



U.S. House of Representatives

COMMITTEE ON ETHICS

MEMBER/OFFICER POST-TRAVEL DISCLOSURE FORM Original Amendment

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

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

1. Name of Traveler: _____
2. a. Name of Accompanying Relative: _____ **OR** None
 b. Relationship to Traveler: Spouse Child Other (specify): _____
3. a. Dates: Departure: _____ Return: _____
 b. Dates at Personal Expense, if any: _____ **OR** None
4. Departure City: _____ Destination: _____ Return City: _____
5. Sponsor(s), Who Paid for the Trip: _____
6. Describe Meetings and Events Attended (attach additional pages if necessary):

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 Member or officer; **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 in this form is true, complete, and correct to the best of my knowledge. I have determined that all of the expenses on the attached *Sponsor Post-Travel Disclosure Form* were necessary and that the travel was in connection with my duties as a Member or officer of the U.S. House of Representatives and would not create the appearance that I am using public office for private gain.

Member / Officer Signature: Earl Z 'Bulky' Carter

Date: _____



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SPONSOR POST-TRAVEL DISCLOSURE FORM

Original Amendment

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

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

1. Sponsor(s) who paid for the trip: _____
2. Travel Destination(s): _____
3. Date of Departure: _____ Date of Return: _____
4. Name(s) of Traveler(s): _____

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				
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: _____ *Paul* _____ Date: _____

Name: _____ Title: _____

Organization: _____

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

Address: _____

Email: _____ Telephone: _____

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.



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TRAVELER FORM

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

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

Name of Traveler: Thomas Reynolds

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

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

Signature: 

Name of Signatory (if other than traveler): _____

For Staff (name of employing Member or Committee): Rep. Earl L. "Buddy" Carter

Office Address: 2432 Raybrun HOB

Telephone Number: 202-225-5831

Email Address of Contact Person: tommy.reynolds@mail.house.gov

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

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

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

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



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TRAVELER FORM

1. Name of Traveler: Thomas Reynolds

2. Sponsor(s) who will be paying or providing in-kind support for the trip:
Clear Path

3. City and State **OR** Foreign Country of Travel : Chicago, IL, Braceville, IL, and Lemont, IL

4. a. Date of Departure: August 15, 2022 Date of Return: August 16, 2022

b. Yes No Will you be extending the trip at your personal expense?

If yes, list dates at personal expense: _____

5. a. Yes No Will you be accompanied by a family member at the sponsor's expense? **If yes:**

(1) Name of Accompanying Family Member: _____

(2) Relationship to Traveler: Spouse Child Other (specify): _____

(3) Yes No Accompanying Family Member is at least 18 years of age:

6. a. Yes No Did the trip sponsor answer "Yes" to Question 8(c) on the *Primary Trip Sponsor Form* (i.e., travel is sponsored by an entity that employs a registered federal lobbyist or a foreign agent)?

b. **If yes**, and you are requesting lodging for two nights, explain why the second night is warranted:

7. Yes No *Primary Trip Sponsor Form* is attached, including agenda, invitee list, and any other attachments and Additional Sponsor Forms.

NOTE: The agenda should show the traveler's individual schedule, including departure and arrival times and identify the specific events in which the traveler will be participating.

8. Explain why participation in the trip is connected to the traveler's individual official or representational duties.

Staff should include their job title and how the activities on the itinerary relate to their duties.

As Senior Policy Advisor to Rep. Budd Carter, I am responsible for the Energy, Environmental, and Climate policies for the Congressman. This trip will explore clean energy projects that are directly relevant to his work on the Energy & Commerce Committee and Select Committee on the Climate.

9. Yes No **Is the traveler aware of any registered federal lobbyists or foreign agents involved planning, organizing, requesting, or arranging the trip?**

10. For staff travelers, to be completed by your employing Member:

ADVANCED AUTHORIZATION OF EMPLOYEE TRAVEL

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

Signature of Employing Member *Budd Z. Carter*

Date 07/14/2022



PRIMARY TRIP SPONSOR FORM

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

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

1. Sponsor who will be paying for the trip:

ClearPath, Inc.

2. I represent that the trip will not be financed, in whole or in part, by a registered federal lobbyist or foreign agent. Signify that the statement is true by checking box.

