



# **National Association of Geoscience Teachers**

## **2016 Annual Report**

Prepared for the 2016 Annual Meeting

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## 2016 Year-end Report for NAGT – Randall M Richardson, President

1 August 2016

I became President at the 2015 GSA meeting in Baltimore. My efforts as NAGT President for 2016 have been concentrated in the following areas:

1. Providing leadership for the organization, especially in the following areas:
  - a. Chair, ExCom; Member, Council
  - b. Chair, 5 Year Review of the NAGT Executive Director
  - c. Providing guidance for the JGE and ITT Editor Searches
  - d. Providing guidance for the Advocacy Committee
  - e. Working with the Executive office on a range of initiatives, from Membership to Sections and Divisions, finances, awards, and programming
  - f. Chair, Neil Miner Award Committee
  - g. Helping in ongoing efforts to build more robust relationships with other organizations, including AGU, GSA, NESTA, and AGI, for example
2. Helping to better structure Presidential Line activities/experiences so that the President is prepared as well as possible to be effective during their (short) one year term
3. Activities at National Meetings (GSA, AGU, and Earth Educator's Rendezvous)
4. Service on NAGT Committees (Website Planning Committee, Investment Committee) and in other support capacities

In a little more detail:

1. a. Chair, ExCom; Member, Council  
As chair of ExCom, I helped set the agenda and ran all virtual meetings as well as the face-to-face meeting in April in Tucson. As a member of Council, I have worked with VP Anne Egger and the Executive Office to make sure Council and ExCom meetings complement each other.
- b. Chair, 5 Year Review of the NAGT Executive Director  
I helped identify a committee for the review, helped establish the review procedure, worked with the committee to solicit feedback from ExCom, the JGE and ITT editors, past presidents, and the presidential line, as well as from the Executive Director. We are one track to complete the review and make a recommendation to the ExCom.
- c. Providing guidance for the JGE and ITT Editor Searches  
I helped identify the chair, ExCom Councilor at Large Mike Phillips, and with others identified and invited individuals to serve on the search committee for the next editor for ITT. I met with those committee members in attendance at the

Earth Educators' Rendezvous in Madison, as well as with the current ITT editor, Cindy Shellito.

I helped identify the chair, VP Anne Egger, of the search committee for the next editor for JGE. At the Earth Educators' Rendezvous in Madison, several of us met with JGE Editor Kristen St John. With chair Anne Egger and others we began the process of identifying committee members to invite to serve.

d. Providing guidance for the Advocacy Committee

One of the newest programming efforts of NAGT, the Advocacy Committee is working to develop guiding principles and procedures. I have worked with the chair, 2<sup>nd</sup> VP Don Duggan-Hass to help ensure that the process moves forward smoothly and productively.

e. Working with the Executive office on a range of initiatives, from Membership to Sections and Divisions, finances, awards, and programming

One of the most rewarding aspects of my service this year as President has been working with the Executive Office, both the Executive Director and the Assistant Director. The Executive Director has a vision for NAGT, and the Assistant Director is knowledgeable, organized, and a great addition to the Executive Office. Together we worked on Membership (unfortunately below budgeted targets) and supporting the Sections and the newer Divisions. With the new Treasurer and the new NAGT business person, we have been working to establish a solid funding model for NAGT in a changing publication environment, one where ExCom can more easily satisfy its fiduciary responsibility. NAGT Awards recognize exemplary service in geoscience education, and I have enjoyed working with the Executive Office to help improve the number and quality of nominations, an ongoing effort. Finally, in terms of programming, I have tried to provide guidance to new programming efforts (e.g., Advocacy Committee, and as a member of the Website Planning Committee), and am supportive of Executive Office efforts to establish a life-cycle process for all programming efforts.

f. Chair, Neil Miner Award Committee

As chair of the Neil Miner Award Committee I helped run the process this year that both identified an outstanding recipient and emphasized challenges in the nomination process.

g. Helping in ongoing efforts to build more robust relationships with other organizations, including AGU, GSA, NESTA, and AGI, for example

NAGT exists in an organizational universe that includes super powers that can dominate publication decisions with their size and reach, to smaller organizations that continue to serve their geoscience education communities. Because of my previous roles with AGU and GSA, I feel that I can continue to help build relationships with such larger organizations, and because of my involvement in NAGT, can help build relationship with smaller organizations. For example, at both Earth Educators' Rendezvous meetings I have been involved in meetings with NESTA, at GSA meetings I have been part of meetings with GSA leadership and their Education Division/Committee structures, and will co-lead a recruitment and retention workshop for underrepresented students at Fall AGU.

