RE-2 Employee Post Travel Disclosure of Travel Expenses

Date/Time Stamp

RECEIVED
SECRETARY OF THE SEN
PUBLIC RECORDS
2024 AUG -8 PM 3:40

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

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

Private Sponsor(s):
Stanford Institute for Economic Policy Research

Travel Dates:
08/07/2023 to 08/10/2023

Name of accompanying family member (if any):

Relationship to Traveler:

Expenses

Transportation Expenses	Lodging Expenses	Meals Expenses	Other Expenses (Amount & Description)
$570.00	$535.35	$174.00	$30.00

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

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

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

08/08/24
Date

JOSE VILLALVAZO
Printed Name of Traveler

Jose J. Villalvazo
Signature of Traveler

TO BE COMPLETED BY SUPERVISING MEMBER/OFFICER

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

08/08/24
Date

Signature of Supervising Senator/Officer

ATTACHMENT 1 – CHANGES FROM APPROVED PRE-TRAVEL

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

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

○ Yes ● No

Expense Change	Revised Amount	Explanation
There were no changes to pre-approved travel expenses.		

Were there any changes to the pre-approved itinerary?

○ Yes ● No

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

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

○ Yes ● No

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

RE-1 Employee Pre-Travel Authorization

Date/Time Stamp

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

Name of Traveler:

Jose Villalvazo

Employing Office/Committee:

Sen. Alex Padilla

Private Sponsor(s):

Stanford Institute for Economic Policy Rese

Destination(s):

Palo Alto, CA

Travel Dates:

August 7 - 10, 2023

NOTE: If you plan to extend the trip for any reason you **must** notify the Committee.

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

As the Senator's defense policy advisor, this trip would help me advise the Senator on matters related to biosecurity, especially given his role as a Commissioner on the National Security Commission on Emerging Biotechnology.

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

☐ (signify "yes" by checking box)

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

7/25/23

Date

Jose J. Villalvazo

Signature of Employee

TO BE COMPLETED BY SUPERVISING MEMBER/OFFICER

(President of the Senate, Secretary of the Senate, Sergeant at Arms, Secretary for the Majority, Secretary for the Minority, and Chaplain)

I Senator Alex Padilla hereby authorize Jose Villalvazo

(Print Senator's/Officer's Name) (Print Traveler's Name)

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

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

☐ (signify "yes" by checking box)

7/25/23

Date

Signature of Supervising Senator/Officer

REQUEST FOR TRIP EXTENSION

Pursuant to the *Regulations and Guidelines for Privately Sponsored Travel* § III.E.3:

When a traveler extends their trip by arriving earlier or staying later than scheduled by the sponsor, this is a trip extension. Prior written Committee approval is required for all trip extensions, regardless of whether the traveler is extending for an official or personal purpose. In the case of a Senate employee, the individual's supervising Senator or officer must also approve the extension.

Under no circumstance may a trip sponsor pay expenses attributable to a trip extension. At a minimum, the Senate traveler is responsible for the cost of any increase in expenses incurred because of a personal extension, and all meal and lodging expenses associated with the extension day(s). For officially-related extensions, consistent with Senate Rule 38, the Senate office must pay all additional expenses.

The Committee will determine the expenses the Senate traveler or Senate office will be required to pay based on a review of the totality of the circumstances of the trip, including the length and purpose of the extension, as follows:

- If an extension is equal to or less than the length of the trip, the traveler may accept transportation to and from the trip location. Any additional expenses incurred as a result of the extension must be paid by the traveler (for personal extensions) or the Senate office (for official extensions).
- If an extension is greater than the length of the trip and on one side of the trip, the Senate traveler may only accept transportation from the sponsor on the side of the trip that is continuing as scheduled. The Senate traveler (for personal extensions) or the Senate office (for official extensions) must pay all transportation costs on the side of the trip with the extension. As with all extensions, the Senate traveler must also pay any additional expenses incurred as a result of the extension.
- If an extension is greater than the length of the trip and on both sides of the trip, or significantly greater than the length of the trip (e.g., more than double) and on one side of the trip, the Senate traveler or Senate office must pay all transportation costs to and from the trip location, as well as any additional expenses incurred as a result of the extension. In determining whether to approve an extension, the Committee will also consider whether special circumstances support extending the trip, such as restrictions on travel due to religious observances or for medical reasons.

