Overview and Tips for Policy Fellowships

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Agenda

I. Scientists and Engineers in Policy
II. AAAS STPF Fellowship
III. Other Fellowships
IV. Questions
How many members of congress are from science and engineering backgrounds?

- A. Less than 10%
- B. 10%-20%
- C. 20%-50%
- D. 50%-70%
- E. Greater than 70%
How many members of congress are from science and engineering backgrounds?

- There was 1.5 physicists, 1 mathematician, 1 microbiologist and 1 chemist in the 115th Congress (1/3/17-1/3/19) – 3%
  - 8 members have engineering degrees, 21 medical
  - 218 have law degrees
  - Only 24 have doctoral degrees
- 11 elected to 116th congress (~9% science, engineering and health now)- 2 PhDs
- 314action.org
How many members of congress are from science and engineering backgrounds?

- Current 117th Senate, of 10 new members
  - Warnock (PhD in Theology)
  - John Hickenlooper (CO, Masters in Geology)
  - Mark Kelly (AZ, Masters in Aeronautical Engineering)

- House of Representatives (60 new)
  - Eight did not earn a four-year degree
  - Two MDs (Texas and Iowa)
  - Doctor of Pharmacy (Tennessee)
  - Undergraduate-3rd were STEM

AAAS STPF Fellowship

Mission
To connect science with policy and foster a network of science and engineering leaders who understand government and policymaking, and are prepared to develop and execute solutions to address societal challenges.
AAAS STPF Fellowship Process

- November 1st Application deadline
- Early Spring – Semi-Final interviews
- Late Spring – Finalist Interview week
- May-July Fellowship matching
- September start
Application/Interview Tips

- Integrate past and current legislation
  - [https://www.congress.gov/](https://www.congress.gov/)
- Speak to broad skills (Systems, GIS, literature synthesis, etc.)
- Wear comfortable shoes!
  - Pass left, stand right
- Be open
Millennium Challenge Corporation (MCC)

- Mission: Poverty reduction through economic growth
- Started in 2005 by the Bush Administration
- Works in well-governed low and middle income countries
- ~300 employees
- Country-led
- Data driven
- 5 year compacts
Tunisia Water Scarcity Project
Oases Activity
Transboundary Waters

<table>
<thead>
<tr>
<th>Country</th>
<th>NWSAS Aquifer Water (billion m³/year)</th>
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<tbody>
<tr>
<td>Tunisia</td>
<td>0.5</td>
</tr>
<tr>
<td>Algeria</td>
<td>2.0</td>
</tr>
<tr>
<td>Libya</td>
<td>1.5</td>
</tr>
<tr>
<td>Total</td>
<td>3.0</td>
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</tbody>
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- Renewable Portion
- Extraction
Oases Activity
Tunisia Water Scarcity Project - country ownership
Not all work...
Other Policy Fellowships

- Oak Ridge Institute for Science and Education (ORISE)
- Christine Mirzayan Science Policy Program (National Academies)
- Presidential Management Fellowship (PMF)
- California Science and Policy Fellowship
- Women’s Congressional Policy Institute
- IEEE State Department Fellows
- Congressional Black Caucus Fellowships
- Congressional Hispanic Caucus Institute
Science Communication

- Avoid jargon
  - Lose academic speak
- Be to the/a point
  - Avoid excessive detail
- Can you explain it to your grandmother?
- Can you explain it to an eight year old?
- Tell a story
- Follow up, stay in contact, be available
If I had more time, I would have written less.

Mark Twain
Thank you!

- Questions?
- Contact: cnaughton2@ucmerced.edu
- @naughtoncc
- Acknowledgements