2. Helping to better structure Presidential Line activities/experiences so that the President is prepared as well as possible to be effective during their (short) one year term

One of my goals this year has been to make sure that future Presidents are as prepared as possible to serve NAGT during their terms. I explored other organizational approaches to their presidencies, including two year presidential terms at organizations such as AGU. I led a discussion of the pros and cons of a two year presidency for NAGT at the face-to-face ExCom meeting this year, and accepted that the required change to the NAGT constitution would create more work than was justified at this point. I still feel that if changes in the NAGT constitution are required at some point in the future, then a two year presidency should be considered again. Out of these discussion have come efforts to better define what experiences and activities would best prepare individuals to serve as president, and I have been working with the Executive Office and the presidential line to develop guidelines and practice for the presidential line.

3. Activities at National Meetings (GSA, AGU, and Earth Educator's Rendezvous)

The national GSA meeting is where the NAGT presidency begins and ends, and I have tried to use this national meeting to serve NAGT, through such activities as the awards luncheon, ExCom and Council meetings, AGI Affiliated Society meetings, and meeting with the GSA leadership as part of an NAGT team effort to continue to build our relationship with GSA. At AGU meetings I try to be an NAGT presence/advocate, serving at the booth, for example. This fall I will co-lead a workshop on recruiting and retaining underrepresented students. At the inaugural and second Earth Educator's Rendezvous meetings I have visited as many of the sessions (oral and poster), panels, plenaries as possible to be a visible reminder of the support of NAGT for the Rendezvous.

4. Service on NAGT Committees (Website Planning Committee, Investment Committee, Neil Miner Award, Advocacy) and in other support capacities

Committee service is an integral part of the preparation for being president, and continues to be important as president. I served on a number of NAGT committees, including Website Planning Committee, Investment Committee, Neil Miner Award, and Advocacy, trying to be both an active member and member of the presidential line. Other support capacities included signing NAGT letters as appropriate, reviewing and making recommendations on requests that NAGT sign on to various letters/statements from other organizations, and helping to resolve issues that arise as needed.

**NAGT Annual Report 2016**  
**Anne Egger**  
**Vice President**  
**Report prepared July 25, 2016**

**NAGT Executive Committee work:**

As part of the April 2016 executive committee meeting, the presidential line met with the executive director and assistant director for strategic planning purposes. As a follow-up to that meeting, we established regular phone calls of that same group in order to monitor progress on the many initiatives that emerged from that strategic planning.

**NAGT Council work:**

I led the Council meetings over the past year. Participation in these improved over the previous year; by expanding the meeting time from 60 to 90 minutes, we were able to incorporate more opportunities for sharing information across sections and divisions about what they are doing well and how they can learn from each other. At each virtual meeting, we gave two sections, divisions, or committees 10 minutes to share more about what they do. Over the past year, we heard a bit more from:

- Pacific Northwest Section (Cassie Strickland)
- Southeastern Section (Christy Visaggi)
- Geoscience Education Research Division (Nicole LaDue)
- Field Camp Scholarship committee (Erica Zweifel, in for Laurel Goodell)

**NAGT Committee work:**

- *Professional Development Planning Committee*
  - Committee name: I (and others) have called this the “workshop planning committee” in the past, but that is not correct. The committee’s scope includes workshops, the website and any professional development offerings of NAGT.
  - Site review: The PD committee held regular teleconferences through the spring to establish a review process for sites. We developed a rubric and guidelines for reviewers, attached at the end of this report. I (Anne Egger) led a review camp at the 2016 Earth Educators’ Rendezvous with 9 reviewers. By the end of the camp, three reviews were completed for 19 sites and two reviews were completed for 7 sites. Although some of these older sites will be deemed exemplary, a greater utility of the review process will be helping future projects plan to be exemplary and pass the review process from the beginning. As of the writing of this report, the final reviews have not yet been completed. Once they are, however, I (in consultation with the committee and SERC staff) will determine the best course of action for contacting site authors and developers with the results of the review. Because the authors/developers were not notified that their sites would be part of the review process, we will base our decisions to contact them with results on several factors, including the nature of the original project.
  - Teach the Earth: At the Earth Educators’ Rendezvous, Sean Fox presented his concepts around the new Teach the Earth website, which will be NAGT’s portal to all things of interest to geoscience educators. The committee gave feedback and ideas; the goal is to have a prototype available for testing at GSA in September with a complete roll-out by AGU.