Stanford Institute for Economic Policy Research	Palo Alto, CA
Trip Sponsor	*Trip location*
08/07/2023	08/05/2023
Original departure date time	*Revised departure date/time*
08/10/2023	08/10/2023 - Same
Original return date time	*Revised return date/time*

Jose Villalvazo	Jose A. Villalvazo	07/25/23
Printed name of traveler	*Signature*	*Date*
Senator Alex Padilla	Alex Padilla	07/25/23
Printed name of supervising Senator officer	*Signature*	*Date*

Stanford Institute for Economic Policy Research, part of Stanford University: Stanford Biosecurity Workshop

JOSE VILLALVAZO

Title:
None

Employing Office/Committee:
PADILLA, ALEX

Duty Station:
WASHINGTON,DC

Destination(s):
Palo Alto, California

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

As the Senator's defense policy advisor, this trip would help me advise the Senator on matters related to biosecurity, especially given his role as a Commissioner on the National Security Commission on Emerging Biotechnology.

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

Name and Relationship to Traveler:
None

Organization Information

Organization Name
Stanford Institute for Economic Policy Research, part of Stanford University

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

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

Address
366 Galvez St.

Address 2 (Optional)
Public Charity

City, State Zip
Stanford, California 94305 United States

Phone Number
(650) 276-9287

Organization URL
siepr.stanford.edu

History of Congressional Travel

Stanford has sponsored summer Congressional workshops on cybersecurity and AI policy in 2015, 2016, 2017, 2018, and 2019.

Educational Activities

Stanford University is a private university with undergraduate and graduate students, a medical school, a law school, a business school, and an education school. Stanford University today comprises seven schools and 18 interdisciplinary institutes with more than 16,000 students, 2,100 faculty and 1,800 postdoctoral scholars. Stanford is an international institution, enrolling students from all 50 U.S. states and 91 other countries.

Lobbyist and Foreign Agent Registration Information

Lobbyist Registration Status: *I certify that the sponsor is not a federally registered lobbyist but retain or employ one or more federally registered lobbyists.*

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

Foreign Government Involvement

Foreign Agent Registration Status:

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

Comments

Signature Page

The signature page is below.

Purpose and Details

Provide a brief description of the trip.

This three-day workshop provides an educational and professional development opportunity for staffers whose work is likely to involve topics related to biosecurity and pandemic preparedness. The trip involves travel to California for educational panel discussions and presentations on biosecurity, biodefense, synthetic biology, and pandemic preparedness, interactive exercises on pandemic response, and a field trip to Lawrence Livermore National Laboratory.

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

Stanford University is a 501(c)3 and institution of higher education that seeks to promote the public welfare by exercising an influence on behalf of humanity through teaching and rigorous scholarship. The Stanford Institute for Economic Policy Research produces research and scholarship on policy-relevant issues, including biosecurity and pandemic preparedness.

Is your organization the only sponsor for this trip?

● Yes ○ No

Grantmaking Organizations (Optional)

1. Good Ventures Foundation

With or Without Regard for Congressional Participation

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

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

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

Lobbyist/Foreign Agent Financing

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

Lobbyist/Foreign Agent Accompaniment

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

- ● The trip is limited to three days (for trips inside the continental United States) or seven days (for trips outside the continental United States), and no lobbyist or agents of a foreign principal will accompany the Member, officer, or employee at any point throughout the trip
- ○ The trip is limited to a one-day event (exclusive of travel time and **one** overnight stay) and no registered lobbyists or agents of a foreign principal will accompany the Member, officer, or employee on any segment of the trip
- ○ The trip is limited to a one-day event (exclusive of travel time and **two** overnight stays) and no registered lobbyists or agents of a foreign principal will accompany the Member, officer, or employee on any segment of the trip

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

- ○ The trip is limited to three days (for trips inside the continental United States) or seven days (for trips outside the continental United States), and no lobbyist or agents of a foreign principal will accompany the Member, officer, or employee at any point throughout the trip
- ○ The trip is limited to a one-day event (exclusive of travel time and **one** overnight stay) and no registered lobbyists or agents of a foreign principal will accompany the Member, officer, or employee on any segment of the trip
- ○ The trip is limited to a one-day event (exclusive of travel time and **two** overnight stays) and no registered lobbyists or agents of a foreign principal will accompany the Member, officer, or employee on any segment of the trip

Certification of No Recreational Activity and No Alcohol

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

Invitees

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

The list of invitees is below.

