

# COMMITTEE ON ETHICS

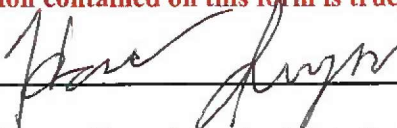
## EMPLOYEE POST-TRAVEL DISCLOSURE FORM Original Amendment

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](mailto: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: Harrison Jumper
2. a. Name of Accompanying Relative: \_\_\_\_\_ **OR**  None  
b. Relationship to Traveler:  Spouse  Child  Other (specify): \_\_\_\_\_
3. a. Dates: Departure: 06/16/25 Return: 06/18/25  
b. Dates at Personal Expense, if any: \_\_\_\_\_ **OR**  None
4. Departure City: Washington, DC Destination: Idaho Falls, ID Return City: Washington, DC
5. Sponsor(s), Who Paid for the Trip: Climate Solutions Foundation
6. Describe Meetings and Events Attended: The trip to Idaho National Labs included discussions with key scientists, INL professionals, and local officials. Discussions focused on national security, climate, and economic implications of nuclear innovation amid growing energy demand.
7. Attached to this form are **each** of the following, *signify that each item is attached by checking the corresponding box:*
  - a.  a completed *Sponsor Post-Travel Disclosure Form*;
  - b.  the *Primary Trip Sponsor Form* completed by the trip sponsor **prior** to the trip, **including all** attachments **and** the *Additional Sponsor Form(s)*;
  - c.  page 2 of the completed *Traveler Form* submitted by the employee; **and**
  - d.  the letter from the Committee on Ethics approving my participation on this trip.
8. a.  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:  Date: 7/2/25

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: Chrissy Houlahan Date: 7/2/25

Signature of Supervising Member: 

# 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 in the trip within 10 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 or provided in-kind support for the trip: Climate Solutions Foundation "CSF"

2. Travel Destination(s): Idaho National Laboratory "INL- Idaho Falls, ID

3. Date of Departure: Monday, June 16, 2025 Date of Return: Wednesday, June 18, 2025

4. Name(s) of Traveler(s): Harrison Jumper

*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	\$869.55	\$248.00	\$117.29	
Accompanying Family Member				

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:  Date: June 26, 2025

Name: Alex Flint Title: Executive Director

Organization: Climate Solutions Foundation "CSF"

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

Address: 600 Pennsylvania Avenue, SE | Suite 410 | Washington, DC 20003

Telephone: 301-518-6336 Email: andrea@mietusevents.com

*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.

# COMMITTEE ON ETHICS

## TRAVELER FORM

1. Name of Traveler: Harrison Jumper
2. Sponsor(s) who will be paying or providing in-kind support for the trip: Climate Solutions Foundation
3. City and State **OR** Foreign Country of Travel: Idaho Falls, Idaho
4. a. Date of Departure: 06/16/2025 Date of Return: 06/18/2025  
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, invitation, 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.**  
As Deputy Legislative Director to Representative Chrissy Houlahan, I oversee the Congresswoman's energy and environmental policy work including her role as Co-Chair of the bipartisan Climate Solutions Caucus. This trip to Idaho Falls, including Idaho National Laboratory and the advanced nuclear reactor testing sites, will deepen my understanding of the innovative work and energy research happening at our nation's national labs, which will allow me to better inform the Congresswoman in her roles, responsibilities, and legislative work.

9. **Yes  No  Is the traveler aware of any registered federal lobbyists or foreign agents involved in 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 public office for private gain.

Signature of Employing Member:  Date: 5/18/2025

# COMMITTEE ON ETHICS

## 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's website (ethics.house.gov) provides detailed instructions for filling out the form. The Committee will notify the House invitees directly of its decision and will not notify the trip sponsors.

**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. Signatures must comply with section 104(bb) of the Travel Regulations.**

1. Sponsor who will be paying for the trip:

Climate Solutions Foundation (CSF)

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, services, or in-kind assistance 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): \_\_\_\_\_

Please see attached list.

5. Yes  No  Is travel being offered to an accompanying family member of the House invitee(s)?

6. Date of Departure: Monday, June 16, 2025 Date of Return: Wednesday, June 18, 2025

7. a. City of departure: Washington Dulles International Airport

b. Destination(s): Idaho Falls Regional Airport

c. City of return: Washington Dulles International Airport

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. \_\_\_\_\_
- 

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 the statement is true by clicking the 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:  
**See attached.** \_\_\_\_\_
- 

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:  
 \_\_\_\_\_
- 

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 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): The cost of meals per day are  
Monday \$51.00, Tuesday, \$68.00, and Wednesday, \$51.00
    - 2) Provide the reason for selecting the location of the event or trip: See attached
- 

16. Name, nightly cost, and reasons for selecting each hotel or other lodging facility:

Hotel Name: Hampton Inn-Idaho Falls City: Idaho Falls Cost Per Night: \$124.00  
 Reason(s) for Selecting: Close proximity to airport for late arrival into Idaho Fall and close to INL for visits on Tuesday and Wednesday.

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 <b>Transportation</b> Expenses per Participant	Total <b>Lodging</b> Expenses per Participant	Total <b>Meal</b> Expenses per Participant
For each Member, Officer, or Employee	\$1, 025.00 total 875.00 roundtrip <input checked="" type="checkbox"/>	\$248.00	\$170.00
For each Accompanying Family Member			


	<b>Other</b> Expenses (dollar amount per item)	Identify Specific Nature of “Other” Expenses (e.g., taxi, parking, registration fee, etc.)
For each Member, Officer, or Employee		
For each Accompanying Family Member		

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:  Date: March 19, 2025  
 Name: Alex Flint Title: Executive Director  
 Organization: Climate Solutions Foundation  
 Address: 600 Pennsylvania Avenue, SE | Suite 410 | Washington, DC 20003  
 Email: andrea@mietusevents.com Telephone: 301-518-6336

If there are questions regarding this form, please contact the Committee on Ethics at 202-225-7103 or [travel.requests@mail.house.gov](mailto:travel.requests@mail.house.gov).

Michael Guest, Mississippi  
*Chairman*  
Mark DeSaulnier, California  
*Ranking Member*

John H. Rutherford, Florida  
Andrew R. Garbarino, New York  
Ashley Hinson, Iowa  
Nathaniel Moran, Texas

Deborah K. Ross, North Carolina  
Glenn F. Ivey, Maryland  
Sylvia R. Garcia, Texas  
Suhas Subramanyam, Virginia



ONE HUNDRED NINETEENTH CONGRESS

**U.S. House of Representatives**

COMMITTEE ON ETHICS

Thomas A. Rust  
*Staff Director and Chief Counsel*

Jordan Downs  
*Chief of Staff to the Chairman*

David Arrojo  
*Counsel to the Ranking Member*

1015 Longworth House Office Building  
Washington, D.C. 20515-6328  
Telephone: (202) 225-7103  
<https://Ethics.House.gov>

June 13, 2025

Mr. Harrison Jumper  
Office of the Honorable Chrissy Houlahan  
1727 Longworth House Office Building  
Washington, DC 20515

Dear Mr. Jumper:

Pursuant to House Rule 25, clause 5(d)(2), the Committee on Ethics hereby approves your proposed trip to Idaho Falls, Idaho, scheduled for June 16 to 18, 2025, sponsored by the Climate Solutions Foundation.

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 \$480 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,

Michael Guest  
Chairman

Mark DeSaulnier  
Ranking Member

MG/MD:nl

This educational staff trip to Idaho National Laboratory (INL) in Idaho Falls, Idaho is important to those who have climate as part of their portfolio. During our time in Idaho Falls, they will participate in tours at INL and meet with experts and leaders who work there, focusing on nuclear energy, clean water delivery, and the Advanced Test Reactor (ATR). The staff invited work on these topics will be a great asset to our delegation. These staff were chosen due to their engagement and advanced knowledge in the policy issues related to climate and energy policy.

First Name	Last Name	Title	Office of Rep
Greg	Barranco	2025 Brookings Congressional Fellow	Rep. Jared Huffman (D-CA-02)
Kesten	Bozinovic	Legislative Assistant	Rep. Julia Brownley (D-CA-26)
Ken	Brooke	Deputy Chief of Staff/Legislative Director	Rep. Mark Amodei (R-NV-02)
Josh	Buckingham	Legislative Assistant/Legislative Correspondent	Rep. Shri Thanedar (D-MI-13)
Kaleigh	Calvao	Legislative Assistant	Rep. Jim Himes (D-CT-04)
Eduardo	Carrizosa	Communications Director	Rep. Salud Carbajal (D-CA-24)
Nathan	Dadap	Senior Legislative Assistant	Rep. Kevin Mullin (D-CA-15)
Andrew	Deschler	Legislative Assistant	Rep. Andrea Salinas (D-OR-06)
Jackie	Duran	Legislative Assistant	Rep. Ami Bera (CA-06)
Ryan	Ebrahimy	Legislative Assistant	Rep. Dave Min (D-CA-47)
Jaelyn	Evans	Legislative Correspondent/ Staff Assistant	Rep. Mike Quigley (D-IL-05)
Kathleen	Foley	Senior Legislative Assistant	Rep. April McClain Delaney (D-MD-06)
Kei	Fujisawa	Legislative Assistant	Rep. Kim Schrier (D-WA-08)
Bridget	Henne	Legislative Assistant	Rep. David Joyce (R-OH-14)
Daniel	Horning	Legislative Director	Rep. Rob Bresnahan (R-PA-08)
Liz	Jacobson	Legislative Assistant	Rep. Jimmy Panetta (D-CA-19)
Harrison	Jumper	Deputy Legislative Director	Rep. Chrissy Houlahan (D-PA-06)
Marissa	Kaiser	Legislative Assistant	Rep. Joe Morelle (D-NY-25)
Niko	Keddy	Legislative Assistant	Rep. Andrew Garbarino (R-NY-02)

Brendan	Larkin	Senior Policy Advisor	Rep. Paul Tonko (D-NY-20)
William	Layton	Legislative Correspondent	Rep. Mike Lawler (R-NY-17)
TJ	Lowdermilk	Senior Legislative Assistant	Rep. Marcy Kaptur (D-OH-09)
Phil	McLaughlin	Director of Member Services	New Democratic Action Funds
Oliver	McIntosh	Legislative Assistant	Rep. Tom Keane (R-NJ-07)
Korey	McLeod	2025 Brookings Congressional Fellow	Sustainable Energy & Environment coal
Mallory	Meister	Staff Assistant	Rep. Ed Case (D-HI-01)
Emily	Mercado	Legislative Director	Rep. Seth Maganizer (D-RI-02)
Maddie	Mitchell	Legislative Director	Rep. Jen Kiggans (R-VA-02)
Ben	Monticello	Senior Legislative Assistant	Rep. Jack Bergman (R-MI-01)
Johanna	Montiel	Deputy Chief of Staff/Legislative Director	Rep. Salud Carbajal (D-CA-24)
Nikki	Roy	Energy Policy Advisor	Rep. Sean Casten (D-IL-06)
Ziyan	Sears	Climate and Energy Legislative Assistant	Rep. Scott Peters (D-CA-50)
Amanda	Shafer	Senior Legislative Assistant	Rep. Mike Levin (D-CA-49)
Ryan	Smet	Legislative Assistant	Rep. Stephen Lynch (D-MA-08)
Sean	Smith	Legislative Assistant	Rep. Maria Elvira Salazar (R-FL-27)
Jaydn	Smith	Deputy Legislative Director	Rep. Don Bacon (R-NE-02)
Beau	Stuckey	Legislative Assistant	Rep. David Valadao (R-CA-22)
Elise	Sugarman	Legislative Director	Rep. Pete Aguilar (D-CA-33)
Clara	Tibbetts	Senior Legislative Assistant	Rep. Paul D. Tonko (R-NY-20)
Leah	Uhrig	Legislative Director	Rep. Ted Lieu (D-CA-36)
Justin	Yamamura	Legislative Assistant	Rep. Young Kim (R-CA-40)
Josh	Zucker	Legislative Assistant	Rep. Josh Gottheimer (D-NJ-05)



**The Climate Solutions Foundation Programming in Idaho Falls  
Congressional Staff Delegation Schedule  
Monday, June 16, 2025 to Wednesday, June 18, 2025**

---

**Monday, June 16, 2025**

<b>5:36 PM ET</b>	<b>Depart Dulles International Airport (IAD)</b> United Airlines Flight #1236 Flight Time: 4 hours 4-minutes
<b>7:40 PM MT</b>	<b>Arrive at Denver International Airport (DEN)</b> 1 hour 25-minute layover
<b>9:05 PM MT</b>	<b>Depart DEN</b> United Airlines Flight #5232 Flight Time: 1 hour 46-minutes
<b>10:51 PM MT</b>	<b>Arrive at Idaho Falls Regional Airport (IDA)</b>
<b>RON</b>	<b>Hampton Inn, Idaho Falls</b> 645 Lindsay Boulevard, Idaho Falls

---

**Tuesday, June 17, 2025**

<b>8:00 AM MT</b>	<b>Breakfast</b>
<b>8:45 AM MT</b>	<b>Travel from the Hampton Inn to Idaho National Labs</b>
<b>9:00 AM MT</b>	<b>Idaho National Laboratory Tour Welcome and Overview</b>

Idaho National Laboratory (INL) is one of 17 national labs in the U.S. Department of Energy complex, with more than 6,400 researchers and support staff focused on innovations in nuclear research, integrated energy systems, and security solutions that are changing the world. INL's capabilities involve testing advanced nuclear energy concepts, preparing radioisotope power sources for NASA space exploration, developing longer-lived electric vehicle batteries, protecting the power grid and collaborating with numerous industries to turn waste into fuel. INL operates the world's premier materials test reactor, the Advanced Test Reactor, which is one of only two reactors in the nation producing life-saving medical radioisotopes. Touring INL relates to CSF's mission of bringing together bipartisan congressional staff to learn more about climate and energy science, which will better inform their legislative work.