3. **Check only one.** I represent that:

a. The primary trip sponsor has not accepted from any other source, funds intended directly or indirectly to finance any aspect of the trip: **OR**

b. The trip is arranged without regard to congressional participation and the primary trip sponsor has accepted funds only from entities that will receive a tangible benefit in exchange for those funds: **OR**

c. The primary trip sponsor has accepted funds from other source(s) intended directly or indirectly to finance all or part of this trip and has enclosed disclosure forms from each of those entities.
If "c" is checked, list the names of the additional sponsors:

4. Provide names and titles of **ALL** House Members *and* employees you are inviting. **For each House invitee, provide an explanation of why the individual was invited** (include additional pages if necessary):

See attached Congressional invitee list, Legislative Staff from relevant committees of jurisdiction.

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

6. Date of departure: August 15, 2022 Date of return: August 16, 2022

7. a. City of departure: Washington, DC

b. Destination(s): Chicago, IL, Braceville, IL and Lemont, IL

c. City of return: Washington, DC

8. **Check only one.** I represent that:

a. The sponsor of the trip is an institution of higher education within the meaning of section 101 of the Higher Education Act of 1965: **OR**

b. The sponsor of the trip does not retain or employ a registered federal lobbyist or foreign agent: **OR**

c. The sponsor employs or retains a registered federal lobbyist or foreign agent, but the trip is for attendance at a one-day event *and* lobbyist / foreign agent involvement in planning, organizing, requesting, or arranging the trip was *de minimis* under the Committee's travel regulations.

9. **Check only one of the following:**

a. I checked 8(a) or (b) above; **OR**

b. I checked 8(c) above but am not offering any lodging; **OR**

c. I checked 8(c) above and am offering lodging and meals for one night; **OR**

d. I checked 8(c) above and am offering lodging and meals for two nights. If you checked this box, explain why the second night of lodging is warranted:



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10. Attached is a detailed agenda of the activities House invitees will be participating in during the travel (i.e., an hourly description of planned activities for trip invitees). *Indicate agenda is attached by checking box.*
11. **Check only one of the following:**
- a. I represent that a registered federal lobbyist or foreign agent will not accompany House Members or employees on any segment of the trip. *Signify that the statement is true by checking box; OR*
- b. *Not Applicable.* Trip sponsor is a U.S. institution of higher education.
12. For **each** sponsor required to submit a sponsor form, describe the sponsor's interest in the subject matter of the trip **and** its role in organizing and/or conducting the trip:
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 the box.*
15. **Check only one.** I represent that either:
- a. The trip involves an event that is arranged or organized *without regard* to congressional participation and that meals provided to congressional participants are similar to those provided to or purchased by other event attendees; **OR**
- b. The trip involves events that are arranged specifically *with regard* to congressional participation.
If "b" is checked:
- 1) Detail the cost *per day* of meals (approximate cost may be provided):
- 2) Provide the reason for selecting the location of the event or trip:
16. Name, nightly cost, and reasons for selecting each hotel or other lodging facility:
- Hotel Name: _____ City: _____ Cost Per Night: _____
Reason(s) for Selecting: _____
- 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.*



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18. Total Expenses for each Participant:

<input type="checkbox"/> Actual Amounts	Total Transportation Expenses per Participant	Total Lodging Expenses per Participant	Total Meal Expenses per Participant
<input type="checkbox"/> Good Faith Estimates			
For each Member, Officer, or Employee			
For each Accompanying Family Member			

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

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

19. Check only one:

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

20. I certify by my signature that

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

Signature:  Date: _____

Name: _____ Title: _____

Organization: _____

Address: _____

Email: _____ Telephone: _____

INSTRUCTIONS

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

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

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

For questions, please contact the Committee on Ethics at:

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

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



U.S. House of Representatives

COMMITTEE ON ETHICS

Washington, DC 20515

August 11, 2022

Mr. Thomas Reynolds
Office of the Honorable Earl L. "Buddy" Carter
2432 Rayburn House Office Building
Washington, DC 20515

Dear Mr. Reynolds:

Pursuant to House Rule 25, clause 5(d)(2), the Committee on Ethics hereby approves your proposed trip to Chicago, Illinois, scheduled for August 15 to 16, 2022, sponsored by ClearPath, Inc.

