

# NOGLSTP *Bulletin*

Winter 2017

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NOGLSTP, PO BOX 91803, Pasadena CA 91109, phone/fax: 626 791-7689, www.noglstp.org

## Come Join us at the Out to Innovate™ Summit for LGBTQ+ People in STEM on March 4-5 !

NOGLSTP is proud to present its signature program, the Out to Innovate™ Summit for LGBTQ+ People in STEM on the weekend of March 4-5 at the DoubleTree by Hilton in Danvers, Massachusetts. All are welcome to attend. Our exciting program consists of:

### Keynote Speakers –

**Victoria Orphan** - Professor of Environmental Science and Geobiology at Caltech, 2016 MacArthur Fellow. She is a geobiologist whose studies of microbial communities in extreme environments are shedding new light on the biogeochemical processes underlying the cycling of nutrients and energy that shape the Earth's climate.

**Raynard Kington** - President, Grinnell College, former acting director of the NIH. His research includes social determinants of health, and more recently, diversity in the scientific workforce.

**Kei Koizumi** - Former Assistant Director for Federal Research and Development and Senior Advisor to the Director for the National Science and Technology Council at the White House Office of Science and Technology Policy (OSTP).

A great lineup of **Out to Innovate™ 2017 Summit Workshops** covering a diverse range of topics. See the complete list of workshops and presenters on page 3 of this issue.

Our spectacular **Gala Awards Dinner** featuring our scholarship winners, NOGLSTP's 2017 Recognition Awards Winners, and a special performance by singer-songwriter Randi Driscoll.

This program only happens every two years, so don't miss it!

You can register by pointing your browser to: [www.noglstp.net/out-to-innovate-2017/registration-and-hotel-arrangements](http://www.noglstp.net/out-to-innovate-2017/registration-and-hotel-arrangements)

## AAAS 2017 Annual Meeting – February 16-20 in Boston

NOGLSTP will be hosting its LGBTQA Scientists Reception again this year at the AAAS 2017 Annual Meeting in Boston. Look for it in the program for Sunday, February 19 from 3-5pm in the Exeter Room of the Sheraton Boston Hotel. Refreshments will be served and the event is free to registered meeting attendees. Local LGBTQ+ STEM people are also welcome to attend.

NOGLSTP's Annual Meeting will not take place at AAAS this year. It will instead be held at the Out to Innovate™ 2017 Summit on March 5.

## Meet NOGLSTP's 2017 Recognition Awards Winners

The NOGLSTP Recognition Awards were established as a means of identifying, honoring, and documenting the contributions of outstanding LGBTQ+ science, engineering and technology professionals, as well as corporations, academic institutions, and businesses that support LGBTQ+ professionals in the fields of science and technology. We are pleased to announce this year's award winners for Educator, Engineer, and Scientist of the Year.

### Dr Anthony Butterfield - NOGLSTP's LGBT Educator of the Year

Dr. Anthony (Tony) Butterfield is an Assistant Professor (Lecturer) in Chemical Engineering at the University of Utah. He has an extensive publication record in both education and engineering journals, and has made a significant contribution to engineering education at the University of Utah. He has been honored twice as an outstanding instructor in his department, has received an award for outstanding teaching from the College of Engineering, and been recognized by the dean of his college as being in the top 15% of faculty in student evaluations for every class he has taught.

Dr. Butterfield has developed a strong mentoring partnership with AMES (The Academy for Math, Engineering & Science) High School, where he conducts a two week course on chemical engineering for their Introduction to Engineering course, and has mentored eight of the school's students as interns. It is clear through his activities outside of the classroom that he is active in the LGBTQ+ community and supportive of LGBTQ+ students at both his institution and in the wider scientific community. He has enabled significant growth for LGBTQ+ students in science and technology through teaching and outreach, and with innovative use of on-line widgets and tools that demonstrate concepts for his courses.

