RE-2 Employee Post Travel Disclosure of Travel Expenses

Date/Time Stamp

RECEIVED
SECRETARY OF THE SENATE
PUBLIC RECORDS
2024 APR 17 PM 4:10

Post Travel Filing Instructions: Complete this form within **30 days** of returning from travel. Submit all forms to the Office of Public Records in 232 Hart Building.**This form is a public disclosure. The form and all attachments will be made publicly available.**

Certification:*In compliance with the Regulations Governing Privately Sponsored Travel, Senate Rule 35, and the Honest Leadership and Open Government Act of 2007, I certify that I accepted the following gift of privately sponsored travel:*

Private Sponsor(s):
National Academies of Sciences, Engineering, and Medicine

Travel Dates:
03/15/2024 to 03/17/2024

Name of accompanying family member (if any):

Relationship to Traveler:

Expenses

Transportation Expenses	Lodging Expenses	Meals Expenses	Other Expenses (Amount & Description)
$89.00	$316.00	$133.00	$182.00

I also certify that attached to this form are all required documents for post travel disclosure, including:

- **The final Employee Pre-Travel Authorization** (Form RE-1)
- The final **Private Sponsor Travel Certification Form** with all attachments
- The final invitation
- The final approved itinerary

Finally, I certify that all trip information reflected in the attachments above accurately reflects the travel that I accepted. If there were any changes to the trip after I received approval from the Committee, the changes are described in ATTACHMENT 1.

April 15, 2024
Date

Heather Pacheco
Printed Name of Traveler

Signature of Traveler

TO BE COMPLETED BY SUPERVISING MEMBER/OFFICER

I have made a determination that the expenses set out above in connections with travel described in the Employee Pre-Travel Authorization form, are necessary transportation, lodging, and related expenses as defined in Rule 35.

April 16, 2024
Date

Signature of Supervising Senator/Officer

ATTACHMENT 1 – CHANGES FROM APPROVED PRE-TRAVEL

Note: Material changes to a trip that occur after the Committee has issued an approval letter may invalidate the Committee's approval. Please contact the Committee with any questions regarding changes to an approved trip.

Were there any changes to the pre-approved travel expenses? (Transportation, Meals, Lodging, Other)?

● Yes ○ No

Expense Change	Revised Amount	Explanation
Transportation	$89.00	Transportation expenses increased by $6 per person from $83 to $89 as an additional stop with the charter bus was added to the Saturday field visit.
Misc. Expenses	$226.00	Hotel meeting space & A/V equipment rental and support expenses increased by $44 per person from $182 to $226. An additional room rental fee was added for lunch on Sunday, and a "two-way virtual support" package plus associated equipment was added to A/V expenses to provide enhanced support for virtual speakers and attendees.

Were there any changes to the pre-approved itinerary?

● Yes ○ No

Explanation: • Hotel check-in on Friday occurred at 5:45pm instead of 6:00pm • Agriculture & Food Module o Invited Speakers Unable to Attend/Declined Invitation: -Kate Tully (Associate Professor of Agroecology, Department of Plant Science and Landscape, University of Maryland) -Trey Hill (Farmer, Rock Hall) -Bobby Hutchison (Farmer, Talbot County) o Speakers Added: -Charles Rice (Professor of Soil Microbiology, Kansas State University) -Jarrod Miller (Assistant Professor and Agronomy Specialist, University of Delaware) -Wendell Meekins (Owner and Operator, R&W Farms)

Were there any additional changes to the pre-approved trip?

○ Yes ● No

Explanation: There were no additional changes to the pre-approved trip.



RE-1 Employee Pre-Travel Authorization

Date/Time Stamp

Pre-Travel Filing Instructions: Complete and submit this form at least 30 days prior to the travel departure date to the **Select Committee on Ethics in SH-220.** Incomplete and late travel submissions will **not** be considered or approved.

Name of Traveler:
Heather Pacheco

Employing Office/Committee:
HEINRICH, MARTIN

Private Sponsor(s):
National Academies of Sciences, Engineering, and Medicine

Destination(s):
Cambridge, Maryland

Travel Dates:
03/15/2024 to 03/17/2024
NOTE: If you plan to extend the trip for any reason you **must** notify the Committee.

Explain how this trip is specifically connected to the traveler's official or representational duties.

I cover climate adaptation for Senator Heinrich and am part of the Climate Crossroads Congressional Fellowship.

Do you have an accompanying family member or spouse on this trip?
No

Name and Relationship to Traveler:
N/A

I certify that the information contained in this form is true, complete and correct to the best of my knowledge.

2/27/24
Date

Signature of Employee

TO BE COMPLETED BY SUPERVISING MEMBER/OFFICER
(President of the Senate, Secretary of the Senate, Sergeant at Arms, Secretary for the Majority, Secretary for the Minority, and Chaplain)

I Senator Heinrich hereby authorize Heather Pacheco
(Print Senator's/Officer's Name) (Print Traveler's Name)

an employee under my direct supervision, to accept payment or reimbursement for necessary transportation, lodging, and related expenses for travel to the event described above. I have determined that this travel is in connection with his or her duties as a Senate employee or an officeholder, and will not create the appearance that he or she is using public office for private gain.

I have also determined that the attendance of the employee's spouse or child is appropriate to assist in the representation of the Senate.

☐ (signify "yes" by checking box)

2/27/24
Date

Signature of Supervising Senator/Officer

National Academies of Sciences, Engineering, and Medicine: NAS Climate Crossroads Congressional Fellowship - Weekend Seminar

Heather Pacheco

Title:
Legislative Aide

Employing Office/Committee:
HEINRICH, MARTIN

Duty Station:
WASHINGTON,DC

Destination(s):
Cambridge, Maryland

Explain how this trip is specifically connected to the traveler's official or representational duties:

I cover climate adaptation for Senator Heinrich and am part of the Climate Crossroads Congressional Fellowship.

Name of accompanying family member (if any):
Not Entered

Name and Relationship to Traveler:
None

Organization Information

Organization Name
National Academies of Sciences, Engineering, and Medicine

Is your organization classified as a §501(c)(3)?
● Yes ○ No

§501(c)(3) Organization Type
Public Charity

Address
500 Fifth St. NW

Address 2 (Optional)
Public Charity

City, State Zip
Washington, District Of Columbia 20001 United States

Phone Number
202-334-3289

Organization URL
https://www.nationalacademies.org/home

History of Congressional Travel

Between 2000 and 2005, LegiStorm reflects that NAS sponsored 16 trips to facilitate congressional staff participation in workshops, conferences, symposiums, and roundtables on various subjects related to science policy.

