



U.S. House of Representatives
COMMITTEE ON ETHICS

EMPLOYEE POST-TRAVEL DISCLOSURE FORM [X] Original [] Amendment

This form is for disclosing the receipt of travel expenses from private sources for travel taken in connection with official duties. This form does not eliminate the need to report privately-funded travel on the annual Financial Disclosure Statements of those employees required to file them. In accordance with House Rule 25, clause 5, you must complete this form and file it with the Clerk of the House, by email at gifttravelreports@mail.house.gov, within 15 days after travel is completed. Please do not file this form with the Committee on Ethics.

NOTE: Willful or knowing misrepresentations on this form may be subject to criminal prosecution pursuant to 18 U.S.C. § 1001.

- 1. Name of Traveler: Charles (Ben) Jackson
2. a. Name of Accompanying Relative: OR None
b. Relationship to Traveler: Spouse Child Other (specify)
3. a. Dates: Departure: 4/20/22 Return: 4/22/22
b. Dates at Personal Expense, if any: OR None
4. Departure City: Washington Destination: Cambridge, MA Return City: Washington
5. Sponsor(s), Who Paid for the Trip: Massachusetts Institute of Technology
6. Describe Meetings and Events Attended: Attended a variety of meetings and briefings with university professors and staff on energy issues. Also toured a fusion power company as well as an Energy Venture Capital firm connected to the University.
7. Attached to this form are each of the following, signify that each item is attached by checking the corresponding box:
a. [X] a completed Sponsor Post-Travel Disclosure Form;
b. [X] the Primary Trip Sponsor Form completed by the trip sponsor prior to the trip, including all attachments and the Additional Sponsor Form(s);
c. [X] page 2 of the completed Traveler Form submitted by the employee; and
d. [X] the letter from the Committee on Ethics approving my participation on this trip.
8. a. [X] I represent that I participated in each of the activities reflected in the attached sponsor's agenda. Signify statement is true by checking the box.
b. If not, explain:

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

Signature of Traveler: Charles Jackson Date: 12/21/2022

I authorized this travel in advance. I have determined that all of the expenses listed on the attached Sponsor Post-Travel Disclosure Form were necessary and that the travel was in connection with the employee's official duties and would not create the appearance that the employee is using public office for private gain.

Name of Supervising Member: Rep. Lizzie Fletcher Date: 12/21/22

Signature of Supervising Member: Lizzie Fletcher



U.S. House of Representatives

COMMITTEE ON ETHICS

SPONSOR POST-TRAVEL DISCLOSURE FORM

Original Amendment

This form must be completed by an officer of any organization that served as the primary trip sponsor in providing travel expenses or reimbursement for travel expenses to House Members, officers, or employees under House Rule 25, clause 5. **A completed copy of the form must be provided to each House Member, officer, or employee who participated on the trip within ten days of their return.** You must answer all questions, and check all boxes, on this form for your submission to comply with House rules and the Committee's travel regulations. Failure to comply with this requirement may result in the denial of future requests to sponsor trips and/or subject the current traveler to disciplinary action or a requirement to repay the trip expenses.

NOTE: Willful or knowing misrepresentations on this form may be subject to criminal prosecution pursuant to 18 U.S.C. § 1001.

1. Sponsor(s) who paid for the trip: Massachusetts Institute of Technology
2. Travel Destination(s): Cambridge, MA
3. Date of Departure: 4/20/22 Date of Return: 4/22/22
4. Name(s) of Traveler(s): Charles (Ben) Jackson

Note: You may list more than one traveler on a form only if all information is identical for each person listed.

5. Actual amount of expenses paid on behalf of, or reimbursed to, each individual named in Question 4:

	Total Transportation Expenses	Total Lodging Expenses	Total Meal Expenses	Total Other Expenses (dollar amount per item and description)
Traveler	\$ 500.73 (see addendum)	\$551.94 Total (\$476 + taxes)	\$232.32	
Accompanying Family Member	N/A			

6. All expenses connected to the trip were for actual costs incurred and not a *per diem* or lump sum payment. Signify statement is true by checking box.

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

Signature: Robert C Armstrong Date: 05/02/2022

Name: Dr Robert Armstrong Title: Director, MITEI

Organization: Massachusetts Institute of Technology

- I am an officer of the above-named organization. Signify statement is true by checking box.

(see addendum)
Address: 77 Massachusetts Avenue, E19-307D, Cambridge, MA 02139

Email: rca@mit.edu Telephone: (617) 253-4581

Committee staff may contact the above-named individual if additional information is required.

If you have questions regarding your completion of this form, please contact the Committee on Ethics at 202-225-7103.

MIT Congressional Staff Seminar
"Technology and Policy Paths to Net Zero"

April 20-22, 2022

**SPONSOR POST-TRAVEL DISCLOSURE FORM
ADDENDUM**

Charles (Ben) Jackson

1) Breakdown of Total Transportation Costs:

	\$
Flight:	289.45
Travel agent booking/change fees:	68.00
Buses to/from airport & various seminar venues	90.00
Cab from home to Reagan airport	53.28
TOTAL:	\$ 500.73

2) Breakdown of Food & Beverage Costs:

Wednesday, 4/20:	76.63
Thursday, 4/21:	123.20
Friday, 4/22:	32.49
TOTAL:	\$ 232.32

3) Form signatory information:

Per the original Pre-Travel Sponsor Form, MIT is the trip sponsor and a US institution of higher education. Per the directions of House Counsel, Katherine Fitzpatrick, Dr Robert Armstrong has checked the box confirming that he is an officer of MIT. However, it should be noted that MIT faculty, in the course of their activities, have discretion to sign various disclosures and other forms, including a form of this nature. Dr Armstrong is not representing that he is an officer of MIT but has the authority to sign this form on behalf of MIT.



PRIMARY TRIP SPONSOR FORM

This form should be completed by private entities offering to provide travel or reimbursement for travel to House Members, officers, or employees under House Rule 25, clause 5. A completed copy of the form (and any attachments) should be provided to each invited House Member, officer, or employee, who will then forward it to the Committee together with a *Traveler Form* **at least 30 days before the start date of the trip**. The trip sponsor should **NOT** submit the form directly to the Committee. The Committee website (ethics.house.gov) provides detailed instructions for filling out the form.