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

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

Sincerely,



Theodore E. Deutch
Chairman



Michael Guest
Acting Ranking Member

TED/MG:kjf

Staffer Name	Member Office	Title	Email
Emily Domenech	House Minority Leader Kevin McCarthy	Senior Policy Adviser	emily.domenech@mail.house.gov
Mary Martin	House Energy and Commerce Committee Minority	Chief Counsel	mary.martin@mail.house.gov
Daniel Dziadon	House Science, Space and Technology Committee Minority	Professional Staff Member	daniel.dziadon@mail.house.gov
Hannah Anderson	Rep. Dan Crenshaw	Energy and Commerce Policy Director	hannah.anderson@mail.house.gov
Jake Bornstein	Rep. John Curtis	Communications Director	jake.bornstein@mail.house.gov
Andrew Furman	Rep. Greg Pence	Senior Legislative Assistant	andrew.furman@mail.house.gov
Ryan Hamilton	Rep. Kay Granger	Senior Legislative Assistant	ryan.hamilton@mail.house.gov
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Ashley Higgins	Congressional Western Caucus	Legislative Assistant	ashley.higgins@mail.house.gov
John Partin	Rep. Will Timmons	Senior Policy Adviser	john.partin@mail.house.gov
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Will Turner	Rep. Mike Garcia	Legislative Director	will.turner@mail.house.gov
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Kevin Rodgers	Rep. Nicole Malliotakis	Legislative Assistant	kevin.rodgers@mail.house.gov
Sam Cloud	Rep. Richard Hudson	Legislative Assistant	sam.cloud@mail.house.gov
Kylie Bohman	Sen. Josh Hawley	Legislative Correspondant	kylie_bohman@hawley.senate.gov
Will Dixon	Senate Committee on Environment and Public Works	Research Assistant	will_dixon@epw.senate.gov
Scott Graber	Sen. Lindsey Graham	Chief Counsel	scott_graber@lgraham.senate.gov
Eric Gustafson	Sen. John Hoeven	Energy Policy Advisor	eric_gustafson@hoeven.senate.gov
Ryan Mowrey	Sen. Lindsey Graham	Legislative Aide	ryan_mowrey@lgraham.senate.gov
Adam Stewart	Sen. Cynthia Lummis	Senior Policy Advisor	adam_stewart@lummis.senate.gov
Harrison Walker	Sen. Thom Tillis	Legislative Correspondent	harrison_walker@tillis.senate.gov
Mary Kate Munro	Sen. Joni Ernst	Legislative Assistant	marykate_munro@ernst.senate.gov
Andrew Kelley	Sen. John Boozman	Legislative Assistant	andrew_kelley@boozman.senate.gov
Connor Tomlinson	Sen. Marco Rubio	Legislative Assistant	connor_tomlinson@rubio.senate.gov
Adam Battalio	Sen. Mike Braun	Legislative Assistant	adam_battalio@braun.senate.gov
Christopher Miller	Sen. Hyde-Smith	Legislative Assistant	christopher_miller@hydesmith.senate.gov
Lydia Denis	Sen. Rob Portman	Legislative Assistant	lydia_denis@portman.senate.gov
Kalyn Swihart	Sen. Rob Portman	Legislative Correspondent	Kalyn_Swihart@portman.senate.gov
Andrew Fisher	Sen. Roy Blunt	Legislative Assistant	andrew_fisher@blunt.senate.gov

CRITERIA: House and Senate Legislative/Policy Staff who cover energy issues for their Members of Congress.

CLEARPATH

Clean Energy Innovation Academy (CEIA) - Chicago

The Clean Energy Innovation Academy (CEIA) is an ongoing educational series with briefings focused on conservative clean energy technology and policy, featuring discussions from industry experts, academia and the public sector. The 2022 series will feature a site visit to Chicago to visit the Braidwood Nuclear Generating Station and Argonne National Laboratory.

2022 Staff Del Itinerary

ClearPath Points of Contact:

Emily Johnson

External Affairs Manager

E: emily@clearpath.org

M: 678-761-1864

Amanda Sollazzo

Government Affairs Associate

E: sollazzo@clearpath.org

M: 845-380-1015

MONDAY, AUGUST 15, 2022

- **7:00 AM ET - 8:05 AM CT – United Flight 1800 to O’Hare International Airport (ORD) from DCA**
- **8:05 AM - 8:30 AM CT – Arrive ORD**

Collect bags, meet at bus

- **8:30 AM - 10:00 AM CT – Travel from ORD to Braidwood Generation Station (90-minute drive time)**

Transportation: Coach Bus

Briefer: Niko McMurray, Managing Director of Public Policy, ClearPath

Topic: Overview of how facilities such as Braidwood Generating Station and Argonne National Laboratory contribute to U.S. clean energy innovation.