Educational Activities

The National Academy of Sciences (NAS), a private tax-exempt corporation, provides independent, objective advice to inform policy with evidence, spark progress and innovation, and confront challenging issues for the benefit of society. The NAS includes under its charter the National Academy of Engineering and the National Academy of Medicine (collectively referred to as the National Academies). The Climate Crossroads Congressional Fellowship has been established to provide current Congressional staff with a solid grounding in the science, engineering, and health dimensions of climate change, as well as opportunities to build connections with colleagues from diverse policy backgrounds. The program leverages National Academies' reports, activities, staff, and expert networks and focuses on capacity building, professional development, and networking opportunities for program participants during a crucial window as the world confronts a changing climate.

Lobbyist and Foreign Agent Registration Information

Lobbyist Registration Status: *I certify that the sponsor is not a federally registered lobbyist and do not retain or employ a federally registered lobbyist.*

Foreign Agent Registration Status: *I certify that the sponsor is not an agent of a foreign principal and do not retain or employ an agent of a foreign principal.*

Foreign Government Involvement

Foreign Agent Registration Status:

● I certify that the sponsor is not a foreign government.

- ✓ I certify that the sponsor is not an entity that is owned or operated by a foreign government.
- ✓ I certify that the sponsor does not receive funding from a foreign government.

Comments

None Entered

Signature Page

The signature page is below.

Purpose and Details

Provide a brief description of the trip.

As part of the NAS Climate Crossroads Congressional Fellowship participants engage in a series of monthly events on topics related to climate change, and the weekend seminar trip will enable an extended period of deep engagement for program participants with NAS resources and experts as well as ample time for community building. The weekend seminar will open Friday evening with an overview of NAS and its role in the science policy ecosystem. Saturday will consist of modules focused on the intersection of climate change with agriculture, food, and ecosystems, including a field site visit to the University of Maryland Center for Environmental Science's Horn Point Laboratory. On Sunday, a module on climate and water resources will close out the weekend before the group returns to DC. Modules will be delivered by National Academies staff and volunteer experts, and will consist of a mix of lectures, interactive activities, and a field site visit.

Explain how the purpose of the trip relates to your organization's mission.

The National Academies provides independent, objective advice to inform policy with evidence, spark progress and innovation, and confront challenging issues for the benefit of society. The Climate Crossroads Congressional Fellowship has been established to provide current Congressional staff with a solid grounding in the science, engineering, and health dimensions of climate change, as well as opportunities to build connections with colleagues from diverse policy backgrounds. This trip leverages National Academies' reports, activities, staff, and expert networks and focuses on capacity building for program participants during a crucial window as the world confronts a changing climate.

Is your organization the only sponsor for this trip?

✓ Yes ○ No

Grantmaking Organizations (Optional)

There are no grantmaking organizations.

With or Without Regard for Congressional Participation

The trip is arranged or organized specifically with regard to congressional participation.

Lobbyist/Foreign Agent Involvement in Planning, Organizing, Requesting or Arranging

- ✓ The trip will not in any part be planned, organized, requested, or arranged by a registered lobbyist or agent of a foreign principal, other than de minimis involvement.

Lobbyist/Foreign Agent Financing

- ✓ The trip will not be financed in any part by a registered lobbyist or agent of a foreign principal.
- ✓ No funds or in-kind contributions were earmarked directly or indirectly for the purpose of financing this specific trip from a registered lobbyist or agent of a foreign principal or from a private entity that retains or employs one or more registered lobbyists or agents of a foreign principal.

Lobbyist/Foreign Agent Accompaniment

Complete if all sponsors are §501(c)(3) organizations

- ✓ The trip is limited to three days (for trips inside the continental United States) or seven days (for trips outside the continental United States), and no lobbyist or agents of a foreign principal will accompany the Member, officer, or employee at any point throughout the trip

Complete if any of the sponsors is not a §501(c)(3) organizations.

- ○ The trip is limited to three days (for trips inside the continental United States) or seven days (for trips outside the continental United States), and no lobbyist or agents of a foreign principal will accompany the Member, officer, or employee at any point throughout the trip

- ○ The trip is limited to a one-day event (exclusive of travel time and **one** overnight stay) and no registered lobbyists or agents of a foreign principal will accompany the Member, officer, or employee on any segment of the trip
- ○ The trip is limited to a one-day event (exclusive of travel time and **two** overnight stays) and no registered lobbyists or agents of a foreign principal will accompany the Member, officer, or employee on any segment of the trip

- ○ The trip is limited to a one-day event (exclusive of travel time and **one** overnight stay) and no registered lobbyists or agents of a foreign principal will accompany the Member, officer, or employee on any segment of the trip
- ○ The trip is limited to a one-day event (exclusive of travel time and **two** overnight stays) and no registered lobbyists or agents of a foreign principal will accompany the Member, officer, or employee on any segment of the trip

Certification of No Recreational Activity and No Alcohol

- ✓ Travel expenses paid for will not include expenditures for recreational activities.
- ✓ Travel expenses paid for will not include expenditures for alcohol, except as permitted by the Regulations Governing Privately Sponsored Travel.

Invitees

ⓘ Members and staff from the House of Representatives **will** receive invitations.

The list of invitees is below.

Travel Details

Trip Start Date/Time:
03/15/2024 @ 03:30 PM

⇄

Trip End Date/Time:
03/17/2024 @ 03:30 PM

Will the traveler be accompanied by a family member for whom the sponsor will pay travel expenses?

○ Yes ✓ No

Itinerary

The itinerary is below.

Transportation (Per Member/Officer/Employee: $83.00 | Accompanying Family Member: $0.00)

Transportation Type	Class	Amount
Ground Transportation	Charter	$52.00
Note Bus to/from Cambridge, MD		
Ground Transportation	Charter	$31.00
Note Bus to/from University of Maryland's Horn Point Laboratory for the field site visit.		

Lodging (Per Member/Officer/Employee: $316.00)

Check-In	Check-Out	Facility	City	State	Country	Nights	Cost/Night	Cost Exceed Per Diem

Check-In	Check-Out	Facility	City	State	Country	Nights	Cost/Night	Cost Exceed Per Diem
03/15/2024	03/17/2024	Hyatt Regency Chesapeake Bay	Cambridge	Maryland	United States	2	$158.00	No

Meals (Per Member/Officer/Employee: $133.00)

Date	Breakfast	Lunch	Dinner	Incidentals	Total	City	State	Country	Cost Exceeds Per Diem
03/15/2024	$0.00	$0.00	$29.00	$5.00	**$34.00**	Cambridge	Maryland	United States	No
03/16/2024	$14.00	$16.00	$29.00	$5.00	**$64.00**	Cambridge	Maryland	United States	No
03/17/2024	$14.00	$16.00	$0.00	$5.00	**$35.00**	Cambridge	Maryland	United States	No

Reasonable Miscellaneous Expenses (Per Member/Officer/Employee: $182.00)

Expense Type	Amount	Notes
Other (Hotel meeting space & A/V equipment rental and support)	$182.00	Total for all three days of the trip.

Additional Attachments All additional attachments are below.