<b>10:00 AM MT</b>	<b>Tour of Experimental Breeder Reactor 1 (EBR-1)</b>
--------------------	---

EBR-1 is a decommissioned research reactor and U.S. National Historic Landmark. EBR-1 is the world's first breeder reactor. A breeder reactor is a nuclear reactor that generates more fissile material than it consumes. In 1951, it became one of the world's first electricity-generating nuclear power plants when it produced sufficient electricity to illuminate four 200-watt light bulbs. EBR-1 is now a museum.

**11:00 AM MT                      Tour of Advanced Test Reactor (ATR)**

The ATR is the world's premier nuclear test reactor. It provides unmatched, national priority nuclear fuel and materials testing capabilities for military, federal, university and industry partners and customers. INL's nuclear research capabilities rely heavily on ATR, located at the ATR Complex on the INL Site. As the national laboratory for the U.S. Department of Energy's Office of Nuclear Energy (DOE-NE), INL serves a key role in U.S. nuclear energy research initiatives and programs, such as the National Reactor Innovation Center.

**12:30 PM MT                      Lunch Discussion on the Materials and Fuels Complex (MFC)**

The MFC hosts the core of U.S. nuclear energy research and development capability with an array of facilities designed for remote work on highly irradiated fuels and materials. A new fuel idea can be designed and fabricated, then tested and analyzed at MFC to better understand the effects of irradiation. Many groups, such as universities, industry partners, other national laboratories, international research organizations and other federal agencies are currently working at MFC. MFC houses 29 mission facilities. This lunch discussion will give attendees the opportunity to converse with MFC researchers and staff.

**1:30 PM MT                      Tour of MFC**

**1:50 PM MT                      Tour of the Hot Fuel Examination Facility (HFEF)**

The HFEF is INL's flagship facility for conducting post-irradiation examinations (PIE) of fuels and materials. HFEF, located at the Materials and Fuels Complex, is a national research asset with the largest inert atmosphere hot cell dedicated to nuclear materials research in the U.S. HFEF provides the ability to remotely handle and perform detailed nondestructive and destructive examination of highly irradiated fuel and material samples. Its argon-atmosphere hot cell, labs and special equipment handle a variety of fuel forms, including tiny particles, four-foot research reactor plates and full-sized commercial rods. HFEF supports INL's mission of research and development of safer and more efficient fuel designs.

**2:30 PM MT                      Tour of Space Battery Museum**

INL's Space Nuclear Power and Isotope Technologies Division assembles and tests Radioisotope Power Systems at INL's Materials and Fuels Complex, then delivers the systems for use in remote, harsh environments such as space. Radioisotope power systems can heat and power autonomous machinery for extended operation periods. INL assembles such generators by adding the radioactive power source.

**3:30 PM MT                      Tour the Transient Reactor Test (TREAT) Facility**

The TREAT Facility operated from 1959 through 1994, when it was placed in standby mode. A resurgence of interest in developing innovative nuclear technologies has driven demand for transient testing. TREAT was restarted in 2017 and is currently supporting experiment programs. TREAT provides transient testing of nuclear fuels and materials. The facility is used to study fuel melting behavior, interactions between fuel and coolant, and the potential for propagation of failure to adjacent fuel pins under conditions ranging from mild upsets to severe accidents.

**4:30 PM MT                      Travel from INL to the Hampton Inn**

**4:45 PM MT                      Down Time**

**6:30 PM MT                      Dinner Discussion on the Impact of INL on the Local Economy & Electric Utilities  
Sandpiper Restaurant**

In keeping with our mission of bringing together ideologically diverse congressional staff, elected leaders, and corporate executives to discuss climate science, economics, and policy, we will host a dinner on the impact of INL on the local economy and electric utilities. This meeting will provide a collaborative environment to discuss a bipartisan path forward on nuclear energy policy.

**RON                                  Hampton Inn**

## Wednesday, June 18, 2025

7:45 AM MT

**Breakfast**  
Hampton Inn

8:15 AM MT

**Travel from the Hampton Inn to Idaho National Labs**

8:30 AM MT

**Integrated Energy Systems Overview**

Through research and demonstration, INL advances integrated energy generation, storage and delivery technologies. The integrated systems approach is a marked change from traditional energy system designs typically focused on single generation sources to support a single energy demand (e.g., a nuclear plant that provides electricity to meet grid demand). INL is leveraging its expertise in nuclear and renewable energy systems to lead the world in developing integrated, clean, multigeneration energy systems that incorporate both heat and power for grid services and industrial processes. This clean heat and power can efficiently and economically produce clean hydrogen, and when combined with biogenic carbon, a broad spectrum of chemical commodities and low-emission fuels. By innovating to harness electricity, heat and hydrogen, INL accelerates a clean energy-based economy while enhancing grid reliability, resilience and affordability.

9:00 AM MT

**Scientific Computing and AI Overview**

Artificial intelligence (AI) and machine learning (ML) are helping INL scientists pursue advances in engineering and energy research. Computers that mimic cognitive functions and apply complex algorithms to analyze data can help researchers solve a variety of technical issues. This new approach aids in everything from materials design for advanced reactors to making nuclear power plant control rooms more usable and efficient. Attendees will learn about INL's five goals that support their research missions and how they are using AI to support those initiatives.

9:45 AM MT

**Tour of the Collaborative Computing Center (C3)**

C3 is the hub for modeling and simulation at INL. The Department of Energy's mission relies firmly on computing capabilities in various forms. In recent years, high-performance computing (HPC) has become increasingly important in scientific research, and its use in research has expanded across diverse disciplines.

10:20 AM MT

**Tour the Energy Systems Laboratory (ESL)**

The Energy Systems Laboratory (ESL) supports multiple projects. ESL engages in bio energy research through the Biomass Feedstock National User Facility (BFNUF), which is currently the R&D technical leader for developing bioenergy feedstock supply systems. The Electric Vehicle Infrastructure Laboratory enables collaborations with industry to test charging systems and help establish benchmarks for future technology. At the microgrid test bed, INL experts test dynamic storage and load-balancing options and perform simulations using real world data and hardware.

11:20 AM MT

**Depart INL for Lunch at Smitty's Pancake & Steak House**

11:30 AM MT

**Lunch at Smitty's Pancake & Steak House**

12:30 PM MT

**Depart Smitty's Pancake & Steak House for Idaho Falls Regional Airport**

2:25 PM MT

**Depart IDA**  
United Airlines Flight #5929  
Flight Time: 1 hour 47-minutes

4:12 PM MT

**Arrive at DEN**  
1 hour 12-minute layover

5:24 PM MT

**Depart DEN**  
United Airlines Flight #2408  
Flight Time: 3 hours 26-minutes

10:50 PM ET

**Arrive at IAD, Trip Concludes**

## Climate Solutions Foundation

### Question # 12

CSF was founded in 2019 as an educational, bipartisan 501(c)(3) non-profit organization. Our mission is to bring together ideologically diverse Members of Congress and their staff, global leaders, and corporate and trade executives to discuss climate science, economics, and policy. The Climate Solutions Foundation hosts a series of bipartisan, bicameral gatherings of members of Congress, congressional staff, executives, and scientists to build trust within the climate change community and inspire collaborative efforts to advance the agenda on climate change. Since then, CSF has expanded its programming to include domestic educational trips, international trips to the UN's (COP) convenings, congressional staff briefings, receptions, and a congressional fellowship program. The Climate Solutions Foundation is solely responsible for organizing and planning all aspects of the trip.

### Question # 15-2

We will be visiting the Idaho National Laboratory (INL) to engage directly with leading experts and gain a deeper understanding of INL's critical role in advancing the United States' nuclear energy capabilities. This visit will provide valuable insights into how INL supports the development of safe, clean, and reliable nuclear power, contributes to innovations in clean water technologies, and operates the Advanced Test Reactor (ATR)—a unique facility that plays a pivotal role in nuclear research, materials testing, and the future of advanced energy systems.



**Harrison Jumper**  
**Office of Representative Chrissy Houlahan (PA-06)**  
**Climate Solutions Trip to Idaho National Laboratory (INL)**  
**Monday, June 16 – Wednesday, June 18, 2025**

We are thrilled you will be joining the Climate Solutions Foundation (CSF) for the **Congressional Staff Trip to Idaho National Laboratory (INL)**, located in **Idaho Falls, Idaho**.

This information packet includes an **updated overview of the tour and schedule**, along with **important logistical details** to help you prepare for your visit. Below, you'll also find:

- **Uber Code**
- **Your travel details and overnight accommodation**
- **The list of the Congressional Delegation participating in the trip**
- **Trip guidelines**
- **Speaker biographies**
- **Read-ahead materials**

**Uber Voucher Code for Transportation to IAD and returning from IAD. (Valid only on Monday, June 16 and through Wednesday, June 18, 2025)**

Below you will find a unique Uber code covering the cost of your trip to and from IAD.

**Note:** if you do not use the case-sensitive code, we will not be able to reimburse you even if you use Uber.

Your Code: ryvvwtzrgmq  
*Remember it is case sensitive*

**Flight to Idaho Fall, ID**  
**Monday, June 16, 2025**

United Airlines Flight # 1728

5:20 PM depart Dulles International Airport (IAD)

7:35 PM MDT arrive Denver International Airport (DEN)

United Flight # 5232

9:05 PM MDT depart Denver International Airport (DEN)

10:51 PM MDT arrive Idaho Falls Regional Airport (IDA)

Locator Code: HB5XMD

Please note because this is a group flight and you will need to check in upon arrival at the United counter or Kiosk to obtain your boarding pass. If you run into any trouble with checking in, please reach out to Andrea Mietus who will be able to assist. Andrea can be reached at [Andrea@mietusevents.com](mailto:Andrea@mietusevents.com) or 301-518-6336

Ryan Ford and Ana McCawley from CSF will be joining you on the trip. Should you need to reach them included below are their email addresses & mobile numbers. On Friday, we'll send you a WhatsApp invite so we can communicate before and during the trip.

CSF Contacts	Email Address	Mobile Number
Ryan Ford	Ryan@helenmilby.com	309-945-3447
Ana McCawley	ana@helenmilby.com	760-619-0472

**Climate Solutions Foundation Staff Delegation INL Tour, Idaho Falls, Idaho**

- Nathan Dadap, Senior Legislative Assistant, Office of Representative Kevin Mullin (CA-15)
- Jackie Duran, Legislative Assistant, Office of Representative Ami Bera (CA-06)
- Kei Fujisawa, Legislative Assistant, Office of Representative Kim Schrier (WA-08)
- Emma Green, Climate Solutions Fellow, Office of Representative Scott Peters (CA-50)
- Ingrid Izaguirre, Climate Solutions Fellow, Office of Representative Chrissy Houlahan (PA-06)
- Harrison Jumper, Deputy Legislative Director, Office of Representative Chrissy Houlahan (PA-06)
- William Layton, Legislative Assistant, Office of Representative Michael Lawler (NY-17)
- Korey McLeod, Brookings Fellow, U.S. House Sustainable Energy & Environment Coalition
- Madeline Mitchell, Legislative Director, Office of Representative Jen Kiggans (VA-02)
- Manik "Nikki" Roy, Energy Policy Advisor, Office of Representative Sean Casten (IL-06)
- Ryan Smet, Legislative Assistant, Office of Representative Stephen Lynch (MA-08)
- Jaydn Smith, Deputy Legislative Director, Office of Representative Don Bacon (NE-02)
- Clara Tibbetts, Senior Legislative Assistant, Office of Representative Paul Tonko (NY-20)

**Overnight Accommodations for Monday, June 16<sup>th</sup> & Tuesday, June 17<sup>th</sup>**

The Hampton Inn Airport

645 Lindsay Blvd

Idaho Falls, ID 83402

Confirmation number: 91327069

*A complimentary continental breakfast is available at the Hampton Inn from 6:00 am – 10:00 am daily*

**Weather And Attire:** The temperature for Idaho Falls, ID is forecasted to range from the low 90s during the day to low 60s in the evening. We encourage all participants to dress casually and comfortably for the trip and tour; however please adhere to the safety dress code noted under the trip’s guidelines below.

**Trip Guidelines:** Please adhere to the following guidelines from the Idaho National Laboratory’s Visitor Safety and Security staff:

- You **MUST** have a government-issued ID to access the nuclear facilities.
- Required Attire: Sturdy shoes are closed-toed and closed heels that cover the whole foot are required. Shoes with leather uppers are preferred – no tennis shoes, sandals, low-cut slip-on, or ballet style shoes.
- Cotton short-sleeved or long-sleeved shirt – no tank tops or sleeveless shirts.
- Must wear long, natural fiber slacks (cotton) – no shorts, skirts or other attire that exposes legs or ankles.
- No polyester materials – synthetic fibers attract radon which will trigger INL personal contamination monitors.
- A light jacket is also recommended since some of the tour stops are outdoors.
- Please note that no cameras or photography devices are to be used on-site without prior approval.
- Bring sunscreen

**Prior to your arrival, we request you alert us to any of the following:**

- Any artificial joints or other metal medical implants that might alarm check-point metal detectors.
- Any nuclear medicine treatments that involved the ingestion or injection of radioactive material in the previous 30 days.
- If you have a pacemaker, mobility impairment, or other special need.

**Return Flight from IDA**

**Wednesday, June 18, 2025**

United Airlines Flight # 5929

2:25 PM depart Idaho Falls Regional Airport (IDA)

4:12 PM MDT arrive Denver International Airport (DEN)

Locator Code: HB5XMD

*If you have any logistics questions, please reach out to Andrea Mietus at [andrea@mietusevents.com](mailto:andrea@mietusevents.com) or call/text 301-518-6336.*

## Congressional Staff Delegation Biographies



### **Nathan Dadap, Senior Legislative Assistant, Office of Representative Kevin Mullin (CA-15)**

Nathan works on climate and energy issues for Representative Kevin Mullin on the House Energy and Commerce Committee. Nathan has a PhD in Earth System Science and previously worked for Senator Ossoff as a Legislative Fellow and at the U.S. Environmental Protection Agency (EPA).



