HEP community government engagement

The annual HEP government engagement activities are run through users/community groups

- **UEC** - Fermilab Users Executive Committee
- **SLUO** - SLAC Users Organization
- **USLUA** - US LHC Users Association
- **DPF EC** - APS Division of Particles and Fields EC

Through election, these groups represent a significant fraction of the 6000-strong HEP community, although not all.

A large fraction of the support for the trip comes from the Universities Research Association.

- URA is non-for-profit of over > 90 institutions.

Been running for ~35 yrs
These groups aim to visit as many Congressional members and relevant staff as possible.

Nominally a 3-day trip to Washington DC for a group of up to 70 people. 2020, 2021 and 2022 trips were virtual.

For in-person trips, we meet with about 80% of both House and Senate.

The trip is timed based on when Congress is writing its budget in the form of ‘appropriations bills’ generally in March/April.

HEP is funded through the National Science Foundation and the Department of Energy Office of High energy physics.

Attendees are selected by users group: through election, competition, or expertise.
• The trip aims to increase the knowledge and understanding of HEP and basic research within congress and to ask for funding for HEP.

• We share our excitement about our research and put a face to science and the experiments we request funding for.

• The community works to create a coherent message before the trip reflecting the unity of the field around the P5 plan. All trip attendees go with this one cohesive message.

• The message covers the priorities from the P5 plan and our progress toward them.

• We bring a packet of material to support this message and help lead the conversation.
• Aim to inform and to make a positive lasting impression. A standard meeting will cover:

• Who you are, what is high energy physics, and what you are specifically working on

• Our clear and community-supported plan (P5) and its process

• The ‘Ask’, the appropriations request for DOE OHEP and NSF, its justification
  
  • Point out ‘Dear Colleague letters’ or policies in support of this Ask.

• Highlight a couple of areas that match the offices or your own interests. For example,
  
  • Training next generation STEM workforce
  • Benefits to society and economy
  • Links to administration priorities such as AI, QIS, microelectronics

• We thank the congresspeople for the support we have been provided.
Building for Discovery

The P5 Report provides the strategy and priorities for U.S. investments in particle physics for the coming decade.

The top three priorities in 2022

- Strengthen support for particle physics research at universities and national laboratories, which includes data analysis, R&D, design of new experiments, and a vibrant theory program. Emphasized in the P5 Report, these activities are essential for the success of the field. They are crucial for extracting scientific knowledge from all the new data, developing new methods and ideas, maintaining U.S. leadership, and training the next generation of scientists and engineers.

- Advance the Long-Baseline Neutrino Facility (LBNF), Deep Underground Neutrino Experiment (DUNE), and ProtoDUNE-ProtoIC (P-ProtoIC), working with international partners on the design, prototypes, initial site construction, and long lead procurements.

These carefully chosen investments will enable a steady stream of exciting new results for many years to come and will maintain U.S. leadership in key areas.

Global science, local impact

Particle physicists play a fundamental role in expanding our understanding of the universe, from the smallest particles to the largest structures in the cosmos. Our work in particle physics contributes to solving some of the greatest mysteries of our existence.
• Hold multiple training sessions to teach people: how to talk to congress, the appropriations process, meeting etiquette, and the material.

• Provide talks from HEP government relations experts

• Well-developed Trip wiki with masses of info and material for the trip

• Provide training videos showing example meetings

• On-the-job training: meetings are held in pairs, with a lead and secondary. First, attendees attend meetings as secondary before running their own.
Appropriations Committee meetings

- In addition, we meet specifically with the staff of the various congressional committees, including Appropriations committees, which are formatting the congressional budget for DOE and NSF
  - Approp: Commerce, Justice, Science (House and Senate)
  - Approp: Energy & Water Development (House and Senate)
  - Energy (House and Senate)
  - House Research and Tech, and Senate Space and Science
Executive branch meetings

- In addition to the congressional visits, we also arrange visits with:
  - Funding agencies: NSF, DOE OHEP, and DOE OS
  - Executive office of the President - Office of Management and Budget/Office of Science and Technology Policy
  - These groups are already focused on next year's budget, but we can provide feedback on how their budget is being received in congress and give input on the next budget

DC trip
How we make it work

- Pre-trip attendees provide ‘connections’ to congressional districts.
- An algorithm matches attendees with Representatives and Senators.
- Attendees are responsive to arranging meetings with matched offices.
- Over 3723 connections are currently in the database - but not enough to reach all districts.
- We need you!
HEP DC Trip Code of Conduct

Fermilab Users Executive Committee, SLAC Users Organization, US LHC Users Association

All trip attendees will conduct themselves in a professional manner that is welcoming to all participants and free from any form of discrimination, harassment, bullying, or retaliation. Participants will treat each other with respect and consideration to create a collegial, inclusive, and professional environment in all activities associated with the trip.