Document Name
Updated Itinerary

PRIVATELY SPONSORED TRAVEL

SPONSOR SIGNATURE PAGE

I hereby certify that the information submitted in connection with the trip listed below is true, complete, and correct to the best of my knowledge and belief.

Trip Name: NAS Climate Crossroads Congressional Fellowship - Weekend Seminar

Travel Date(s): March 15-March 17, 2024

Travel Destination(s): Cambridge, MD

Sponsor: National Academy of Sciences (NAS)

Ebun Johnson — *(printed name of sponsor representative)*

Chief Financial Officer — *(title)*

Ebun Johnson Digitally signed by Ebun Johnson Date: 2024.03.01 16:44:47 -05'00' — *(signature of sponsor representative)*

(date)

NATIONAL ACADEMIES Sciences Engineering Medicine

Climate Crossroads Congressional Fellowship – 2024 Weekend Seminar Invitee List

The following individuals have been invited to participate in the 2024 Climate Crossroads Congressional Fellowship weekend seminar in various capacities.

Climate Crossroads Congressional Fellows

Each individual listed below has been invited to the weekend seminar due to their status as a fellow to support their participation in fellowship activities.

Fellow Name	***Current Position***	***Office Affiliation***
Josephine Amusa	Policy Advisor	House Minority Leader Hakeem Jeffries (D-NY)
Adam Battalio	Legislative Assistant	Senator Mike Braun (R-IN)
Catherine Belmán Goggins	Senior Legislative Assistant	Representative Robert C. "Bobby" Scott (D-VA)
Prerna Bhat	Climate and Environment Legislative Assistant	Senator Cory Booker (D-NJ)
Chris Bowman	Senior Professional Staff Member	Senate Committee on Energy and Natural Resources, Majority (Senator Joe Manchin, D-WV)
John Brady	Legislative Aide for Energy, Climate, and Transportation & Correspondence Director	Senator Angus King (I-ME)
Ryan Ebrahimy	Legislative Correspondent	Senator Ben Ray Lujan (D-NM)
Sara Eisemann	Legislative Assistant	Senator Jon Ossoff (D-GA)
Jocilyn Gilbert	Legislative Assistant	Representative Hank Johnson (D-GA)
Kelsey Hartman	Professional Staff Member	House Committee on Natural Resources, Minority (Representative Alexandria Ocasio-Cortez, D-NY)
Elena J Haynes	Environmental Policy Legislative Assistant	Senate Majority WHIP Dick Durbin (D-IL)
Emma Kaboli	Presidential Management Fellow and Policy Analyst	Congressional Research Service, Division of Resources, Science and Industry
Shanta Katipamula	Legislative Assistant	Representative Suzan K. DelBene (D-WA)
Mary-Eileen Manning	Policy Advisor	Senator Dan Sullivan (R-AK)
Jeremy Marcus	Chief of Staff	Representative Doris Matsu (D-CA)
Adam McBride	Policy Advisor	Representative Doris Matsui (D-CA)
Alex Noffsinger	Policy Analyst	US Senate Agriculture, Nutrition, and Forestry Committee, Majority (Senator Debbie Stabenow, D-MI)
Heather Pacheco	Legislative Aide	Senator Martin Heinrich (D-NM)
John Pappas	Energy Policy Counsel	Representative Kathy Castor (D-FL)

500 Fifth Street, NW, Washington, DC 20001
Phone 202.334.2000
climatecrossroads@nas.edu | www.nationalacademies.org

NATIONAL ACADEMIES Sciences Engineering Medicine

Kristi Parrott	Professional Staff Member	House Science, Space, and Technology Committee, Minority (Representative Deborah Ross, D-NC)
Tim Petty	Senior Professional Staff	House Transportation & Infrastructure Committee, Majority (Representative David Rouzer, R-NC)
Ivan Robles	Professional Staff Member	House Committee on Natural Resources, Minority (Representative Raul Grijalva, D-AZ)
Kylea Rogers	Policy Analyst	House Committee on Energy and Commerce, Minority (Representative Frank Pallone, D-NJ)
Savannah Shaw	Legislative Correspondent	Senate Majority Leader Charles Schumer(D-NY)
Mike Stoever	Legislative Assistant	Senator Gary C. Peters (D-MI)
John (Jay) Tilton	Press Secretary	Senate Agriculture, Nutrition, and Forestry Committee, Majority (Senator Debbie Stabenow, D-MI)
Manu Tupper	Advisor (Formally Policy Advisor & Press Secretary)	Bureau of Ocean Energy Management, Department of the Interior (Formally US Senate Committee on Indian Affairs, Majority - Senator Brian Schatz, D-HI)
Andrea Valdes	Legislative Assistant	Representative Darren Soto (D-FL)
Lauren Vernon	Legislative Director	Representative Melanie A. Stansbury (D-NM)
Lauren Wustenberg	Counsel	Senate Committee on Agriculture, Nutrition & Forestry Majority, Majority (Senator Debbie Stabenow, D-MI)

Climate Crossroads Congressional Fellowship National Academies Staff

The individuals listed below are National Academies staff who directly work on the Climate Crossroads Congressional Fellowship program as part of their job responsibilities.

Name	***Title***	***Role***
Ryan Gallasch	Congressional Affairs Officer	Fellowship Director
Laura Lyon	Program Officer	Module Development Lead
Nikita Uberoi	Senior Program Assistant	Module Logistics Lead
Chris King	Executive Director, NAS Office of Congressional and Government Affairs	Fellowship Leadership & Oversight

NATIONAL ACADEMIES Sciences Engineering Medicine

Amanda Staudt	Senior Director, Climate Crossroads	Fellowship Leadership & Oversight
Amanda Purcell	Associate Director, Climate Crossroads	Weekend Seminar Logistics Secondary Lead
Tucker Nelson	Congressional Affairs Officer	Fellow Point of Contact
Alex Reich	Program Office	Module Development Secondary Lead

National Academies Program Units Staff

The individuals listed below are National Academies staff who work in other units within the National Academies, and are collaborating with the Climate Crossroads Congressional Fellowship to develop and deliver the modules planned for the Weekend Seminar due to their subject matter expertise.

