lost and Found is located in Room 120. Please ask registration staff for assistance.

Mail and Federal Express

Outgoing mail and Federal Express packages should be left with registration staff in Room 120.

Medical Assistance

If medical assistance is needed, please call extension 3732 from any house phone (202-334-3732, if calling from a cell phone) or notify an Academy staff member. Staff are located throughout the building and are wearing blue name badges.

Members' Center

The Members' Center provides computer access, newspapers, and comfortable seating. PNAS and the NAS Development Office booths provide information, with staff available to answer questions.

Metro (subway)

The Academy is located six blocks (a 15-minute walk) south of the Foggy Bottom/George Washington University Metro station, which is accessible from the Orange, Blue, and Silver lines.

NAS Store

Visit the NAS Store, located in Room 118 next to the registration area, to view and purchase recent National Academies publications, as well as other gift items. Members and annual meeting guests receive a 30% discount on books and select gift items. The NAS Store is open daily.

Parking

Although parking is provided for the physically challenged, other parking at the Academy is very limited and may not be available. The Columbia Plaza parking garage, located at 2400 Virginia Avenue, NW, is within walking distance of the Academy.

President's Dinner

Members who pre-registered for the President's Dinner receive a receipt at registration, which must be presented to President's Dinner staff in Room 120 to select a table and obtain dinner tickets. Table selection can be made during the following hours:

Saturday, April 29	9:00 am to 8:00 pm
Sunday, April 30	8:00 am to 6:00 pm
Monday, May 1	7:00 am to Noon

Smoking

Smoking is prohibited in all Academy facilities. Smoking is permitted outside, but not in the West Terrace tent.