*(continued on p. 2)*



### Inside this Issue:

Page 1: *Out to Innovate™ Preview, AAAS Annual Meeting, NOGLSTP Recognition Awards Winners*

Page 2: *New NOGLSTP Liaison to DiscoverE, MentorNet Partnership with NOGLSTP*

Page 3: *Out to Innovate™ Workshops, Out to Innovate™ Sponsors, Membership Form*

Page 4: *Calendar, DiscoverE Global Marathon, Member Services*

# NOGLSTP 2017 Recognition Awards Winners

(continued from p.1)

## Dr Wolfgang Sigmund - NOGLSTP's LGBT Engineer of the Year

Wolfgang Sigmund is a professor of materials science and engineering at the University of Florida. His research involves advances in modern materials synthesis technologies, including direct casting of ceramics, oxide ceramic nanomaterials, nucleation and growth modeling of metallic nanowires, and aqueous sol-gel processing of transition metal oxides. Sigmund was educated in Germany and Great Britain and then worked in Europe, Asia and the Americas at the Max-Planck Institutes, RIKEN (Japan), Hanyang University (South Korea), and several other universities. He is editor in chief of *Critical Reviews in Solid State and Materials Sciences* and serves on several editorial boards. He has published two edited books, numerous book chapters, and 200+ refereed articles. Sigmund holds more than 40 patents. He has been an organizer of numerous national and international symposia and conferences, including some with focus on LGBTQ+ topics. He is member of NOGLSTP and oSTEM, and is a fellow in three materials societies and one academy.



## Matthew McGill - NOGLSTP's LGBT Scientist of the Year



Matthew McGill of NASA's Goddard Space Flight Center in Greenbelt, Maryland, was chosen to receive this award because of his outstanding achievements in the application of lidar technology in the study of Earth's atmosphere to better understand climate change impacts. Lidar, an acronym for light detection and ranging, is a remote sensing method that uses light from a pulsed laser to measure properties of the

atmosphere. McGill is both a research physicist and the Earth Science Division chief technologist at NASA Goddard. As a research physicist, his focus is on studying the atmosphere. He develops new concepts and prototypes for new instruments, participates in field campaigns, analyzes data from instruments and satellites, writes proposals, and mentors younger researchers. As Goddard's Earth Science Division chief technologist, he advises management on where NASA should make strategic investments, and connects scientists and engineers to make these happen. Since 2000, McGill has served as the principal investigator for the Cloud Physics Lidar, an instrument operating on NASA's high-altitude aircraft which has flown aboard an unmanned Global Hawk aircraft during the Hurricane Severe Storm Sentinel (HS3) mission. He has developed multiple laser

remote sensing instruments, primarily for use on high-altitude research aircraft. In 2011, he led development of the Multiple Altimeter Beam Experimental Lidar (MABEL) instrument to conclusively establish a new approach to measurement of surface elevation as a demonstrator for the ICESat-2 mission. Most recently, McGill led an award-winning team that designed and built the Cloud Aerosol Transport System (CATS) instrument, a low-cost lidar system built as a technology demonstrator on the International Space Station (ISS). CATS uses a laser to study clouds and pollutants in the atmosphere. Launched in January 2015, CATS has been successfully operating on the ISS for two years. McGill has participated in at least 20 field campaigns over the past two decades. His instruments have operated from Costa Rica, South Africa, Iceland, and throughout the continental U.S.

Upon receiving notification of the award, McGill said, "This is truly a unique and prestigious honor. To be recognized from amongst all science disciplines is humbling, and also acknowledges the importance of the work the Earth science community is pursuing. Moreover, to be recognized as a visible member of, and advocate for, the GLBT community provides important recognition of the value of GLBT professionals. Such visibility is particularly important within government agencies, such as NASA."

## Meet NOGLSTP's New Liaison to DiscoverE

Jonathan Dell will be the new NOGLSTP liaison to DiscoverE, stepping into Tim Wilson's big shoes. NOGLSTP would like to thank Tim for his many years of working with DiscoverE on NOGLSTP's behalf as well as many years as a NOGLSTP board member. Jonathan is an engineer at UTC. He provides support for product strategy, proposal development, and technology maturation of generator and motor products for new aircraft programs. Jonathan will help to promote NOGLSTP nominations for DiscoverE's New Faces of Engineering Pro and College Editions and other programming. Thanks you, Jonathan, for volunteering!

## Join MentorNet's Partnership with NOGLSTP Connecting Students with Professionals

MentorNet, a division of Great Minds in STEM, is an open social network for students and professionals. MentorNet is a free, one to one mentoring network that connects STEM students from freshman year through Ph.D. with mentors working in STEM fields. Mentees must attend an accredited U.S. college or university.

If you are a professional, you can connect with a student, mentor the innovators of tomorrow, share your experiences and learn from each other. If you are a student, finding a mentor can make all the difference to your career path. MentorNet can help you find a professional who understands your journey and can help meet your goals and aspirations.