### **Jackie Duran, Legislative Assistant, Office of Representative Ami Bera (CA-06)**

Jackie currently works on energy, environment, agriculture, water, financial services, transportation and infrastructure for Congressman Ami Bera, M.D. She previously served as Policy Fellow for the New Democrat Coalition where she covered immigration, workforce, and education policy. Prior to her fellowship, Jackie served in Rep. Scott Peters' office as a Staff Assistant covering water, animal welfare, and arts policy. She received her B.A. in Political Science from UC San Diego.



### **Kei Fujisawa, Legislative Assistant, Office of Representative Kim Schrier, M.D. (WA-08)**

Kei (pronounced "K") currently serves as a Legislative Assistant in Rep. Kim Schrier, managing energy and environmental issues for her role on the Energy Subcommittee of Energy and Commerce. Before public service, Kei graduated from UC Berkeley and worked as a chemical engineer out of college in the medical device industry.



### **Emma Green, Climate Solutions Fellow, Office of Representative Scott Peters (CA-50)**

Em Green is CSF Congressional Fellow in the office of Rep. Scott Peters. Prior to this she was a farmer and beekeeper. She attended Vermont Law School to obtain a MELP and J.D., Rutgers University for her M.F.A., and Baruch Honors College, where she majored in English Literature and Natural Sciences.



### **Ingrid Izaguirre, Climate Solutions Fellow, Office of Representative Chrissy Houlahan (PA-06)**

Ingrid Izaguirre is currently a Climate Solutions Fellow in the Office of Congresswoman Chrissy Houlahan, where she manages the House bipartisan Climate Solutions Caucus. Originally from Miami, Florida, she received her BA in Geology & Marine Science from the University of Miami and her M.Phil. and M.A. in Environmental & Earth Sciences from Columbia University.



### **Harrison Jumper, Deputy Legislative Director, Office of Representative Chrissy Houlahan (PA-06)**

Harrison Jumper serves as the Deputy Legislative Director to Representative Chrissy Houlahan. Harrison manages a diverse policy portfolio, including climate, innovation, biotechnology, and economic development. Notably, he has overseen the Congresswoman's role as Co-Chair of the bipartisan Climate Solutions Caucus, an active coalition of 60 Members working to make advancements in climate and energy policy. In addition, Harrison serves on the Advisory Board of the LGBT Congressional Staff Association.



### **William Layton, Legislative Assistant, Office of Representative Michael Lawler (NY-17)**

Legislative Assistant in the U.S. House of Representatives with a B.A. in Political Science from the University of Mississippi. I handle a diverse portfolio including Energy, Agriculture, Environment, Technology, Postal Issues, and Veterans Affairs.



**Korey McLeod, Brookings Fellow, U.S. House Sustainable Energy and Environment Coalition**

Korey McLeod is a Brookings LEGIS Fellow with the House Sustainable Energy and Environment Coalition (SEEC), where he supports clean energy, climate, and environmental policy initiatives. His home agency is the U.S. Department of State, where he serves as an analyst in the Bureau of Intelligence and Research, focusing on conflict in Asia. He holds an M.S. in Strategic Intelligence from the National Intelligence University and a B.A. in Philosophy from the University of Alabama.



**Madeline Mitchell, Legislative Director, Office of Representative Jen Kiggans (VA-02)**

Maddie is the Legislative Director for Congresswoman Jen Kiggans of Southeast Virginia. In her role as Legislative Director, Maddie manages the Congresswoman's policy team as well as handles a small portfolio of issues, including energy, environment, and technology policy. Maddie advises the Congresswoman on how to vote, provides legislative background for speaking engagements and public events, and drafts and promotes legislation on behalf of the Congresswoman. A native of Indianapolis, Indiana, Maddie completed her undergraduate degree at Indiana University in political science and Germanic languages. Maddie graduated from Georgetown University with a master's degree in foreign affairs and European studies. Prior to working for Congresswoman Kiggans, Maddie was the Legislative Director for Congressman Trey Hollingsworth (IN-09).



**Manik "Nikki" Roy, Energy Policy Advisor, Office of Representative Sean Casten**

Manik "Nikki" Roy is the Energy Policy Advisor of U.S. Representative Sean Casten (D-IL). Prior to joining Rep. Casten's staff, Roy worked for Rep. Diana DeGette (D-CO), Rep. Henry Waxman (D-CA), Sen. Frank Lautenberg (D-NJ), the U.S. Environmental Protection Agency, the Massachusetts Department of Environmental Protection, the Center for Climate and Energy Solutions, the Environmental Defense Fund, and the Climate Works Foundation. Roy has been an environmental policy professional for over forty years, with a focus on climate policy the last twenty-five. Roy has a Ph.D. in public policy from Harvard University, and a B.S. in civil engineering and an M.S. in environmental engineering, both from Stanford University. Roy was raised in Phoenix, Arizona; he and his wife have three daughters and three grandchildren.



**Ryan Smet, Legislative Assistant, Office of Representative Stephen Lynch (MA-08)**

Ryan is a Legislative Assistant for Rep. Stephen Lynch (MA-08). I cover a policy portfolio including environment, energy, agriculture, science & technology, and appropriations. I have worked for the Congressman since early 2023. I am originally from Green Bay, Wisconsin and graduated from University of Minnesota - Twin Cities.



**Jadyn Smith, Deputy Legislative Director, Office of Representative Don Bacon (NE-02)**

Jaydn Smith is the Deputy Legislative Director for Congressman Bacon and handles agriculture, natural resources, energy, environment, and trade policy for the Congressman. He is from Nebraska and has been with the Congressman since 2021.



**Clara Tibbetts, Senior Legislative Assistant, Office of Representative Paul Tonko (NY-20)**

Clara is a Senior Legislative Assistant for Congressman Paul D. Tonko covering a broad portfolio of issues including natural resources, science, agriculture, and transportation. Prior to working for the Congressman, she was a chemistry researcher at Colorado State University studying batteries.



**The Climate Solutions Foundation Programming in Idaho Falls  
Congressional Staff Delegation Schedule  
Monday, June 16, 2025 - Wednesday, June 18, 2025**

---

**Monday, June 16, 2025**

- 5:20 PM ET**            **Depart Dulles International Airport (IAD)**  
United Airlines Flight #1236  
Flight Time: 4 hours 15 minutes
- 7:35 PM MT**            **Arrive at Denver International Airport (DEN)**  
1 hour 25-minute layover
- 9:05 PM MT**            **Depart DEN**  
United Airlines Flight #5232  
Flight Time: 1 hour 46 minutes
- 10:51 PM MT**           **Arrive at Idaho Falls Regional Airport (IDA)**
- RON**                    **Hampton Inn, Idaho Falls**  
645 Lindsay Boulevard, Idaho Falls
- 

**Tuesday, June 17, 2025**

- 6:15 AM MT**            **Breakfast**
- 7:00 AM MT**            **Hotel Pick Up—INL Provided Transportation**
- 7:40 AM MT**            **Travel to INL Meeting Center at Energy Security Research Laboratory for Badging**  
650 MK Simpson Blvd., Idaho Falls | Conference Room 1002  
*INL Ambassador's: Taylor Wilhelm and Shelly Norman Ambassador*
- 8:00 AM MT**            **Idaho National Laboratory Tour Welcome and Overview**  
*Todd Combs; Deputy Laboratory Director of Science & Technology, Chief Research Officer*

Idaho National Laboratory (INL) is one of 17 national labs in the U.S. Department of Energy complex, with more than 6,400 researchers and support staff focused on innovations in nuclear research, integrated energy systems, and security solutions that are changing the world. INL's capabilities involve testing advanced nuclear energy concepts, preparing radioisotope power sources for NASA space exploration, developing longer-lived electric vehicle batteries, protecting the power grid and collaborating with numerous industries to turn waste into fuel. INL operates the world's premier materials test reactor, the Advanced Test Reactor, which is one of only two reactors in the nation producing life-saving medical radioisotopes. Touring INL relates to CSF's mission of bringing together bipartisan congressional staff to learn more about climate and energy science, which will better inform their legislative work.

**8:30 AM MT**            **Travel to Experimental Breeder Reactor 1—INL History Enroute**  
Scoville, ID

**9:30 AM MT**            **Tour of Experimental Breeder Reactor 1 (EBR-1)**  
INL Ambassador's: *Taylor Wilhelm and Shelly Norman Ambassador*

EBR-1 is a decommissioned research reactor and U.S. National Historic Landmark. EBR-1 is the world's first breeder reactor. A breeder reactor is a nuclear reactor that generates more fissile material than it consumes. In 1951, it became one of the world's first electricity-generating nuclear power plants when it produced sufficient electricity to illuminate four 200-watt light bulbs. EBR-1 is now a museum.

**10:10 AM MT**            **Travel to Advanced Test Reactor Complex (ATR)**  
Scoville, ID

**10:35 AM MT**            **Tour of Advanced Test Reactor (ATR)**  
*Kevan Weaver; Chief Technology Officer, ATR*  
*Kevin Smith; Operations Division Director, ATR*

The ATR is the world's premier nuclear test reactor. It provides unmatched, national priority nuclear fuel and materials testing capabilities for military, federal, university and industry partners and customers. INL's nuclear research capabilities rely heavily on ATR, located at the ATR Complex on the INL Site. As the national laboratory for the U.S. Department of Energy's Office of Nuclear Energy (DOE-NE), INL serves a key role in U.S. nuclear energy research initiatives and programs, such as the National Reactor Innovation Center.

**11:15 AM MT**            **Travel to Materials and Fuels Complex (MFC)**  
Scoville, ID

**11:45 AM MT**            **Arrive at Materials and Fuels Complex (MFC)**  
Scoville, ID

**12:00 PM MT**            **Lunch Discussion on the Materials and Fuels Complex (MFC)**  
MFC 1747 Conference Room 145/146  
*Abdul Dullo; Chief Scientist, MFC*

The MFC hosts the core of U.S. nuclear energy research and development capability with an array of facilities designed for remote work on highly irradiated fuels and materials. A new fuel idea can be designed and fabricated, then tested and analyzed at MFC to better understand the effects of irradiation. Many groups, such as universities, industry partners, other national laboratories, international research organizations and other federal agencies are currently working at MFC. MFC houses 29 mission facilities. This lunch discussion will give attendees the opportunity to converse with MFC researchers and staff.

**1:00 PM MT**            **Tour of the Materials and Fuels Complex (MFC).**

**Groups split into two**

**Group 1:****1:20 PM MT****Tour of the Hot Fuel Examination Facility (HFEF)***Alex Hansen: Post Irradiation Examination**PIE Research Scientist*

The HFEF is INL's flagship facility for conducting post-irradiation examinations (PIE) of fuels and materials. HFEF, located at the Materials and Fuels Complex, is a national research asset with the largest inert atmosphere hot cell dedicated to nuclear materials research in the U.S. HFEF provides the ability to remotely handle and perform detailed nondestructive and destructive examination of highly irradiated fuel and material samples. Its argon-atmosphere hot cell, labs and special equipment handle a variety of fuel forms, including tiny particles, four-foot research reactor plates and full-sized commercial rods. HFEF supports INL's mission of research and development of safer and more efficient fuel designs.

**2:00 PM MT****Tour Radioisotope Power Systems Learning Center***Andrew Zilmer; Deputy Division Director for Space Nuclear Power and Isotopic Technology, Program Manager for Isotope Technology*

The Radioisotope Power Systems Learning Center houses historic to present-day space flight radioisotope power systems and models. Displays show the design evolution and safety of radioisotope power systems as well as describe how they generate power.

**Group 2:****1:20 PM MT****Tour Radioisotope Power Systems Learning Center***Andrew Zilmer; Deputy Division Director for Space Nuclear Power and Isotopic Technology, Program Manager for Isotope Technology***2:00 PM MT****Tour of the Hot Fuel Examination Facility (HFEF)***Alex Hansen: Post Irradiation Examination**PIE Research Scientist***Groups rejoin at 2:40 PM MT.****2:50 PM MT****Travel to the Transient Reactor Test Facility (TREAT)***Scoville, ID***2:55 PM MT****Tour the Transient Reactor Test (TREAT) Facility***Jack Blackwell; MFC Transient Reactor Test Facility Manager  
or Jim Parry; Treat Chief Reactor Engineer and Peng Xu; In Core  
Experimentation Manager*

The TREAT Facility operated from 1959 through 1994, when it was placed in standby mode. A resurgence of interest in developing innovative nuclear technologies has driven demand for transient testing. TREAT was restarted in 2017 and is currently supporting experiment programs. TREAT provides transient testing of nuclear fuels and materials. The facility is used to study fuel melting behavior, interactions between fuel and coolant, and the potential for propagation of failure to adjacent fuel pins under conditions ranging from mild upsets to severe accidents.

**3:40 PM MT****Travel from INL to the Hampton Inn****4:10 PM MT****Executive Time**

**6:30 PM MT**

**Dinner Discussion on the Impact of INL on the Local Economy**

*Special Guests: Rebecca Casper, Mayor of Idaho Falls  
& Dr. Todd Combs, Deputy Lab Director*  
Copper Rill Restaurant  
415 River Pkwy, Idaho Falls, ID 83402

In keeping with our mission of bringing together ideologically diverse congressional staff, elected leaders, and corporate executives to discuss climate science, economics, and policy, we will host a dinner on the impact of INL on the local economy and electric utilities. This meeting will provide a collaborative environment to discuss a bipartisan path forward on nuclear energy policy.