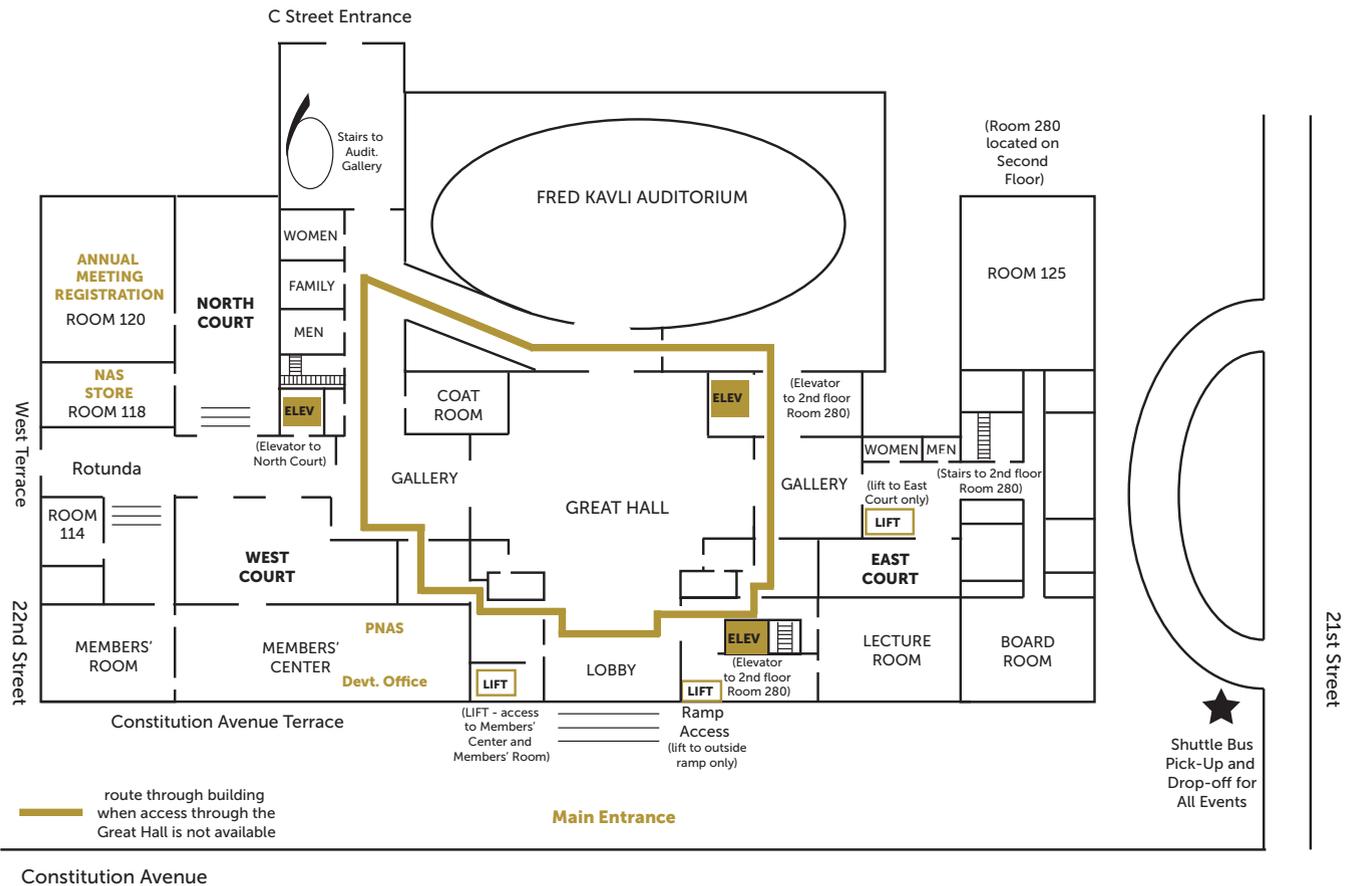
Taxis

During business hours, taxis are usually available at the corner of 22nd and C Streets, near the State Department entrance. If you need a taxi after business hours, the guard at the Constitution Avenue desk will call one for you.

Ties, Scarves, and Rosettes

Specially designed ties and scarves, bearing the colors of the National Academy of Sciences rosette, may be purchased in Room 118, next to the registration area. Also, members may obtain Academy rosettes in Room 120.