Name	***Title***	***Role***
Apurva Dave	Director, NAS Climate Security Roundtable	National Security Module Lead
Jen Park	Senior Program Officer, NAS Committee on National Statistics	Migration Module Lead
April Melvin	Senior Program Officer, NAS Board on Atmospheric Sciences and Climate	Ecosystems Module Lead
Robin Schoen	Director, NAS Board on Agriculture and Natural Resources	Agriculture & Food Module Lead
Laura Ehlers	Senior Program Officer, NAS Water Science and Technology Board	Water Module Lead
Stephanie Johnson	Senior Program Officer, NAS Water Science and Technology Board	Water Module Secondary Lead

NATIONAL ACADEMIES Sciences Engineering Medicine

External Subject Matter Experts Volunteers

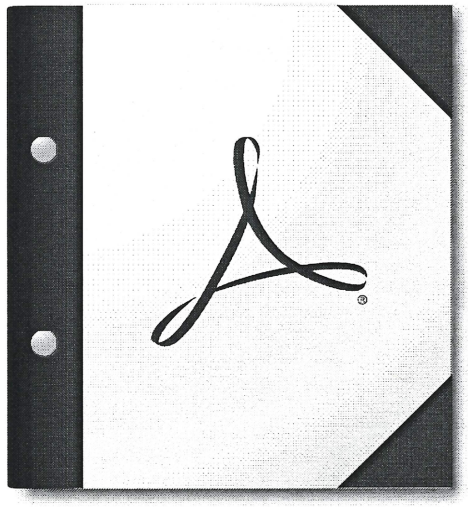
The individuals listed below are external volunteers invited to participate in the Weekend Seminar to deliver module content based on their subject matter expertise. Their knowledge and experience will supplement that of National Academies staff members.

Name	*Title*	*Affiliation*	*Role*
Marc Rosenblum	Deputy Assistant Secretary	Office of Immigration Statistics, DHS	Migration and National Security Module Speaker
Julie Waters	Senior Technical Advisor for Data & Analytics	FEMA	Migration and National Security Module Speaker
John Foster	Branch Chief	Office of Science and Technology's Recreational Statistics Branch, NOAA	Migration and National Security Module Speaker
Nancy Grimm	Professor of Ecology	School of Life Sciences, Arizona State University	Ecosystems Module Speaker
Nancy Knowlton	Sant Chair in Marine Science	Smithsonian National Museum of Natural History	Ecosystems Module Speaker
Monica Turner	Professor	Department of Integrative Biology, University of Wisconsin	Ecosystems Module Speaker
Bronson Griscom	Vice President	Natural Climate Solutions, Conservation International	Ecosystems Module Speaker
Court Stevenson	Professor Emeritus	Horn Point Laboratory, University of Maryland Center for Environmental Science	Horn Point Laboratory Site Visit Speaker
Kenny Rose	Professor	Horn Point Laboratory, University of Maryland Center for Environmental Science	Horn Point Laboratory Site Visit Speaker
Mike Sieracki	Director	Horn Point Laboratory, University of Maryland Center for Environmental Science	Horn Point Laboratory Site Visit Speaker
Ernie Shea	President	Solutions from the Land	Agriculture & Food Module Speaker

500 Fifth Street, NW, Washington, DC 20001
Phone 202.334.2000
climatecrossroads@nas.edu | www.nationalacademies.org

NATIONAL ACADEMIES *Sciences Engineering Medicine*

Ermias Kebreab	Chair	Department of Animal Science, UC Davis	Agriculture & Food Module Speaker
Eric Davidson	Professor	University of Maryland Center for Environmental Science	Agriculture & Food Module Speaker
Julie Bailey-Serres	Professor	Department of Botany and Plant Sciences, UC Riverside	Agriculture & Food Module Speaker
Trey Hill	Farmer	Harborview Farms, Rock Hall, MD	Agriculture & Food Module Speaker
Bobby Hutchison	Farmer	Hutchison Brothers Farm, Talbot County, MD	Agriculture & Food Module Speaker
Jordan Fishback	Director of Planning and Policy Research	Water Institute	Water Module Speaker
Chris Milly	Retired (formally Research Hydrologist)	Formally USGS	Water Module Speaker



For the best experience, open this PDF portfolio in Acrobat X or Adobe Reader X, or later.

Get Adobe Reader Now!

NATIONAL ACADEMIES *Sciences Engineering Medicine*

Climate Crossroads Congressional Fellowship: Weekend Seminar

With financial support from the National Academies of Sciences, Engineering, and Medicine

Background

Location: Cambridge, Maryland

Dates: March 15th – 17th, 2024

Mission Goals: The Climate Crossroads (CCX) Congressional Fellowship has been established to provide current Congressional staff with a solid grounding in the science, engineering, and health dimensions of climate change, as well as opportunities to engage in dialogue with colleagues from diverse policy backgrounds. The weekend seminar is planned as a key component of a series of training modules fellows engage with over the course of their fellowship. Most training modules are two hours once monthly, but the weekend seminar will enable an extended training period for participants to engage with program materials with the off-site location facilitating the opportunity to connect information gained in the classroom to communities on the ground. The weekend seminar will also serve as a sustained opportunity for fellows to engage with their peers and the larger scientific community on a range of climate-related topics.

Relevance to Official Duties: CCX Congressional Fellows participate in the National Academies' Climate Crossroads Congressional Fellowship as part of their official duty to (1) build their capacity for science informed policy making, (2) engage in dialogue with peers, and (3) enhance access to leading science, engineering, and medicine for both themselves and their offices.

Location: Cambridge, MD was selected as the weekend retreat destination due to its direct economic, cultural, and geographic ties to the areas of climate change to be addressed during the seminar.

500 Fifth Street, NW, Washington, DC 20001
Phone 202.334.2000
climatecrossroads@nas.edu | www.nationalacademies.org

NATIONAL ACADEMIES Sciences Engineering Medicine

Itinerary

Itinerary below is tentative; times and speakers are subject to change.

Day 1 - Friday, March 15th: Travel

3:30 PM – 6:00 PM

Transportation from Washington, DC to Cambridge, MD (Hyatt Regency Chesapeake Bay) – 3:30 PM Departure Time

CCX Congressional Fellows and National Academies CCX Program Staff will depart from the National Academies Keck Center by bus at 3:30 PM

Locations:

- Keck Center, 500 5th St NW, Washington, DC, 20001
- Hyatt Regency Chesapeake Bay, 100 Heron Blvd, US-50, Cambridge, MD 21613

6:00 PM – 6:30 PM

Hotel Check-in – 6:00 PM Approximate Arrival Time

6:30 PM – 7:00 PM

Introduction and Overview of the National Academies

CCX Congressional Fellows will receive information on the evening's activities in addition to a safety and facilities overview of the Hyatt Regency Chesapeake Bay.

National Academies staff will then provide an informational overview of the structure of the National Academies, different scientific outputs, the processes for developing a consensus report, and the role of the National Academies in the larger policy landscape.

Attendees:

- **Presenters:** Ryan Gallasch (Congressional Affairs Officer, NASEM), Amanda Staudt (Senior Director, NASEM), Christopher King (Executive Director, NASEM)

500 Fifth Street, NW, Washington, DC 20001
Phone 202.334.2000
climatecrossroads@nas.edu | www.nationalacademies.org

NATIONAL ACADEMIES Sciences Engineering Medicine

- **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM)

Location: Clipper Room - Hyatt Regency Chesapeake Bay

7:00 PM – 8:45 PM **Working Dinner and Weekend Overview**

National Academies staff will provide background information on the weekend including overviews of the scientific content and logistics. Climate Crossroads program leadership will deliver remarks. CCX Congressional Fellows will have the opportunity to meet instructors, invited experts, and NASEM staff while being served dinner. Prompts and questions will be provided to the group to facilitate discussion during the meal.