NOTE: Willful or knowing misrepresentations on this form may be subject to criminal prosecution pursuant to 18 U.S.C. § 1001. Failure to comply with the Committee's Travel Regulations may also lead to the denial of permission to sponsor future trips.

1. Sponsor who will be paying for the trip:
Massachusetts Institute of Technology
2. I represent that the trip will not be financed, in whole or in part, by a registered federal lobbyist or foreign agent. Signify that the statement is true by checking box.
3. **Check only one.** I represent that:
 - a. The primary trip sponsor has not accepted from any other source, funds intended directly or indirectly to finance any aspect of the trip: **OR**
 - b. The trip is arranged without regard to congressional participation and the primary trip sponsor has accepted funds only from entities that will receive a tangible benefit in exchange for those funds: **OR**
 - c. The primary trip sponsor has accepted funds from other source(s) intended directly or indirectly to finance all or part of this trip and has enclosed disclosure forms from each of those entities.
If "c" is checked, list the names of the additional sponsors:
4. Provide names and titles of ALL House Members *and* employees you are inviting. For each House invitee, provide an explanation of why the individual was invited (include additional pages if necessary):
See enclosed list. All invitees have portfolios relevant to the topic of the seminar.
5. Yes No Is travel being offered to an accompanying family member of the House invitee(s)?
6. Date of departure: April 20, 2022 Date of return: April 22, 2022
7. a. City of departure: Washington, DC
b. Destination(s): Cambridge, MA
c. City of return: Washington, DC
8. **Check only one.** I represent that:
 - a. The sponsor of the trip is an institution of higher education within the meaning of section 101 of the Higher Education Act of 1965: **OR**
 - b. The sponsor of the trip does not retain or employ a registered federal lobbyist or foreign agent: **OR**
 - c. The sponsor employs or retains a registered federal lobbyist or foreign agent, but the trip is for attendance at a one-day event *and* lobbyist / foreign agent involvement in planning, organizing, requesting, or arranging the trip was *de minimis* under the Committee's travel regulations.
9. **Check only one of the following:**
 - a. I checked 8(a) or (b) above; **OR**
 - b. I checked 8(c) above but am not offering any lodging; **OR**
 - c. I checked 8(c) above and am offering lodging and meals for one night; **OR**
 - d. I checked 8(c) above and am offering lodging and meals for two nights. If you checked this box, explain why the second night of lodging is warranted:



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COMMITTEE ON ETHICS

10. Attached is a detailed agenda of the activities House invitees will be participating in during the travel (i.e., an hourly description of planned activities for trip invitees). *Indicate agenda is attached by checking box.*
11. **Check only one of the following:**
- a. I represent that a registered federal lobbyist or foreign agent will not accompany House Members or employees on any segment of the trip. *Signify that the statement is true by checking box; OR*
- b. *Not Applicable.* Trip sponsor is a U.S. institution of higher education.
12. For *each* sponsor required to submit a sponsor form, describe the sponsor's interest in the subject matter of the trip *and* its role in organizing and/or conducting the trip:
The Massachusetts Institute of Technology is a non-profit research university with multiple departments working on cutting-edge energy & climate technology and related policy. MIT staff and faculty have developed the seminar agenda and have been involved in all aspects of organizing the invitations to participants and speakers.
13. **Answer parts a and b. Answer part c if necessary:**
- a. Mode of travel: Air Rail Bus Car Other (specify: _____)
- b. Class of travel: Coach Business First Charter Other (specify: _____)
- c. If travel will be first class, or by chartered or private aircraft, explain why such travel is warranted:
n/a
14. I represent that the expenditures related to local area travel during the trip will be unrelated to personal or recreational activities of the invitee(s). *Signify that the statement is true by checking the box.*
15. **Check only one.** I represent that either:
- a. The trip involves an event that is arranged or organized *without regard* to congressional participation and that meals provided to congressional participants are similar to those provided to or purchased by other event attendees; **OR**
- b. The trip involves events that are arranged specifically *with regard* to congressional participation.
If "b" is checked:
- 1) Detail the cost *per day* of meals (approximate cost may be provided):
4/20:\$85; 4/21:\$125; 4/22:\$45
- 2) Provide the reason for selecting the location of the event or trip:
The seminar is being held on the MIT campus to enable faculty participation & MIT lab visits
16. Name, nightly cost, and reasons for selecting each hotel or other lodging facility:
- Hotel Name: Marriott Residence Inn City: Cambridge Cost Per Night: \$238 + tax
Reason(s) for Selecting: Price and proximity to the MIT campus
- Hotel Name: _____ City: _____ Cost Per Night: _____
Reason(s) for Selecting: _____
- Hotel Name: _____ City: _____ Cost Per Night: _____
Reason(s) for Selecting: _____
17. I represent that all expenses connected to the trip will be for actual costs incurred and not a per diem or lump sum payment. *Signify that the statement is true by checking the box.*



18. Total Expenses for each Participant:

<input type="checkbox"/> Actual Amounts <input checked="" type="checkbox"/> Good Faith Estimates	Total Transportation Expenses per Participant	Total Lodging Expenses per Participant	Total Meal Expenses per Participant
For each Member, Officer, or Employee	\$653 Total (up to \$503 flight + \$150 ground transport)	\$476 total (\$238 per night + taxes)	\$255 (includes 2 formal/working meals)
For each Accompanying Family Member	N/A		

	Other Expenses (dollar amount per item)	Identify Specific Nature of "Other" Expenses (e.g., taxi, parking, registration fee, etc.)
For each Member, Officer, or Employee	Up to a maximum of \$80	for cabs to/from home and DCA or airport parking
For each Accompanying Family Member		

NOTE: Willful or knowing misrepresentations on this form may be subject to criminal prosecution pursuant to 18 U.S.C. § 1001.

