SCIENCE AND ADVOCACY: SHAPING LIVES IN PHYSICS

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Shaping <u>My</u> Life in Physics



A Linear Career



A [less] Linear Career?



Recurring Questions



Shape of a Career: Fundamental and Harmonics

My family, December 2019



Shaping <u>Your</u> Life in Physics

Tools and Tactics

- Seek and seize opportunities
- Advocate for yourself
- Find multiple mentors to build a network
- Ask for what you need to succeed
- Accept help gracefully... and help others in turn
- Learn when to declare victory and move on

Openíng Doors so others can shape <u>Theír</u> Líves ín Physícs



LGBT Climate in Physics BUILDING AN INCLUSIVE COMMUNITY



APS Ad-Hoc Committee on LGBT Issues

> Michael Falk (chair) Johns Hopkins University

> > **Timothy Atherton Tufts University**

Ramón Barthelemy APS/AIP Sponsored AAAS Science and Technology Fellow

Wouter Deconinck College of William and Mary

Savannah Garmon **Osaka Prefecture University**

Elena Long University of New Hampshire **Elizabeth Simmons**

Michigan State University

Kyle Reeves University of North Carolina

Monica Plisch Arlene Modeste Knowles

APS Staff Liaisons

Go.aps.org/lgbtphysics

AMERICAN PHYSICAL SOCIETY



Collaborating for 30 years



Shobhana Narasimhan (JNCASR, Bangalore, India) Elizabeth H. Simmons (UC San Diego and MSU, U.S.A.)

Immediately Relevant Topics

Specific Skills	Career Pathways
CV preparation	Picking a research problem
Publishing tips	Transitioning from academe to industry
Negotiation	Workplace challenges
Teaching strategies	Work-Life issues
Writing methods	The culture of physics
Funding opportunities	Careers in different countries

Varied Formats

Lecture, demonstration, panel, Workshop, team assignments, Theatre-based, posters, discussion









Diversity of Speakers

Physics sub-field, Country of origin, Career stage, Gender,

...





Impact

based on survey and post-workshop communications

- Sense of community
- ✤ An enduring network
- Inspiration to persevere
- New directly useful career skills
- Perspective on global context of women physicists
- Plans to share what was learned back at home institution
- Plans to organize a similar conference in home country
- Request for future workshops to benefit more women physicists



Resources:

AIP Statistical Research Center: www.aip.org/statistics/

American Physical Society

Gender Equity Report: <u>www.aps.org/programs/women/workshops/gender-equity/</u> Best Practices: http://www.aps.org/programs/women/reports/bestpractices/

C-LGBT Report: go.aps.org/lgbtphysics

Faculty Family Friendly Edge: ucfamilyedge.berkeley.edu/

Gender Equity Project: www.hunter.cuny.edu/genderequity/

Implicit Associations Test https://implicit.harvard.edu/implicit/demo

lgbt+physicists

Website, with Out and Ally lists lgbtphysicists.org Best Practices Guide: <u>https://arxiv.org/abs/1804.08406</u>

NSF ADVANCE

Portal Website: <u>www.portal.advance.vt.edu/</u> Michigan State's ADAPP-ADVANCE Project: <u>www.adapp-advance.msu.edu/</u> StratEGIC Gender Equity Toolkit: www.colorado.edu/eer/research/strategic.html

WISELI Guide to Inclusive Hiring: http://wiseli.engr.wisc.edu/searchguidebooks.php

More Resources:

Books:

- L. Babcock and S. Laschever [negotiation], Women Don't Ask and Ask For It
- S.E. Page [diversity and teams] The Difference
- C. Steele [stereotype threat] Whistling Vivaldi
- J. Williams & R. Dempsey [patterns of bias] What Works for Women at Work
- E. Ideal & R. Meharchand, eds. [women role models in STEM] Blazing the Trail
- T. Wilson [conscious & unconscious mental processes] *Strangers to Ourselves*
- J.S. Antony & A.M. Cauce & D.E. Shalala Challenges in Higher Education Leadership
- C. Rennison & A. Bonomi Women Leading Change in Academia

Articles:

- Nature special issue: Vol. 495, 7 March 2013
- Inside Higher Ed, column: *Mend The Gap* [E.H. Simmons]
- Inside Higher Ed, column: *Mentoring 101* [Kerry Ann Rockquemore]

Organizations:

- National Center for Faculty Development & Diversity <u>http://www.facultydiversity.org</u>
- MentorNet <u>http://mentornet.org</u>
- National Society of Black Physicists http://nsbp.org
- National Society of Hispanic Physicists http://www.hispanicphysicists.org
- SACNAS <u>http://sacnas.org</u>