Participants will avoid any inappropriate actions or statements based on individual characteristics of any kind. Disruptive or harassing behavior of any kind will not be tolerated. Harassment includes but is not limited to inappropriate or intimidating behavior and language, unwelcome jokes or comments, unwanted touching or attention, and stalking.

The above considerations apply to both interactions with other participants and interactions with Congressional offices and their personnel. Participants agree to maintain civil, respectful, and appropriate discourse during all visits. As representatives of the High Energy Physics community, participants agree to abstain from making statements, or introducing materials and/or personal opinions--political or otherwise--which are unrelated to or in conflict with the message agreed upon by the community.

Violations of this code of conduct policy may be reported to any of the trip organizers. Sanctions may range from verbal warning, to ejection from the trip, to notifying appropriate authorities, at the discretion of the organizers. Retaliation for complaints of inappropriate conduct will not be tolerated. If a participant observes inappropriate comments or actions and personal intervention seems appropriate and safe, they should be considerate of all parties before intervening.
Sophisticated logistical and management tools have been developed.
Detailed meeting planning and tracking
Including trip reports and info from past meetings

Real-time statistics on the trip

Office by office details
Dear Representative Underwood,

The Department of Energy (DOE) Office of Science and the National Science Foundation (NSF) Directorate for Mathematical and Physical Sciences (MPS) directly support scientists, engineers, and students in all 50 States, the District of Columbia, and Puerto Rico through research grants to academic institutions and contracts to supporting industries. In fiscal year 2021, the DOE Office of Science had a budget of $1.046 billion for High Energy Physics (HEP), and the NSF MPS had a budget of $8.487 billion.

Institutions receiving DOE HEP grants during FY2021:
- Illinois
  - Northwestern University
  - University of Chicago
  - Northern Illinois University
  - Illinois Institute of Technology
  - University of Illinois

Please find below specific information about grants and contracts that were awarded by the DOE Office of Science and NSF to institutions and businesses in your district during FY2021 and preceding years.

Illinois’s 14th Congressional District

In the past 6 years, this district has been awarded:
- DOE Office of Science contracts totaling: $3,585,113,189
  - Contracts with companies in your district, primarily related to the operation of DOE National Laboratories
- NSF MPS research grants totaling: $5,000
  - Grants to researchers in your district from the NSF Directorate for Mathematical and Physical Sciences

Information on interns

SULI & CCI Students

<table>
<thead>
<tr>
<th>Name</th>
<th>College</th>
<th>Host Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael Christoforens</td>
<td>Waukesha Community College</td>
<td>Fermi National Accelerator Laboratory</td>
</tr>
<tr>
<td>Christian Duvir Ondras</td>
<td>Waukesha Community College</td>
<td>Fermi National Accelerator Laboratory</td>
</tr>
<tr>
<td>Christopher Stellas</td>
<td>Waukesha Community College</td>
<td>Fermi National Accelerator Laboratory</td>
</tr>
<tr>
<td>Ramon Arne Randle</td>
<td>Waukesha Community College</td>
<td>Fermi National Accelerator Laboratory</td>
</tr>
<tr>
<td>Emmanuel Sondile</td>
<td>Waukesha Community College</td>
<td>Fermi National Accelerator Laboratory</td>
</tr>
<tr>
<td>Thomas McDonald</td>
<td>Waukesha Community College</td>
<td>Fermi National Accelerator Laboratory</td>
</tr>
<tr>
<td>Elisha Mccarthy</td>
<td>McHenry County College</td>
<td>Fermi National Accelerator Laboratory</td>
</tr>
</tbody>
</table>

Developers:
- Rob Fine
- Michael Baumer
- Matthew Feickert
- Justin Vasel
- Fernanda Psihas
Dear Representative Underwood:

In fiscal year 2021, Fermilab spent $330 million in the United States to purchase goods and services in 48 states and the District of Columbia. Please find below specific information about goods and services purchased by Fermilab from your State or district during this time.

