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### What is ACS on Campus?



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- Find a job
- Effectively use research tools like SciFinder® and ACS ChemWorx
- Communicate your science

- Write grant proposals
- Build industry partnerships
- Prepare for a changing employment landscape

http://acsoncampus.acs.org

#### **#HeroesofChemistry** ACS Heroes of Chemistry Award

Inspiring Hero Stories



View All Past Recipients >>

2018 Winners:

AstraZeneca



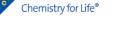
the benefit of humankind.

The **ACS Heroes of Chemistry Award** is the Annual award sponsored by the American Chemical Society that recognizes talented industrial chemical scientists whose work has led to the development of successful

commercialized products ingrained with chemistry for



www.acs.org/heroes



### An individual development planning tool for you!



### **Call for Nominations!**





www.acs.org/fellows

# How Can You Become Involved with the WCC and Advocate for Women Chemists?

- Apply for or nominate a woman chemist for a WCC Award or ACS technical award
- Attend WCC technical or social events at ACS national or regional meetings
- Get involved with your local section, and find out if they have a local WCC or start a local WCC if none exists or is not active
- Reach out to us at national WCC (wcc@acs.org) if you are interested in helping with national WCC efforts.

https://www.womenchemists.sites.acs.org





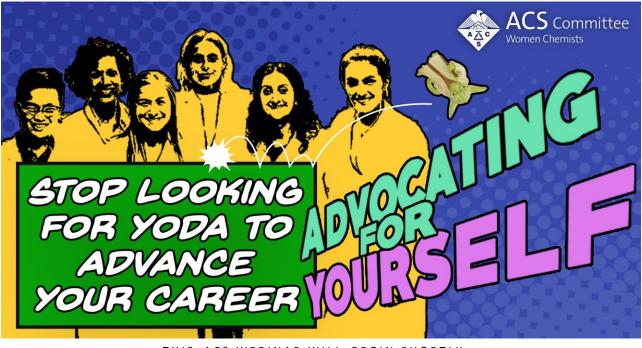








https://www.acs.org/content/acs/en/acs-webinars/drug-discovery/women-compchem.html



THIS ACS WEBINAR WILL BEGIN SHORTLY...





Advocating for Yourself: Stop Looking for Yoda to Advance Your Career



Arny Danja Assistant Professor of Chemistry, Radford University







Slides available now! Recordings are an exclusive ACS member benefit. www.acs.org/acswebinars

This ACS Webinar is co-produced with ACS Women Chemists Committee

# Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT

# Which are the following are actual awards provided for women by the ACS Women Chemists committee?

(Please choose all that apply)

- Rising Star Award
- Eli Lilly Travel Award
- Priscilla Carney Jones Scholarship
- Merck Research Award
- Overcoming Challenges Award

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- Merck Research Award
- Overcoming Challenges Award

September 15th: Spring <u>Ei Lilly Travel Award</u> Appliation Deadline December 1st: <u>Merck Research Award</u> Application Deadline March 1st: Fall <u>El Lilly Travel Award</u> Application Deadline March 15th: WCC <u>ChemLuminary Award</u> Nomination Deadline April 1st: <u>WCC Overcoming Challenges Award</u> Application Deadline May 1st <u>Priscilla Carney Jones Scholarship</u> Application Deadline June 15th: <u>WCC Rising Star Award</u> Nomination Deadline

https://www.womenchemists.sites.acs.org/awardsrecognition.htm

### What does the National WCC do?

- Administers Awards
- Supports Networking Opportunities
- Provides National Meeting Programming
- Highlights the Contributions of Women Chemists
- Advocates for Women Chemists



https://www.womenchemists.sites.acs.org





### Advocating for Yourself: Stop Looking for Yoda to Advance Your Career



Assistant Professor of Chemistry, Radford University







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### Pushpa Murthy, Ph.D.