Whether you are a STEM student seeking a mentor or a STEM professional ready to support a STEM student, now is the time to start a mentorship that will enrich you both. Check out this youtube video and find out how it works: <https://www.youtube.com/watch?v=9UPntkr3pYY>. Then register at [mentornet.org](http://mentornet.org) Do it today! Be sure to select NOGLSTP as your organization from the dropdown menu.

## Out to Innovate™ 2017 Summit Workshops

**Being LGBTQ in Academia** - Victoria Orphan, Shana Goffredi, Tim Atherton

**Careers in Research and Medicine** - Carl Streed Jr., Phillip Renzullo, Andrew Hebbler

**Mentoring Handbook** - Eric Patridge

**NSF and NIH Grant Writing** - Ron Buckmire, Mike Nishimura, Jason Yovandich

**Careers in the Corporate World** - Bill Hendrix

**Engineers without Borders** - Jon Mulligan

**Out in the Middle of Nowhere** - Noelle Olsen

**Civic Engagement and Public Advocacy** - Alex Dzurick

**LGBTQ Careers in Astronomy** - Jessica Mink

**LGBTQ Mental Health** - Audrey Reinert

**Trans Visibility in STEM Careers** - Brynn Tannehill

**Careers in Government** - Kei Koizumi

**Demystifying the Application Process** - Audrey Reinert

**Intersectionality Research** - Levi Green

**Investment Strategies for LGBTQ** - TIAA

**NIH Internships and Mentoring** - Sharon Milgram

**Being an LGBTQ Grad Student** - Point Foundation scholars

**LGBTQ Mythbusters** - Stephanie Farrell

**Using Story to Talk about Science** - Aviva Hope, Alison Bruznek, Ari Daniel

**Working in a National Laboratory** - Lady Idos

**How to Network Online Like a Web Journalist** - Kat Friedrich



## Thanks to Out to Innovate™ Sponsors

A big SHOUT OUT to this year's Out to Innovate™ sponsors:

### Platinum:

Battelle Memorial Institute

### Gold:

USC Viterbi School of Engineering

Lockheed Martin

### Silver:

Miltenyi Biotec

BMC Software

### Bronze:

Georgia Tech Research Institute

Lawrence Berkeley National Lab

Sandia National Lab

Purdue College of Engineering Grad Programs

Global Health Fellows Program II

### Associates:

Point Foundation

Higher Education Recruitment Consortium

National Research Mentoring Network

American Chemical Society Diversity Programs

## IS IT TIME TO RENEW YOUR MEMBERSHIP DUES?

Check your mailing label. Your renewal date is in the upper right section of your address block. Your membership number is just to the left of your expiration date. You may renew online at [www.noglstp.org/member-services](http://www.noglstp.org/member-services), or fill out the form below (and on the other side of this page), and return it with your check to NOGLSTP, PO Box 91803, Pasadena CA 91109. You may also use this form to inform us of any address or area code changes. LAGLS and NOGLSTP-CR people: please renew through your re-gional group to enjoy discounts on dues.

### Membership Form

To renew your NOGLSTP membership or become a member of NOGLSTP, complete this form and send it with a check or money order (US Funds only) to: NOGLSTP, PO Box 91803, Pasadena CA 91109.

Annual membership dues enclosed:

- \$40 for working professionals
- \$20 for post-docs
- \$10 for students and unemployed
- \$1000 for Lifetime Membership

Circle payment type:

Renewal      New      Info change only

Date:

Name:

Address (don't forget your zip code!):

Circle newsletter preference:    print    email

Your pronouns:

Telephone:

Email:

URL:

Latest Degree/Subject:

Job Title:

Employer (or school if student):

Alum of (latest degree):

Do you want your name and contact information in the NOGLSTP membership roster (to be released to other NOGLSTP members)?

Yes                      No

Don't forget to fill out the other side →

## DiscoverE Global Marathon



**DISCOVERE**  
**GLOBAL MARATHON**  
MARCH 8-9, 2017  
For, By and About Women in Engineering & Technology

### Mark Your Calendars

- February 16-20: AAAS Annual Meeting, Boston, MA
- March 4-5: Out to Innovate™ Summit, Danvers, MA
- March 8-9: DiscoverE Global Marathon

NOGLSTP is partnered with DiscoverE and serves as a thought leader for Discover E's Global Marathon, which will take place on March 8-9. Register for the 2017 free web-cast at:

<https://vts.inxpo.com/scripts/Server.nxp?LASCmd=AI%3A4%3BF%3AQS%2110100&ShowKey=35808%29&Referrer=http%3A//www.discovere.org/our-programs/global-marathon>

## Member Services

The NOGLSTP member services site allows for self-serve member update and automated renewal notices. This member services area is also the gateway to access protected members-only areas, such as the Membership Roster, the NOGLSTP OutList, the opt-in e-list, and links to our social networking groups on Facebook and Tribe, and our professional networking group on LinkedIn.