- New subcommittee: Given the expansion of oversight that NAGT will now have with Teach the Earth and the reviewed collections, the PD committee decided to establish a new website committee that will be led by a member of the PD committee and will include representation from the review camp leaders, K-12 educators, undergraduate educators, and informal educators, as well as sections and divisions.
- Grad student workshops: We cancelled some of our workshops at GSA and AGU last year as a result of low enrollment. It was particularly disappointing to me that enrollment was very low for the workshops targeted towards graduate students and post-docs. It seems that GSA and AGU are not the best venues for these workshops, and we should consider other possibilities, including the traveling workshops program.
- *Traveling workshop program: Courses*
  - Most of the applications coming in for the traveling workshops are for departments, so the courses workshop was offered only twice last year. We hope to more broadly promote this workshop through InTeGrate and other opportunities.

**Liaison activity:**

- As liaison to the Pacific Northwest section, I communicated with the leadership about membership and sent individual emails to lapsed members that I knew personally. I also suggested personally to grad students in my department who are starting to do some adjunct teaching at community colleges that they should join NAGT, and received a very positive response.
- I was unable to attend the annual meeting of the section this year.

**Conference/meeting participation:**

- GSA Annual Meeting, Nov. 1-4, 2015, Baltimore, MD
  - Participated in ExCom, Council, and TED meetings
  - Met with AGI to discuss publications and other ways to collaborate
  - Staffed the NAGT booth
  - Attended the NAGT awards luncheon and was the citationist for Nick Zentner, who received the Shea award
  - Panel member for the NGSS Town Hall, one of the components of NAGT's NGSS initiative
- AGU Fall Meeting, Dec. 14-18, 2015, San Francisco, CA
  - Panel member for a second NGSS Town Hall
  - Staffed the NAGT booth
  - Participated in the GeoLEAD workshop, an initiative of AGU that includes NAGT as a member organization—at the workshop, all of the partner organizations heard about the progress GeoLEAD has made and gave feedback. As a result of our participation, they added education research as an option for students in the Virtual Poster Session.
- Earth Educators' Rendezvous, July 18-22, 2016, Madison WI
  - Led site review camp to develop reviewed collection of sites for Teach the Earth
  - Met with EER 2017 conveners to establish planning committee for next year
  - Met with NESTA leadership to discuss ways to continue to collaborate
  - Met with leaders of traveling workshops (both courses and programs) to discuss progress and the ways forward for those programs



### **Upcoming Activities**

- We are preparing to launch the fourth survey of teaching practices among geoscience faculty in the fall. We are currently working to revise the survey around research questions of interest.
- We are pursuing avenues for developing a graduate certificate for participation in NAGT-sponsored professional development opportunities. We plan to submit a proposal to NSF to fund this project once NAGT has a Fastlane account.

Don Duggan-Haas  
2<sup>nd</sup>-Vice President Annual report  
Fall 2016

Over the past year, my primary area of focus has been work with the Advocacy Committee. I've also led a number of workshops and similar activities, and served on the JTPC.

#### Advocacy Committee:

- The **NAGT Advocacy Committee** (which I joined upon appointment as 2<sup>nd</sup> VP and now chair) is in the process of finalizing advocacy principles and developing a more structured list of responsibilities for the committee, a timeline on which those tasks need to be completed, and terms for committee members. The responsibilities for this committee for the 2016-17 year are:
  - Finalize Advocacy Principles document, defining how what issues are selected for action and describing the nature of actions taken;
  - Define committee structure including membership terms, number of members, how members are selected, and how they interact with the bodies they represent.
  - See: <http://nagt.org/nagt/about/workspaces/advocacy/principles.html>

#### Short Courses, Workshops, and Related Activities:

- At the 2015 GSA meeting, all but two of the NAGT/Geoscience Education Division sponsored short courses failed to attract enough participants to run. An aspect of this is likely the short courses falling on October 31 – Halloween. The two short courses that ran were our (Duggan-Haas, Ross, Dolphin, Kissel, Berbeco, Mandia) pair of short courses on teaching controversial issues. This was the third year the courses were offered and they are offered again for the 2016 meeting, with a slightly different title and cast of instructors.