Attendees:

- **Presenters:** Ryan Gallasch (Congressional Affairs Officer, NASEM), Amanda Staudt (Senior Director, NASEM), Christopher King (Executive Director, NASEM)
- **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM)

Location: Clipper Room - Hyatt Regency Chesapeake Bay

NATIONAL ACADEMIES Sciences Engineering Medicine

Day 2 - Saturday, March 16th

7:30 AM – 8:00 AM **Working Breakfast and Daily Overview**

CCX Congressional Fellows will be served breakfast while National Academies staff present an itinerary of the day and overview basic background information relevant to the two learning modules (Ecosystems and Agriculture & Food) and site visit (Horn Point Laboratory, University of Maryland Center for Environmental Science).

Attendees:

- **Presenter:** Ryan Gallasch (Congressional Affairs Officer, NASEM)
- **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM)

Location: Clipper Room - Hyatt Regency Chesapeake Bay

8:00 AM – 10:00 AM	**Learning Module: Ecosystems**
8:00 AM – 8:10 AM	Welcome and Introduction
8:10 AM – 8:20 AM	Lecture: Building Ecosystem and Societal Resilience in a Changing Climate *This lecture will explore the interconnectedness of ecosystems and society, what it means to support the adaptation of ecosystems to climate change, and the societal benefits of conserving or managing ecosystems.*
8:20 AM – 8:30 AM	Lecture: Ecosystems and Mitigating the Impacts of Climate Change *This lecture will cover the role of ecosystems in mitigating climate change, strategies to maximize these benefits, and the co-benefits of healthy ecosystems.*
8:30 AM – 8:40 AM	Lecture: Wildfires and Indigenous Land Stewardship *This lecture will cover the interconnections and compounding*

NATIONAL ACADEMIES *Sciences Engineering Medicine*

		nature of climate change and wildfires, how it impacts biodiversity, and the role of Indigenous land stewardship.
8:40 AM – 8:50 AM		Lecture: Climate Change and Ocean Ecosystems *This lecture will cover the fundamentals of ocean ecosystems including zooplankton ecology in the context of changing environmental conditions.*
8:50 AM – 9:00 AM		*Q&A with Invited Experts*
9:00 AM – 9:10 AM		*Break*
9:10 AM – 9:30 AM		*Breakout Discussions on Changing Ecosystems*
9:30 AM – 9:50 AM		*Facilitated Group Discussion on Breakout Activity*
9:50 AM – 10:00 AM		*Learning Module Wrap-up*
		Attendees: • **Instructor:** April Melvin (Senior Program Officer, NASEM) • **Invited Speakers:** Nancy Grimm (Professor of Ecology, School of Life Sciences, Arizona State University), Bronson Griscom (Vice President, Natural Climate Solutions, Conservation International), Don Hankins (Professor, Geography & Planning Department, California State University Chico), Mike Roman (Professor Emeritus, Horn Point Laboratory, University of Maryland Center for Environmental Science) • **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM) **Location:** Clipper Room - Hyatt Regency Chesapeake Bay

10:00 AM – 10:20 AM **Transportation to Horn Point Laboratory and "Living Shoreline" Project Site Visit**

10:20 AM – 2:10 PM **Horn Point Laboratory and "Living Shoreline" Project Site Visit and Lunch**

CCX Congressional Fellows will visit the University of Maryland's Horn Point Laboratory and their "Living Shoreline" project at the Cambridge Waterfront to learn about the impacts of changing climate on coastal ecology, sea-level rise, and aquaculture. The visit will begin with a presentation on Chesapeake Bay facts and

NATIONAL ACADEMIES Sciences Engineering Medicine

issues, Horn Point research that seeks solutions for restoration, and the public's role as stewards of the Bay. There will be several stops on the tour that cover the role of science in: (1) the physical oceanography of the Bay, (2) submerged aquatic vegetation and the Bay ecosystem, (3) oyster restoration, and (4) the implementation of the "Living Shoreline" project. The group will break for a boxed lunch halfway through the site visit.

Attendees:

- **Presenters:** Court Stevenson (Professor Emeritus, Horn Point Laboratory, University of Maryland Center for Environmental Science), Kenny Rose (Professor, Horn Point Laboratory, University of Maryland Center for Environmental Science), Mike Sieracki (Director, Horn Point Laboratory, University of Maryland Center for Environmental Science)
- **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM)

Locations:

- Horn Point Laboratory, University of Maryland Center for Environmental Science, 5475 Lovers Lane, Cambridge MD 21613
- "Living Shoreline" Project, Long Wharf Park, 2 Yacht Club Drive, Cambridge, MD 21613

2:10 PM – 2:30 PM **Transportation back to Hyatt Regency Chesapeake Bay**

2:30 PM – 4:45 PM	**Learning Module: Agriculture & Food**
2:30 PM – 2:50 PM	Lecture: Climate Change and Agriculture *This lecture will lay the foundation for the module, covering the fundamentals of agricultural systems in the context of changing climate.*

NATIONAL ACADEMIES Sciences Engineering Medicine

2:50 PM – 3:10 PM		Lecture: Climate-smart Agriculture *This lecture will cover the concept of "climate-smart agriculture", an integrated approach to managing land to help adapt to and mitigate the impacts of climate change.*
3:10 PM – 3:30 PM		Lecture: Plant Science for Adaptation *This lecture will cover the basics of plant science and how it is used to develop climate-resilient crops.*
3:30 PM – 3:40 PM		*Break*
3:40 PM – 4:00 PM		Lecture: Reducing Emissions in Animal Agriculture *This lecture will explain sources of greenhouse gas emissions from animal agriculture and different approaches the sector can take to decarbonize.*
4:00 PM – 4:20 PM		Lecture: Soil Carbon Sequestration *This lecture covers the process of soil carbon sequestration, a process that removes carbon from the atmosphere and stores it in the soil carbon pool, and the benefits and limits of this process as a negative emissions technology.*
4:20 PM – 4:40 PM		*Facilitated Group Discussion on Food Systems Change*
4:40 PM – 4:45 PM		*Learning Module Wrap-up*
		Attendees: • **Instructor:** Robin Schoen (Board Director, NASEM) • **Invited Speakers:** Julie Bailey-Serres (Professor, Department of Botany and Plant Sciences, UC Riverside), Ermias Kebreab (Chair, Department of Animal Science, UC Davis), Kate Tully (Associate Professor of Agroecology, Department of Plant Science and Landscape Architecture, University of Maryland), Trey Hill (Farmer, Rock Hall), Bobby Hutchison (Farmer, Talbot County) • **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM) **Location:** Clipper Room - Hyatt Regency Chesapeake Bay

4:45 PM – 5:30 PM **Scheduled Break**

NATIONAL ACADEMIES Sciences Engineering Medicine

5:30 PM – 6:30 PM **LabX Extreme Event: Natural Disaster Simulation**

CCX Congressional Fellows will participate in a natural disaster simulation. They will role-play a variety of stakeholders and work together to make decisions and solve problems in response to a natural disaster scenario (earthquake, hurricane, or flood).