Travel Details

Trip Start Date/Time:
08/07/2023 @ 02:45 PM

Trip End Date/Time:
08/10/2023 @ 11:47 AM

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

○ Yes ● No

Itinerary

The itinerary is below.

Transportation (Per Member/Officer/Employee: $570.00 | Accompanying Family Member: $0.00)

Transportation Type	Class	Amount
Airfare	Coach	$440.00
Note Flight		
Ground Transportation	Coach	$130.00
Note Stanford shuttle buses to and from hotel and Stanford campus, cumulative for each day of the program. Includes transportation from Hotel Parmani to the airport at the end of the program.		

Lodging (Per Member/Officer/Employee: $535.35)

Check-In	Check-Out	Facility	City	State	Country	Nights	Cost/Night	Cost Exceed Per Diem
08/07/2023	08/10/2023	Hotel Parmani	Palo Alto	California	United States	3	$178.45	No

Meals (Per Member/Officer/Employee: $174.00)

Date	Breakfast	Lunch	Dinner	Incidentals	Total	City	State	Country	Cost Exceeds Per Diem
08/07/2023	$0.00	$15.00	$33.00	$0.00	**$48.00**	Stanford	California	United States	No
08/08/2023	$15.00	$15.00	$33.00	$0.00	**$63.00**	Palo Alto	California	United States	No
08/09/2023	$15.00	$15.00	$33.00	$0.00	**$63.00**	Stanford	California	United States	No

Reasonable Miscellaneous Expenses (Per Member/Officer/Employee: $30.00)

Expense Type	Amount	Notes
Conference Fees	$30.00	E.g. room rental fees, cumulative for all three days

Additional Attachments

Document Name

There are no additional attachments.

PRIVATELY SPONSORED TRAVEL

SPONSOR SIGNATURE PAGE

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

Trip Name: Stanford Biosecurity Workshop

Travel Date(s): 08/07/2023 - 08/10/2023

Travel Destination(s): Stanford, CA

Sponsor: Stanford University

Allison Berke — *(printed name of sponsor representative)*

Director of Advanced Technol — *(title)*

Allison Berke Digitally signed by Allison Berke Date: 2023.05.31 12:26:49 -07'00' — *(signature of sponsor representative)*

05/31/2023 — *(date)*

DocuSign Envelope ID: DAFB428E-D6D0-42FA-82AF-5C5AD3C72143

Grantmaking Organization Certification Form

Instructions: If a sponsor receives funds from a grantmaking organization, the sponsor must disclose this on the *Private Sponsor Travel Certification Form*, and the grantmaking organization must complete the *Grantmaking Organization Certification Form.* The completed *Grantmaking Organization Certification Form* must be submitted to the Senate Select Committee on Ethics by the trip sponsor at least 30 days prior to the travel departure date.

Grantmaking Organization: Good Ventures Foundation

Private Sponsor: Stanford University

Trip Name: Stanford Biosecurity Workshop

Travel Date(s): 08/07/2023 - 08/10/2023

Destination(s): Stanford, CA

In compliance with the *Regulations Governing Privately Sponsored Travel*, I certify the following:

- ☑ The grantmaking organization is a § 501(c)(3) organization.
- ☑ The grantmaking organization is not a lobbyist, lobbying firm, or foreign agent, nor an entity that retains or employs a lobbyist or foreign agent.
- ☑ The grantmaking organization provides funds under an established grant program, or in a manner that is otherwise consistent with the mission and practices of the organization.
- ☑ The grantmaking organization is not involved, directly or indirectly, in organizing and conducting the trip. This includes selecting participants for a trip.
- ☑ The grantmaking organization does not directly pay or reimburse travel expenses for any Senate Member, officer, or employee.