#### Joint Technical Program Committee for GSA:

- The 2016 GSA Annual Conference will include **359 Geoscience Education abstracts** in:
  - Four full-day topical oral sessions,
  - Eight half-day topical oral sessions,
  - Nine topical poster sessions,
  - One half-day oral geoscience education discipline session,
  - One poster geoscience education discipline session
  - Three proposed oral sessions failed to attract a sufficient number of abstracts. Abstracts were strategically placed into other sessions, with some sessions modifying session titles.
  - (Numbers compiled by Shane Smith, GSA Geoscience Education Division 1<sup>st</sup> Vice Chair)
- I will co-chair the oral Geoscience Education Discipline Session with Natalie Bursztyn, GSA Geoscience Education Division 2<sup>nd</sup> Vice Chair.

- No sessions were proposed that addressed diversity in the geosciences, though a few abstracts addressing diversity were in the discipline pool. It may be appropriate to recruit session advocates for such a session in 2017.

In addition:

I engaged in the following activities:

- I participated in the website review Boot Camp at the Rendezvous, to begin to get up to speed on how NAGT manages its online resources;
- I represented NAGT at the Northeast NAGT meeting at the Northeast GSA Conference;
- Distributed NAGT resources, most notably the *In the Trenches* fracking issue at our (Duggan-Haas, Taber, Ross, and Pyle) session at NSTA, and at the GSA short courses on teaching controversial issues (see above);
- I represented NAGT at the Geology NESTA Share-a-thon at NSTA, distributing NAGT swag to more than 100 participants; and;
- Served as the Executive Committee liaison to the Central Section.

## Annual report - Aida Awad - Secretary/Treasurer 2016

My tenure as NAGT Secretary / Treasurer began at GSA in November 2015. The focus of the GSA meeting for me was to: insure a smooth transition from the term of the acting Secretary / Treasurer to my term; and to represent NAGT at the various events and sessions focusing on NGSS. Events that I attended and participated in at GSA Baltimore included:

- meet and greet past NAGT presidents to learn about their views related to ongoing NAGT efforts in the community and present a report on the past year's efforts related to engaging the geoscience education community around NGSS ESS implementation efforts
- liaison to the GSA Education Committee and continue in ongoing discussions of NAGT's role in the GSA Action Plan
- present an invited talk: ESS in NGSS: the work of a diverse community toward full implementation
- attend AGI Associated Societies meeting
- participate in the NAGT Exec Comm and NAGT Council meetings including taking minutes and giving the Treasurer's report
- co-convended the Town Hall meeting: "Next Steps for the Next Generation Science Standards in Earth and Space Science"
- worked in the NAGT booth

Attended AGU in December 2015. My focus at this meeting was to represent NAGT at the various events and sessions focusing on NGSS. Events that I attended and participated in at AGU San Francisco included:

- invited talk co-author: Implementing K-12 Geoscience with the Next-Generation Science Standards II
- co-convener: AGU GIFT Workshop: "Teaching Mineral Resources with an Emphasis on NGSS Practices & Crosscutting Concepts"
- co-convended the Town Hall meeting: "Next Steps for the Next Generation Science Standards in Earth and Space Science"

The Summit on the Implementation of the NGSS at the State Level was co-convended by the two NAGT Past Presidents, Aida Awad and Susan Sullivan, and Ed Robeck from AGI during the spring of 2015. A close collaboration and shared common goals for the Summit served to strengthen ties between NAGT and AGI around full implementation of the Earth & space science in NGSS. As a result of the Summit, ongoing collaborations have developed between NAGT and GSA, AGU, NESTA, AGI, and others around NGSS. During the fall of 2015 we established an NGSS-ESS Working Group. The charge of the working group is to:

- Encourage and keep track of the community discourse around NGSS-ESS
- Monitor areas of need and opportunities that relate to support of the NGSS-ESS community
- Work with a broad range of organizations that support schools and teachers, to facilitate those organizations working directly with formal and informal educators
- Coordinate the flow of information so as to encourage action around emerging and time-sensitive issues
- Consider actions that are appropriate responses to opportunities such as disseminating new resources, accessing funding, and maintaining ongoing and coordinated effort and communication

- Develop and organize a monthly webinar series focusing broadly on topics related to NGSS implementation. Webinar topics include:
  - Maintaining the Momentum
  - Helping Educators Use Your Resources
  - Assessment Strategies for NGSS ESS
  - Supporting Elementary Teachers with NGSS
  - Building a State Coalition for NGSS ESS
- Explore the possibility of a follow-on Summit in 2017
- Contributed to the Five year Executive Director's Review
- Co-author on three abstracts submitted to GSA 2016.