Developed by the National Academy of Sciences' Marian Koshland Science Museum (now LabX) in collaboration with the Resilient America Roundtable, Extreme Event's content draws on recommendations from the seminal 2012 National Academies consensus study report Disaster Resilience: A National Imperative and has been reviewed by experts and staff of the National Academies.

Attendees:

- **Facilitators:** Laura Lyon (Program Officer, NASEM), Keri Stoever (Associate Director, NAS)
- **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM)

Location: Clipper Room - Hyatt Regency Chesapeake Bay

6:30 PM – 8:30 PM **Working Dinner with Invited Experts and Module Instructors**

CCX Congressional Fellows will attend dinner with invited experts and National Academies staff to continue discussions on climate change impacts on ecosystems, agriculture, and food. Prompts and questions will be provided to the group to facilitate discussion during the meal.

Attendees:

- **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM), Invited Experts and Instructors from Learning Modules (Ecosystems and Agriculture & Food, listed above), Invited Experts and Faculty from Horn Pont Lab (listed above)

Location: Water's Edge Grill - Hyatt Regency Chesapeake Bay

500 Fifth Street, NW, Washington, DC 20001
Phone 202.334.2000
climatecrossroads@nas.edu | www.nationalacademies.org

NATIONAL ACADEMIES Sciences Engineering Medicine

Day 3 - Sunday, March 17th: Travel

8:00 AM – 9:00 AM **Working Breakfast and Daily Overview**

CCX Congressional Fellows will be served breakfast while National Academies staff present background information relevant to the Water learning module and travel logistics for returning to Washington DC.

Attendees:

- **Presenter:** Ryan Gallasch (Congressional Affairs Officer, NASEM)
- **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM)

Location: Clipper Room - Hyatt Regency Chesapeake Bay

9:00 AM – 11:15 AM		**Learning Module: Water – Building Resiliency to Future Extremes**
9:00 AM – 9:05 AM		Welcome and Introduction
9:05 AM – 9:30 AM		Lecture: The Effects of Nonstationarity on Water Resources Management *This lecture will cover the concept of nonstationarity versus stationarity, the idea that natural systems fluctuate within an unchanging envelope of variability, in the context of managing water resources in a changing climate. This lecture will prepare Fellows for the subsequent interactive game.*
9:30 AM – 10:05 AM		*Interactive Game: Decisions for the Decade*
10:05 AM – 10:15 AM		*Break*
10:15 AM – 10:30 AM		Lecture: Water Resource Management in Louisiana *This lecture will present examples from New Orleans and rural Louisiana, focusing on how these areas respond to periodsama of too much water.*

500 Fifth Street, NW, Washington, DC 20001
Phone 202.334.2000
climatecrossroads@nas.edu | www.nationalacademies.org

NATIONAL ACADEMIES *Sciences Engineering Medicine*

10:30 AM – 10:45 AM		Lecture: Water Resource Studies at the National Academies *This lecture will explain multiple NASEM studies covering the Everglades and droughts in California and Texas.*
10:45 AM – 11:00 AM		Lecture: Water Equity *This lecture will explore issues around water equity and access with a focus on underserved areas during drought.*
11:00 AM – 11:10 AM		*Q&A with Invited Experts*
11:10 AM – 11:15 AM		*Learning module wrap-up*
		Attendees: • **Instructors:** Stephanie Johnson (Senior Program Officer, NASEM), Laura Ehlers (Senior Program Officer, NASEM) • **Invited Speakers:** Jordan Fishback (Director of Planning and Policy Research, Water Institute of the Gulf), Chris Milly (Scientist Emeritus, USGS), Camille Pannu (Associate Clinical Professor of Law, Columbia Law School, Columbia University) • **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM) **Location:** Clipper Room - Hyatt Regency Chesapeake Bay

11:15 AM – 12:00 PM **Check-out**

12:00 PM – 1:00 PM **Lunch and Weekend Debrief**

CCX Congressional Fellows will have the opportunity to discuss cross-cutting themes from all four weekend modules. Prompts and questions will be provided to the group to facilitate discussion during the meal. National Academies staff will provide closing remarks.

Attendees:

- **Presenter:** Ryan Gallasch (Congressional Affairs Officer, NASEM), Amanda Staudt (Senior Director, NASEM)
- **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM)

500 Fifth Street, NW, Washington, DC 20001
Phone 202.334.2000
climatecrossroads@nas.edu | www.nationalacademies.org

NATIONAL ACADEMIES *Sciences Engineering Medicine*

Location: Windjammer Room - Hyatt Regency Chesapeake Bay

1:00 PM – 3:30 PM **Transportation back to Washington, DC** – 1:00 PM Departure Time

CCX Congressional Fellows and CCX Program Staff will be dropped off at the National Academies Keck Center at 3:30 PM

500 Fifth Street, NW, Washington, DC 20001
Phone 202.334.2000
climatecrossroads@nas.edu | www.nationalacademies.org

NATIONAL ACADEMIES *Sciences Engineering Medicine*

Climate Crossroads Congressional Fellowship: Weekend Seminar

With financial support from the National Academies of Sciences, Engineering, and Medicine

Background

Location: Cambridge, Maryland

Dates: March 15th – 17th, 2024

Mission Goals: The Climate Crossroads (CCX) Congressional Fellowship has been established to provide current Congressional staff with a solid grounding in the science, engineering, and health dimensions of climate change, as well as opportunities to engage in dialogue with colleagues from diverse policy backgrounds. The weekend seminar is planned as a key component of a series of training modules fellows engage with over the course of their fellowship. Most training modules are two hours once monthly, but the weekend seminar will enable an extended training period for participants to engage with program materials with the off-site location facilitating the opportunity to connect information gained in the classroom to communities on the ground. The weekend seminar will also serve as a sustained opportunity for fellows to engage with their peers and the larger scientific community on a range of climate-related topics.

Relevance to Official Duties: CCX Congressional Fellows participate in the National Academies' Climate Crossroads Congressional Fellowship as part of their official duty to (1) build their capacity for science informed policy making, (2) engage in dialogue with peers, and (3) enhance access to leading science, engineering, and medicine for both themselves and their offices.

Location: Cambridge, MD was selected as the weekend retreat destination due to its direct economic, cultural, and geographic ties to the areas of climate change to be addressed during the seminar.