Sarah Li	Authorized Signatory
(Printed name of grantmaking organization representative)	*(Title)*
DocuSigned by: Sarah Li E0F15876A076478...	4/28/2023 | 10:30 AM PDT
(Signature of grantmaking organization representative)	*(Date)*

Stanford Biosecurity Workshop Invitees

- Ms. Beth Nelson (Young) – Invitee from Senate
  Ms. Nelson is the Health Policy Director for Senator Todd Young of Indiana. Senator Young is on the Committee on Commerce, Science, and Transportation, and the Subcommittee on Security. For these topical reasons (Health Policy, Science, and Security), we believe Ms. Nelson is likely to encounter policy issues related to biosecurity.

- Mr. Cam Madsen (Stewart) – Invitee from House of Representatives
  Mr. Madsen is the Legislative Director for Congressman Chris Stewart of Utah. Congressman Stewart is a member of the Permanent Select Committee on Intelligence, which we believe is likely to encounter issues related to biosecurity threats.

- Ms. Camilla Vogt (Hickenlooper) – Invitee from Senate
  Ms. Camilla Vogt is a legislative assistant for Senator John Hickenlooper of Colorado. Senator Hickenlooper is on the Committee on Health, Education, Labor, and Pensions, and on the Committee on Commerce, Science, and Transportation, both of which committees are likely to encounter biosecurity-related issues.

- Ms. Claire Wengrod (Heinrich) – Invitee from Senate
  Ms. Wengrod is a Health Legislative Assistant to Senator Martin Heinrich of New Mexico. Senator Heinrich is a member of the Select Committee on Intelligence and the Committee on Appropriations Subcommittee on Agriculture, Rural Development, Food and Drug Administration, and Related Agencies. For these topical reasons (Health, Intelligence, and Food and Drug Administration), we believe Ms. Wengrod is likely to encounter policy issues related to biosecurity and pandemic preparedness.

- Ms. Dahlia Sokolov - Invitee from House of Representatives
  Ms. Sokolov is Staff Director for the Research & Technology Subcommittee of the House Committee on Science, Space, and Technology. In this role, we believe Ms. Sokolov is likely to encounter policy issues related to biosecurity and biotechnology.

- Ms. Diana Bergwin – Invitee from House of Representatives
  Ms. Bergwin is Staff Director for the House Homeland Security Committee Emergency Management and Technology Subcommittee, which we believe means she is likely to encounter policy issues related to biosecurity and pandemic preparedness.

- Mr. Geo Saba (Khanna) – Invitee from House of Representatives
  Mr. Saba is Chief of Staff for Congressman Ro Khanna of California. Congressman Khanna is on two subcommittees related to emerging technologies, the Committee on Armed Services Subcommittee on Cyber, Information Technologies, and Innovation, and the Committee on Oversight and Accountability Subcommittee on Cybersecurity,

Information Technology, and Government Innovation. We believe both of these subcommittees are likely to encounter topics related to emerging biotechnologies and biosecurity.

- Mr. Gilbert Ruiz (Gillibrand) – Invitee from Senate
  Mr. Ruiz is the Legislative Director for Senator Kirsten Gillibrand of New York. Senator Gillibrant is a member of the Committee on Agriculture, Nutrition, and Forestry Subcommittee on Energy, Science, and Technology, and the Committee on Armed Services Subcommittee on Emerging Threats and Abilities, both of which we believe are likely to encounter topics related to biosecurity and emerging biotechnologies.

- Mr. Greg Brooks (Wenstrup) – Invitee from House of Representatives
  Mr. Brooks is the Chief of Staff for Representative Brad Wenstrup of Ohio. Representative Wenstrup is a member of the House Permanent Select Committee on Intelligence Subcommittee on Counterterrorism, Counterintelligence, and Counterproliferation, which we believe means Mr. Brooks is likely to encounter topics related to biosecurity and the nonproliferation of bioweapons.

- Ms. Isabel Coughlin (Spanberger) – Invitee from House of Representatives
  Ms. Coughlin is a Legislative Assistant to Representative Abigail Spanberger of Virginia. Representative Spanberger is a member of the House Permanent Select Committee on Intelligence, which encounters issues related to nonproliferation, and is Ranking Member of the House Agriculture Committee Subcommittee on Conservation, Research, and Biotechnology. As a result of both Committee assignments, Ms. Coughlin is likely to encounter policy topics related to biosecurity, nonproliferation of bioweapons, and emerging biotechniques.