19. **Check only one:**

- a. I certify that I am an officer of the organization listed below; **OR**
- b. **Not Applicable.** Trip sponsor is an individual or a U.S. institution of higher education.

20. I certify by my signature that

- a. I read and understand the Committee's Travel Regulations;
- b. I am not a registered federal lobbyist or registered foreign agent; and
- c. The information on this form is true, complete, and correct to the best of my knowledge.

Signature: Robert C Armstrong Date: 04/12/2022
 Name: Dr Robert Armstrong Title: Director, MIT Energy Initiative
 Organization: Massachusetts Institute of Technology
 Address: 77 Massachusetts Avenue, E19-307D, Cambridge, MA 02139
 Email: rca@mit.edu Telephone: (617) 253-4581

INSTRUCTIONS

Complete the *Primary Trip Sponsor Form* and submit the agenda, invitation list, any attachments, and any *Additional Trip Sponsor Forms* directly to the Travelers.

Written approval from the Committee on Ethics is required before traveling on this trip. The Committee on Ethics will notify the House invitees directly and will not notify the trip sponsors.

Willful or knowing misrepresentation on this form may be subject to criminal prosecution under 18 U.S.C. § 1001. Signatures must comply with section 104(bb) of the Travel Regulations.

For questions, please contact the Committee on Ethics at:

1015 Longworth House Office Building
Washington, D.C. 20515

ethicscommittee@mail.house.gov | 202-225-7103
More information and forms available at ethics.house.gov

Responses to Questions asked by the House of Representatives Committee on Ethics regarding MIT's 2022 Senior Congressional Staff Seminar "Technology and Policy Paths to Net Zero" being held on the MIT Campus, April 20-22, 2022

1. Has any other organization or individual not listed on the form made (or will make) an in-kind or financial contribution to the events, meals, or the travel on this trip? If so, please list

No other organization or individual has made or will make any contribution to the seminar. The seminar is being paid for entirely with funds provided by MIT's Office of the Vice President for Research.

2. Is any government entity, foreign or domestic, or any multinational organization funding, providing in-kind support, or helping organize any aspect of the trip and events on the trip?

No government entity, foreign or domestic, nor any multinational organization is providing any form of support for this seminar.

3. How are the funds raised that are used for this trip and events on the trip?

No funds were raised specifically for this trip and events on the trip. All funds used to support this trip and events come from discretionary accounts of the Vice President for Research.

4. If funds are solicited for this trip and events on this trip, are donors aware that their donations are used for congressional travel?

No funds are solicited for this trip or any events on this trip.

5. Does MIT or any other trip sponsors seek grants or specific donations to help directly or indirectly fund congressional travel?

MIT has sought grants from outside organizations for congressional events in the past but not for this seminar.

12. Are other attendees, other than the speakers and MIT's staff and officers, invited to attend the congressional events and trip?

There are no other attendees other than the congressional staff and MIT staff, faculty, officers or speakers.

13. Will any registered federal lobbyist or foreign agent registered under FARA be involved in any function of the funding, planning, organizing, scheduling, inviting, or any other in-kind activity associated with trip?

MIT has a staff person in our Washington office who is registered as a lobbyist. He is one of many people involved in recommending possible sessions to include in the agenda. He is a Ph.D. scientist with expertise in energy policy. No other lobbyist or foreign agent has been or will be involved in any way. MIT's lobbyist will not be attending the event.

14. Is MIT affiliated with an organization that retains or employs a registered federal lobbyist or foreign agent? If so, please describe.

One of MIT's employees in the Washington Office is registered as a lobbyist and hence MIT is referred to as a "client" under the Lobbying Disclosure Act. MIT is also a member of several higher education organizations that either employ registered federal lobbyists or are clients of lobbying firms. Those organizations are reported on MIT's I-990 form every year.

15. Is the signer of the Primary Trip Sponsor Form a corporate officer legally authorized by the corporation to sign the form and bind the corporation under penalty of law?

MIT faculty, in the course of their activities, have discretion to sign various disclosures and other forms, including a form of this nature. Dr Armstrong is not representing that he is an officer of MIT but he has the authority to sign this form on behalf of MIT.

16. Detail travel changes to originally submitted agenda.

On 4/12/22, JetBlue cancelled the 4/20/22 8:30am flight we had booked all the congressional staff on from DCA to Boston. They rebooked the staff on a variety of flights, some of which would have meant the staff would arrive after the start of the seminar so we found odd seats on other, earlier flights so we can hopefully still get everyone to MIT in time for the start of the program. As a result, some of the flight prices will be slightly more than the original estimate. Also, since the staff are now arriving at Logan airport on multiple flights at different times, we will not be able to provide a bus to pick everyone up. We are therefore advising the staff to take the subway or to try and share a cab ride if time



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2. I represent that the trip will not be financed, in whole or in part, by a registered federal lobbyist or foreign agent. Signify that the statement is true by checking box.
3. **Check only one.** I represent that:
 - a. The primary trip sponsor has not accepted from any other source, funds intended directly or indirectly to finance any aspect of the trip: **OR**
 - b. The trip is arranged without regard to congressional participation and the primary trip sponsor has accepted funds only from entities that will receive a tangible benefit in exchange for those funds: **OR**
 - c. The primary trip sponsor has accepted funds from other source(s) intended directly or indirectly to finance all or part of this trip and has enclosed disclosure forms from each of those entities.
If "c" is checked, list the names of the additional sponsors:
4. Provide names and titles of **ALL** House Members *and* employees you are inviting. **For each House invitee, provide an explanation of why the individual was invited** (include additional pages if necessary):
See attached list. All invitees have portfolios relevant to the topic of the seminar.
5. Yes No Is travel being offered to an accompanying family member of the House invitee(s)?
6. Date of departure: April 20, 2022 Date of return: April 22, 2022
7. a. City of departure: Washington, DC
b. Destination(s): Cambridge, MA
c. City of return: Washington, DC
8. **Check only one.** I represent that:
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 - c. The sponsor employs or retains a registered federal lobbyist or foreign agent, but the trip is for attendance at a one-day event *and* lobbyist / foreign agent involvement in planning, organizing, requesting, or arranging the trip was *de minimis* under the Committee's travel regulations.
9. **Check only one of the following:**
 - a. I checked 8(a) or (b) above; **OR**
 - b. I checked 8(c) above but am not offering any lodging; **OR**
 - c. I checked 8(c) above and am offering lodging and meals for one night; **OR**
 - d. I checked 8(c) above and am offering lodging and meals for two nights. If you checked this box, explain why the second night of lodging is warranted:



