The American Physical Society and USLUA



Julia Gonski, on behalf of the APS Council

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



3 November 2017

J. Gonski

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 I DIVISION OF PARTICLES & FIELDS Guide to APS



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

A Particle Physicist's PARTICLES & FIELDS Guide to APS



- 3,900 Early Career members
- Undergraduate Women in Physics 6,800 undergrads (~900 added from <u>CUWiP</u> alone)

A Particle Physicist's PARTICLES & FIELDS 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

APS Council



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)



Men who earned physics doctorates (1973-2015)

Stats: NSF DPME

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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



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 _____ & fellow members of Congress to fully fund NSF, NIST, & DOE Office of Science in Fiscal Year 2018 #voice4physics

😏 Tweet

I urge _____ & 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 \$860M for HEP

tact Information	Message
efix (required)	
rst Name (required)	United States Senators
ast Name (required)	
mail (required)	United States Representative
Phone (required)	
Address (required)	RE: Constituent Concern: Support for federal research funding for FY18
:: 123 Main St	As a member of the high energy physics community and your constituent, I
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)	robust funding for federal scientific research, including high energy physics
	Foundation.
(ip (required)	lacrossing support would help maintain U.S. loadership in high approxy
I would like to receive email in the future.	physics by facilitating the community's 10-year strategic plan "Building for
	Discovery," also known as the P5 report. The Senate's \$860 million proposal
SEND	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)
- 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 SCOAP³ with CERN
 - Agreement starting Jan 2018 through 2019
 - Covering Phys Review C, D, & Letters
- Official terms still TBD: announcement expected within 1-2 weeks

SCOAP³ – Sponsoring Consortium for Open Access Publishing in Particle Physics

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!



Backup





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