500 Fifth Street, NW, Washington, DC 20001
Phone 202.334.2000
climatecrossroads@nas.edu | www.nationalacademies.org

NATIONAL ACADEMIES Sciences Engineering Medicine

Itinerary

Itinerary below is tentative; times and speakers are subject to change.

Day 1 - Friday, March 15th: Travel

3:30 PM – 6:00 PM

Transportation from Washington, DC to Cambridge, MD (Hyatt Regency Chesapeake Bay) – 3:30 PM Departure Time

CCX Congressional Fellows and National Academies CCX Program Staff will depart from the National Academies Keck Center by bus at 3:30 PM

Locations:

- Keck Center, 500 5th St NW, Washington, DC, 20001
- Hyatt Regency Chesapeake Bay, 100 Heron Blvd, US-50, Cambridge, MD 21613

6:00 PM – 6:30 PM

Hotel Check-in – 6:00 PM Approximate Arrival Time

6:30 PM – 7:00 PM

Introduction and Overview of the National Academies

CCX Congressional Fellows will receive information on the evening's activities in addition to a safety and facilities overview of the Hyatt Regency Chesapeake Bay.

National Academies staff will then provide an informational overview of the structure of the National Academies, different scientific outputs, the processes for developing a consensus report, and the role of the National Academies in the larger policy landscape.

Attendees:

- **Presenters:** Ryan Gallasch (Congressional Affairs Officer, NASEM), Amanda Staudt (Senior Director, NASEM), Christopher King (Executive Director, NASEM)

500 Fifth Street, NW, Washington, DC 20001
Phone 202.334.2000
climatecrossroads@nas.edu | www.nationalacademies.org

NATIONAL ACADEMIES Sciences Engineering Medicine

- **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM)

Location: Clipper Room - Hyatt Regency Chesapeake Bay

7:00 PM – 8:45 PM **Working Dinner and Weekend Overview**

National Academies staff will provide background information on the weekend including overviews of the scientific content and logistics. Climate Crossroads program leadership will deliver remarks. CCX Congressional Fellows will have the opportunity to meet instructors, invited experts, and NASEM staff while being served dinner. Prompts and questions will be provided to the group to facilitate discussion during the meal.

Attendees:

- **Presenters:** Ryan Gallasch (Congressional Affairs Officer, NASEM), Amanda Staudt (Senior Director, NASEM), Christopher King (Executive Director, NASEM)
- **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM)

Location: Clipper Room - Hyatt Regency Chesapeake Bay

NATIONAL ACADEMIES Sciences Engineering Medicine

Day 2 - Saturday, March 16th

7:30 AM – 8:00 AM **Working Breakfast and Daily Overview**

CCX Congressional Fellows will be served breakfast while National Academies staff present an itinerary of the day and overview basic background information relevant to the two learning modules (Ecosystems and Agriculture & Food) and site visit (Horn Point Laboratory, University of Maryland Center for Environmental Science).

Attendees:

- **Presenter:** Ryan Gallasch (Congressional Affairs Officer, NASEM)
- **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM)

Location: Clipper Room - Hyatt Regency Chesapeake Bay

8:00 AM – 10:00 AM		**Learning Module: Ecosystems**
8:00 AM – 8:10 AM		Welcome and Introduction
8:10 AM – 8:20 AM		Lecture: Building Ecosystem and Societal Resilience in a Changing Climate *This lecture will explore the interconnectedness of ecosystems and society, what it means to support the adaptation of ecosystems to climate change, and the societal benefits of conserving or managing ecosystems.*
8:20 AM – 8:30 AM		Lecture: Ecosystems and Mitigating the Impacts of Climate Change *This lecture will cover the role of ecosystems in mitigating climate change, strategies to maximize these benefits, and the co-benefits of healthy ecosystems.*
8:30 AM – 8:40 AM		Lecture: Wildfires and Indigenous Land Stewardship *This lecture will cover the interconnections and compounding*

NATIONAL ACADEMIES Sciences Engineering Medicine

		nature of climate change and wildfires, how it impacts biodiversity, and the role of Indigenous land stewardship.
8:40 AM – 8:50 AM		Lecture: Climate Change and Ocean Ecosystems *This lecture will cover the fundamentals of ocean ecosystems including zooplankton ecology in the context of changing environmental conditions.*
8:50 AM – 9:00 AM		*Q&A with Invited Experts*
9:00 AM – 9:10 AM		*Break*
9:10 AM – 9:30 AM		*Breakout Discussions on Changing Ecosystems*
9:30 AM – 9:50 AM		*Facilitated Group Discussion on Breakout Activity*
9:50 AM – 10:00 AM		*Learning Module Wrap-up*
		Attendees: • **Instructor:** April Melvin (Senior Program Officer, NASEM) • **Invited Speakers:** Nancy Grimm (Professor of Ecology, School of Life Sciences, Arizona State University), Bronson Griscom (Vice President, Natural Climate Solutions, Conservation International), Don Hankins (Professor, Geography & Planning Department, California State University Chico), Mike Roman (Professor Emeritus, Horn Point Laboratory, University of Maryland Center for Environmental Science) • **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM) **Location:** Clipper Room - Hyatt Regency Chesapeake Bay

10:00 AM – 10:20 AM **Transportation to Horn Point Laboratory and "Living Shoreline" Project Site Visit**

10:20 AM – 2:10 PM **Horn Point Laboratory and "Living Shoreline" Project Site Visit and Lunch**

CCX Congressional Fellows will visit the University of Maryland's Horn Point Laboratory and their "Living Shoreline" project at the Cambridge Waterfront to learn about the impacts of changing climate on coastal ecology, sea-level rise, and aquaculture. The visit will begin with a presentation on Chesapeake Bay facts and

NATIONAL ACADEMIES Sciences Engineering Medicine

issues, Horn Point research that seeks solutions for restoration, and the public's role as stewards of the Bay. There will be several stops on the tour that cover the role of science in: (1) the physical oceanography of the Bay, (2) submerged aquatic vegetation and the Bay ecosystem, (3) oyster restoration, and (4) the implementation of the "Living Shoreline" project. The group will break for a boxed lunch halfway through the site visit.

