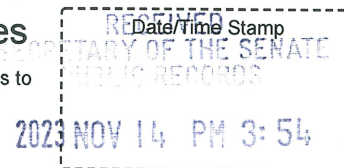


RE-2 Employee Post Travel Disclosure of Travel Expenses

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):

Massachusetts Institute of Technology

Travel Dates:

October 10-12, 2023

Name of accompanying family member (if any):

n/a

Relationship to Traveler:

n/a

Total Expenses

Transportation Expenses	Lodging Expenses	Meals Expenses	Other Expenses (Amount & Description)
\$469.05	\$716.58	\$201.14	N/A

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.

11/14/23

Chris Avila

Date

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.

11/14/23

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

Were there any changes to the pre-approved itinerary?

☐ Yes ☒ No

Explanation:

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

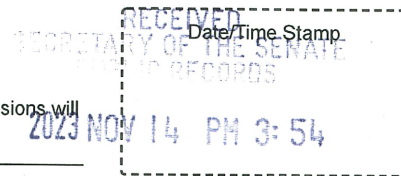
☐ Yes ☒ No

Explanation:



RE-1 Employee Pre-Travel Authorization

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:

Chris Avila

Employing Office/Committee:

Sen. Coons

Private Sponsor(s):

Massachusetts Institute of Technology

Destination(s):

Cambridge, Devens, and Woburn, MA

Travel Dates:

October 10-12, 2023

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.

The trip is centered on "addressing climate change" and I am an energy and climate staffer.

Do you have an accompanying family member or spouse on this trip? Name and Relationship to Traveler:

☐

(signify "yes" by checking box)

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

9/7/23

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)

Christopher A. Coons

Chris Avila

_____ hereby authorize _____
(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)

9/7/23

Date

Signature of Supervising Senator/Officer



MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Maria T. Zuber

*Vice President for Research**E. A. Griswold Professor of Geophysics*

77 Massachusetts Avenue, Building 3-234

Cambridge, Massachusetts 02139-4307

Phone (617) 253-3206

Email mtz@mit.edu

July 24, 2023

Mr. Chris Avila

Legislative Assistant

Office of Senator Chris Coons

218 Russell Senate Office Building

Washington, DC 20510

Dear Mr. Avila,

I am writing to invite you to attend an MIT seminar for senior Congressional staff. The seminar, **“Addressing climate change: Challenges and opportunities,”** will take place on the MIT campus in Cambridge, MA from October 10-12, 2023. To allow for robust discussion, invitations are being extended only to senior Congressional staff who work on energy-related policy areas.

We are able to cover the cost of travel and hotel accommodations and are carefully following House and Senate Ethics Committee requirements. The necessary ethics approval forms will be provided to you should you apply to attend.

As you will see in the agenda below, the seminar will include sessions with MIT faculty on a range of technologies and policy issues, as well as tours of Commonwealth Fusion Systems and Boston Metal, which is decarbonizing steel production.

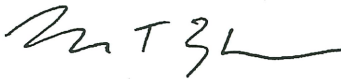
The seminar, which is sponsored by my office, was organized by the MIT Energy Initiative (MITEi) and the MIT Washington Office. If you would like to attend, please apply no later

than close of business on Wednesday, September 6 by **CLICKING HERE**. This will allow sufficient time for filing the necessary paperwork with your Ethics Committee by Monday, September 11. Spaces are limited, so early application is strongly suggested.

If you have received this invitation in error and the seminar is not relevant to your portfolio, please feel free to forward it to a colleague who focuses on energy and/or climate issues.

Helen Haislmaier in the MIT Washington Office will be happy to answer any questions, and she can be reached at (202) 789-1828 or at helenh@mit.edu.

Sincerely,

A handwritten signature in black ink, appearing to read 'MTZL' with a long horizontal flourish extending to the right.

Maria T. Zuber



Massachusetts Institute of Technology
Senior Congressional Staff Seminar
Addressing climate change: Challenges and opportunities
 October 10-12, 2023

AGENDA

Tuesday, October 10: Day 1

Seminar location: Samberg Conference Center, 7th floor, Salons T and West

8:55 am **American Airlines AA4362 Flight from Washington, D.C. to Boston**

10:45 am **Land in Boston, MA**

10:45-11:30 am **Staff arrive at Boston Logan airport**

**Ground transportation from Boston Logan Airport to Residence Inn
by Marriott Boston Cambridge (MIT buses)**

11:30 am-12:00 pm **Check into Residence Inn by Marriott Boston Cambridge**
 120 Broadway, Cambridge, MA 02142

11:45 am **Bus from Residence Inn by Marriott Boston Cambridge to
Samberg Conference Center for registration**
 Samberg Conference Center, 7th floor, Salons T and West, 50 Memorial
 Drive, Cambridge, MA 02142

12:00-1:15 pm **Welcome, introductions, and luncheon**
 Samberg Conference Center, 7th floor, Salons T and West

12:10-12:30 pm **Participants introduce themselves**

12:30-12:45 pm **Maria T. Zuber**, E. A. Griswold Professor of Geophysics, MIT
 Department of Earth, Atmospheric and Planetary Sciences and MIT Vice
 President for Research
*Dr. Zuber will welcome participants on behalf of MIT's central
 administration and provide an overview of MIT's climate action plan.*

12:45-1:15 pm **Christopher Knittel**, Deputy Director for Policy, MIT Energy Initiative;
 George P. Shultz Professor of Energy Economics, MIT Sloan School of
 Management; Director, MIT Center for Energy and Environmental Policy
 Research
*Professor Knittel will provide a brief background on MITEI, MIT's energy
 hub, focused on developing low- and no-carbon solutions to meet global*



energy needs. In addition, he will give an overview of the seminar's program.