Associate Provost, Dean of the Graduate School, Michigan Technological University



Michigan Tech



BS – Miranda House, Delhi University
MS – IIT, Kanpur, India
PhD – Brown University, Providence, RI
Postdoc - University of Michigan, Ann Arbor

Research Chemist – Stauffer Chemical Company, Dobbs Ferry, NY

- Visiting Assistant Professor (60%) Chemistry, Michigan Tech Assistant, Associate and Full Professor
- Interim Chair
- Chair
- NSF Program Director, Division of Graduate Education
- \* Associate Dean of Graduate School
- Associate Provost and Dean of Graduate School



Michigan Tech.





# **Challenges and Barriers of Entry**

- Dual career issues started as visiting assistant professor (60%)
- Balancing career and child rearing housework help
- Assuming that workplace is a level playing field ACS COACh workshops
- Lack of knowledge of implicit bias and consequences (became aware of research)

#### What barriers are still present in the workforce?

- Implicit biases
- Women's accomplishments are undervalued
- Leadership is gendered

🚺 Michigan Tech.

- Disciplinary competence
- Good communication skills
- Time management skills
- Develop a 5-year plan (reflect/write on career, personal, family goals)
- Effective negotiating skills know when and what to negotiate for
- Willing to take chances
- Assume leadership positions when opportunities arise
- Develop mentors, allies and a good network

**Skills and Experiences for Success** 

- Don't aim to be a super woman
- Be relentlessly pleasant





3/21/2019







# **Early Career Advice**

- ✤ More aware of the implicit bias literature
- Walk through open doors take chances
- How to advocate for oneself
- Leadership is gendered
- Develop allies, networks and mentors

 Learn to let go -pick your battles – you win some/you lose some – don't beat yourself up on the ones you lose

## HAVE FUN!!!

Michigan Tech.





Michigan Tech







### Audience Survey Question\_

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT

According to a recent UNNESCO Report, what percentage of science technology, engineering, and math researchers globally are females?

- About 20 percent
- About a quarter
- Between a quarter and a third
- About a third
- Almost half

\* If your answer differs from the choices above...tell us in the chat!

## Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT

# According to a recent UNNESCO Report, what percentage of science technology, engineering and math researchers globally are females?

The vast majority of data are presented in headcounts (HC), which are the total number of persons employed in R&D. This includes staff employed both full-time and part-time. The regional averages for the share of female researchers (based on available data only) for 2015 are:

#### 28.8% for World

- 39.8% for Arab States
- 39.5% for Central and Eastern Europe
- 48.1% for Central Asia
- 23.4% for East Asia and the Pacific
- 45.4% for Latin America and the Caribbean
- 32.3% for North America and Western Europe
- 18.5% for South and West Asia
- 31.3% for Sub-Saharan Africa

This fact sheet presents the latest UIS data on research and experimental development (R&D) available as of June 2018.





### **Dorothy Phillips, Ph.D.** Director-at-Large, American Chemical Society

# Why a Chemist



Dorothy J. Wingfield H.S. Class of 1963



- Pearl High School
- NSF Summer Program



### Preparing to be a Chemist

- B.A. in Chemistry
- Ph.D. in Biochemistry







# **Industrial Career**





# My Journey at Waters (1984 - 2013)

A journey with many roads, not all connecting, some with curves, none with straight paths

A journey with many wonderful traveling companions

A journey that led to dreams fulfilled and more





# **Opportunity**

- Just a crack, not wide open
- Having courage
- Taking risk







# Diversity

### Vanderbilt University Launches New Diversity Initiative

Filed in Diversity, Faculty on September 15, 2015

The holder of Dorothy J. Phillips Chair to Support Diversity in STEM will oversee efforts to increase the number of minority students in science, technology, engineering, and mathematics disciplines.