Note: We will leave suitcases on the bus with transportation/logistics staff and check into the hotel later in the day.

ClearPath is a 501(c)(3) nonprofit organization, and this event is designed to comply with U.S. Senate and House Ethics rules.

CLEARPATH

- **10:00 AM CT - 10:30 AM CT – Arrive at Braidwood and Process through Security**

Attire: Business casual; the preference is that visitors wear a dress shoe with a hard sole or boots, no tennis shoes or open toed shoes are permitted.

Location: Braidwood Generating Station, 35100 IL-53, Braceville, IL 60407

Note: Please be prepared to present a government-issued photo ID for security processing. You will also need your SSN.

- **10:30 AM - 11:00 AM CT – Intro from Braidwood Personnel and Nuclear 101 discussion**

Breakfast provided (coffee, water, rolls/donuts)

Briefers: Brett Nauman (Senior Generation Communications Manager), Greg Gugle (Site VP), James Petty (Plant Manager), Dwi Murray (Director of Organizational performance and regulatory)

Topic: Introduction to Braidwood Generating Station and discussion of nuclear power's contribution to U.S. energy security.

- **11:00 AM - 12:30 PM CT – Tour of Braidwood Generating Station**

Briefers: Brett Nauman (Senior Generation Communications Manager), Greg Gugle (Site VP), James Petty (Plant Manager), Dwi Murray (Director of Organizational performance and regulatory)

Description: Braidwood Generating Station's two nuclear reactors can produce up to 2,386 megawatts (MW) of clean, carbon-free energy, enough electricity to power two million homes. The facility is built on a 4,457-acre site in Braceville, Illinois. Participants will have the opportunity to ask questions.

- **12:30 PM – Tour concludes**

Boxed lunch provided

- **12:30 PM - 1:30 PM CT – Travel from Braidwood Generating Station to Argonne National Laboratory**

Bags will be secured on the bus.

- **1:30 PM CT - 1:50 PM CT – Arrive at Argonne National Laboratory**

ClearPath is a 501(c)(3) nonprofit organization, and this event is designed to comply with U.S. Senate and House Ethics rules.

CLEARPATH

Location: Argonne Information Center, 9700 S Cass Ave, Lemont, IL 60439
(transportation on site provided)

Attire: Business casual, attendees will need to wear long pants, closed toe shoes, and $\frac{3}{4}$ length sleeves.

Transportation to the first meeting.

Note: Visitors, including drivers, should check in at the Argonne Information Center (AIC) upon arrival. Each visitor will be issued a gate pass for site access. All visitors to Argonne National Lab must show proof of COVID Vaccination or negative COVID test for access.

- **1:50 PM - 2:20 PM CT – Argonne Welcome and Overview**

Briefers:

- **Suresh Sunderrajan**, Associate Laboratory Director, Advanced Energy Technologies
- **Kirsten Laurin-Kovitz**, Associate Laboratory Director, Nuclear Technologies and National Security
- **Greg Krumdick**, Director, Applied Materials
- **Steve Przesmitzki**, Interim Director, Transportation and Power Systems
Temitope Taiwo, Director, Nuclear Science and Engineering
- **Michael Wang**, Interim Director, Energy Systems and Infrastructure Analysis
- **Mark Williamson**, Director, Chemical and Fuel Cycle Technologies

Topic: *Overview of the capabilities and entities at Argonne National Lab.*

- **2:20 PM CT - 2:45 PM CT–Transforming Science and Society through Exascale Computing and AI**

Briefer: **Jini Ramprakash**, Deputy Division Director at Argonne National Laboratory's Leadership Computing Facility

Topic: The Argonne Leadership Computing Facility (ALCF), a U.S. Department of Energy (DOE) Office of Science user facility, provides powerful supercomputing resources to the scientific community. ALCF is progressing with the deployment of two new supercomputers: Polaris and Aurora. Polaris is a leading-edge testbed system that will give scientists and application developers a platform to test and optimize codes for Aurora, Argonne's future exascale system. Aurora will feature several technological innovations, including a revolutionary I/O system to support new types of workloads. The system will be highly optimized across multiple dimensions that are key to success in simulation, data, and learning applications.