**RON**

**Hampton Inn**

---

**Wednesday, June 18, 2025**

**6:45 AM MT**

**Breakfast**  
Hampton Inn

**7:45 AM MT**

**Travel from the Hampton Inn to Idaho National Labs**

**8:00 AM MT**

**Integrated Energy Systems Overview (IES)**  
*Richard Boardman; DOE IES Program Lead*

Through research and demonstration, INL advances integrated energy generation, storage and delivery technologies. The integrated systems approach is a marked change from traditional energy system designs typically focused on single generation sources to support a single energy demand (e.g., a nuclear plant that provides electricity to meet grid demand). INL is leveraging its expertise in nuclear and renewable energy systems to lead the world in developing integrated, clean, multigeneration energy systems that incorporate both heat and power for grid services and industrial processes. This clean heat and power can efficiently and economically produce clean hydrogen, and when combined with biogenic carbon, a broad spectrum of chemical commodities and low-emission fuels. By innovating to harness electricity, heat and hydrogen, INL accelerates a clean energy-based economy while enhancing grid reliability, resilience and affordability.

**8:45 AM MT**

**Scientific Computing and AI Overview**  
*Chris Ritter; Division Director Scientific Computing and AI*

Artificial intelligence (AI) and machine learning (ML) are helping INL scientists pursue advances in engineering and energy research. Computers that mimic cognitive functions and apply complex algorithms to analyze data can help researchers solve a variety of technical issues. This new approach aids in everything from materials design for advanced reactors to making nuclear power plant control rooms more usable and efficient. Attendees will learn about INL's five goals that support their research missions and how they are using AI to support those initiatives.

**9:20 AM MT**

**Tour of the Collaborative Computing Center (C3)**  
*Eric Whiting; Senior Advisor*

C3 is the hub for modeling and simulation at INL. The Department of Energy's mission relies firmly on computing capabilities in various forms. In recent years, high-performance computing (HPC) has become increasingly important in scientific research, and its use in research has expanded across diverse disciplines.

**10:00 AM MT**

**Tour the Energy Systems Laboratory (ESL)**

*T.J. Morton; Experiment Systems Engineering Lead*

*Kurt Myers; MSEE, PE, Group Lead*

*Tim McJunkin; Distinguished Researcher and Group Lead for Grid Integration and Controls*

The Energy Systems Laboratory (ESL) supports multiple projects. ESL engages in bio energy research through the Biomass Feedstock National User Facility (BFNUF), which is currently the R&D technical leader for developing bioenergy feedstock supply systems. The Electric Vehicle Infrastructure Laboratory enables collaborations with industry to test charging systems and help establish benchmarks for future technology. At the microgrid test bed, INL experts test dynamic storage and load-balancing options and perform simulations using real world data and hardware.

**END OF PROGRAMMING**

**11:00 AM MT**

**Depart INL for Lunch at Smitty's Pancake & Steak House**

**11:30 AM MT**

**Lunch at Smitty's Pancake & Steak House**

**12:30 PM MT**

**Depart Smitty's Pancake & Steak House for Airport**

**2:25 PM MT**

**Depart IDA**

United Airlines Flight #5929

Flight Time: 1 hour 47-minutes

**4:12 PM MT**

**Arrive at DEN**

1 hour 12-minute layover

**5:24 PM MT**

**Depart DEN**

United Airlines Flight #2408

Flight Time: 3 hours 26-minutes

**10:50 PM ET**

**Arrive at IAD**

## **Idaho National Laboratory (INL) Speakers And Special Guests Bios**

### **Todd Combs, Deputy Laboratory Director of Science & Technology, Chief Research Officer**



Combs became deputy laboratory director for Science and Technology and chief research officer at Idaho National Laboratory in June 2024. Prior to this role, he served as associate laboratory director for Energy and Environment Science & Technology (EES&T) since 2017. His research has included energy systems modeling and analysis for DOE, most recently related to critical materials supply chains; as well as the application of modeling and simulation to national and homeland security issues for DHS and the Department of Defense. Formerly the director of the Global Security Sciences Division at Argonne National Laboratory, he led a multidisciplinary research team of over 200 that found solutions to protect against, mitigate, respond to, and recover from a wide spectrum of national and global security threats. He served 14 months as Argonne's interim associate laboratory director for Energy and Global Security. Earlier, he managed Argonne's advanced grid modeling program for DOE, and Argonne's relationship with the Department of Homeland Security Science and Technology Directorate. At Oak Ridge National Laboratory, he was an operations research scientist and served as group leader of the Transportation Planning and Decision Science group. He earned a doctorate in operations research and master's degree in operations analysis from the Air Force Institute of Technology and is a graduate of the U.S. Military Academy at West Point.

### **Kevan Weaver; Chief Technology Officer, ATR**



Dr. Kevan Weaver has spent much of his career in advanced reactor design and analysis, where he has initiated and executed complex test programs and contributed to designs for advanced nuclear reactor concepts. His experience has allowed him to focus on some of the critical technical challenges facing advanced reactor concepts, such as the development and testing of advanced nuclear fuels and materials. Weaver re-joined Idaho National Laboratory in the spring of 2018 as the CTO for the Advanced Test Reactor (ATR). He was also the technical lead/PI for all INL work supporting the Westinghouse eVinci microreactor, supported a mobile microreactor project, served as Director of Experimental Capabilities for the Versatile Test Reactor (VTR), and supported the effort for integrated transient testing of advanced reactor fuels. Dr. Weaver is the author/co-author of more than 90 publications and technical reports in nuclear science and engineering and is a co-author of a textbook on fast spectrum reactors. He holds a BS degree in physics, and PhD degree in nuclear engineering.

### **Kevin Smith; Operations Division Director, ATR**



Dr. Smith is the Operations Division Director for the Advanced Test Reactor (ATR) Programs at Idaho National Laboratory with responsibilities for ensuring safe and efficient operation of the reactor, experiments, and plant facilities. Kevin provides leadership, direction, and integration to maximize plant availability, meet test sponsor objectives, and to ensure compliance with INL, DOE, state, and federal regulations. Prior to his move to Operations, Kevin was the Experiments and Safety Analysis Division Director for the ATR with responsibilities for the Experiment Engineering, Reactor Engineering, and Nuclear Safety Engineering Departments. Dr. Smith has 30 years of experience in operation, safety analysis, and reactor engineering associated with DOE regulated reactors. Prior to joining INL in 2017, Kevin spent 25 years at the Oak Ridge National Laboratory (ORNL). Kevin was the Deputy Director of the Research Reactors Division at ORNL. He was also the Manager of Nuclear Safety and Experiment Analysis Group at the High Flux Isotope Reactor (HFIR), responsible for maintenance of the HFIR SAR, fuel fabrication activities, and support of in-vessel irradiations. Dr. Smith received his doctorate in Nuclear Engineering from Pennsylvania State University.

### **Abdul Dullo, Chief Scientist, MFC**



Abdul joined INL in September 2020 as the Materials and Fuels Complex (MFC) Chief Scientist. Prior to joining INL, he worked at the Westinghouse Electric Company, starting in 1994 as a senior research engineer in the area of radiation detection instrumentation and nondestructive inspection systems. He went on to other positions of increasing responsibility at the company, eventually becoming Director for Plant Technologies and Product Development with oversight of programs that included advanced reactor development and materials research and testing.

### **Andrew Zillmer, Deputy Division Director for Space Nuclear Power and Isotope Technology**



Zillmer has been deputy director of INL's Space Nuclear Power and Isotope Technologies Division for five years. Prior to this, he was a program manager for Isotope Technologies. Before he joined INL in 2017, he worked for Aerojet Rocketdyne, for Victory Energy Operations, and for eSolar. He is experienced in technology development and program capture and has worked on range of projects from capture and systems architecting to end of life cycle. He has experience with numerous systems engineering activities that include rocket engine systems, a space telescope, nuclear thermal rockets,

green propellants, sun trackers, solar power plants, portable power systems, and nuclear power systems. Zillmer holds masters degrees in nuclear engineering and engineering physics from the University of Wisconsin-Madison as well as masters degrees in engineering management and in systems architecture and engineering from the University of Southern California.

### **Richard Boardman DOE IES Program Lead**



Richard Boardman is a Directorate Fellow for the Idaho National Lab (INL) Technology Energy and Environmental Science & Technology Directorate. His current responsibilities include Pathway lead for the Light Water Reactor Sustainability Program- Flexible Plant Operation & Generation; National Technical Director for the DOE Nuclear Energy Integrated Energy Systems Program, and INL Laboratory Program Lead for the DOE Hydrogen and Fuel Cell Technology Office. He graduated with a doctorate degree in Chemical Engineering from Brigham Young University, with an emphasis in energy and

environmental applications. He was employed by Exxon Production Research and Geneva Steel before joining the Idaho National Laboratory in 1990. He has now worked as a research engineer at the Lab for 33 years. He provides technical leadership for development and demonstration of high temperature steam electrolysis and hydrogen conversion processes. He supports a United States initiative to develop efficient energy systems that utilize nuclear energy for power generation and industrial heat applications. Referred to as hybrid energy systems, this concept can enable the build-out of variable generation renewable energy by providing flexible dispatch of the thermal energy produced by the nuclear reactor for load-following electricity demand, while maintaining a high-capacity factor for nuclear plants by producing other industrial products when not in power generation mode. He helped start the DOE Big Idea referred to H2@Scale.

### **Chris Ritter, Division Director Scientific Computing and AI**



Chris Ritter is the division director of scientific computing & AI and director of the Digital Innovation Center of Excellence at Idaho National Laboratory (INL). His team of ~100 computational and data scientists are changing the world's future with AI/ML, digital twinning, digital engineering, multi-physics, HPC, and digital thread technologies across a portfolio of nuclear energy, non-proliferation, semiconductor, and defense applications. Chris founded INL's nationally leading digital engineering team which grew

from 0 to over ~57 of the nation's top researchers and developers in digital science. His team led the first nuclear reactor digital twin, built the Deep Lynx open digital thread platform, developed the first autonomous non-nuclear microreactor, and is actively building multiple petabyte-scale digital thread platforms. Additionally, he is co-president of Newcomers in Leadership and Chief Digital Officer of SMART USA. Prior to INL, Chris co-founded and led development of the #1 cloud-native MBSE tool, Innoslate, used in 107 counties across 2,000 companies around the world.

### **Eric Whiting, Senior Advisor, Scientific Computing and Artificial Intelligence**



Eric Whiting assumed the role of Senior Advisor in 2024. Prior to that, he was INL's Division Director for Advanced Scientific Computing for five years. He first joined INL's High Performance Computing group in 2004. Before joining INL, Whiting worked as an engineer at onsemi and IBM. He holds a masters degree in electrical engineering from Brigham Young University.

### **TJ Morton, Experiment Systems Engineering Lead**



Mr. Morton is a fluid systems design engineer with experience in commercial nuclear power and industrial process fluid system design. In addition, he has operations experience on plants ranging from residential waste-to-energy steam plants to refineries. As a systems engineer with a commercial nuclear power architect and engineering firm, Mr. Morton collaborated with international teams to finish design and construction on plants in Finland and China. As a system design engineer with an employee-owned, mechanical-electrical-plumbing, construction company, he has knowledge and experience with designing various fluid systems and assisting in startup and commissioning. Finally, at Idaho National Laboratory, he has assisted in the design of multiple experimental systems and driven those projects through construction and into operation.

### **Kurt Myers, MSEE, PE, Group Lead**



Kurt Myers is a Group Lead, Program Manager, and project manager electrical engineer in the Systems Engineering and Integration Department, Distributed Energy and Grid Systems Integration group at Idaho National Laboratory, with over 25 years of experience at the lab working with multiple government and industry customers, and university collaborators. He works on many types of power transmission, distribution and generation technologies including wind, solar, energy storage/fuel cells, diesel, gas, and many aspects of power control systems, protection, integration and resiliency. Other specialties include wind data analysis, wind and solar power feasibility studies, wind and solar farm design and construction projects, micro/island grids and associated control systems, battery/storage systems testing and integration, and research in dynamic transmission rating systems. He earned his bachelor's degree in physics in 1992 from the University of Washington and his master's in electrical engineering in 1997 from Washington State University. He is also a licensed professional engineer in the State of Idaho. Kurt has co-authored many technical papers, reports, articles and presentations on wind and solar power, electrical engineering, and power systems.

**Tim McJunkin, Distinguished Researcher and Group Lead for Grid Integration and Controls**



Timothy McJunkin is a Distinguished Researcher and Group Lead for Grid Integration and Controls in the Power and Energy Systems at the Idaho National Laboratory (INL). He leads work in implementing nuclear energy centered microgrids. His current research is centered around cross-cutting research to develop resilience solutions of the energy sector and human systems automation directed at critical-infrastructure. Since joining INL in 1999, he has accumulated research and development experience in diverse domains including robotics/automation, welding/nondestructive, analytical chemistry, and resilient control of critical infrastructure. He led the nondestructive examination development and was a key contributor in the robotic system development for the Yucca Mountain Waste Package Closure System. His record of achievement includes over 25 peer review journal articles, editing one book and contributing 4 book chapters, 15 patents on topics of computer systems, analytical chemistry instrument systems, industrial automation, Smart Grid, and nondestructive examination.

**Jack L. Blackwell, MFC Transient Reactor Test Facility Manager**



Jack Blackwell currently holds the title of Nuclear Facility Manager (NFM) at the Transient Reactor Test (TREAT) Facility at Material and Fuels Complex. Prior to his position as NFM, he was certified as Reactor Operator (RO), Senior Reactor Operator (SRO), and Shift Supervisor at TREAT and was the senior Nuclear Facility Instructor for the Neutron Radiography Reactor (NRAD). Prior to INL, he held various management positions in commercial nuclear and nuclear waste cleanup and was certified INPO Simulator Instructor and SRO Classroom Instructor. He held NRC licenses for RO and SRO positions at commercial power plants and has worked at several nuclear power plants in the states and overseas. He served in the U.S. Navy in the engineering departments on nuclear submarines. He has a B.S. in Nuclear Engineering Technology from Thomas Edison State University.