#### The Dorothy J. Wingfield Phillips Endowed Chair

Chancellor's Faculty Fellows



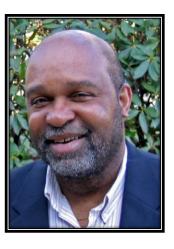


Dr. Audrey Bowden Associate Professor of Biomedical Engineering



**Dr. Renã Robinson** Adjunct Professor, Department of Chemistry

## **Dedication**



James E. Phillips (1946 – 2018)

Love and support for more than 50 years!



## Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT

According to a recent UNNESCO Report, which of the following countries has the greatest share of researchers that are women?

- Mexico
- Germany
- Myanmar (Burma)
- Italy
- France

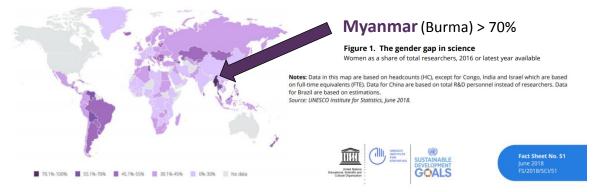
\* If your answer differs from the choices above...tell us in the chat!

## Audience Survey Question\_

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT

According to a recent UNNESCO Report, which of the following countries has greatest share of researchers that are women?

(No data provided for U.S., Canada, and Australia)





### Kathleen M. Schulz, Ph.D. Director-at-Large, American Chemical Society



# **Overview**



# **Career Summary** (40+ Years)

**Details:** 

7 states

Jobs:

9 organizations

Clinical Chemist Instructor Professor

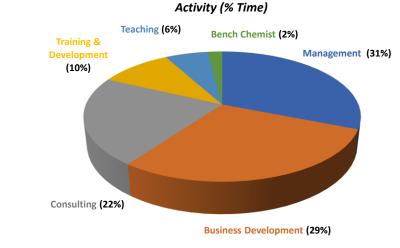
Principal Investigator Tech. Manager Division Director Product Manager Marketing Manager

Systems Engineer

Business Development Manager Consultant-Business Development

Consultant/Small Business Owner

Consultant-Performance Improvement



Themes: Problem-Solving, Possibilities, New Business Opportunities



# What I Learned!





- 1. Be Your Own "Original"
- 2. Take a Chance...Explore "Out of Left Field"
- 3. Obstacles are Normal / Part of the Path
- 4. Ask for What You Want...Why "Settle"?







*"There are no wrong turns, only unexpected paths."* Mark Nepo

> "What worked yesterday is the gilded cage of tomorrow."



"It's always darkest just before dawn."

Miss Seymour (Algebra I Teacher)





"Do not go where the path may lead, go instead where there is no path and leave a trail."



R.W. Emerson





### Advocating for Yourself: Stop Looking for Yoda to Advance Your Career



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https://www.acs.org/content/acs/en/acs-webinars/drug-discovery/women-compchem.html

43

ACS Committee

Nomen Chemists

### WCC Eli Lilly & Company Travel Award 30th Anniversary



- Supports the travel of undergraduates, graduate, and postdoctoral students to present their research at their first national meeting
- Anniversary Events Planned for the Spring and Fall 2019 ACS National Meetings

https://www.womenchemists.sites.acs.org

### WCC Rising Stars Award

- Recognizes female scientists approaching mid-level careers
- \$1000 stipend to attend Spring ACS meeting
- Awards given to females in chemistry orientated fields such as Industry, Government, Non-Profit, Academia









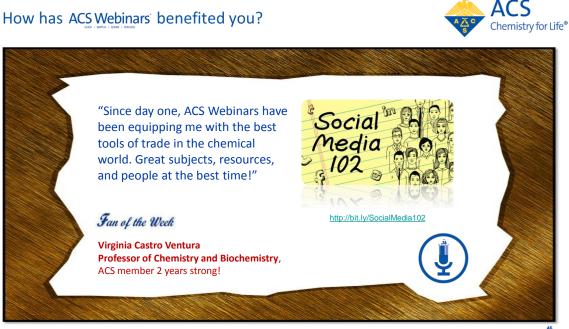


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