1:15-2:30 pm

Offshore wind energy opportunities and challenges

This panel will explore the opportunities and the role offshore wind could play in meeting U.S. climate goals and the key technical issues in building out offshore wind as an energy source.

- **Moderator: Dharik Mallapragada**, Principal Research Scientist, MIT Energy Initiative
- **Michael F. Howland**, Esther and Harold E. Edgerton Assistant Professor of Civil and Environmental Engineering, MIT Department of Civil and Environmental Engineering
- **Marija Ilić**, Joint Adjunct Professor, MIT Electrical Engineering & Computer Science; Senior Research Scientist, MIT Laboratory for Information and Decision Systems
- **Paul Sclavounos**, Professor of Mechanical Engineering and Naval Architecture, MIT Department of Mechanical Engineering

2:30-2:45 pm

Break

2:45-4:00 pm

Nuclear fission: Its role and challenges

This panel will explore the role nuclear fission could play in meeting U.S. climate goals and the key technical and economic issues in taking advantage of it.

- **Moderator: Jacopo Buongiorno**, Professor of Nuclear Science and Engineering, MIT Department of Nuclear Science and Engineering
- **Scott Kemp**, Associate Professor, MIT Department of Nuclear Science and Engineering; Director, MIT Laboratory for Nuclear Security and Policy
- **Koroush Shirvan**, Atlantic Richfield Career Development Professor in Energy Studies, MIT Department of Nuclear Science and Engineering
- **Haruko Wainwright**, Norman C. Rasmussen Career Development Professor of Nuclear Science and Engineering, and of Civil and Environmental Engineering and Assistant Professor, MIT Department of Nuclear Science and Engineering and Department of Civil and Environmental Engineering



4:00-5:15 pm

Short-term pollutants

The focus in mitigation discussions is often focused on CO₂, but there are shorter term greenhouse gases, like methane, that present significant global warming impacts. Additionally, there are gases, like hydrogen, that are projected to play much bigger roles as energy carriers in the future that have poorly understood potential impacts on warming. The goal of this session is to inform staffers about the key technical issues in reducing the emissions of the pollutants and removing them from the atmosphere.

- **Moderator: Jennifer Morris**, Principal Research Scientist, MIT Energy Initiative and MIT Joint Program on the Science and Policy of Global Change
- **Desirée L. Plata**, Associate Professor, MIT Department of Civil and Environmental Engineering
- **Susan Solomon**, Martin Professor of Environmental Studies, MIT Department of Earth, Atmospheric, & Planetary Sciences

5:15 pm

Walk to Residence Inn by Marriott Boston Cambridge

Residence Inn by Marriott Boston Cambridge, 120 Broadway, Cambridge, MA 02142

6:15-8:30 pm

Dinner with MIT faculty and students

Doc Edgerton Room, Residence Inn by Marriott Boston Cambridge, 120 Broadway, Cambridge, MA 02142

Working event for seminar participants to engage with MIT professors, panel participants, and students to further discuss the topics explored during the afternoon sessions.

Wednesday, October 11: Day 2

7:00-8:00 am

Breakfast at Residence Inn by Marriott Boston Cambridge

Residence Inn by Marriott Boston Cambridge, 120 Broadway, Cambridge, MA 02142

8:00-8:15 am

Walk to Bush Room

8:15-9:30 am

Priorities in decarbonizing surface transportation/smart cities

This panel will explore the role reducing emissions from surface transportation could play in meeting U.S. climate goals and the key opportunities and issues in redesigning U.S. surface transportation systems.



- **Moderator: Jinhua Zhao**, Professor of Cities and Transportation, MIT Department of Urban Studies and Planning; Founder, MIT Mobility Initiative
- **Jim Aloisi**, Lecturer, Transportation Policy and Planning, MIT Department of Urban Studies and Planning; Director, MIT Transit Research Consortium
- **Liz Reynolds**, Lecturer, MIT Department of Urban Studies and Planning
- **Jessika Trancik**, Professor, MIT Institute for Data, Systems, and Society

9:30-10:45 am

Assessing the need for hydrocarbons in the economy going forward

As we press towards a net-zero emissions economy by mid-century, we cannot phase out fossil fuels from the economy faster than we can build out net-zero emissions alternatives, including associated infrastructure. This panel will explore the role hydrocarbons may continue to play in the U.S. energy mix and the key issues in reducing that role, including in the aviation and building sectors.