**James “Jim” Parry, TREAT Chief Reactor Engineer**



Parry graduated with a Bachelor of Science in Physics from Weber State University. He worked as a Systems Engineer in Japan for 3 years before returning to school and completing a Ph.D. in Nuclear Engineering from the University of Utah. He performed reactor physics modeling at INL from 2003 to 2014 with emphasis on experiment modeling for the Advanced Test Reactor. In 2014 Jim joined the Transient Reactor Test Facility (TREAT) restart team as the Reactor Engineering group lead. Since that time, he has moved into the Science Lead position for TREAT and is currently the manager of the Reactor Engineering and Safety department in the MFC Reactor Division. He has served as the Publication Chair for the 8th International Topical Meeting on Nuclear Applications and Utilization of Accelerators (AccApp '07) and served as a special issue editor for the Nuclear Technology special issue on TREAT restart.

## Dinner Speaker

### Mayor Rebecca Casper of Idaho Falls



Rebecca Casper was re-elected to a third term as Mayor of Idaho Falls in November 2021, in a citywide election. Idaho Falls is a city of roughly 67,000 residents located on the banks of Idaho's Snake River. Idaho Falls is the largest city east of Idaho's capital and follows the strong mayor model. With 11 departments, six enterprise funds, utilities and an annual budget of approximately \$333 million, Idaho Falls is one of the most complex cities in the state. Prior to her election, Mayor Casper taught university-level courses in American government and state and local governance. She earned her B.A. and M.A. degrees from BYU in Utah and a Ph.D. in political science from UC-Berkeley. Before that, she worked as a research associate at the Brookings Institution in Washington D.C.

Under Mayor Casper's leadership, Idaho Falls was ranked the best-performing small city in America by the 2021, 2023 and 2024 Milken Institute Best-Performing Cities Indexes. The honor recognized the area's high-tech industry presence, which drove job growth. The city has also focused on connectivity and housing. At the state level, Mayor Casper serves as a Vice President of the Association of Idaho Cities and is a longtime member of Idaho's LINE Commission charged with promoting nuclear energy opportunities for Idaho. She also serves on the Regence Blue Shield of Idaho Board. In 2016 and in 2020, she received the Idaho Business Review's Women of the Year Award.

Nationally, Mayor Casper serves as Vice Chair of the Energy Communities Alliance, advocating for Eastern Idaho's energy and environmental clean-up interests. In 2016, Mayor Casper was selected as a participant in Governing Magazine's Women in Government Leadership Program. In the local community and Eastern Idaho region, Mayor Casper serves on numerous additional boards and commissions.

Mayor Casper has raised four children. All are at the graduate university level or are in the workforce. They enjoy cooking, eating, debating, teasing each other, and solving the world's problems in the wee hours.

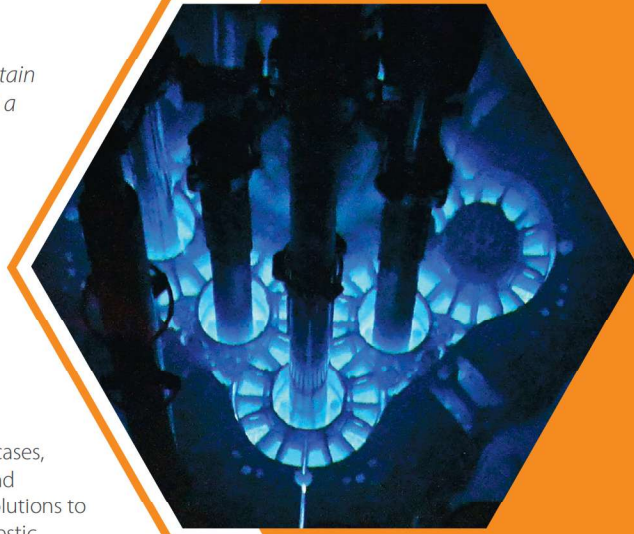
# IDAHO NATIONAL LABORATORY

*The birthplace of nuclear power, Idaho National Laboratory's 890-square-mile site, large-scale infrastructure, and research facilities are unique assets enabling energy and security research, development, and demonstration at scale.*

## Unleashing Abundant Nuclear Power

*As the nation's nuclear energy laboratory, INL is performing research and development to sustain the existing commercial reactor fleet, enable the expansion of nuclear power, and reestablish a domestic fuel supply chain.*

- INL is partnering with 10 plus reactor developers to achieve advanced reactor demonstrations on the INL site that support commercial deployment. With proper support, three to five demonstrations could occur during President Trump's term.
- INL operates four test reactors and a suite of post-irradiation examination capabilities to develop and qualify advanced nuclear fuels and materials.
- INL is recycling DOE-owned spent nuclear fuels to provide high-assay low-enriched uranium (HALEU) for near-term demonstrations and supporting development of a domestic HALEU fuel cycle.
- INL's Energy Technology Providing Ground, an industrial-scale demonstration and test complex, will de-risk advanced energy technologies and use cases, including integrated energy system concepts and secure microgrids, and advance technology solutions to the urgent national need to establish a domestic supply of critical and strategic minerals and materials.



## Accelerating Energy Dominance Through AI and Applied Innovation

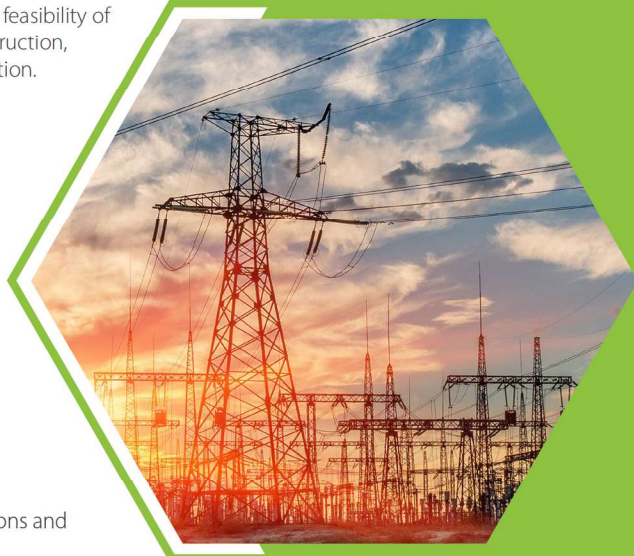
*INL is using artificial intelligence (AI) and machine learning to unleash commercial nuclear power.*

- INL is working to implement AI-based methods to automate operations of current nuclear reactors, advance breakthroughs in nuclear fuels, materials, and technologies, and accelerate affordable advanced reactor design, licensing, construction/fabrication, and deployment.
- INL could host the first pairing of an advanced reactor with an AI data center, demonstrating the feasibility of accelerating reactor design, licensing, construction, and operation, and leveraging DOE authorization.

## Strengthening Grid Reliability and Security

*As a leader in cyber-physical security and resiliency, INL advances innovations in industrial control system cybersecurity for critical infrastructure and wireless/spectrum security.*

- INL is working with DOE, the Department of Homeland Security, other federal agencies, industry and academia to "engineer out" cyber risk throughout the design and operation life cycle, improve identification of adversarial techniques, and identify component and supply chain vulnerabilities.
- INL conducts testing and validation of innovations to protect the nation's critical electric infrastructure at its comprehensive electric power grid test beds, including 32 miles of reconfigurable distribution line, 16 miles of transmission line, full fiber-optic communications and transformers complemented by four research pads.
- INL leverages a 5G and beyond network for field testing secure wireless communications solutions.





Find us by searching for Idaho National Laboratory on any of these platforms or visit [www.inl.gov](http://www.inl.gov)



## INL Facilities

*Distinctive Resources for the Development of Enduring Solutions*

Idaho National Laboratory consists of an 890-square-mile area in southeastern Idaho often referred to as the "INL Site," as well as laboratories and administrative buildings located approximately 35 miles to the east in the city of Idaho Falls.

Day-to-day operations are conducted at three primary areas, each hosting the complementary resources necessary to support national priority research. One area focuses on nuclear materials and processing, another on reactor technologies, and the third on science, technology and education integration. To maintain and expand its distinctive capabilities in nuclear energy research and development, demonstration and deployment, INL has embarked on a broadly based infrastructure revitalization effort.

### **MATERIALS AND FUELS COMPLEX**

The Materials and Fuels Complex (MFC) located on the INL Site is a prime testing center for advanced technologies associated with nuclear power systems. This complex is the nexus of research on new reactor fuels and related materials. As such, it contributes significantly to the development of increasingly efficient reactor fuels and the important work of nonproliferation.

A new fuel idea can be designed and fabricated, and then tested and analyzed at MFC to better understand the effects of irradiation. MFC hosts the core of U.S. nuclear research and development with a diverse array of facilities designed for remote work on highly irradiated fuels and materials. Many groups, such as universities, industry partners, other national laboratories, international research organizations and federal



*Materials and Fuels Complex*

From left to right:  
Advanced Test Reactor Complex,  
Research and Education Campus



Three other INL Site facility areas provide specialized technology testing and development, manufacturing, and support services. The **Specific Manufacturing Capability** is the complex responsible for the production of heavy armor that helps make U.S. Army Abrams tanks, the world's best armored vehicles. **Central Facilities Area**, located centrally on the INL Site, is the main service and support center for INL's desert facilities. And the **Critical Infrastructure Test Range Complex** offers an isolatable electrical transmission and distribution system, and a comprehensive communications test bed.

agencies work at MFC. The Materials and Fuels Complex is located 32 miles west of Idaho Falls on the high-desert sagebrush steppe of the Snake River Plain.

#### **ADVANCED TEST REACTOR COMPLEX**

Also located on the INL Site, the Advanced Test Reactor Complex is dedicated to research supporting Department of Energy missions: to encourage and enable building new things. It is the focal point for designing, testing and proving new technologies. The facility's work scope is broad, far-reaching and encompasses multiple technological options important to coming generations of nuclear power reactors.

Recently constructed or upgraded buildings at this complex include the Test Train Assembly Facility, Technical Support Building, Radioanalytical Chemistry Laboratory and the Radiation Measurements Laboratory. The Advanced Test Reactor

Complex is located in the southwestern region of the Idaho National Laboratory Site, 47 miles west of Idaho Falls.

#### **RESEARCH AND EDUCATION CAMPUS**

The Research and Education Campus is the collective name for INL's administrative, educational, technical support and computer facilities in Idaho Falls, as well as in-town laboratories where researchers work on a wide variety of advanced scientific research and development projects. The campus name reflects the lab's connection to university and energy research.

INL is transforming infrastructure at that campus to support its mission by providing robust science and engineering capabilities.

The landscape of this Idaho Falls campus evolved markedly with the completion of the National and Homeland Security office and engineering facilities, and a new business office. The most recent additions include the 92,000-square-foot Energy

Systems Laboratory and 148,000-square-foot Energy Innovation Laboratory.

Facilities already in place and those planned for the future accelerate INL's development into a distinctively capable research laboratory. With forefront research facilities, support infrastructure and management systems, INL is better positioned than ever to deliver world-class research, while operating to the highest standards of safety, environmental protection and efficiency.

Idaho National Laboratory is operated for the U.S. Department of Energy by Battelle Energy Alliance. Also operating on the INL Site are research, environmental and cleanup projects at other facility areas. Those operations are managed by separate contractors.

**Battelle Energy Alliance manages INL for the U.S. Department of Energy's Office of Nuclear Energy.**

#### **FOR MORE INFORMATION**

**General contact**  
**Ryan Hansen**  
208-526-5532  
[ryan.hansen@inl.gov](mailto:ryan.hansen@inl.gov)

[www.inl.gov](http://www.inl.gov)

A U.S. Department of Energy  
National Laboratory



# Welcome to Idaho National Laboratory



[WWW.INL.GOV](http://WWW.INL.GOV)



Idaho National Laboratory

## WELCOME TO IDAHO NATIONAL LABORATORY

We look forward to hosting you soon. In this packet, you will find helpful information related to your upcoming visit at Idaho National Laboratory. Please do not hesitate to reach out to our protocol officer via the contact information provided below with any questions or concerns.

The agenda included here will be your primary point of reference for visit logistics. We have also provided maps that may help you navigate our campus. We hope the brief information provided on the facilities and departments included in your visit is helpful. Our on-site research experts onsite will provide additional details and will be happy to answer any other questions related to our work that you have.

INL is owned by the United States Department of Energy and operated by Battelle Energy Alliance. As a federal research facility, we require positive proof of identification for your visit. Please ensure that you bring appropriate identification with you as you arrive for your visit.

Visitors to INL's desert Site should be prepared to walk short distances outdoors in all weather. Many facilities require flat, closed-toed and closed-heel shoes and long pants for entry. Please also be aware that personal photography is not allowed in our facilities.

**Our team is eager to assist in any way we can. On behalf of all of us at INL, welcome to our laboratory.**

**Sara Prentice**

*Director of Communications*  
sara.prentice@inl.gov

**Anna Sadzewicz**

*Tours and Protocol Liaison for  
National & Homeland Security  
and the Advanced Test Reactor*  
anna.sadzewicz@inl.gov  
208-526-7845

## WHAT YOU NEED TO KNOW BEFORE TOURING IDAHO NATIONAL LABORATORY

### **Clothing requirements:**

- You must wear closed-toed and closed-heeled shoes and long pants to enter operational facilities. No sandals, high heels, shorts or skirts.
- There is a lot of walking on tour and Idaho weather can be unpredictable. Please dress for the weather with consideration for comfortable footwear.
- If a visit to the Advanced Test Reactor is on your agenda, cotton clothing is preferred. Other fabrics create static electricity and attract radon gas, a naturally occurring radioactive gas that INL monitoring devices will detect. It is not a hazard, but it can be inconvenient.
- Several of our facilities require clearing metal detectors. Excessive metal like extra change, large belt buckles and steel-toed shoes might slow you down, but they are not prohibited.
- If you have a Bluetooth medical device, you will need to notify the host.