Illinois’s 14th Congressional District

<table>
<thead>
<tr>
<th>Vendor</th>
<th>ZIP Code</th>
<th>Amount ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEVDEN ELECTRIC INC</td>
<td>60119</td>
<td>$838,991</td>
</tr>
<tr>
<td>VOLT ELECTRIC INC</td>
<td>60511</td>
<td>$407,183</td>
</tr>
<tr>
<td>DGILIENTIA, LLC</td>
<td>60540</td>
<td>$169,470</td>
</tr>
<tr>
<td>FEIKE OIL CO</td>
<td>60944</td>
<td>$144,115</td>
</tr>
<tr>
<td>FEIRE SOLUTIONS LLC</td>
<td>60107</td>
<td>$35,328</td>
</tr>
<tr>
<td>DURANE EQUIPMENT CORP</td>
<td>60107</td>
<td>$37,940</td>
</tr>
<tr>
<td>DIVERSIFIED FLEET SERVICES</td>
<td>60107</td>
<td>$81,587</td>
</tr>
<tr>
<td>NICOR GAS</td>
<td>60107</td>
<td>$79,753</td>
</tr>
<tr>
<td>WELSTON COMPANY</td>
<td>60507</td>
<td>$66,226</td>
</tr>
<tr>
<td>SCHAFFER GREENHOUSES</td>
<td>60507</td>
<td>$58,549</td>
</tr>
<tr>
<td>PRODUCERS CHEMICAL CO</td>
<td>60507</td>
<td>$45,694</td>
</tr>
<tr>
<td>ADAMS, MARK</td>
<td>60107</td>
<td>$40,000</td>
</tr>
<tr>
<td>CARGILL SLT INC</td>
<td>60507</td>
<td>$39,630</td>
</tr>
<tr>
<td>ADVANCED DISPOSAL SERVICES SOLID WASTE MIDWEST LLC</td>
<td>60507</td>
<td>$38,059</td>
</tr>
<tr>
<td>MARINE BIOCHEMISTS</td>
<td>60507</td>
<td>$35,980</td>
</tr>
</tbody>
</table>

Developers:  
Rob Fine  
Michael Baumer  
Matthew Feickert  
Justin Vasel  
Fernanda Psihas  

Information on HEP spending, using FNAL spreading per district.
Getting involved

• A small number of people manage the logistical tools. Please let us know if you want to help!
• Lots of improvements are planned but need more resources to see them actualized.
• We need your new ideas!
• People to come on a virtual or in-person trip.

CEF06 Recommendation 2 – The FNAL, SLAC, USLHC Users groups and APS DPF must support and grow the annual HEP Congressional advocacy effort.

The annual HEP advocacy effort is essential to increasing knowledge and interest of HEP in Congress. Participation in these efforts should be encouraged. The HEP community should support efforts for continued development and growth.

Sub-recommendations 2.1 - 2.6 are listed in Section 5 and give specific recommendations in this area.

CEF06: PP&GE report and feedback sheet from the wiki
https://snowmass21.org/community/policy
Non-Congressional Government Engagement

Advocacy for Areas Beyond HEP Funding

Congressional Advocacy for HEP Funding
Backup

Organizers
- Adam Lyon (UEC, 2023 lead)
- Nadja Strobber (UEC, 2022 lead)
- Keti Kaadze (UEC, 2021 lead)
- Harvey Newman, Kevin Black (USLUA)
- Mandeep Gill (SLUO)

Logistics
- Fernanda Psihas,
- Rob Fine,
- Justin Vasel (UEC)

Meeting planning
- Breese Quinn (Congressional committees)
- Harvey Newman (Executive offices)

Developing material - Michael Cooke (DOE) and some key members of HEP community (usparticlephysics.org)
The P5 report was well received within congress

• 2014 House Energy & Water Approp.: “Committee supports the Office of Science’s challenge to the HEP community to identify an LBNE construction approach that avoids large out-year funding spikes or to identify viable alternatives with similar scientific benefits at significantly lower cost.”

• 2015 House Energy & Water Approp.: “Committee notes that the HEP research community is currently engaged in developing a ten-year plan for U.S. particle physics, which will include a ten-year report by the Particle Physics Project Prioritization Panel under various budget scenarios. The Committee applauds the Department for this undertaking . . .”

• 2016 House Energy & Water Approp.: “Committee strongly supports the Department’s efforts to advance the recommendations of the Particle Physics Prioritization Panel and urges the Department to maintain a careful balance among competing priorities and among small, medium, and large scale projects.”