- **Moderator: William H. Green**, Hoyt Hottel Professor in Chemical Engineering, MIT Department of Chemical Engineering
- **Florian Allroggen**, Executive Director, Aerospace Climate & Sustainability; Research Scientist, MIT Department of Aeronautics and Astronautics
- **Sergey Paltsev**, Senior Research Scientist, MIT Energy Initiative; Deputy Director MIT Joint Program on the Science and Policy of Global Change
- **Christoph Reinhart**, Alan and Terri Spoon Professor of Architecture and Climate, and Director, Building Technology Program, MIT Department of Architecture

10:45-11:00 am

Break

11:00 am-12:15 pm

New tech approaches to climate/life sciences and climate change

This panel will explore the role advances in the biological sciences such as the genetic manipulation of crops, novel materials, and biomanufacturing can play in meeting U.S. climate goals.

- **Moderator: Angela Belcher**, James Mason Crafts Professor of Biological Engineering and Materials Science and Engineering, MIT Department of Biological Engineering and Department of Materials Science and Engineering



- **David L. Des Marais**, Cecil and Ida Green Career Development Professor, MIT Department of Civil and Environmental Engineering
- **Ariel L. Furst**, Paul M. Cook Career Development Professor, MIT Department of Chemical Engineering
- **Benedetto Marelli**, Associate Professor, MIT Department of Civil and Environmental Engineering
- **Kripa Varanasi**, Professor, MIT Department of Mechanical Engineering

12:15-1:15 pm

Lunch

1:15 pm

(~ 60 minutes)

Board bus/Travel to Commonwealth Fusion Systems in Devens, MA

2:30 pm

Tour of Commonwealth Fusion Systems (1.5 hours)
Commonwealth Fusion Systems HQ, 117 Hospital Rd, Devens, MA 01434

This tour will explore advances in fusion energy.

- **Darby Dunn**, Vice President of Operations, Commonwealth Fusion Systems
- **Bob Mumgaard**, Chief Executive Officer and Co-Founder, Commonwealth Fusion Systems

Commonwealth Fusion Systmes tour instructions for staffers

- Upon arrival, Please head directly into the front entrance lobby where our receptionist will greet you.
- All visitors must wear long pants, hard-soled, closed toe shoes or boots. No sneakers or tennis shoes, no open-toed shoes.
- You will be provided with a hard hat, safety vest and safety glasses that must be worn at all times.
- Visitors must be accompanied and wear their lanyard and badge at all times.
- **Anyone not wearing appropriate attire or shoes will not be allowed on the tour. No exceptions.**

4:00 pm

Bus back to Cambridge, MA (~ 60 minutes)



6:15- 8:45 pm

Dinner

Location: Samberg Conference Center, Salon M, 50 Memorial Drive,
Cambridge, MA 02142

The dinner speaker will discuss approaches to moving innovations from the lab to the marketplace, accelerating commercialization of promising research for addressing climate change.

- **Michael Kearney**, Partner, The Engine

Thursday, October 12: Day 3

7:30-8:30 am

Continental breakfast at hotel/check out (*Bags should be packed and ready to go with you on the bus.*)

Sessions will take place in the Doc Edgerton Room, Residence Inn by Marriott Boston Cambridge, 120 Broadway, Cambridge, MA 02142

8:30-9:45 am

Making the economic transition associated with decarbonization: The electric grid, steel manufacturing, and mining

This panel will explore approaches that could ease the transition for communities and workers that arise from decarbonizing the U.S. economy.

- **Moderator: Christopher Knittel**, Deputy Director for Policy, MIT Energy Initiative; George P. Shultz Professor of Energy Economics, MIT Sloan School of Management; Director, MIT Center for Energy and Environmental Policy Research
- **Stephen Ansolabehere**, Frank G. Thompson Professor of Government, Harvard University
- **Elsa Olivetti**, Jerry McAfee (1940) Professor in Engineering, Department of Materials Science and Engineering; Co-director, MIT Climate and Sustainability Consortium

9:45-11:15 am

Fitting it all together, discussion & seminar evaluation

This session will review the entire program and provide participants a chance to ask questions about the full picture that has emerged.

Multiple presenters facilitated by Christopher Knittel

11:15-11:30 am

Boxed lunches, discussion, seminar evaluation



11:45 am **Bus to Boston Metal (~30-40 mins)**

12:15-1:45 pm **Tour at Boston Metal**
6 Gill St Unit A, Woburn, MA 01801 (about 30 min north of Boston)

This tour will explore advance in decarbonizing steel production.

- **Tadeu Carneiro**, Chairman & CEO, Boston Metal
- **Guillaume Lambotte**, Chief Scientist, Boston Metal
- **Adam Rauwerdink**, Senior Vice President of Business Development, Boston Metal

- **Boston Metal tour Instructions for staffers**
 - Door "A" is the entry point. This door faces Gill Street
 - Long-sleeve shirt, long pants, and closed-toed shoes are required for the facility tour
 - Safety glasses and other PPE will be provided as necessary
 - Photography and videography are prohibited

1:45-2:45 pm **Board bus/Travel to Logan Airport**

4:00 pm **JetBlue Flight #B61355 from Boston to Washington, D.C.**

5:46 pm **Land in Washington, D.C.**