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10. Attached is a detailed agenda of the activities House invitees will be participating in during the travel (i.e., an hourly description of planned activities for trip invitees). *Indicate agenda is attached by checking box.*
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12. For **each** sponsor required to submit a sponsor form, describe the sponsor's interest in the subject matter of the trip **and** its role in organizing and/or conducting the trip:
The Massachusetts Institute of Technology is a non-profit research university with multiple departments working on cutting-edge energy & climate technology & related policy. MIT faculty have developed the seminar agenda & have been involved in all aspects of organizing the invitations to participants and speakers.
13. **Answer parts a and b. Answer part c if necessary:**
- a. Mode of travel: Air Rail Bus Car Other (specify: _____)
- b. Class of travel: Coach Business First Charter Other (specify: _____)
- c. If travel will be first class, or by chartered or private aircraft, explain why such travel is warranted:
n/a
14. I represent that the expenditures related to local area travel during the trip will be unrelated to personal or recreational activities of the invitee(s). *Signify that the statement is true by checking the box.*
15. **Check only one.** I represent that either:
- a. The trip involves an event that is arranged or organized *without regard* to congressional participation and that meals provided to congressional participants are similar to those provided to or purchased by other event attendees; **OR**
- b. The trip involves events that are arranged specifically *with regard* to congressional participation.
If "b" is checked:
- 1) Detail the cost *per day* of meals (approximate cost may be provided):
(all approx.) Day 1, \$85 (incl. formal lunch); Day 2, \$125 (incl. formal dinner); Day 3, \$45
- 2) Provide the reason for selecting the location of the event or trip:
Seminar is being held on MIT campus to enable faculty participation & MIT lab visits.
16. Name, nightly cost, and reasons for selecting each hotel or other lodging facility:
- Hotel Name: Marriott Residence Inn City: Cambridge, MA Cost Per Night: \$238 + tax
Reason(s) for Selecting: Price & proximity to the MIT campus
- Hotel Name: _____ City: _____ Cost Per Night: _____
Reason(s) for Selecting: _____
- Hotel Name: _____ City: _____ Cost Per Night: _____
Reason(s) for Selecting: _____
17. I represent that all expenses connected to the trip will be for actual costs incurred and not a per diem or lump sum payment. *Signify that the statement is true by checking the box.*



U.S. House of Representatives

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18. Total Expenses for each Participant:

<input type="checkbox"/> Actual Amounts <input checked="" type="checkbox"/> Good Faith Estimates	Total Transportation Expenses per Participant	Total Lodging Expenses per Participant	Total Meal Expenses per Participant
For each Member, Officer, or Employee	\$455.00 (\$355 flight + \$100 buses)	\$476 for 2 nights + tax (\$238p.n)	\$255.00 (includes 2 formal working meals)
For each Accompanying Family Member	n/a	n/a	n/a

	Other Expenses (dollar amount per item)	Identify Specific Nature of "Other" Expenses (e.g., taxi, parking, registration fee, etc.)
For each Member, Officer, or Employee	up to a max. of \$80	for cabs to/from home & Reagan airport
For each Accompanying Family Member	n/a	

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19. Check only one:

- a. I certify that I am an officer of the organization listed below; **OR**
- b. *Not Applicable.* Trip sponsor is an individual or a U.S. institution of higher education.

20. I certify by my signature that

- a. I read and understand the Committee's Travel Regulations;
- b. I am not a registered federal lobbyist or registered foreign agent; and
- c. The information on this form is true, complete, and correct to the best of my knowledge.

Signature: Robert C Armstrong Date: 02/22/2022

Name: Dr Robert Armstrong Title: Director, MIT Energy Initiative

Organization: Massachusetts Institute of Technology

Address: 77 Massachusetts Avenue, E19-307D, Cambridge, MA 02139

Email: rca@mit.edu Telephone: (617) 253-4581

INSTRUCTIONS

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For questions, please contact the Committee on Ethics at:

1015 Longworth House Office Building
Washington, D.C. 20515

ethicscommittee@mail.house.gov | 202-225-7103
More information and forms available at ethics.house.gov



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

March 16, 2022

Mr. Charles (Ben) Jackson
Deputy Chief of Staff & Legislative Director
Office of Representative Lizzie Fletcher
119 Cannon House Office Building
Washington, DC 20515

Dear Mr. Jackson,

I am writing to invite you to participate in an MIT seminar for senior Congressional staff on technology and policy options for addressing climate change. The seminar, **“Technology & Policy Paths to Net Zero,”** will take place on the MIT campus in Cambridge, MA from April 20 – 22. To allow for robust discussion, invitations are being extended only to senior Congressional staff who work on a variety of energy-related policy areas.

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

As you will see in the attached agenda, the seminar will include sessions with a range of MIT faculty with expertise on potential technological and policy approaches to climate. The seminar will also include tours of The Engine, a technology incubator and venture fund spun off from MIT, and of our fusion energy laboratory.

On the morning of April 21, the seminar will include attendance at a broader MIT event at which the flagship research projects from our Climate Grand Challenges competition will describe their plans. That event will also include a panel discussion with outside experts on moving research breakthroughs from the lab to the marketplace.

The organizers of this seminar include Robert C. Armstrong, Director of the MIT Energy Initiative and Chevron Professor of Chemical Engineering; Robert Stoner, Deputy Director of the MIT Energy Initiative; and Professor Christopher Knittel from the MIT Sloan School of Management.