ClearPath is a 501(c)(3) nonprofit organization, and this event is designed to comply with U.S. Senate and House Ethics rules.

CLEARPATH

Argonne is advancing artificial intelligence (AI) to address critical challenges in science, technology and medicine, from healthcare and cancer research, to climate science and clean energy, to fundamental science and cosmological discovery. Researchers are coupling AI methods such as machine learning and deep learning with next-generation supercomputers to accelerate the pace of scientific discovery. A significant scientific thrust is currently underway in autonomous discovery and self-driving laboratories to automate scientific experiments, observations, and data generation to solve challenging research problems at unprecedented scale.

- **2:45 PM - 2:55 PM CT – Transportation to Materials Engineering Research Facility**
- **2:55 PM - 3:20 PM CT – Energy Storage: From Basic Materials Science to Battery Manufacturing and Recycling**

Briefer: Greg Krumdick, Director, Applied Materials

Topic: Argonne's energy storage program brings together a wide-range of unique expertise including fundamental discovery science, application-driven research, scale-up and manufacturing, recycling, and system analysis, working in concert to drive new innovations to societal impact. In performing the research Argonne scientists work closely with other National Labs, Universities, and numerous private industries. Argonne leads multi-institutional flagship programs including the Joint Center for Energy Storage Research (JCESR), focused on the science of beyond Li-ion batteries and the ReCell recycling center. One unique aspect of the energy storage effort is the scale-up of battery and related energy materials at the Materials Engineering Research Facility (MERF). The MERF is a state-of-the-art, 28,000 square foot R&D facility focused on processes for accelerated materials synthesis, scale-up of new chemistries, and the development and validation of emerging materials manufacturing technologies. The MERF houses many capabilities relevant to DOE strategic energy and climate priorities, including energy storage, where work is underway to scale up materials for higher-density, longer-lived, faster-charging, and safer batteries both for long-duration grid storage and the transportation sector.

The MERF is also home to DOE's advanced battery recycling center, ReCell, which develops recycling techniques for lithium-ion and future batteries. ReCell will help create recycling jobs, encourage vehicle electrification, and strengthen the U.S. supply chain of battery materials.

- **3:20 PM - 3:30 PM CT– Transportation to Center for Nanoscale Materials**
- **3:30 PM - 3:55 PM CT– Tour of the Center for Nanoscale Materials**

Briefers:

- *Ilke Arslan, Director, Center for Nanoscale Materials*

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- **Gary Wiederrecht**, Deputy Director, Center for Nanoscale Materials

Topic: The Center for Nanoscale Materials (CNM) at the U.S. Department of Energy's Argonne National Laboratory is a premier national user facility for interdisciplinary nanoscience and nanotechnology research by academic, industrial, and international researchers. These scientists and engineers are provided with state-of-the-art capabilities to fabricate, process, characterize, and model nanoscaled-sized materials. The synergy that results from teams of chemists, materials scientists, physicists, theorists, and engineers working together in the nanoscale regime results in truly remarkable projects and advancements. The center's scientific portfolio includes energy-related research and development programs in areas such as catalysis, solar energy, batteries, sensors, solid-state lighting, micro/nano-electromechanical systems, nanophotonics, nanotomography, and magnetism.

- **3:55 PM - 4:05 PM CT– Transportation to Advanced Photon Source**
- **4:05 PM - 4:35 PM CT– New Frontiers in Science at the Advanced Photon Source**

Briefer: Denny Mills, Deputy Associate Laboratory Director, Photon Sciences

Topic: The Advanced Photon Source (APS), a DOE Office of Science user facility, provides ultrabright x-rays that researchers use to obtain images of structures and dynamics inside many types of materials, chemical systems, and biological systems. More than 5,500 scientists each year use the APS to spur pivotal discoveries across almost the entire spectrum of science and technology, from clean energy and biology to geology and engineering. The tour will highlight transformative research using the current APS and provide an overview of the APS Upgrade project, currently scheduled for completion in 2024. The upgrade will increase the brightness of the X-ray beams by up to 500 times, keeping the facility at the forefront of global light sources for decades to come. The APS Upgrade will allow users to probe materials faster and at higher resolutions, opening up new frontiers for both science and industry. The APS Upgrade, combined with the power of the ALCF's Aurora exascale supercomputer, will accelerate discoveries across the scientific spectrum.