- Mr. Jonathan Clifford – Invitee from House of Representatives
  Mr. Clifford is Science, Technology, and Innovation Professional Staff Member for the House Permanent Select Committee on Intelligence, which we believe means he is likely to encounter policy related to biosecurity and biodefense.

- Mr. Jose Villalvazo (Padilla) – Invitee from Senate
  Mr. Villalvazo is Policy Advisor to Senator Alex Padilla of California. Senator Padilla is a member of the Committee on Homeland Security and Government Affairs, and a member of the Rare Disease Caucus, which we believe means Mr. Villalvazo is likely to encounter policy topics related to biosecurity and pandemic preparedness or disease surveillance.

- Mr. Kelvin Yu – Invitee from House of Representatives
  Mr. Yu is a Fellow at the House Space, Science, and Technology committee, which we believe means he is likely to encounter policy topics related to biosecurity and emerging

biotechnologies.

- Ms. Lauren McClain – Invitee from House of Representatives
  Ms. McClain is a Legislative Assistant for the House Homeland Security Committee, which we believe means she is likely to encounter policy topics related to biosecurity and biodefense.

- Ms. Liz Amster (Auchincloss) – Invitee from House of Representatives
  Ms. Amster is Chief of Staff for Representative Jake Auchincloss of Massachusetts. Representative Auchincloss is a member of the Committee on Financial Services Subcommittee on National Security, International Development, and Monetary Policy, which we believe means Ms. Amster is likely to encounter policy topics related to biosecurity, international collaborations and funding on pandemic preparedness, and funding for medical countermeasures to address disease threats.

- Mr. Micah Ketchel (Waltz) – Invitee from House of Representatives
  Mr. Ketchel is Chief of Staff for Congressman Mike Waltz of Florida. Representative Waltz is a member of the Permanent Select Committee on Intelligence, which we believe means Mr. Ketchel is likely to encounter policy topics related to biosecurity and biodefense.

- Ms. Christina Salazar – Invitee from Senate
  Ms. Salazar is General Counsel for the Senate Homeland Security and Governmental Affairs Committee, which we believe means she is likely to encounter policy topics related to biosecurity and biodefense, as well as pandemic preparedness.

- Mr. Sachin Mathur (Gillibrand) – Invitee from Senate
  Mr. Mathur is Legislative Assistant to Senator Kirsten Gillibrand of New York. Senator Gillibrant is a member of the Committee on Agriculture, Nutrition, and Forestry Subcommittee on Energy, Science, and Technology, and the Committee on Armed Services Subcommittee on Emerging Threats and Abilities, both of which we believe are likely to encounter topics related to biosecurity and emerging biotechnologies.

- Mr. Zach Wilson (Bice) – Invitee from House of Representatives
  Mr. Wilson is Legislative Assistant for Congresswoman Stephanie Bice of Oklahoma. Representative Bice is a member of the House Committee on Science, Space, and Technology, and a member of the House Committee on Armed Services Cyber, Innovative Technologies, and Information Systems Subcommittee, which we believe means that Mr. Wilson is likely to encounter policy topics related to biosecurity and emerging biotechnologies.

- Mr. Parker Reynolds (Cassidy) – Invitee from Senate
  Mr. Reynolds is a Policy Advisor for Senator Bill Cassidy of Louisiana. Senator Cassidy is a

member of the Committee on Energy and Natural Resources, and the Committee on Health, Education, Labor, and Pensions, which we believe means that Mr. Reynolds is likely to encounter policy topics related to biosecurity, pandemic prevention, and health security.

Invitation to Biosecurity Policy Workshop at Stanford University this August

Allison Berke

Wed 4/19/2023 10:01 AM

To:jose_villalvazo@padilla.senate.gov <jose_villalvazo@padilla.senate.gov>

Dear Mr. Villalvazo,

I hope this message finds you well! I am writing to invite you to attend a Workshop on Biosecurity Policy at Stanford University, sponsored by the Stanford Institute for Economic Policy Research. The workshop will take place Monday, August 7th 2023 through Wednesday, August 9th 2023, on Stanford's campus in California.

