



January 2018 Newsletter Volume 4 Number 2

### **TED President Column**

Time to Renew Your Membership and Vote!

By Suzanne T. Metlay, President, NAGT Teacher Education Division

Dear TED Members,

It's Primary time in most states. Depending on where you live, you've either already voted or you are getting ready to cast your ballot in critical races to determine political party candidates for election in November.

TED has important elections coming up as well. We have two excellent candidates for Vice President as well as a roster of incumbents keeping their offices or (per the By-Laws) moving into new positions. Committee chairs will be designated during our Executive Committee meeting in August.



**To vote, you must be a current member of NAGT TED.** To renew your membership, please go to <https://nagt.org/members/>

Vice President candidate biographies are available at [https://nagt.org/nagt/news/2018\\_ted.html](https://nagt.org/nagt/news/2018_ted.html)

- See below for full text of the candidates.

Thank you to those who expressed interest in the Vice President position. If you are not on the ballot, it is because you missed the nomination deadline or did not meet the requirements stated in the TED By-Laws. We value your interest and look forward to working with you more over the next year.

NAGT uses an election process that includes a nomination committee. The nomination committee reviews all nominations for officers and makes a recommendation to the membership. Individuals on each ballot are being recommended to the membership for office. You also have the option of writing in a candidate for any office.

**Pick up your NAGT TED luggage tag at Earth Educator Rendezvous 2018** during 16-20 July ([https://serc.carleton.edu/earth\\_rendezvous/2018/index.html](https://serc.carleton.edu/earth_rendezvous/2018/index.html)) or **GSA-Indianapolis** during 4-7 November (abstracts due 14 August: <http://community.geosociety.org/gsa2018/science-careers/sessions/abstracts>).

Please join us for our next **TED Executive Committee meeting on T 14 August at 4:00pm PT/7:00pm ET**. Please email me at [suzanne.metlay@wgu.edu](mailto:suzanne.metlay@wgu.edu) for Zoom room info and meeting materials.

Thank you for your membership, your vote, and your active engagement with TED. We are here for you and with you.

Suzanne T. Metlay, President, Teacher Education Division, National Association of Geoscience Teachers

#### Elected Officers

President Suzanne Metlay, Western Governors University  
Vice-President Eric Pyle, James Madison University  
Secretary-Treasurer Peggy McNeal, Western Michigan University  
Newsletter Editor Steve Mattox, Grand Valley State University

#### Ex Officio Officers

NAGT Executive Committee Liaison – Kathy Ellins, University of Texas at Austin  
NSTA Liaison – Paul Adams, Fort Hays State University

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#### **2. Meet the Candidates for Vice President**



Laura Hollister

**Laura Hollister** is a veteran geoscience teacher of sixteen years and currently teaches A.P. Environmental Science and the Living Earth at Pitman High School in Turlock, California. Laura also has experience teaching Geoscience, Astronomy, Physics, Physical Science and Integrated Science. In 2009 Laura was

named the Outstanding Earth Science Teacher for the Far West Section of the NAGT. Laura is the co-author of three NAGT Far West Section Filed Guides: Geology and Climatology of the Saddlebag Lake Region, Tioga Pass, California, Fall 2012; Geology of Lava Beds National Monument, Fall 2007; and the Geology of Del Puerto Canyon, Central Diablo Range, California Fall 1998. Prior to becoming a High School Educator Laura worked as a consulting Environmental Geologist out of the San Francisco Bay Area.

**Education:** B. S. in Geology, California State University, Stanislaus; M. S. Geosciences, Mississippi State in progress.

**Professional Experience:** Making Sense of Science i3 Grant Project Teacher Leader; California Science Project Teacher Leader, Stanislaus County High Schools; NASA-ASU-AGI Triad Leadership Training at Arizona State University and Jet Propulsion Lab, 2012—2013



Christopher Roemmele

**Christopher Roemmele** is an assistant professor of Earth and Space Sciences at West Chester University of Pennsylvania. He teaches all the science methods to all levels of education majors, and introductory geology. As a former classroom teacher for 15 years, Christopher's interests lie in understanding how course content, activities, and the instructional techniques initiate changes in students' affective behavior and level of understanding of geology, thereby begin to mitigate "geologic blindness." He received a grant to develop a series of instructional resources which include videos of demonstrations and virtual reality field trips, in order to study how they assist and improve student conceptualization and appreciation of geology. Additionally, Christopher is pursuing research on pedagogy in secondary science methods courses, particularly the coverage of instructional and non-instructional practices.