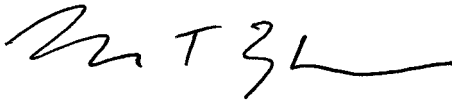
If you apply and are offered a place at the seminar, you will need to adhere to MIT's Covid in-person event policies. Attendees will have to attest that they have been vaccinated and boosted, or that they have a religious or medical reason for exemption. As of now, masks will be required at this event.

The seminar is sponsored by my office. If you would like to attend, please apply no later than close of business on Thursday, March 17 by [CLICKING HERE](#). This will allow sufficient time for filing the necessary paperwork with your Ethics Committee by March 21. 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 “Technology and Policy Paths to Net Zero”

April 20-22, 2022

AGENDA

Wednesday, April 20 – Day 1

- 9:30-11:30 am** **Staff arrive at Boston Logan airport on JetBlue, American or Delta Flights**
- Ground transportation from Logan Airport to Residence Inn by Marriott Boston Cambridge**
- 11:15 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, 6th floor, Dining Rooms 5 and 6
50 Memorial Dr, Cambridge, MA 02142
- 12:00-1:15 pm** **Welcome, introductions, and luncheon**
- 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; Co-Chair, President’s Council of Advisors on Science and Technology
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** **Robert C. Armstrong**, Director, MIT Energy Initiative and Chevron Professor of Chemical Engineering
Dr. Armstrong 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.
- 1:15-2:45 pm** **Science**
- 1:15-2:00 pm** **Understanding climate risks and impacts on the U.S. to inform energy transitions**
Noelle Eckley Selin, Professor, Institute for Data, Systems and Society and the Department of Earth, Atmospheric, and Planetary Sciences, MIT
Dr. Selin will provide an overview of the history of climate science, the current state of knowledge, and a framing of the current challenges in terms of risk including health impacts.
- 2:00-2:45 pm** **Methane abatement strategies on the horizon**
Desiree Plata, Director, MIT Methane Network and Gilbert W. Winslow Associate Professor in Civil Engineering

Dr. Plata will present her research on strategies to identify and significantly reduce methane leaks.

- 2:45-3:00 pm** **Break**
- 3:00-4:15 pm** **Energy system modeling**
Emre Gençer, Research Scientist, MIT Energy Initiative
Amanda Farnsworth, Graduate Student, MIT Department of Chemical Engineering
Sydney Johnson, PhD Student, MIT Chemical Engineering Practice Program; Graduate Research Assistant, MIT Energy Initiative
James Owen, Graduate Student, MIT Department of Chemical Engineering and MIT Sloan School of Management
Overview and demonstration of some of the energy system modeling tools developed at MIT followed by break-out groups for analysis and discussion
- 4:15-4:30 pm** **Bus/Walk to MIT Plasma Science and Fusion Center**
190 Albany St, Cambridge, MA 02139
- 4:30-5:30 pm** **Tour of the MIT Plasma Science and Fusion Center Lab**
The MIT Plasma Science and Fusion Center is a center of research on developing fusion energy. Scientists and engineers from the Lab and MIT spinout Commonwealth Fusion Systems will present on recent advances in fusion technology and progress on a pilot-scale reactor.
- 5:30 pm** **Bus/Walk to Residence Inn**
Residence Inn by Marriott Boston Cambridge, 120 Broadway, Cambridge, MA 02142
- 7:00 pm** **Informal dinner with MIT faculty and students**
Residence Inn by Marriott Boston Cambridge, 120 Broadway, Cambridge, MA 02142
Working event for seminar participants to engage with MIT professors, panel participants, and graduate students to further discuss the topics explored during the afternoon sessions.

Thursday, April 21 – Day 2

- 7:30-8:20 am** **Continental breakfast at hotel**
Residence Inn by Marriott Boston Cambridge, 120 Broadway, Cambridge, MA 02142
- 8:20-9:30 am** **Paths to net zero: Technology**
Doc Edgerton room, Residence Inn by Marriott Boston Cambridge, 120 Broadway, Cambridge, MA 02142
Dr. Armstrong will moderate a series of presentations by MIT faculty about the low- and no-carbon energy technologies that could be employed to decarbonize the U.S. economy, e.g., energy storage and low-carbon fuels, materials/supply chain challenges, and carbon management.
- 8:20-8:30 pm** **Brief overview**

Robert C. Armstrong, Director, MIT Energy Initiative and Chevron Professor of Chemical Engineering

8:30-9:00 am

Carbon removal and storage

Betar Gallant, Associate Professor and the American Bureau of Shipping Career Development Professor in Mechanical Engineering

Dr. Gallant will describe the current state of technologies designed to capture CO₂ from the air and the technical issues with permanently storing that carbon.

9:00-9:30 am

Hydrogen for storage and industrial heat

Yogesh Surendranath, Associate Professor of Chemistry

9:30-9:50 am

Walk from Marriot Residence Inn Cambridge to Samberg Conference Center

Samberg Conference Center, 50 Memorial Dr, Cambridge, MA 02142

10:00 am-12:00 pm

MIT Climate Grand Challenges Event

Samberg Conference Center, 50 Memorial Dr, Cambridge, MA 02142

Attend broadly open, widely attended, and free event at which the flagship research projects from MIT's Climate Grand Challenges competition will describe the work they will undertake on some of the most complex and unsolved climate problems. In addition, outside speakers will discuss how to move innovations from the lab to the marketplace.

12:00-12:30 pm

Walk to the Bush Room

Building 10-105, 222 Memorial Drive, Cambridge, MA 02142

12:30-1:30 pm

Lunch

1:30-3:30 pm

Paths to net zero: Technology (continued)

1:30-2:00 pm

Materials and supply chain challenges

Elsa Olivetti, Esther and Harold E. Edgerton Associate Professor in Materials Science and Engineering

Dr. Olivetti will discuss the rare materials needed for new energy technologies and the supply chain obstacles to obtaining them.

2:00-2:30 pm

Energy storage

Yet-Ming Chiang, Professor, Department of Materials Science and Engineering and Kyocera Professor

2:30-3:30 pm

Fitting it all together: Cross-cutting analysis through modeling

Robert C. Armstrong, Director, MIT Energy Initiative and Chevron Professor of Chemical Engineering

Dharik Mallapragada, Research Scientist, MIT Energy Initiative

Drs. Armstrong and Mallapragada will lead a discussion on how the technologies discussed in the earlier sessions might complement each other and what kind of analytical tools might capture synergistic impacts.