We are inviting a hand-picked group of Congressional staffers to attend this closed, off-the-record workshop to discuss current policy-relevant topics in biosecurity and synthetic biology research and governance, and to foster education and dialogues between researchers and subject-matter experts and the policy community. Starting with an introductory overview of biosecurity, immunology, and synthetic biology (no biology background required), the workshop then focuses on pandemic preparedness and medical countermeasures; the history of biosecurity policy efforts and development; supply-chain and innovation pipeline issues in synthetic biology; surveillance and outbreak investigation; international collaborative efforts and bioweapons nonproliferation; and the compounding effects on biosecurity of climate change, chemical security, and nuclear security. An interactive tabletop strategic exercise and a field trip to a local synthetic biology laboratory round out the workshop's activities.

Stanford has held similar workshops in cybersecurity and AI policy since 2015, and we are excited to focus this year on the timely topic of biosecurity and the growing bioeconomy. From our previous workshops, we have heard that participants value these experiences as unlike their usual briefings or interactions with experts on the Hill; they are more intimate, allow for more in-depth questions and learning, and have no immediate agenda. It's an opportunity to build relationships with experts and technologists as well as with other staffers, and Stanford is also quite nice and temperate in August. Flights, meals, lodging, and ground transportation are fully funded.

If you are able to attend, or have any questions, please let me know. I know these trips require ethics committee approval, and I'm happy to provide any information needed for that process, as well as to answer any questions about content, logistics, travel, etc. I very much hope you will join us in August, but if you are unavailable and would recommend a colleague to attend instead, I welcome your suggestions.

Thank you,

Allison

Allison Berke, PhD
Director of Advanced Technology, California 100
Stanford Institute for Economic Policy Research
(650) 276-9287 | aberke@stanford.edu

Stanford Biosecurity Workshop Agenda – Jose Villalvazo

All events take place at the Mackenzie Room in the Huang Engineering Building on Stanford Campus, unless otherwise indicated, Room 300, 475 Via Ortega, Stanford, CA 94305.

Day 1: August 7th, 2023

11:45 am – 12:00pm: Welcome (Allison Berke, Jassi Pannu)
12:00 pm – 1:00 pm: Lunch (Guided discussion in small table groups)
1:00 pm - 2:00 pm: Session 1 (Background/overview of biosecurity and previous biosecurity policy efforts – Allison Berke, Jassi Pannu, David Relman, Megan Palmer)

- The history of US biosecurity policy, the structure of responsibilities, pandemic response and effectiveness past and current (e.g., SARS, Ebola, Zika, COVID), and how priorities are set

2:00 pm - 2:30 pm: Break
2:30 pm - 4:00 pm: Session 2 (Pandemic preparedness, medical countermeasures – Steve Luby, Nathan Lo, Melissa Salm, Milana Trounce

- How pandemics are identified, how responses build and are evaluated mid-stream, what our response capabilities are and how these are developed, and what our current capabilities can and cannot address (e.g., vaccine development pipeline, new antibiotic development, protective equipment, building airflow standards, UV-C sterilization)

4:00 pm - 4:30 pm: Break
4:30 pm - 6:30 pm: Dinner and Session 3 (Immunology, synthetic biology, and disease biology – Allison Berke, Christina Smolke, Tessa Alexanian)

- Human and disease biology (how does a pathogen cause illness, What is special about zoonotic diseases), and synthetic biology (what does it mean to edit a gene, to synthesize a molecule, to engineer a protein)

6:30 pm: Return to accommodations

Day 2: August 8th, 2023

Room 300, 475 Via Ortega, Stanford, CA 94305
8:00 am – 9:30 am: Breakfast (Keynote: Hank Greely)

9:30 am – 9:45 am: Break
9:45 am – 10:15 am: Debrief from previous day
10:15 am – 11:15 am: Session 4 (Supply-chain and innovation pipeline problems –Becky Mackelprang, Milana Trounce, Jeff Glenn, Dan Greene)

- How we mobilize vaccines, PPE, medications, and personnel, when a pandemic is identified; what we might find as an obstacle to innovation, supply chain, or biological product development over the next 10 years

11:15 am – 11:45 am: Break
11:45 am – 1:15 pm: Lunch and Session 5 (Surveillance, spillovers, and outbreak investigation – Alexandria Boehm, Steve Luby, David Relman)