### **Prohibited Items:**

At the badging office, you will need to verify you do not have any of the following **prohibited articles**:

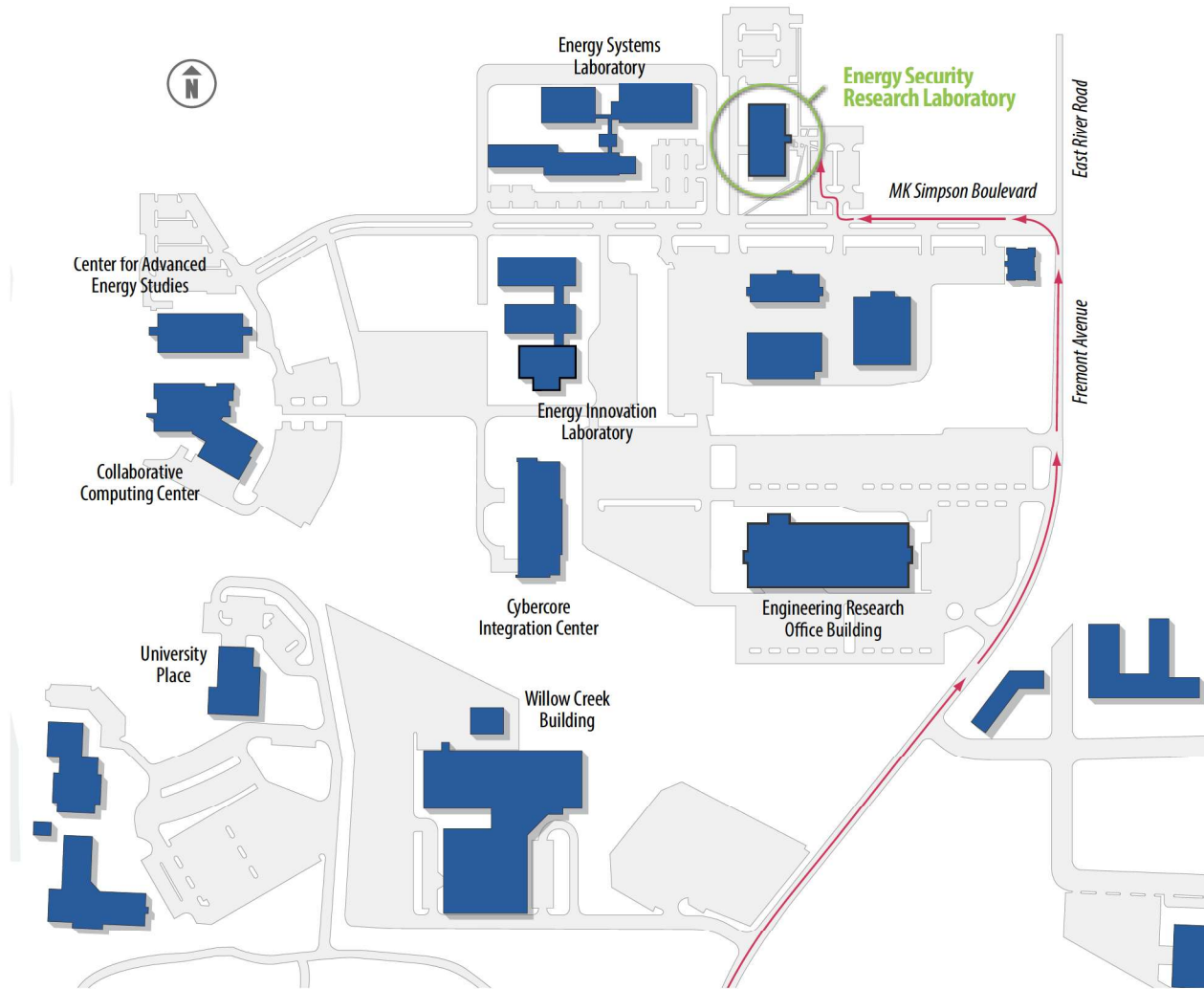
- Alcohol or illegal drugs
- Firearms, ammunition or explosive devices
- Knives, including pocket knives, with blades over two and one-half inches
- Cameras, recording devices, or portable transmitting devices
- Personal radiation monitoring devices. (Radiation monitoring is conducted by trained and certified INL personnel using instrumentation that is calibrated by accredited laboratories. If a visitor would like to know more about monitoring, please ask your escort.)
- Additional passengers, children, or pets

Cell phones are allowed on most of INL property, but not inside certain facilities. You can leave your phone in the vehicle at those spots. Wearable Bluetooth devices, such as smart watches and fitness trackers, will also need to be left in vehicles at these locations.

# RESEARCH AND EDUCATION CAMPUS MAP

## Directions to Energy Security Research Laboratory (ESRL)

(650 MK Simpson, Idaho Falls, ID 83401)

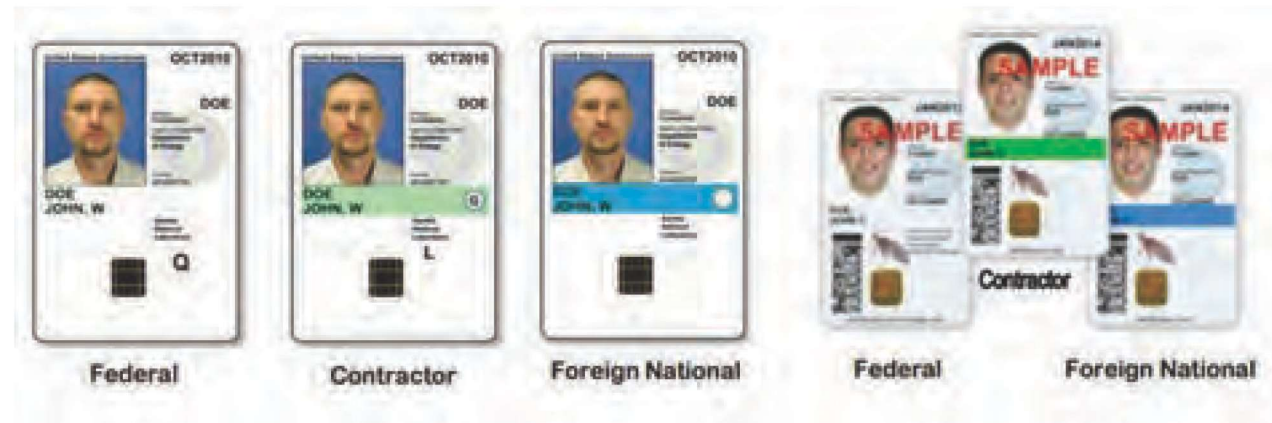


# IDENTIFICATION INFORMATION/ INTERNATIONAL VISITOR INFORMATION

For visitor access and badging at INL, U.S. citizens must present a REAL-ID compliant form of identification, such as a current U.S. passport or driver's license.

International visitors must present a current passport and supporting documentation, such as a visa or green card.

INL accepts HSPD-12 Personal Identity Verification and Department of Defense Common Access Card, or DoD CAC, badges as proper identification for site access. If you have an approved federal ID card, please bring it with you.



# DINING LIST

## POPULAR PLACES TO EAT IN IDAHO FALLS

### [A STREET SOUP MARKET](#)

*Soups, sandwiches and salads*

445 A St.

208-932-7039

### [CITY BAGELS AND BAKERY](#)

*Coffee, bagels and pastries*

369 Shoup Ave.

208-881-5778

### [COPPER RILL](#)

*Steak, seafood, pasta*

415 River Parkway

208-529-5800

### [GREAT HARVEST](#)

*Sandwiches, pastries and coffee*

360 A St .

208-522-7444

### [IDAHO'S RIB & CHOP HOUSE](#)

*Premium steaks, fresh seafood and ribs in a family-friendly atmosphere*

320 Memorial Drive

208-701-6330

### [JAKER'S BAR & GRILL](#)

*Steak and seafood*

851 Lindsay Blvd.

208-524-5240

### [LONGHORN STEAKHOUSE](#)

*American traditional steakhouse*

245 Houston Cir.

208-701-7579

### [D'RAILED](#)

*Steak and Seafood*

468 N. Eastern Avenue

208-932-1082



### [SMOKIN FINS](#)

*Seafood, sushi and classic steak*

370 Memorial Drive

208-888-3467 Ext. 3

### [THE SNAKEBITE](#)

*Burgers and sandwiches*

393 Park Avenue

208-525-2522

### [STOCKMAN'S](#)

*Western flair steakhouse*

1175 Pier View Drive

208-552-6500

### [THE SANDPIPER](#)

*Steak, seafood and pasta*

750 Lindsay Blvd.

208-524-3344

### [PARK & A ITALIA](#)

*Italian Cuisine*

401 Park Avenue

208-973-1801

# IDAHO NATIONAL LABORATORY OVERVIEW

As the nation's applied nuclear energy laboratory, the Idaho National Laboratory (INL) stands out as a uniquely capable science and technology resource. INL advances research, development, demonstration, and deployment to change the world's energy future and secure our nation's critical infrastructure.

The lab and its more than 6,000 scientists, engineers and support staff members build on the potential and promise of ideas that can benefit the real world.

INL is one of 17 national laboratories owned by the U.S. Department of Energy. Geographically, INL is the largest lab. The 890-square-mile desert Site also serves as a national environmental-research park. Since 1949, the Idaho site has been the location of many pioneering developments in nuclear energy. The world's first usable amount of electricity from nuclear energy was generated here in 1951. Over the years, 52 mostly first-of-their-kind reactors were built at INL, creating the largest concentration of reactors in the world. After fulfilling their research missions, most have since been decommissioned.

Our research expertise today is in three primary areas.

## NUCLEAR SCIENCE AND ENGINEERING

INL is the leading laboratory in basic and applied nuclear and radiological science research and applications. The lab is home to the unparalleled Advanced Test Reactor and associated assets

for post-irradiation examination, fuel fabrication, materials testing, and development assets.

INL has more than 75 years of experience in nuclear reactor plant design, operation, decommissioning and nuclear-materials processing. The lab's expertise is routinely sought by national and international customers.

Researchers work to sustain the current fleet of power reactors through the Light Water Reactor Sustainability Program, which conducts research to develop solutions to improve the economics, safety, and reliability of existing plants. Additionally, our Advanced Test Reactor, the most powerful test reactor in the world, is designed to irradiate fuels and materials to evaluate how they will respond in operating power reactors over time.

INL works in research and development for new reactor fuels. The Materials and Fuels Complex is a vital component of U.S. nuclear research and development efforts, with capabilities ranging from post-irradiation examination of new fuel types to producing radioisotope power systems that power spacecraft such as the Perseverance Rover on Mars. The Transient Reactor Test Facility allows scientists to test the limits of reactor fuels and materials and can accommodate a range of test specimens.

INL leads and houses national programs with distinct missions and purposes to innovate on new reactor designs and systems. The



Advanced Reactor Technologies Program, a multi-laboratory effort, develops new advanced-reactor designs and technologies. The Gateway for Accelerated Innovation in Nuclear program, led by INL researchers, provides the nuclear industry with access to the technical, regulatory, and financial support necessary to move new or advanced designs toward commercialization, while the National Reactor Innovation Center accelerates the demonstration and deployment of nuclear energy by facilitating the construction and demonstration of advanced-reactor systems.

The Microreactor Program supports the research and development of technologies related to the demonstration and deployment of small, transportable reactors to provide power and heat for civilian, industrial and defense sectors.

INL will demonstrate several reactor technologies in the next decade, beginning with the installation of a sodium-potassium cooled microreactor at INL's Transient Reactor Test Facility.

# IDAHO NATIONAL LABORATORY OVERVIEW

A 100-kw reactor, the Microreactor Applications Research Validation and Evaluation (MARVEL) reactor, will help researchers and industry understand how microreactors can be integrated with a variety of other user applications to provide electricity and heat on demand.

The lab is also developing a microreactor for the Department of Defense. Project Pele will help our armed forces reduce their dependence on diesel fuel, reducing emissions and limiting the need for dangerous fuel-transport missions.

## NATIONAL SECURITY RESEARCH AND TESTING

INL's applied-engineering discipline and build-test-build problem-solving approach help the Departments of Energy, Defense and Homeland Security as well as industry partners solve significant national-security challenges in critical-infrastructure protection and nuclear nonproliferation. The laboratory's signature capabilities, expertise and unique infrastructure assets support efforts to secure industrial control systems from physical- and cybersecurity threats, develop advanced-nuclear-facility safeguards, and design advanced wireless sensors and protocols.

INL's 890-square-mile infrastructure test range and co-located laboratories provide an ideal backdrop for conducting significant national-security

demonstrations and experiments. Test facilities include an isolatable utility-scale power-grid loop, a comprehensive cellular network, vast nuclear-materials testing and analysis facilities, a bulk explosives test bed, and an unmanned-aerial-vehicle runway.

INL is home to the nation's first 5G-wireless test range, which allows the Department of Defense to address communication challenges, advance 5G security, and improve safety for troops.

## ENERGY AND ENVIRONMENTAL SUSTAINABILITY

An overarching thrust of INL research is energy security—the nation's greatest challenge for the 21st century. Energy security includes resource security, economic stability and long-term environmental sustainability. Scientists and engineers explore solutions to grand challenges in the areas of homegrown energy development, competing water-resource management and life-cycle options to get the right type of energy to the right place at the right time.

INL researchers configure and test hybrid-energy systems to increase the range of beneficial energy options, and to demonstrate that locally sourced, fossil, and nuclear energy systems can be successfully and effectively integrated for greater efficiencies.



The lab is partners with industry to demonstrate how power plants can use several energy sources to meet demand. This includes working with operators to use the heat produced by nuclear power plants to produce hydrogen.

INL researchers validate the efficiency of using affordable energy sources to recycle captured carbon dioxide into chemical feedstocks and consumer goods. Still others in the lab's research community are poised to overcome key barriers facing the U.S. bioenergy industry—by harnessing cellulosic biomass resources and enabling the production of biofuels and other value-added products.

Mainstream research significantly expands DOE's ability to evaluate new battery technologies through applied research, development, and diagnostics. This work leads to advanced batteries that live longer, are safer and are more cost-effective for electric-drive vehicles.