3:30-3:50 pm

Bus to The Engine (venture firm and incubator founded by MIT to support "tough tech" companies)

501 Massachusetts Ave, Cambridge, MA 02139

3:50-5:00 pm

Tour of The Engine

The tour will provide information on the work of energy-related companies, and of approaches to bringing new ideas from lab to market.

- 5:00-5:30 pm** **Bus to Residence Inn**
Residence Inn by Marriott, 120 Broadway, Cambridge, MA 02142
- 6:30-6:45pm** **Bus/Walk from Residence Inn to Samberg Conference Center**
Samberg Conference Center (E52), 50 Memorial Dr, Cambridge, MA 02142
7th floor, Salon M
- 6:45- 8:45 pm** **Dinner: Deploying AI to support sustainability and mitigate climate change**
David Cox, IBM Director, MIT-IBM Watson AI Lab
A speaker from industry will provide the business perspective on how the sector can contribute to sustainability and climate change mitigation.

Friday, April 22 – 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.*)
- 8:45 am** **Take bus to The Bush Room**
Building 10-105, 222 Memorial Drive, Cambridge, MA 02142
- 9:00 am-1:00 pm** **Paths to net zero: Policy**
Dr. Knittel and MIT faculty will discuss possible policy approaches to decarbonization and their implications for society. These include policies related to workforce transition; infrastructure development, siting and public acceptance; electricity market redesign; and private sector financial disclosure rules
- 9:00-9:10 am** **Brief overview**
Christopher R. Knittel, Deputy Director for Policy, MIT Energy Initiative, and George P. Shultz Professor of Energy Economics, MIT Sloan School of Management; Director of the Center for Energy and Environmental Policy Research (CEEPR)
- 9:10-10:00 am** **The Roosevelt Project**
Project's goal is to provide an analytical basis for charting a path to a low-carbon economy in a way that promotes high-quality job growth, minimizes worker and community dislocation, and harnesses the benefits of energy technologies for regional economic development.
Ernest J. Moniz, Professor of Physics and Special Advisor to the MIT President; former U.S. Secretary of Energy
Michael Kearney, Executive Director, The Roosevelt Project and Partner, The Engine
- 10:00-10:30 am** **Electricity transmission siting**
John Parsons, Associate Director, MIT Center for Energy and Environmental Policy Research; Senior Lecturer, MIT Sloan School of Management
- 10:30-10:45 am** **Break**
- 10:45-11:15 am** **Infrastructure: Electric vehicle charging, natural gas and hydrogen pipelines**

Christopher R. Knittel, Deputy Director for Policy, MIT Energy Initiative, and George P. Shultz Professor of Energy Economics, MIT Sloan School of Management; Director of the Center for Energy and Environmental Policy Research (CEEPR)

- 11:15-11:45 am** **Financial disclosure**
Michelle Hanlon, Howard W. Johnson Professor, MIT Sloan School of Management
- 11:45 am-12:15 pm** **Electricity regulation, learnings from Europe**
Tim Schittekatte, Postdoctoral Fellow, MIT Energy Initiative
- 12:15-1:00 pm** **Fitting it all together**
All presenters facilitated by Christopher Knittel and Bob Armstrong
- 1:00-2:00 pm** **Box lunches; final discussion, including seminar evaluation**
- 2:00-2:45 pm** **Board bus/Travel to Logan Airport**
- 4:00-5:30 pm** **JetBlue Flight from Boston to Washington, D.C.**

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Massachusetts Institute of Technology

Senior Congressional Staff Seminar
“Technology and Policy Paths to Net Zero”

April 20-22, 2022

PRELIMINARY AGENDA

Wednesday, April 20 – Day 1

- 8:30-10:05 am** **Jetblue Flight from Washington, D.C. to Boston**
- 10:30-11:15 am** **Bus from Logan Airport to Residence Inn by Marriott Boston Cambridge**
- 11:15 am-12:00 pm** **Check into Residence Inn by Marriott Boston Cambridge**
120 Broadway, Cambridge, MA 02142
- Walk to Samberg Conference Center for Registration**
Samberg Conference Center, 6th floor, Dining Rooms 5 and 6
50 Memorial Dr, Cambridge, MA 02142
- 12:00-1:15 pm** **Welcome, introductions, and luncheon**
- 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; Co-Chair, President’s Council of Advisors on Science and Technology
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** **Robert C. Armstrong**, Director, MIT Energy Initiative and Chevron Professor of Chemical Engineering
Dr. Armstrong 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.
- 1:15-2:45 pm** **Science**
- 1:15-2:00 pm** **Noelle Eckley Selin**, Professor, MIT Institute for Data, Systems and Society and the Department of Earth, Atmospheric and Planetary Sciences, and Director of MIT’s Technology and Policy Program
Dr. Selin will provide an overview of the history of climate science, the current state of knowledge, and a framing of the current challenges in terms of risk including health impacts.
- 2:00-2:45 pm** **Desiree Plata**, Director, MIT Methane Network and Gilbert W. Winslow Associate Professor in Civil Engineering
Dr. Plata will present her research on strategies to identify and significantly reduce methane leaks.

- 2:45-3:00 pm** **Break**
- 3:00-4:00 pm** **Energy system modeling**
Overview and demonstration of some of the energy system modeling tools developed at MIT followed by break-out groups for analysis and discussion
- 4:00-4:30 pm** **Walk to MIT Plasma Science and Fusion Center**
 190 Albany St, Cambridge, MA 02139
- 4:30-5:30 pm** **Tour of the MIT Plasma Science and Fusion Center Lab**
The MIT Plasma Science and Fusion Center is a center of research on developing fusion energy. Scientists and engineers from the Lab and MIT spinout Commonwealth Fusion will present on recent advances in fusion technology and progress on a pilot-scale reactor.
- 7:00 pm** **Informal dinner with MIT faculty and students**
 Residence Inn by Marriott Boston Cambridge, 120 Broadway, Cambridge, MA 02142
Working event for seminar participants to engage with MIT professors, panel participants, and graduate students.