- How we monitor biological activities - animal and human health, wastewater monitoring, spillovers - and how we investigate and determine the source of an outbreak. How do we identify whether an outbreak is manmade/engineered or natural; What biosecurity measures are associated with what biosafety levels / types of activity

1:15 pm – 1:30 pm: Break
1:30 pm – 3:00 pm: Keynote (Applications of cutting-edge technology to biosecurity – Brian Souza)

- Novel sequencing, modeling, and sampling techniques for surveillance and detection; LLNL capabilities in biosecurity and bioforensics

3:00 pm – 3:30 pm: Break
3:30 pm – 6:00 pm: Simulation exercise (Tabletop exercise involving a simulated scenario of multiple outbreaks – Harshini Mukundan, Trond Undheim, Connor Hoffman, Allison Jia)

- Based on a board game designed to demonstrate response to multiple interacting crises, this exercise simulates the response of different roles (e.g., vaccine developer, physician, public health coordinator, politician, philanthropist) to multiple simultaneous health crises (e.g., two unrelated pandemics, or a viral outbreak affecting humans and a crop pathogen affecting wheat). Participants will play through rounds where they are given the opportunity to take actions to combat the crises (e.g., fund vaccine development; increase wheat imports) and given additional information about how the scenario evolves. Participants will then discuss the outcome of the scenario, what actions worked well or poorly, what actions they wish they had available to them, and what

their motivations and considerations specific to their in-game role were.

6:00 pm – 8:30 pm: Dinner (Keynote: Drew Endy)

Day 3: August 9th, 2023

Room 300, 475 Via Ortega, Stanford, CA 94305

7:45 am – 8:30 am: Breakfast and debrief from previous day

8:30 am – 9:30 am: Session 7 (International collaborations, research funding, and educational pipeline – Drew Endy, Megan Palmer, Hank Greely, Joshua Salomon)

- What areas of the bioeconomy are exciting to researchers, and what US capabilities are for scaling up the biosecurity and bioeconomy workforce, including training programs, education and funding for educational programs, and philanthropic support

9:30 am – 10:00 am: Break

10:00 am – 11:30 am: Session 8 (Terrorism and nation-state capabilities; nonproliferation and status of treaties – Charles Briggs, Allison Berke, Bradley Boyd)

- Past and current threat assessments, what past uses of biological agents imply about future threats; The BTWC, CBMs, proposed verification measures, UNSCR 1540, the role of the WHO, etc.

11:30 am – 12:30 pm: Lunch and Session 9 (Global and converging threats - climate change, chemical weapons, nuclear weapons – Ann Thresher, Trond Undheim)

- How climate change, nuclear weapons, and chemical weapons can compound the difficulties of biodefense, lead to increased spillover effects, or encourage fear

12:30 pm: Shuttle bus leaves to LLNL for participants who have chosen this field trip

12:30 pm – 1:30 pm: Break and open discussion

1:30 pm: Shuttle bus leaves to Antheia Bio for participants who have chosen this field trip

2:00 pm – 4:00 pm: Field Trip at Antheia Bio / LLNL

- Participants will be able to see first-hand the operations of a bioforensics laboratory and synthetic biology equipment, and hear from speakers Christina Smolke and Jesse Ahrendt (Stanford and Antheia Bio) or Brian Souza (LLNL) how their respective industries (synthetic biology, and national defense / science in the national interest sponsored by DoE and DoD) are helping produce medical countermeasures, investigate disease outbreaks, and prepare for

future pandemics or biothreats. Participants will be able to see what lab procedures and lab equipment look like, and get a sense for how biological products are made and how biological research is conducted in a laboratory (e.g., what do growing cells look like. What does a biological safety cabinet look like. How does a researcher prepare a sample of DNA for sequencing). Topics discussed at Antheia will include how manufacturing needs are prioritized, how a company would respond to an outbreak to scale up production of medical countermeasures, how biosecurity is accounted for during all steps of a synthetic biology workflow, and what new biotechnologies are being developed to address viral threats. Topics discussed at LLNL will include what the lab's biodefense priorities are, what the day-to-day work of microbiology and bioengineering looks like in a lab, what biosecurity measures the lab takes to protect their technology and the pathogens they work with, what new technologies the lab is hoping to develop in the near term to address biosecurity threats, and how to develop disease-agnostic biosurveillance tools.