- **4:35 PM - 4:45 PM CT– Li-Bridge: Improving U.S. Supply Chain for Lithium-based Batteries**

Briefer: Venkat Srinivasan, Director, Argonne Collaborative Center for Energy Storage Science

Topic: Li-Bridge is a public-private alliance committed to accelerating the development of a robust and secure domestic supply chain for lithium-based

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batteries. Argonne leads coordination of Li-Bridge by serving as the facilitator between private industry and the Federal Consortium for Advanced Batteries, which released a National Blueprint for Lithium Batteries, 2021 – 2030. The Blueprint aims to put the U.S. on a path to long-term competitiveness in the global battery value chain.

- **4:45 PM - 4:55 PM CT– Supply Chain Dynamics**

Briefer: Allison Bennett Irion, Director, Supply Chain Research, Nuclear Technologies and National Security/Advanced Energy Technologies

Topic: As noted in the DOE report, “America’s Strategy to Secure the Supply Chain for a Robust Clean Energy Transition,” a secure, resilient supply chain will be critical in achieving a net-zero emissions economy and capturing the economic opportunity inherent in the energy sector transition. Argonne experts use data analytics, modeling, simulation, and visualization tools that balance supply chain risk and efficiency, respond to disruptive trends and technologies, optimize for cost effective resilience, and assess the consequences of disruptions to complex interdependent supply chains.

- **4:55 PM - 5:05 PM CT– Grid Modeling and Valuation**

Briefer: Vladimir Koritarov, Director, Center for Energy, Environmental, and Economic Systems Analysis

Topic: Research implications from the nation’s ambitious goal to decarbonize the electric grid by 2035 are manifold. Argonne scientists use analytical models of technology, policy, and markets to inform potential decarbonization pathways that are viable, affordable, and reliable.

- **5:05 PM-5:30 PM CT – Visit at Argonne National Lab Concludes with wrap up discussion and Q&A**

Briefers:

- **Suresh Sunderrajan**, Associate Laboratory Director, Advanced Energy Technologies
- **Kirsten Laurin-Kovitz**, Associate Laboratory Director, Nuclear Technologies and National Security
- **Greg Krumdick**, Director, Applied Materials
- **Steve Przesmitzki**, Interim Director, Transportation and Power Systems
- **Temitope Taiwo**, Director, Nuclear Science and Engineering
- **Michael Wang**, Interim Director, Energy Systems and Infrastructure Analysis
- **Mark Williamson**, Director, Chemical and Fuel Cycle Technologies

Topic: Opportunity for Congressional staff to ask final questions about the tour and educational material.

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- **5:30 PM - 6:30 PM CT– Travel from Argonne National Lab to Pendry Chicago Hotel**
Location: Pendry Chicago, 230 Michigan Ave, Chicago, IL 60601

- **6:30 PM CT - 7:00 PM CT – Executive Time**

Participants can check into the hotel and drop off luggage.

- **7:00 PM CT - 7:15 PM CT – Meet in Pendry Chicago Lobby, Travel to Dinner**

- **7:15 PM - 9:15 PM CT – Educational Dinner**

Location: Girl & The Goat, 809 W Randolph St, Chicago, IL 60607

Speakers: Brooke Fallon, Vice President of Trust Ventures, Alan Hoffman, Chief of Staff, Oklo, and Andrew Ponec, CEO and cofounder of Antora.

Topic: Discussion of the role of venture capital and private finance in driving clean energy innovation. Topics will include advanced nuclear, energy storage, and industrial innovation.

- **9:15 PM CT - 9:30 PM CT – Travel back to Pendry Chicago Hotel**

TUESDAY, AUGUST 16, 2022

- **6:00 AM CT - 7:00 AM CT – Depart Pendry Chicago for ORD**

Transportation provided

- **7:00 AM CT - 9:00 AM CT – Arrive ORD/Executive Time**

Breakfast at airport

- **9:00 AM CT – United Flight to DCA**

- **11:59 AM ET – Arrive DCA**