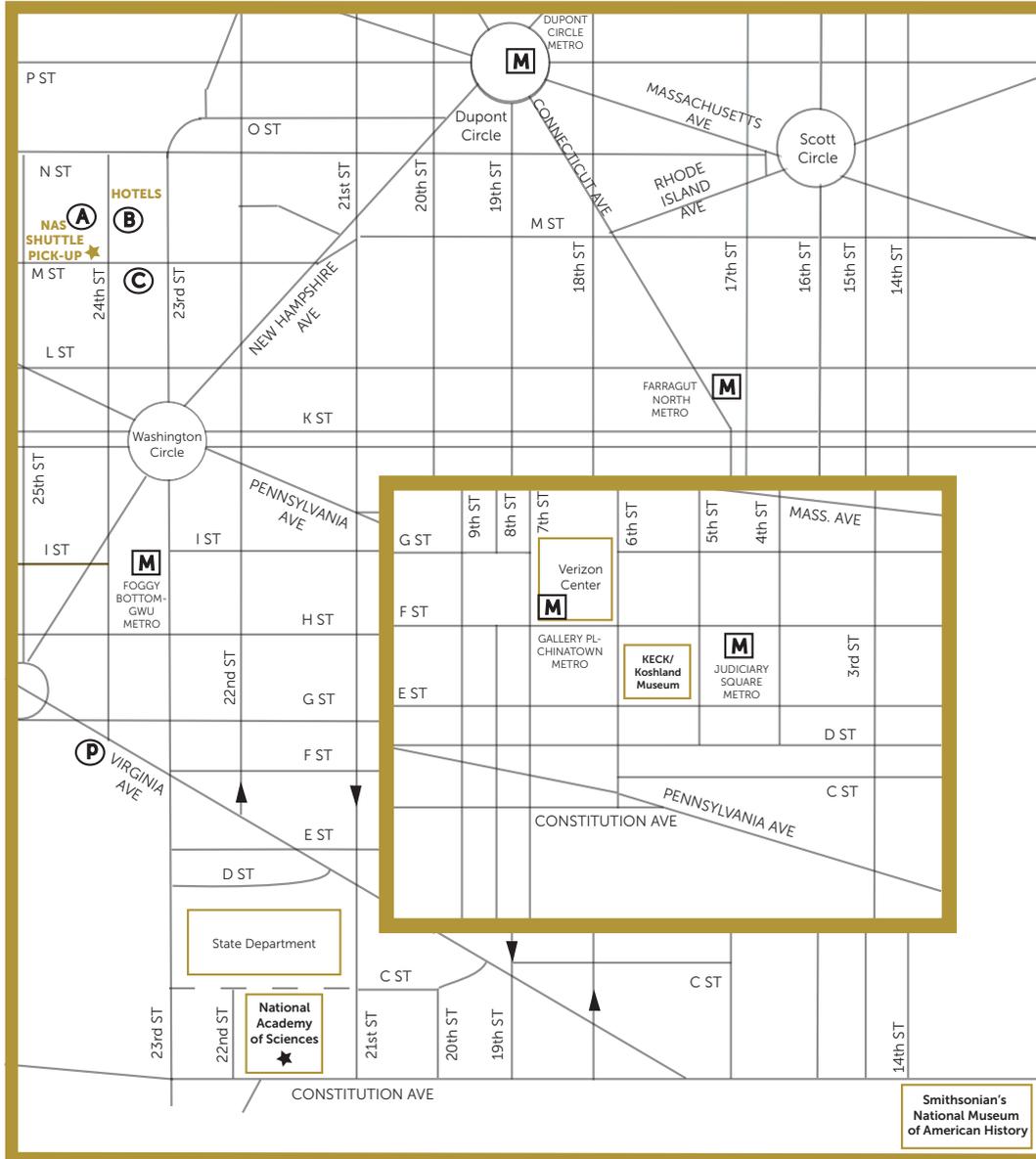
NAS Building (First Floor)



National Academy of Sciences (2101 Constitution Avenue, NW)
Koshland Science Museum (525 E Street, NW)
Smithsonian's National Museum of American History
 (Constitution Avenue, NW between 12th and 14th Streets)

Legend

- A** Fairmont Washington Hotel (2401 M Street, NW)
- B** Park Hyatt (1201 24th Street, NW)
- C** Westin Georgetown (2350 M Street, NW)
- M** Metro Stations (subway stations)
- P** Columbia Plaza Parking (2400 Virginia Avenue, NW)



Bus Schedule

The hotel shuttle bus stop is located at the northwest corner of 24th and M Streets, at the entrance of the Fairmont Hotel's Juniper Restaurant. Shuttle transportation is provided throughout the meeting between the NAS Building and the shuttle bus location.

An asterisk (*) indicates round-robin service.

Saturday • April 29

Time	From	To
*8:30 am–8:00 pm	Hotels	NAS
10:00 am–4:00 pm (departs NAS hourly)	NAS	Smithsonian National Mall, Koshland Museum, NAS
*9:30–11:00 pm	NAS	Hotels

Sunday • April 30

Time	From	To
*7:30 am–8:30 pm	Hotels	NAS
10:00 am–4:00 pm (departs NAS hourly)	NAS	Smithsonian National Mall, Koshland Museum, NAS

Monday • May 1

Time	From	To
*6:30 am–5:00 pm	Hotels	NAS
10:00 am–4:00 pm (departs NAS hourly)	NAS	Smithsonian National Mall, Koshland Museum, NAS
1:00 pm (meet in West Court; buses depart at 1:00 pm)	NAS	Guest Tours
6:45 pm	NAS/Hotels	President's Dinner
*9:30–11:15 pm	President's Dinner	Hotels/NAS

Tuesday • May 2

Time	From	To
*7:30 am–2:30 pm	Hotels	NAS