# ENERGY SYSTEMS LABORATORY

## AT IDAHO NATIONAL LABORATORY

Built in 2012, this 91,000-square-foot facility houses a range of activities from laboratory-scale science to full-scale operations. [Read More.](#)

### **Integrated Energy Systems:**

Future energy economies will only be possible with an [integrated energy system](#) which combines intermittent energy (sun, wind or water) with a thermal (nuclear) heat source. Here, INL researchers will discuss energy storage and the process of diverting otherwise wasted energy to energy-intensive industrial processes. Learn how various components of the system ([Microreactor AGile Non-nuclear Experimental Testbed](#), [Thermal Energy Delivery System](#) and [High Temperature Steam Electrolysis](#)) can stand alone or work together to build a resilient and efficient energy infrastructure.

### **Energy Storage & Electric**

**Transportation:** Visit our world-renowned [Battery Testing Center](#) where you'll find in-progress testing of over 200 batteries. These range from small cells to full-sized battery packs used in today's light-duty vehicles. INL's [Electric Vehicle Transportation Laboratory](#) offers a glimpse into the future with charging technologies and software capabilities that support an electrified transportation system.

**Hydrogen Production:** Hydrogen production and storage in an easily accessible and low-cost form is crucial to an all-options energy future. Hydrogen in fuel-cell form can be used as an energy source when power generation is

intermittent. This portion of the tour will highlight INL's efforts to produce clean hydrogen by separating nuclear-generated steam molecules into oxygen and hydrogen using a high-temperature electrolysis system.

**Biomass:** INL is a leader in biomass preprocessing. Our researchers can convert a wide range of waste materials into a chemical composition that makes them a viable source of energy. This portion of the tour will cover INL's waste-to-energy efforts, our role in the fight to expand the sources of mass-transportation fuels, and our efforts to promote new uses for material currently wasted. The [Biomass Feedstock National User Facility](#) has provided customized and technical research and development to dozens of leading U.S. feedstock, bioenergy and technology companies, as well as universities and national laboratories.

### **Real-Time Power and Energy**

**Systems:** This area will highlight our civilian microgrid and grid-resiliency projects. Visitors will learn about the communities where INL has helped establish commercial microgrids that can operate independently from the larger electric grid, to protect against events like disasters and cyberattacks. This also includes the most recent field demonstration with our local utility, Idaho Falls Power. Researchers used the [Real Time Digital System](#) to run scenarios and tests and anticipate hurdles to using the city's hydroelectric plant to start the electrical grid during a blackout.



### **Department of Defense Microgrid**

**Projects:** This portion of the tour will showcase a small solar and wind installation that mimics installations put in place across nations for the U.S. Department of Defense. These [microgrids](#) are islanded—meaning they can operate independently from the larger electrical grid—and mobile, so they can be easily and quickly moved when needed.

### **Electric-Field-Assisted**

**Sintering:** The future of advanced manufacturing is located at Idaho National Laboratory. The [electric field assisted sintering \(EFAS\)](#) technology is a one-of-its-kind machine that is essential to the future of advanced nuclear reactors, industry partners looking to create materials that can handle harsh environments, and the Department of Defense. Part of INL's Advanced Manufacturing Program, EFAS is designed to create new materials by fusing together powdered metals. These new materials can withstand extreme temperatures and pressures and will become vital in the construction of energy resources like turbines and advanced nuclear reactor components. EFAS relies on electromagnetism, rendering it a promising solution for efforts to decarbonize manufacturing.

# COLLABORATIVE COMPUTING CENTER AT IDAHO NATIONAL LABORATORY

**The Collaborative Computing Center (C3)** advances the lab's scientific-computing needs while providing users from national laboratories, universities and industry access to high-performance computing resources.

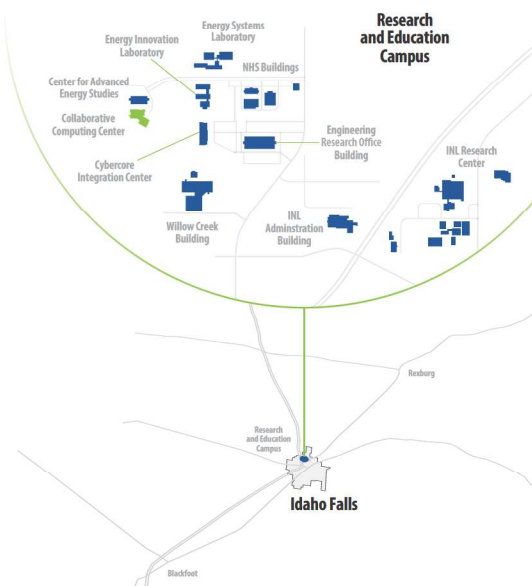
Since 1993, INL's high-performance computing capabilities have enabled modeling and simulation, data visualization, and artificial-intelligence research. C3 was built in 2019 to house scientific computing staff and INL's supercomputers—Bitterroot, Sawtooth, Lemhi and Hoodoo—with room to expand and add additional supercomputers.

Off-site users, such as university students and faculty and industry researchers, can remotely access INL's high-performance computing resources through INL's Nuclear Computational Resource Center.



## C3 and its staff provide:

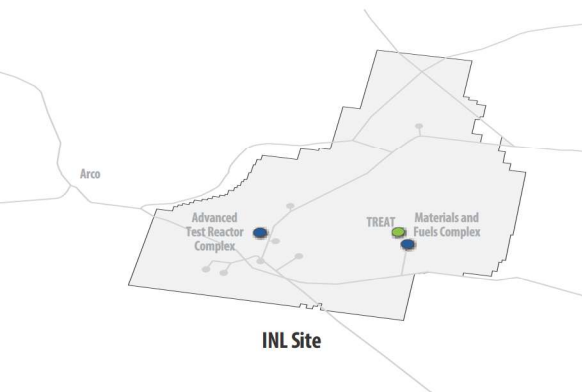
- Access to four world-class supercomputers
- Over 800 million core hours of computing time to users from industry, academia and national laboratories for modeling and simulation, data visualization and artificial-intelligence research
- Modeling and simulation expertise and access to several open-source and licensable applications through the Nuclear Computational Resource Center
- Collaborative spaces, like co-working pods and hallways lined with dry-erase boards, for teams to connect and brainstorm
- Robust power and cooling infrastructure both for current supercomputers and future machines
- A 1600-square-foot conference room for large-scale meetings and events
- Mentoring of students, hiring of interns and postdocs and INL employee service on university committees.



# TRANSIENT REACTOR TEST FACILITY

## AT IDAHO NATIONAL LABORATORY

**The Transient Reactor Test (TREAT)** Facility at Idaho National Laboratory is a national asset that provides unique test results in an essential nuclear-research field.



Transient testing is an essential component of the United States and international efforts to develop robust, safer nuclear fuels and to bring innovative reactor technologies to the market. Transient testing involves the application of controlled, short-term bursts of intense neutron flux directed toward a test specimen to study fuel and material performance under off-normal operational conditions and hypothetical accident scenarios. After the transient test, the fuel or material is analyzed at a post-irradiation examination facility. The results of these examinations are then evaluated and used in advancing fuel or material design and qualification.

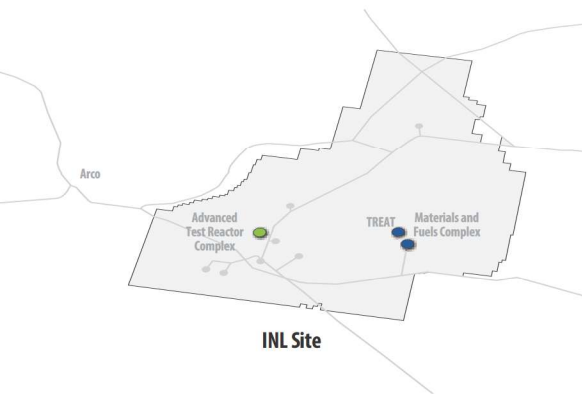
TREAT is a highly capable test reactor. Detailed real-time monitoring of the specimens during a test is possible via the hodoscope, a system that detects fast-neutron signatures from experiments, and other experiment and core instrumentation. This instrumentation, coupled with post-irradiation examination, allows scientists to determine the appropriate safety limits for fuels and materials in nuclear power reactors. TREAT's simple, self-limiting, air-cooled design can safely accommodate multipin test assemblies, enabling the study of fuel melting, metal-liquid reactions, overheated fuel and coolant reactions and transient behavior of fuels for high-temperature system applications.

The TREAT facility operated from 1959 through 1994, when it was placed in standby mode. A resurgence of interest in developing innovative nuclear technologies has driven demand for transient testing. TREAT was restarted in 2017 and currently supports experiment programs.

# ADVANCED TEST REACTOR

## AT IDAHO NATIONAL LABORATORY

Idaho National Laboratory's nuclear research capabilities rely heavily on the **Advanced Test Reactor (ATR)**, located at the ATR Complex on the INL Site, 47 miles west of Idaho Falls.



ATR's capabilities and infrastructure are accessible through various programs that support the U.S. and international nuclear-research efforts. ATR is the only U.S. research reactor capable of providing large-volume, high-flux thermal-neutron irradiation in a prototype environment. The reactor's singular design makes it possible to study the effects of intense neutron and gamma radiation on reactor materials and fuels.

ATR is a one-of-a-kind pressurized water test reactor. As a test reactor, it operates at very low pressures and temperatures relative to a large commercial nuclear power plant. Instead of heat, the main product of a test reactor is the neutrons it produces. ATR uses a beryllium reflector to help concentrate neutrons in the core, where they are needed for fuels and materials testing. ATR's unique serpentine core allows the reactor's corner lobes to be operated at different power levels, making it possible to conduct multiple simultaneous experiments under different testing conditions.

Experiments conducted at ATR provide a critical look at reactor components and systems. Testing at ATR supports reactor research around the world to extend the life of current nuclear power plants, develop designs for the reactors of the future, and test new types of stronger nuclear fuels that reduce waste generation and proliferation risks.

ATR is also the only U.S. source of the valuable medical isotope cobalt-60, needed for "gamma knife" therapy used to treat brain tumors, and the reactor produces plutonium-238 for NASA's deep-space exploration missions.

ATR capabilities are accessible to universities, industry and international partners through DOE's Nuclear Science User Facilities, the Gateway for Accelerated Innovation in Nuclear, and the National Reactor Innovation Center, as well as other research partnerships.

# MATERIALS AND FUELS COMPLEX

## AT IDAHO NATIONAL LABORATORY



### MFC OVERVIEW

The Materials and Fuels Complex (MFC) hosts the core of U.S. nuclear energy research and development capabilities with an array of facilities designed to allow highly irradiated fuels and materials to be safely handled and examined. A new fuel idea can be designed, fabricated, tested and analyzed at MFC to better understand the effects of irradiation. Groups such as universities, industry partners, other national laboratories, international research organizations and other federal agencies work at MFC.

MFC houses 29 mission facilities. Below are just a few:

**Transient Reactor Test (TREAT) Facility:** Transient testing is an essential component of developing more-robust, safer nuclear fuels and bringing innovative reactor technologies to the market. Such testing involves applying controlled, short-term bursts of

intense neutron flux toward a test specimen to study fuel and material performance under off-normal operational conditions and hypothetical accident scenarios.

**Hot Fuel Examination Facility (HFEF):** HFEF is a national research asset with the largest inert-atmosphere hot cell dedicated to nuclear-materials research in the U.S.

The facility provides an ability to remotely handle and perform detailed nondestructive and destructive examination on highly irradiated fuel and material samples. It is composed of two adjacent shielded hot cells, a shielded metallography box, an unshielded hot repair area and a waste-characterization area. HFEF provides shielding and containment to remotely examine, process and handle highly radioactive materials in its argon-atmosphere hot cells and unshielded labs and support

areas. It is replete with special equipment to handle, examine, and test highly radioactive materials.

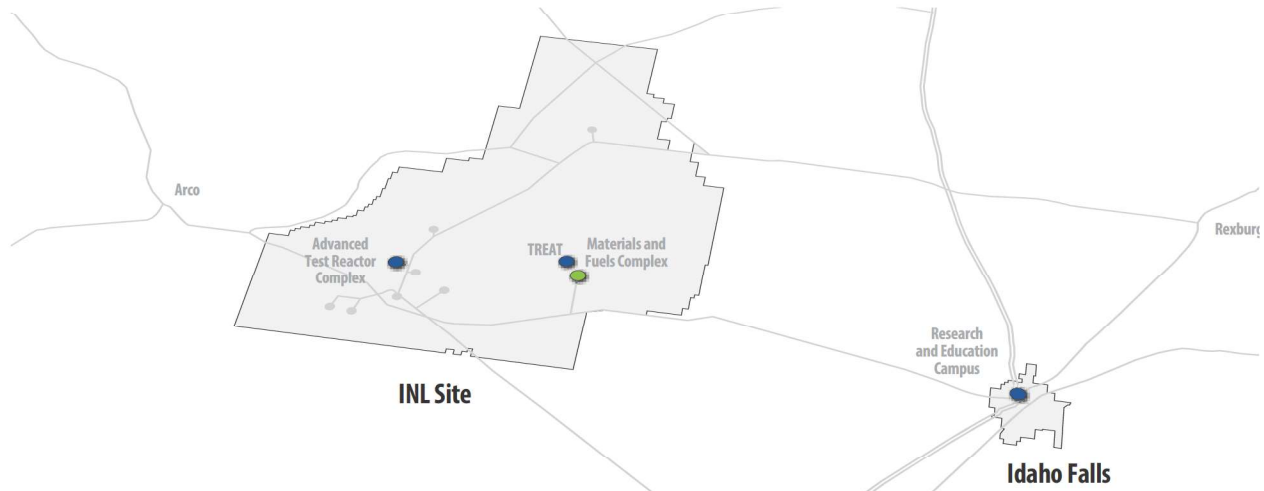
At HFEF, researchers typically use the Neutron Radiography Reactor to visualize irradiation damage to nuclear materials, fuels or other specimens by bombarding them with neutrons, similar to the way X-rays are used to create images of bones.