Thursday, April 21 – Day 2

- 7:30-8:30 am** **Continental breakfast at hotel**
 Residence Inn by Marriott Boston Cambridge, 120 Broadway, Cambridge, MA 02142
- 8:30-9:40 am** **Paths to net zero: Technology**
Dr. Armstrong will moderate a series of presentations by MIT faculty about the low- and no-carbon energy technologies that could be employed to decarbonize the U.S. economy, e.g., energy storage and low-carbon fuels, materials/supply chain challenges, and carbon management.
- 8:30-8:40 pm** **Brief overview**
Robert C. Armstrong, Director, MIT Energy Initiative and Chevron Professor of Chemical Engineering
- 8:40-9:10 am** **Energy storage**
Yet-Ming Chiang, Professor, Department of Materials Science and Engineering and Kyocera Professor
- 9:10-9:40 am** **Hydrogen for storage and industrial heat**
Yogesh Surendranath, Associate Professor of Chemistry and Paul M. Cook Career Development Associate
- 9:40-10:00 am** **Walk from Marriot Residence Inn Cambridge to Samberg Conference Center**
 Samberg Conference Center, 50 Memorial Dr, Cambridge, MA 02142
- 10:00 am-12:00 pm** **MIT Climate Grand Challenges Event**
 Samberg Conference Center, 50 Memorial Dr, Cambridge, MA 02142
Attend broadly open event at which the flagship research projects from MIT's Climate Grand Challenges competition will describe the work they will undertake on

some of the most complex and unsolved climate problems. In addition, outside speakers will discuss how to move innovations from the lab to the marketplace.

- 12:00-12:30 pm** **Walk to the Bush Room**
Building 10-105, 222 Memorial Drive, Cambridge, MA 02142
- 12:30-1:30 pm** **Lunch**
- 1:30-3:30 pm** **Paths to net zero: Technology (continued)**
- 1:30-2:00 pm** **Materials and supply chain challenges**
Elsa Olivetti, Esther and Harold E. Edgerton Associate Professor in Materials Science and Engineering
- 2:00-2:30 pm** **Carbon removal and storage**
Betar Gallant, Associate Professor and the American Bureau of Shipping Career Development Professor in Mechanical Engineering
Bradford Hager, Cecil and Ida Green Professor of Earth Science
- 2:30-3:30 pm** **Fitting it all together: Cross-cutting analysis through modeling**
Robert C. Armstrong, Director, MIT Energy Initiative and Chevron Professor of Chemical Engineering
Dharik Mallapragada, Research Scientist, MIT Energy Initiative
- 3:30-3:50 pm** **Walk to The Engine** (*venture firm and incubator founded by MIT to support “tough tech” companies*)
501 Massachusetts Ave, Cambridge, MA 02139
- 3:50-5:00 pm** **Tour of The Engine**
The tour will provide information on the work of energy-related companies, and of approaches to bringing new ideas from lab to market.
- 5:00-5:30 pm** **Walk to Residence Inn**
Residence Inn by Marriott, 120 Broadway, Cambridge, MA 02142
- 6:30-6:45pm** **Bus from Residence Inn to Samberg Conference Center**
Samberg Conference Center, 50 Memorial Dr, Cambridge, MA 02142
- 6:45- 8:45 pm** **Dinner**
A speaker from industry will provide the business perspective on how the sector can contribute to sustainability and climate change mitigation.

Friday, April 22 – Day 3

- 7:30-8:45 am** **Continental breakfast at hotel/check out** (*Bags can be left at the hotel*)
- Walk to the Bush Room**
Building 10-105, 222 Memorial Drive, Cambridge, MA 02142
- 9:00 am-1:00 pm** **Paths to net zero: Policy**
Dr. Knittel and MIT faculty will discuss possible policy approaches to decarbonization and their implications for society. These include policies related to

workforce transition; infrastructure development, siting and public acceptance; electricity market redesign; and private sector financial disclosure rules

- 9:00-9:10 am** **Brief overview**
Christopher R. Knittel, Deputy Director for Policy, MIT Energy Initiative, and George P. Shultz Professor of Applied Economics, MIT Sloan School of Management; Director of the Center for Energy and Environmental Policy Research (CEEPR)
- 9:10-10:00 am** **The Roosevelt Project**
Project's goal is to provide an analytical basis for charting a path to a low-carbon economy in a way that promotes high-quality job growth, minimizes worker and community dislocation, and harnesses the benefits of energy technologies for regional economic development.
Ernest J. Moniz, Professor of Physics and Special Advisor to the MIT President; former U.S. Secretary of Energy
Michael Kearny, Executive Director, The Roosevelt Project and Partner, The Engine
- 10:00-10:30 am** **Electricity transmission siting**
John Parsons, Associate Director, MIT Center for Energy and Environmental Policy Research; Senior Lecturer, MIT Sloan School of Management
- 10:30-10:45 am** **Break**
- 10:45-11:15 am** **Infrastructure: Electric vehicle charging, natural gas and hydrogen pipelines**
Christopher R. Knittel, Deputy Director for Policy, MIT Energy Initiative, and George P. Shultz Professor of Applied Economics, MIT Sloan School of Management; Director of the Center for Energy and Environmental Policy Research (CEEPR)
- 11:15-11:45 am** **Financial disclosure**
Michelle Hanlon, Howard W. Johnson Professor of Management
- 11:45 am-12:15 pm** **Electricity regulation, learnings from Europe**
Tim Schittekatte, Postdoctoral Fellow, MIT Energy Initiative
- 12:15-1:00 pm** **Fitting it all together**
All presenters facilitated by Christopher Knittel
- 1:00-2:00 pm** **Box lunches; final discussion, including seminar evaluation**
- 2:00-2:45 pm** **Return to hotel to collect bags/Travel to Logan Airport**
- 4:30-6:00 pm** **American Airlines Flight from Boston to Washington, D.C.**