4:00 pm – 5:00 pm: Return from field trip to Stanford (shuttle bus)

5:00 pm – 5:45 pm: Dinner and Feedback Session at Huang Building, Stanford, joint with IFP (Institute for Progress) Synthetic Biology workshop attendees.

- This dinner will allow participants and the day's speakers the opportunity to debrief the day's sessions, answer additional questions, and meet IFP's workshop attendees, who will have spent the past three days learning about synthetic biology techniques (e.g., CRISPR) and pathogen detection and protection mechanisms (e.g., air filtration and UV light decontamination). Both groups of attendees share an interest in, and professional experience with or responsibility for, pandemic prevention. This dinner is intended to allow attendees of both workshops to network and to share what they have learned over the past three days.

This is the end of the substantive programming, but participants will be able to continue eating dinner and socializing.

5:45 pm – 8:30 pm: Dinner at Huang Building, Stanford, joint with IFP (Institute for Progress) Synthetic Biology workshop attendees. This is the social part of dinner, no programming.

8:30pm: Shuttle bus leaves for Hotel Parmani

Day 4 (travel-only day): August 10th, 2023

6:45 am – Shuttle departs Hotel Parmani for SFO

8:47am – Flight departs SFO

Speakers:

- Drew Endy (Martin Family Fellow in Undergraduate Education & Assoc. Professor of Bioengineering, Stanford)
- David Relman (Thomas C. and Joan M. Merigan Professor in Medicine, and Professor of Microbiology & Immunology, and Senior Fellow at the Freeman Spogli Institute for International Studies at Stanford University. He is also Chief of Infectious Diseases at the Veterans Affairs Palo Alto Health Care System in Palo Alto, California)
- Milana Trounce (Clinical Professor of Emergency Medicine, Stanford Medical School)
- Connor Hoffman (Research and Programs Assistant, Freeman Spogli Institute for International Studies, Stanford)
- Allison Berke (Director of Advanced Technology, Stanford Institute for Economic Policy Research)
- Dan Greene (Senior Analyst in Biosafety, Biosecurity, and Emerging Technologies at Gryphon Scientific)
- Megan Palmer (Adjunct Professor of Bioengineering, Stanford)
- Steve Luby (Professor of Medicine (Infectious Diseases) and Senior Fellow at the Woods Institute and the Freeman Spogli Institute and Professor, by Courtesy, of Epidemiology and Population Health, Stanford)
- Harshini Mukundan (Program Manager for Chemical and Biological Technologies, Lawrence Berkeley National Laboratory)
- India Hook-Barnard (Executive Director, Engineering Biology Research Consortium)
- Ann Thresher (Postdoctoral Scholar in Philosophy, Stanford)
- Arielle D'Souza (Endless Frontier Fellow, Institute for Progress)
- Becky Mackelprang (Associate Director for Security Programs, Engineering Biology Research Consortium)
- Jassi Pannu (Internal Medicine Resident Physician, Stanford)
- Hank Greely (Deane F. and Kate Edelman Johnson Professor of Law and Professor, by Courtesy, of Genetics, Stanford)
- Trond Undheim (Research Scholar, Center for International Security and Cooperation, Stanford)
- Herb Lin (Senior Research Scholar, Center for International Security and Cooperation, Stanford)
- Mel Salm (Postdoctoral Scholar, Infectious Diseases, Stanford)

- Brian Souza (Director of the Center for Biosecurity, Lawrence Livermore National Laboratory)
- Christina Smolke (Professor of Bioengineering, Stanford, and CEO of Antheia Bio)
- Jeffrey Glenn (Professor of Microbiology and Immunology, Stanford Medicine, Depts. of Gastroenterology and Hepatology, Stanford)
- Charles Briggs (Professor of Anthropology, UC Berkeley)
- Bradley Boyd (Visiting Fellow, Hoover Institution)
- Tessa Alexanian (Ending Bioweapons Fellow, Council on Strategic Risks)

Three students will be attending as note-takers: Allison Jia (Stanford), Caroline Palmer (Duke), and Will Ortell (USC)