**Irradiated Materials Characterization Laboratory (IMCL):** IMCL is home to a variety of high-end instruments that allow researchers to study irradiated fuels and materials at the micro, nano and atomic levels, which is where irradiation damage occurs. Work here focuses on microstructural, microchemical, micromechanical analysis and thermophysical characterization of irradiated nuclear fuels and materials.

Its modular design enables it to evolve throughout its 40-year design life to meet national and

# MATERIALS AND FUELS COMPLEX

## AT IDAHO NATIONAL LABORATORY



international user demand for highly characterization instruments to study nuclear fuel and materials.

**Sample Preparation Laboratory (SPL):** SPL will serve as a national center for accelerated research, development and qualification of nuclear materials. The facility will provide dedicated high-throughput sample preparation, mechanical testing and surface science and microstructural analysis that fill a gap in the national research infrastructure. Its automated operations in fourth-generation shielded cells will efficiently generate information over eight orders in length scales.

**Analytical Research Laboratories (ARL):** ARL provides the chemical, radiochemical, physical and analytical data needed for various research and engineering-development programs. It also assists with activities supporting advanced-nuclear-fuel design, waste management, environmental and other INL programs.

ARL hosts several fuel-fabrication capabilities in the Casting Laboratory, including the INL-designed glovebox advanced casting furnace. This furnace casts metallic fuel samples containing transuranic elements with greater efficiency and less waste than the previous design.

ARL receives both irradiated and unirradiated fuels, materials and samples needed for testing related to material accountability, radiation monitoring, process monitoring and environmental monitoring from across INL and outside entities.

**Experimental Fuels Facility (EFF):** Research and fabrication activities within EFF include uranium and uranium-alloy casting and extrusion, processing uranium metal and ceramics at all enrichments, and fabricating and handling alloys and powders. Its hot—and warm—machine shops cut, shape and prepare both fuel and fuel-containing specimens.

### Fuels and Applied Science

**Building (FASB):** FASB is a radiological facility that houses small hot cells, gloveboxes, hoods and a variety of equipment that support nuclear energy research and development. FASB's capabilities include research and development related to nuclear fuel fabrication, materials testing and characterization, pyrochemical fuel processing and other scientific activities.

The building houses laboratory-scale metal-fuels fabrication, a pyrochemistry glovebox harnessing a laboratory-scale electrorefiner and other furnaces to perform separations experiments. It also has a set of hot cells, including one that contains an irradiation-assisted stress corrosion cracking system that measures corrosion and crack propagation in nuclear-reactor structural materials as part of the Light Water Reactor Sustainability Program.



March 13, 2025

Harrison Jumper  
Office of Rep. Houlahan  
Pennsylvania's 6th Congressional District  
U.S. House of Representatives  
Via Email

Dear Harrison,

The Climate Solutions Foundation (CSF) invites you to join us for a staff delegation trip to Idaho Falls, Idaho for programming and a site visit to Idaho National Laboratory (INL). Congressional staff will travel to Idaho Falls on Monday, June 16<sup>th</sup> and return to Washington, DC on Wednesday, June 18<sup>th</sup>. Programming will include meetings with experts and leaders as well as tours of INL. Staff will learn about INL's role in U.S. nuclear energy, its clean water delivery methods, and about their Advanced Test Reactor. Your work on these topics will be a great asset to our delegation.

Idaho National Laboratory is one of 17 national labs in the U.S. Department of Energy complex, with more than 6,400 researchers and support staff focused on innovations in nuclear research, integrated energy systems, and security solutions that are changing the world. INL's capabilities involve testing advanced nuclear energy concepts, preparing radioisotope power sources for NASA space exploration, developing longer-lived electric vehicle batteries, protecting the power grid and collaborating with numerous industries to turn waste into fuel. INL operates the world's premier materials test reactor, the Advanced Test Reactor, which is one of only two reactors in the nation producing life-saving medical radioisotopes.

CSF was founded in 2019 as an educational, bipartisan 501(c)(3) non-profit organization. Our mission is to bring together ideologically diverse Members of Congress and their staff, global leaders, and corporate and trade executives to discuss climate science, economics, and policy. Foundation Co-Chairs Senator Mary Landrieu and Congressman Carlos Curbelo launched the Foundation in 2019 with a series of bipartisan, bicameral gatherings of Members of Congress, executives, and scientists at Senator Landrieu's dining room table with one purpose: to build trust within the climate change community that inspires collaborative efforts to advance the agenda on climate. Since then, CSF has expanded its programming to include domestic educational trips, international trips to the UN's (COP) convenings, congressional staff briefings, receptions, and a congressional fellowship program.

CSF offers to cover your air travel, ground transportation for your arrival and departure from Washington, DC, and any ground transportation we arrange for your participation in programming. We will cover meal expenses related to the trip, in compliance with the rules under House ethics laws.

To ensure submission of ethics materials to the appropriate committees by Monday, May 19, 2025, please let us know at your earliest convenience if you are interested in participating by emailing our Program Director, Sarah Wiszniak, at (860) 558-9291 or [swiszniak@helenmilby.com](mailto:swiszniak@helenmilby.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Alex Flint", with a long horizontal line extending to the right.

Alex Flint  
Executive Director, Climate Solutions Foundation



**The Climate Solutions Foundation Programming in Idaho Falls  
Congressional Staff Delegation Schedule  
Monday, June 16, 2025 to Wednesday, June 18, 2025**

---

**Monday, June 16, 2025**

<b>5:36 PM ET</b>	<b>Depart Dulles International Airport (IAD)</b> United Airlines Flight #1236 Flight Time: 4 hours 4-minutes
<b>7:40 PM MT</b>	<b>Arrive at Denver International Airport (DEN)</b> 1 hour 25-minute layover
<b>9:05 PM MT</b>	<b>Depart DEN</b> United Airlines Flight #5232 Flight Time: 1 hour 46-minutes
<b>10:51 PM MT</b>	<b>Arrive at Idaho Falls Regional Airport (IDA)</b>
<b>RON</b>	<b>Hampton Inn, Idaho Falls</b> 645 Lindsay Boulevard, Idaho Falls

---

**Tuesday, June 17, 2025**

<b>8:00 AM MT</b>	<b>Breakfast</b>
<b>8:45 AM MT</b>	<b>Travel from the Hampton Inn to Idaho National Labs</b>
<b>9:00 AM MT</b>	<b>Idaho National Laboratory Tour Welcome and Overview</b>

Idaho National Laboratory (INL) is one of 17 national labs in the U.S. Department of Energy complex, with more than 6,400 researchers and support staff focused on innovations in nuclear research, integrated energy systems, and security solutions that are changing the world. INL's capabilities involve testing advanced nuclear energy concepts, preparing radioisotope power sources for NASA space exploration, developing longer-lived electric vehicle batteries, protecting the power grid and collaborating with numerous industries to turn waste into fuel. INL operates the world's premier materials test reactor, the Advanced Test Reactor, which is one of only two reactors in the nation producing life-saving medical radioisotopes. Touring INL relates to CSF's mission of bringing together bipartisan congressional staff to learn more about climate and energy science, which will better inform their legislative work.

<b>10:00 AM MT</b>	<b>Tour of Experimental Breeder Reactor 1 (EBR-1)</b>
--------------------	---

EBR-1 is a decommissioned research reactor and U.S. National Historic Landmark. EBR-1 is the world's first breeder reactor. A breeder reactor is a nuclear reactor that generates more fissile material than it consumes. In 1951, it became one of the world's first electricity-generating nuclear power plants when it produced sufficient electricity to illuminate four 200-watt light bulbs. EBR-1 is now a museum.

**11:00 AM MT                      Tour of Advanced Test Reactor (ATR)**

The ATR is the world's premier nuclear test reactor. It provides unmatched, national priority nuclear fuel and materials testing capabilities for military, federal, university and industry partners and customers. INL's nuclear research capabilities rely heavily on ATR, located at the ATR Complex on the INL Site. As the national laboratory for the U.S. Department of Energy's Office of Nuclear Energy (DOE-NE), INL serves a key role in U.S. nuclear energy research initiatives and programs, such as the National Reactor Innovation Center.

**12:30 PM MT                      Lunch Discussion on the Materials and Fuels Complex (MFC)**

The MFC hosts the core of U.S. nuclear energy research and development capability with an array of facilities designed for remote work on highly irradiated fuels and materials. A new fuel idea can be designed and fabricated, then tested and analyzed at MFC to better understand the effects of irradiation. Many groups, such as universities, industry partners, other national laboratories, international research organizations and other federal agencies are currently working at MFC. MFC houses 29 mission facilities. This lunch discussion will give attendees the opportunity to converse with MFC researchers and staff.

**1:30 PM MT                      Tour of MFC**

**1:50 PM MT                      Tour of the Hot Fuel Examination Facility (HFEF)**

The HFEF is INL's flagship facility for conducting post-irradiation examinations (PIE) of fuels and materials. HFEF, located at the Materials and Fuels Complex, is a national research asset with the largest inert atmosphere hot cell dedicated to nuclear materials research in the U.S. HFEF provides the ability to remotely handle and perform detailed nondestructive and destructive examination of highly irradiated fuel and material samples. Its argon-atmosphere hot cell, labs and special equipment handle a variety of fuel forms, including tiny particles, four-foot research reactor plates and full-sized commercial rods. HFEF supports INL's mission of research and development of safer and more efficient fuel designs.

**2:30 PM MT                      Tour of Space Battery Museum**

INL's Space Nuclear Power and Isotope Technologies Division assembles and tests Radioisotope Power Systems at INL's Materials and Fuels Complex, then delivers the systems for use in remote, harsh environments such as space. Radioisotope power systems can heat and power autonomous machinery for extended operation periods. INL assembles such generators by adding the radioactive power source.

**3:30 PM MT                      Tour the Transient Reactor Test (TREAT) Facility**

The TREAT Facility operated from 1959 through 1994, when it was placed in standby mode. A resurgence of interest in developing innovative nuclear technologies has driven demand for transient testing. TREAT was restarted in 2017 and is currently supporting experiment programs. TREAT provides transient testing of nuclear fuels and materials. The facility is used to study fuel melting behavior, interactions between fuel and coolant, and the potential for propagation of failure to adjacent fuel pins under conditions ranging from mild upsets to severe accidents.

**4:30 PM MT                      Travel from INL to the Hampton Inn**

**4:45 PM MT                      Down Time**

**6:30 PM MT                      Dinner Discussion on the Impact of INL on the Local Economy & Electric Utilities  
Sandpiper Restaurant**

In keeping with our mission of bringing together ideologically diverse congressional staff, elected leaders, and corporate executives to discuss climate science, economics, and policy, we will host a dinner on the impact of INL on the local economy and electric utilities. This meeting will provide a collaborative environment to discuss a bipartisan path forward on nuclear energy policy.

**RON                                  Hampton Inn**

## Wednesday, June 18, 2025

7:45 AM MT

**Breakfast**  
Hampton Inn

8:15 AM MT

**Travel from the Hampton Inn to Idaho National Labs**

8:30 AM MT

**Integrated Energy Systems Overview**

Through research and demonstration, INL advances integrated energy generation, storage and delivery technologies. The integrated systems approach is a marked change from traditional energy system designs typically focused on single generation sources to support a single energy demand (e.g., a nuclear plant that provides electricity to meet grid demand). INL is leveraging its expertise in nuclear and renewable energy systems to lead the world in developing integrated, clean, multigeneration energy systems that incorporate both heat and power for grid services and industrial processes. This clean heat and power can efficiently and economically produce clean hydrogen, and when combined with biogenic carbon, a broad spectrum of chemical commodities and low-emission fuels. By innovating to harness electricity, heat and hydrogen, INL accelerates a clean energy-based economy while enhancing grid reliability, resilience and affordability.

9:00 AM MT

**Scientific Computing and AI Overview**

Artificial intelligence (AI) and machine learning (ML) are helping INL scientists pursue advances in engineering and energy research. Computers that mimic cognitive functions and apply complex algorithms to analyze data can help researchers solve a variety of technical issues. This new approach aids in everything from materials design for advanced reactors to making nuclear power plant control rooms more usable and efficient. Attendees will learn about INL's five goals that support their research missions and how they are using AI to support those initiatives.

9:45 AM MT

**Tour of the Collaborative Computing Center (C3)**

C3 is the hub for modeling and simulation at INL. The Department of Energy's mission relies firmly on computing capabilities in various forms. In recent years, high-performance computing (HPC) has become increasingly important in scientific research, and its use in research has expanded across diverse disciplines.

10:20 AM MT

**Tour the Energy Systems Laboratory (ESL)**

The Energy Systems Laboratory (ESL) supports multiple projects. ESL engages in bio energy research through the Biomass Feedstock National User Facility (BFNUF), which is currently the R&D technical leader for developing bioenergy feedstock supply systems. The Electric Vehicle Infrastructure Laboratory enables collaborations with industry to test charging systems and help establish benchmarks for future technology. At the microgrid test bed, INL experts test dynamic storage and load-balancing options and perform simulations using real world data and hardware.

11:20 AM MT

**Depart INL for Lunch at Smitty's Pancake & Steak House**

11:30 AM MT

**Lunch at Smitty's Pancake & Steak House**

12:30 PM MT

**Depart Smitty's Pancake & Steak House for Idaho Falls Regional Airport**

2:25 PM MT

**Depart IDA**  
United Airlines Flight #5929  
Flight Time: 1 hour 47-minutes

4:12 PM MT

**Arrive at DEN**  
1 hour 12-minute layover

5:24 PM MT

**Depart DEN**  
United Airlines Flight #2408  
Flight Time: 3 hours 26-minutes

10:50 PM ET

**Arrive at IAD, Trip Concludes**