Point your web browser to [www.noglstp.org/member-services](http://www.noglstp.org/member-services) and log in to explore or update your profile, or to renew your annual dues. Of course, you're welcome to renew or join the old fashioned way with pen, paper, and check. You can use the clipout form in this newsletter, or fill out a downloadable form from our website. We're happy to have your support any way you want to give it! *Attention LAGLS and NOGLSTP-CR Members: Please renew manually through your regional group and enjoy a significant discount on your NOGLSTP annual dues.*

### Membership Form (continued)

#### Special Techno-interests or expertise:

Please list any other professional societies that you belong to:

Are you a member of any of these groups?

- American Astronomical Society
- American Chemical Society
- L'GASP Lesbian, Gay, Bisexual Audiologists and Speech-Language Pathologists
- LAGLS: Los Angeles Gay and Lesbian Scientists
- Mathematics Association of America or American Mathematical Society
- National Postdoctoral Association
- NOGLSTP-Chesapeake Region
- NOGLSTP at Indiana University
- NOGLSTP at Purdue
- Nuclear Pride
- PrideSTEM at Texas Tech
- San Diego QuEST

For new members: How did you learn of NOGLSTP?

What would you like to help us with?

- Serve on Board of Directors
- Serve as Chair or Secretary
- Help at AAAS events
- Organize or host local event
- Write newsletter articles
- Edit the newsletter
- Speak about/on behalf of NOGLSTP at an event
- Serve on recognition awards committee
- Assist with the Mentoring Program
- Assist with Out to Innovate career summit
- Write a grant proposal
- Evaluate scholarship applications
- Help with fundraising
- Start/represent an LGBTQ+ caucus at my professional society: \_\_\_\_\_
- Don't know, but would like to help with something

### ABOUT NOGLSTP

National Organization of Gay and Lesbian Scientists and Technical Professionals is a 501(c)(3) educational organization and professional society of gay, lesbian, bisexual, transgender people, and allies employed or interested in science, technology, engineering, or mathematics (STEM) fields. NOGLSTP empowers LGBTQ individuals in STEM by providing education, advocacy, professional development, networking, and peer support. NOGLSTP educates all communities regarding scientific, technological, and medical concerns of LGBTQ people. Written correspondence may be addressed to: NOGLSTP, PO BOX 91803, Pasadena, CA, 91109-9813. For more information, see our web site at [www.noglstp.org](http://www.noglstp.org)

#### Board of Directors (append each address with noglstp.org)

Rochelle Diamond, Chair, [rd-chair@](mailto:rd-chair@noglstp.org)  
Chris Bannochie, Member at Large, Augusta GA, [cb-board@](mailto:cb-board@noglstp.org)  
John Burke, Member at Large, Dallas TX, [jb-board@](mailto:jb-board@noglstp.org)  
Marcie Mathis, Member at Large, Bremerton WA, [mm-board@](mailto:mm-board@noglstp.org)

#### Affiliates Representatives:

AAS WGLE: American Astronomical Society Working Group on LGBTIQ Equality: Stephen Lawrence, [wgle@](mailto:wgle@noglstp.org)  
Association of Lesbian, Gay, Bisexual and Transgender Mathematicians rep: David Crombecque, [math@](mailto:math@noglstp.org)  
L'GASP: Lesbian, Gay, Bisexual Audiologists and Speech-Language Pathologists rep: Stephanie Hayes, [lgasp@](mailto:lgasp@noglstp.org)  
LAGLS: Los Angeles Gay and Lesbian Scientists rep: Rochelle Diamond, [rd-chair@](mailto:rd-chair@noglstp.org)  
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**NOGLSTP Bulletin** is published quarterly, most of the time. Contributed articles are encouraged, and may be e-mailed as plain text to [editor@](mailto:editor@noglstp.org). Next publication deadline (for Spring newsletter): **March 31, 2017**. Please acknowledge the **NOGLSTP Bulletin** as your source if you choose to reproduce any of these articles.