U.S. House of Representatives

COMMITTEE ON ETHICS

TRAVELER FORM

This form should be completed by House Members, officers, or employees seeking Committee approval of privately-sponsored travel or reimbursement for travel under House Rule 25, clause 5. The completed form should be submitted directly to the Committee by each invited House Member, officer, or employee, together with the completed and signed trip sponsor form(s) and any attachments. A copy of this form, minus this initial page, will be made available for public inspection. **This form and any attachments may be delivered to the Committee at 1015 Longworth or e-mailed to travel.requests@mail.house.gov.**

Your completed request must be submitted to the Committee no less than 30 days before your proposed departure date. Absent exceptional circumstances, permission will not be granted for requests received less than 30 days before the trip commences. **You must receive explicit approval from the Committee before you depart on this trip.**

Name of Traveler: _____

NOTE: Willful or knowing misrepresentations on this form may be subject to criminal prosecution pursuant to 18 U.S.C. § 1001.

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

Signature: _____

Name of Signatory (if other than traveler): _____

For Staff (name of employing Member or Committee): _____

Office Address: _____

Telephone Number: _____

Email Address of Contact Person: _____

- Check this box if the sponsoring entity is a media outlet, the purpose of the trip is to make a media appearance sponsored by that entity, *and* these forms are being submitted to the Committee less than 30 days before the trip departure date.

NOTE: You must complete all of the contact information fields above, as Committee staff may need to contact you if additional information is required.

KEEP A COPY OF THIS FORM. Page 2 (but not this page) must be submitted to the Clerk as part of the post-travel disclosure required by House Rule 25. Travel Regulation § 404(d) also requires you to keep a copy of all request forms and supporting paperwork for three subsequent Congresses from the date of travel.

If there are any questions regarding this form, please contact the Committee on Ethics at 202-225-7103 or via e-mail: travel.requests@mail.house.gov.



U.S. House of Representatives

COMMITTEE ON ETHICS

TRAVELER FORM

1. Name of Traveler: _____
2. Sponsor(s) who will be paying or providing in-kind support for the trip:

3. City and State **OR** Foreign Country of Travel : _____
4. a. Date of Departure: _____ Date of Return: _____
b. Yes No Will you be extending the trip at your personal expense?
If yes, list dates at personal expense: _____
5. a. Yes No Will you be accompanied by a family member at the sponsor's expense? **If yes:**
(1) Name of Accompanying Family Member: _____
(2) Relationship to Traveler: Spouse Child Other (specify): _____
(3) Yes No Accompanying Family Member is at least 18 years of age:
6. a. Yes No Did the trip sponsor answer "Yes" to Question 8(c) on the *Primary Trip Sponsor Form* (i.e., travel is sponsored by an entity that employs a registered federal lobbyist or a foreign agent)?
b. **If yes**, and you are requesting lodging for two nights, explain why the second night is warranted:
7. Yes No *Primary Trip Sponsor Form* is attached, including agenda, invitee list, and any other attachments and Additional Sponsor Forms.

NOTE: The agenda should show the traveler's individual schedule, including departure and arrival times and identify the specific events in which the traveler will be participating.
8. Explain why participation in the trip is connected to the traveler's individual official or representational duties.
Staff should include their job title and how the activities on the itinerary relate to their duties.
9. **Yes No Is the traveler aware of any registered federal lobbyists or foreign agents involved planning, organizing, requesting, or arranging the trip?**
10. For staff travelers, to be completed by your employing Member:

ADVANCED AUTHORIZATION OF EMPLOYEE TRAVEL

I hereby authorize the individual named above, an employee of the U.S. House of Representatives who works under my direct supervision, to accept expenses for the trip described in this request. I have determined that the above-described travel is in connection with my employee's official duties and that acceptance of these expenses will not create the appearance that the employee is using pub

Signature of Employing Member _____

Date _____

Theodore E. Deutch, Florida
Chairman

Jackie Walorski, Indiana
Ranking Member

Susan Wild, Pennsylvania
Dean Phillips, Minnesota
Veronica Escobar, Texas
Mondaire Jones, New York

Michael Guest, Mississippi
Dave Joyce, Ohio
John H. Rutherford, Florida
Kelly Armstrong, North Dakota



ONE HUNDRED SEVENTEENTH CONGRESS

U.S. House of Representatives

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April 19, 2022

Mr. Charles Jackson
Office of the Honorable Lizzie Fletcher
119 Cannon House Office Building
Washington, D.C. 20515

Dear Mr. Jackson:

Pursuant to House Rule 25, clause 5(d)(2), the Committee on Ethics hereby approves your proposed trip to Cambridge, Massachusetts, scheduled for April 20 to 22, 2022, sponsored by Massachusetts Institute of Technology.

This approval represents the Committee's determination that the proposed trip complies with relevant House rules, federal laws, and Travel Regulations promulgated by the Committee. You should engage in your own assessment of the risks and implications of engaging in travel during the current COVID-19 pandemic.

You must complete an Employee Post-Travel Disclosure Form (which your employing Member must also sign) and file it, together with a Sponsor Post-Travel Disclosure Form completed by the trip sponsor, with the Clerk of the House within 15 days after your return from travel. As part of that filing, you are also required to attach a copy of this letter and both the Traveler and Primary Trip Sponsor Forms (including attachments) you previously submitted to the Committee in seeking pre-approval for this trip. If you are required to file an annual Financial Disclosure Statement, you must also report all travel expenses totaling more than \$415 from a single source on the "Travel" schedule of your annual Financial Disclosure Statement covering this calendar year. Finally, Travel Regulation § 404(d) also requires you to keep a copy of all request forms and supporting information provided to the Committee for three subsequent Congresses from the date of travel.

If you have any further questions, please contact the Committee's Office of Advice and Education at extension 5-7103.

Sincerely,

Handwritten signatures of Theodore E. Deutch and Jackie Walorski in blue ink. Theodore E. Deutch's signature is on the left, and Jackie Walorski's signature is on the right.

Theodore E. Deutch
Chairman

Jackie Walorski
Ranking Member

TED/JW:kjf