## The American Physical Society and USLUA

## GPS physics"



Julia Gonski, on behalf of the APS Council

US LHC User's Association
Annual Meeting
2 November, 2017

## Outline

1. APS Programs \& Highlights

- Composition \& unit structure
- Promoting diversity

2. Advocacy Efforts

- FY2018 Funding
- Promoting Public Awareness

3. SCOAP3 Status
4. Looking Forward

## A Particle Physicist's Guide to APS



- Quoted January 2017; up nearly 1000 since 2016!
- Regular member category in slight decline (down 100)

A Particle Physicist's Guide to APS


- 3,900 Early Career members
- 6,800 undergrads (~900 added from CUWiP alone)


## A Particle Physicist's Guide to APS

Relevant Units:

- Division of Particles \& Fields (DPF)
- Forum on International Physics (FIP)
- Division of Nuclear Physics (DNP)
- Forum on Graduate Student Affairs
- New: Forum on Early Career Scientists
- Organizing: Forum on Diversity \& Inclusion


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Serving as

- Organizing: Forum on Diversity \& Inclusion Councilor


## Engaging A Diverse Community

- Monitoring \& improvement of climate a crucial factor for drawing new talent
- APS:
- Committee on Minorities in Physics
- Committee on Status of Women in Physics: recent assessment done at US ATLAS workshop (July 2017)
- USLUA: Quality of Life Committee (Usha Mallik)

Women who earned physics doctorates (1973-2015)


Men who earned physics doctorates (1973-2015)


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## Advocacy Efforts

- Shared goal with USLUA: create \& strengthen relationships on the Hill, ensure future funding for basic research
- APS Office of Public Affairs:
- Handles communication of science \& research between physicists, the public, and the government
- New: Francis "Slake" Slakey appointed as Director

Federal Research Funding Clean Energy \& Climate Change



Education

## March for Science 2017

- Officially endorsed by Council in March
- OPA arranged Congressional visits for those coming to DC
- Member gathered at AAAS headquarters
- Council participated in Phoenix, AZ



## Campaigns Across APS

- FGSA: "social media storm" to address how federal research funding is important for future of students
- Forum on Physics \& Society: addressed current spending caps on federal budget
- DPF \& DNP: joint campaign to contact Representatives via template
=Total: 285 congressional offices!

Tweet Your Senator or Representative
(Fill in the blank with their Twitter handle)

I urge $\qquad$ \& fellow members of Congress to fully fund NSF, NIST, \& DOE Office of Science in Fiscal Year 2018 \#voice4physics

V Tweet

I urge $\qquad$ \& fellow members of Congress to fully fund ESSA Title II to help prepare high-quality STEM teachers \#voice4physics

Tweet

## FY2018 Funding Efforts

- May 2017: Testimony by Maria Spiropulu (APS FIP past chair, CMS/Caltech) before House Appropriations Energy and Water Subcommittee
- October 2017: Letter sent to Senate \& House Energy Appropriations subcommittees from all DPF \& User's Groups chairs
- "Write Congress": Excellent effort by Carena, Cogliani, Lankford, \& Newman to simplify process of contacting Congress for users
- Achieved very favorable Senate bill with $\$ 860 \mathrm{M}$ for HEP

| Contact Information | Message |
| :---: | :---: |
| Prefix (required) |  |
| First Name (required) | 皿而 United States Senators |
| Last Name (required) |  |
| Email (required) | IIIIIIU United States Representative |
| Phone (required) |  |
| Address (required) | RE: Constituent Concern: Support for federal research funding for FY18 |
| ex: 123 Main St | As a member of the high energy physics community and your constituent, I urge you to support federal research funding in the Fiscal Year 2018 (FY18) |
| City (required) | budget. Congress has largely been rejecting the President's proposed deep cuts to research funding. I ask you to also reject these cuts and support |
| State (required) $\hat{\text { a }}$ | robust funding for federal scientific research, including high energy physics research funded by the U.S. DOE Office of Science and the National Science Foundation. |
| Zip (required) |  |
| - \| would like to receive email in the future. | Increasing support would help maintain U.S. leadership in high energy physics by facilitating the community's 10-year strategic plan "Building for |
| SEND | Discovery," also known as the P5 report. The Senate's $\$ 860$ million proposal for high energy physics at DOE will aid this vision. This enables high-priority research activities, major facility operations, international partnerships, and |
| PREVIEW | the training of the future workforce. All of this contributes to innovation and economic growth. For example, according to a 2012 Information Technology |

## US-CERN Virtual Visits

- Effort on behalf of USLUA, as well as ATLAS \& CMS Outreach
- Vidyo connection to ACR \& CMS cavern: achieve benefits of inperson visit, easier for federal contacts to participate
- Talk given at the 2017 DPF meeting (slides)
$\Rightarrow$ Potential for USLUA to act as host, both virtually and in-person



## SCOAP3: What to Know

- Global consortium designed to realize large-scale open access publishing of HEP research
- April 2017: APS Board of Directors voted to enter into SCOAP ${ }^{3}$ with CERN
- Agreement starting Jan 2018 through 2019
- Covering Phys Review C, D, \& Letters
- Official terms still TBD: announcement expected within 1-2 weeks


## Looking Forward

- 2017 was an excellent example of constructive interference between APS \& USLUA
- FY2018 funding quite favorable
- Such a unified front will continue to be necessary
- Get involved with APS: elections underway
- APS April Meeting 2018: no longer in January!

APRIL MEETING 2018 Columbus, Ohio

## Backup

## Underrepresentation in Physics

Noninstitutionalized resident population of the United States ages 18-64, by race, ethnicity, and sex: 2014


NOTES: Hispanic may be any race. Other includes individuals not of Hispanic ethnicity who reported more than one race or a race not listed separately.

Percentage of women in physics


Credit: APS/Source: IPEDS Completion Survey \& NSF-NIH Survey
of Graduate Students \& Postdoctorates in Science and Engineering

PhD degrees earned by women in physics by race


Year