Attendees:

- **Presenters:** Court Stevenson (Professor Emeritus, Horn Point Laboratory, University of Maryland Center for Environmental Science), Kenny Rose (Professor, Horn Point Laboratory, University of Maryland Center for Environmental Science), Mike Sieracki (Director, Horn Point Laboratory, University of Maryland Center for Environmental Science)
- **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM)

Locations:

- Horn Point Laboratory, University of Maryland Center for Environmental Science, 5475 Lovers Lane, Cambridge MD 21613
- "Living Shoreline" Project, Long Wharf Park, 2 Yacht Club Drive, Cambridge, MD 21613

2:10 PM – 2:30 PM **Transportation back to Hyatt Regency Chesapeake Bay**

2:30 PM – 4:45 PM		**Learning Module: Agriculture & Food**
2:30 PM – 2:50 PM		Lecture: Climate Change and Agriculture *This lecture will lay the foundation for the module, covering the fundamentals of agricultural systems in the context of changing climate.*

NATIONAL ACADEMIES *Sciences Engineering Medicine*

2:50 PM – 3:10 PM		Lecture: Climate-smart Agriculture *This lecture will cover the concept of "climate-smart agriculture", an integrated approach to managing land to help adapt to and mitigate the impacts of climate change.*
3:10 PM – 3:30 PM		Lecture: Plant Science for Adaptation *This lecture will cover the basics of plant science and how it is used to develop climate-resilient crops.*
3:30 PM – 3:40 PM		*Break*
3:40 PM – 4:00 PM		Lecture: Reducing Emissions in Animal Agriculture *This lecture will explain sources of greenhouse gas emissions from animal agriculture and different approaches the sector can take to decarbonize.*
4:00 PM – 4:20 PM		Lecture: Soil Carbon Sequestration *This lecture covers the process of soil carbon sequestration, a process that removes carbon from the atmosphere and stores it in the soil carbon pool, and the benefits and limits of this process as a negative emissions technology.*
4:20 PM – 4:40 PM		*Facilitated Group Discussion on Food Systems Change*
4:40 PM – 4:45 PM		*Learning Module Wrap-up*
		Attendees: • **Instructor:** Robin Schoen (Board Director, NASEM) • **Invited Speakers:** Julie Bailey-Serres (Professor, Department of Botany and Plant Sciences, UC Riverside), Ermias Kebreab (Chair, Department of Animal Science, UC Davis), Kate Tully (Associate Professor of Agroecology, Department of Plant Science and Landscape Architecture, University of Maryland), Trey Hill (Farmer, Rock Hall), Bobby Hutchison (Farmer, Talbot County) • **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM) **Location:** Clipper Room - Hyatt Regency Chesapeake Bay

4:45 PM – 5:30 PM **Scheduled Break**

NATIONAL ACADEMIES Sciences Engineering Medicine

5:30 PM – 6:30 PM **LabX Extreme Event: Natural Disaster Simulation**

CCX Congressional Fellows will participate in a natural disaster simulation. They will role-play a variety of stakeholders and work together to make decisions and solve problems in response to a natural disaster scenario (earthquake, hurricane, or flood).

Developed by the National Academy of Sciences' Marian Koshland Science Museum (now LabX) in collaboration with the Resilient America Roundtable, Extreme Event's content draws on recommendations from the seminal 2012 National Academies consensus study report Disaster Resilience: A National Imperative and has been reviewed by experts and staff of the National Academies.

Attendees:

- **Facilitators:** Laura Lyon (Program Officer, NASEM), Keri Stoever (Associate Director, NAS)
- **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM)

Location: Clipper Room - Hyatt Regency Chesapeake Bay

6:30 PM – 8:30 PM **Working Dinner with Invited Experts and Module Instructors**

CCX Congressional Fellows will attend dinner with invited experts and National Academies staff to continue discussions on climate change impacts on ecosystems, agriculture, and food. Prompts and questions will be provided to the group to facilitate discussion during the meal.

Attendees:

- **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM), Invited Experts and Instructors from Learning Modules (Ecosystems and Agriculture & Food, listed above), Invited Experts and Faculty from Horn Pont Lab (listed above)

Location: Water's Edge Grill - Hyatt Regency Chesapeake Bay

NATIONAL ACADEMIES Sciences Engineering Medicine

Day 3 - Sunday, March 17th: Travel

8:00 AM – 9:00 AM **Working Breakfast and Daily Overview**

CCX Congressional Fellows will be served breakfast while National Academies staff present background information relevant to the Water learning module and travel logistics for returning to Washington DC.

Attendees:

- **Presenter:** Ryan Gallasch (Congressional Affairs Officer, NASEM)
- **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM)

Location: Clipper Room - Hyatt Regency Chesapeake Bay

9:00 AM – 11:15 AM		**Learning Module: Water – Building Resiliency to Future Extremes**
9:00 AM – 9:05 AM		Welcome and Introduction
9:05 AM – 9:30 AM		Lecture: The Effects of Nonstationarity on Water Resources Management *This lecture will cover the concept of nonstationarity versus stationarity, the idea that natural systems fluctuate within an unchanging envelope of variability, in the context of managing water resources in a changing climate. This lecture will prepare Fellows for the subsequent interactive game.*
9:30 AM – 10:05 AM		*Interactive Game: Decisions for the Decade*
10:05 AM – 10:15 AM		*Break*
10:15 AM – 10:30 AM		Lecture: Water Resource Management in Louisiana *This lecture will present examples from New Orleans and rural Louisiana, focusing on how these areas respond to periodsama of too much water.*

NATIONAL ACADEMIES Sciences Engineering Medicine

10:30 AM – 10:45 AM		Lecture: Water Resource Studies at the National Academies *This lecture will explain multiple NASEM studies covering the Everglades and droughts in California and Texas.*
10:45 AM – 11:00 AM		Lecture: Water Equity *This lecture will explore issues around water equity and access with a focus on underserved areas during drought.*
11:00 AM – 11:10 AM		*Q&A with Invited Experts*
11:10 AM – 11:15 AM		*Learning module wrap-up*
		Attendees: • **Instructors:** Stephanie Johnson (Senior Program Officer, NASEM), Laura Ehlers (Senior Program Officer, NASEM) • **Invited Speakers:** Jordan Fishback (Director of Planning and Policy Research, Water Institute of the Gulf), Chris Milly (Scientist Emeritus, USGS), Camille Pannu (Associate Clinical Professor of Law, Columbia Law School, Columbia University) • **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM) **Location:** Clipper Room - Hyatt Regency Chesapeake Bay

11:15 AM – 12:00 PM **Check-out**

12:00 PM – 1:00 PM **Lunch and Weekend Debrief**

CCX Congressional Fellows will have the opportunity to discuss cross-cutting themes from all four weekend modules. Prompts and questions will be provided to the group to facilitate discussion during the meal. National Academies staff will provide closing remarks.

Attendees:

- **Presenter:** Ryan Gallasch (Congressional Affairs Officer, NASEM), Amanda Staudt (Senior Director, NASEM)
- **Participants:** CCX Congressional Fellows, Fellowship Program Staff (NASEM)

NATIONAL ACADEMIES *Sciences Engineering Medicine*

Location: Windjammer Room - Hyatt Regency Chesapeake Bay

1:00 PM – 3:30 PM **Transportation back to Washington, DC** – 1:00 PM Departure Time

CCX Congressional Fellows and CCX Program Staff will be dropped off at the National Academies Keck Center at 3:30 PM

500 Fifth Street, NW, Washington, DC 20001
Phone 202.334.2000
climatecrossroads@nas.edu | www.nationalacademies.org