**Education:** B.A. Geosciences, Franklin and Marshall College; M.A. Science Education, Kean University of NJ; PhD. Earth, Atmospheric, & Planetary Sciences – Geoscience Education, Purdue University.

**Professional and Teaching Experience:** Assistant Professor of Earth and Space Sciences, West Chester University of Pennsylvania (2017 – present); former secondary and middle grades earth science teacher for 15 years in NJ; GK-12 Program Coordinator at Purdue University; Assessment Specialist for ETS; Project geologist for environmental and geotechnical consulting firm. Former President, Newsletter Editor, Board Member of NJ Earth Science Teachers Association; presently member of NAGT – Eastern Section; GSA Geoscience Education Division; NSTA, NESTA, PAESTA. Master Teacher/Consultant for Temple University's Science Learning Research Group's Model-Evidence-Link Project

### 3. Towards Inclusion of All Learners through Science Teacher Education

Editors: Michele Hollingsworth Koomen, Sami Kahn, Christopher L. Atchison and Tiffany A. Wild

*Towards Inclusion of All Learners through Science Teacher Education* serves as an indispensable resource for teachers and teacher educators wishing to understand how to educate students with exceptionalities in science. This book begins with the voices and stories of the experts: current and former K-12 students with disabilities sharing their experiences in science education classrooms. The voices of students with disabilities are then connected to the work of leading experts in the area of science education for individuals with disabilities in an effort to address the goals of national reform documents by ensuring rigorous science experiences for all students. It is written in a highly accessible and practical manner, making it ideal for all educators including pre-service and in-service teachers, teacher educators, researchers, and curriculum developers. For more details and to order a copy visit: <https://brill.com/view/title/38174>

### 4. Nominate a Peer for the 2018 Inclusive Geoscience Education and Research Award

The International Association for Geoscience Diversity is currently accepting nominations for the 2018 Inclusive Geoscience Education and Research Award. The nomination and selection process is provided at <https://theiagd.org/inclusive-geoscience-education-and-research-iger-awards/> Deadline for nominations is October 1.

### 5.Support the Sherry Oaks Memorial Fund

By Suzanne T. Metlay, President, NAGT Teacher Education Division, and the Morea family

Please consider giving to the **Sherry Oaks Memorial Fund** in memory of Sherry Diane Morea Oaks, Ph.D., who died unexpectedly of natural causes on 10 April 2018. Funds will be directed to travel grants for qualified candidates to participate in the 2019 Earth Educator Rendezvous. If you choose to donate, please go to <https://nagt.org/nagt/membership/donate.html> - select "Professional Development Fund", enter the desired amount, and write in the "Comments" box: *Sherry Oaks Memorial Fund*.

#### Professional Development Fund

Supports professional development activities including websites for educators

☐ \$25 ☐ \$50 ☐ \$100 ☐ \$250 ☐ \$500

Other amount:

[► Show additional donation options](#)

Comments about your donation:

A memorial service for Sherry Oaks will be held in Boulder, CO, in June.

She earned both her Master of Arts in History (1982) and her PhD in Geography (1987) from the University of Colorado at Boulder. Her doctoral research, titled *Historical Earthquakes in Salt Lake City, Utah*, was published as a U.S. Geological Survey professional paper and earned her a position as a national finalist for the Association of American Geographers Nystrom award.

Early in her career, Sherry served as a Congressional Science and Engineering Fellow in the Washington, DC, office of U.S. Representative George Brown, Jr. (CA). As an Earth System Science Fellow with Pennsylvania State University, she participated with United Nations University, Tokyo, on global climate

change science and policy. At the U.S. Geological Survey, she researched the 1989 Loma Prieta (CA) earthquake and participated in research for the National Earthquake Hazard Reduction Program.

Sherry continued her focus on earthquakes, risk assessment, and natural hazard mitigation as a post-doctoral research fellow in the Center for Earthquake Engineering Research at State University of New York at Buffalo; an ISOP fellow at the University of California, Los Angeles, where she was a principal investigator for Hazard Mitigation and Coastal Zone Management in Mexico and Central America; and as an assistant professor at Colorado State University, Fort Collins, where she was a founding member of the Latin American Center for Science and Technology Cooperation and director of the Colorado Multi-Hazards Program.

When multiple sclerosis limited her ability to work full time, Sherry remained engaged in her profession. She consulted on academic products, on editing for journals and academic presses, including Columbia University Press, and on numerous peer-reviewed articles. She served as part-time faculty at the Metropolitan State College of Denver (now Metropolitan State University) and the University of Colorado at Denver.

More recently, Sherry was adjunct faculty at Front Range Community College (CO) and contracted with academic testing companies including Educational Testing Service (ETS), Pearson, and Measured Progress. She also privately tutored high school and college students, and served as a mentor and judge for the Colorado Space Grant Consortium. In 2015, Sherry presented at NAGT's first Earth Educator Rendezvous in Boulder.

By 2018, Sherry had her Colorado teaching license and a fulfilling vocation as a substitute teacher in the St. Vrain Valley School District. She actively engaged with NAGT's Geosciences for Two-Year Colleges (Geo2YC) Division and served on the Advocacy Committee at the time of her death. Her strong network of colleagues in the geosciences and education communities are mourning her loss.

## **6. TED & NESTA at GSA-Indianapolis**

Suzanne Metlay, TED President

GSA-Indianapolis will take place during 4-7 November 2018, with K-12 teacher workshops starting on 2 November: [http://www.geosociety.org/GSA/Events/Annual\\_Meeting/GSA/Events/gsa2018.aspx](http://www.geosociety.org/GSA/Events/Annual_Meeting/GSA/Events/gsa2018.aspx)  
Technical session proposals were due 1 Feb, with at least 2 sessions proposed by NESTA with NAGT-TED involvement. Please contact the session co-chairs for more info. ***We look forward to your active participation in these sessions! Abstracts are due 14 August.***

### **Collaborative Partnerships between K-12 Teachers/Informal Educators and Scientists**

Session ID#: 45539

**Advocates:** Susan Meabh Kelly ([susankelly.ct@gmail.com](mailto:susankelly.ct@gmail.com)), Carla McAuliffe ([carla\\_mcauliffe@terc.edu](mailto:carla_mcauliffe@terc.edu)), Suzanne Metlay ([suzanne.metlay@wgu.edu](mailto:suzanne.metlay@wgu.edu)), Peggy McNeal ([peggy.m.mcneal@wmich.edu](mailto:peggy.m.mcneal@wmich.edu)), Michael Passow ([michael@earth2class.org](mailto:michael@earth2class.org))

**Sponsor(s):** National Earth Science Teachers Association; National Association of Geoscience Teachers - Teacher Education Division

#### **Description:**

This session is dedicated to sharing education/outreach efforts that are the product of scientists collaborating with K-12 teachers and/or informal educators.

**Rationale:**

K-12 outreach is a common avenue for scientists to demonstrate broader impact. In recent years, parallel initiatives to strengthen and sustain the STEM "pipeline" have provided additional impetus for scientists to connect with local schools. The purpose of this session is to share experiences to inform future partnerships. This session highlights education/outreach efforts that possess all of the following characteristics: (1) involve K-12 classroom teachers/informal educators and scientists; (2) are the result of a two-way exchange of professional expertise; (3) support opportunities for authentic K-12 student research and/or classroom integration of recent science research. Activities that address pressing initiatives (e.g. NSF broader impact criteria, Next Generation Science Standards, inclusive/diverse geoscience workforce) and provide examples of student research are especially encouraged.

**Speaker List:**

Julie Brigham-Grette has accepted an invitation to be an invited speaker for session 45539. Dean Moosavi and Michael Passow are also possible speakers.

**Exploring the ART in E(ART)h Science**

Session ID#: 45550

**Advocates:** Michael Passow ([michael@earth2class.org](mailto:michael@earth2class.org)), Belinda E. Jacobs ([bjrockgirl11@gmail.com](mailto:bjrockgirl11@gmail.com)), Carla McAuliffe ([carla\\_mcauliffe@terc.edu](mailto:carla_mcauliffe@terc.edu))

**Sponsor(s):** National Earth Science Teachers Association

**Description:**

How important were contributions of artists traveling with scientists or recording landscapes far beyond the experience of the general public in establishing Earth Science? Perhaps without Art, there might not have been Earth Science?

**Rationale:**

Almost from its beginnings, artists have accompanied scientists in such pioneering expeditions as Hutton's visit to Siccar Point, Darwin on the "Beagle," Colvin's Adirondack explorations, and many others. What was the impact of William Smith's geologic maps, which are a form of art? The "Hudson River School of Painting" greatly expanded public awareness of distant locations and enhanced their value as part of national assets. In the early 20th Century, collecting expeditions by the American Museum of Natural History and others included artists who captured the scenery where animals were bagged, and then created the dioramas in the exhibit halls that still fascinate museum-goers. Given the proliferation of electronic imaging today, it is worth pausing and looking back at the importance of drawing and painting in establishing the Science of Earth.

**Possible Speaker List:**

Michael Passow, David Mogk, Kathy Ellins