In my role as Secretary/Treasurer I

- Collaborated with SERC staff and the Executive Director to attend to the recommendations of the Clifton Allen Larsen review. This is the first financial review that NAGT has had since 2007. Based off of CLA's recommendations, I am now reviewing monthly credit card charges by the Executive Office staff and quarterly NAGT financials in an oversight role.
- Worked with the Executive Director and her staff to develop the FY17 budget and presented it to the Executive Committee at the face to face meeting in April 2016.
- Participated in the nominating committee
- Participated in the Neil Miner Award selection
- Reported to the Executive Committee on the calendar year-end status of the Oakmark accounts. I am currently working with the Investment Committee on this year's fiscal year end income from the Oakmark account based on the details that are outlined in the endowment policy.

Associated projects: InTeGrate Assessment team member. NGSS & Climate Change / Sustainability teacher mini-ret workshop OSEP, Northwestern University.

Finally, I participated in the virtual Executive Committee and Council meetings including providing the Treasurer's Report, and taking Minutes in January 2016, at the face-to-face spring meeting in April 2016, and for the virtual Executive Committee and Council meetings in June and August.

**NAGT Year-End Report  
(Fall/Spring) 2016  
James D. Myers  
Past-President, 2015-2016  
5-Aug-16**

**NAGT Executive Committee work:**

- meetings attended
  - annual ExComm meeting, Baltimore, MD, 1-Nov-15
  - NAGT Pas-presidents breakfast, Baltimore, MD, 2-Nov-15
  - GSA/AGI Associated Societies Meeting, Baltimore, MD, 1-Nov-15
  - AGI/NAGT Leadership Meeting, Baltimore, MD, 1-Nov-15
  - NAGT ExComm face-to-face meeting, Tucson, AZ, 15-Apr-16
  - Virtual ExComm meeting, 11-Jan-16
  - Virtual ExComm meeting, 6-Jun-16
- assigned tasks
  - new officer nominations

**NAGT Council work:**

- meetings attended
  - Council Meeting, Baltimore, MD, 1-Nov-15
  - Virtual Council meeting, 21-Jan-16
  - Virtual Council meeting, 13-May-15

**Conference/meeting participation:**

- GSA National Meeting
  - November 1-4, 2015

**Other activities relevant to NAGT:**

- NAGT/USGS Coop – Summer field internship, Baltimore, MD, 1-Nov-15
- NAFT/GSA/CUR luncheon, Baltimore, MD, 3-Nov-15
- Meeting with GSA Executive Director, Baltimore, MD, 3-Nov-15

**NAGT Committee work:**

- NAGT Miner Award committee, 18-May-15



# National Association of Geoscience Teachers

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Dr. Randy Richardson  
President, National Association of Geoscience Teachers

August 2, 2016

Dear Randy,

You asked that I prepare a short response to the following: “As you think back over the previous 5 years since your last 5 Year Review in 2011, could you

1. List what you feel have been your major achievements as NAGT Executive Director
2. How do you feel that you have advanced NAGT?
3. What is your vision for NAGT over the next 5 years (goals and challenges).”

Reviewing the reports that I have written to the Executive Committee during the past five years I find several consistent themes both regarding goals and accomplishments. In particular, during this interval I have advanced NAGT and strengthened its ability to improve teaching and learning about the Earth by

- Creating a sustainable national office that can support NAGT and its activities as it moves into the future
- Putting in place new structures for member interaction and activity that increase the capacity of the organization
- Developing new models that link programming to revenue generation in ways that can sustain activity
- Strengthening national recognition of the organization and its activities within both the geoscience and STEM education spheres

Below I list the largest accomplishments or achievements in these areas. These are not my accomplishments alone, but were achieved through work with NAGT, leadership, volunteers, and staff.

- We built upon the establishment of the 2YC Division to support two other topical interest groups within the society: Teacher Educators and Geoscience Education Researchers. The three divisions are centers of activity within the organization meeting the goal of expanding the capacity of the organization to enhance geoscience education. Perhaps more significantly, the creation of divisions is now established as a successful NAGT strategy for increasing capacity to address specific aspects of geoscience education in the future.
- We have established mechanisms and structures that allow NAGT to manage large scale professional development activities for the geoscience education community. This work centered on the transition the NSF funded Cutting Edge and Building Strong Geoscience Departments professional development programs to NAGT management. A central accomplishment has been the creation of the NAGT Professional Development Program Committee which has over the past three years successfully taken on increasing responsibility for topical face-to-face and virtual workshops, the traveling workshop program, the Early Career workshop program, the Earth Educators’ Rendezvous (EER), and most recently the Cutting Edge and Teach the Earth websites and the peer-review of teaching activities and websites. This group has managed the selection of the EER planning committee and contributed program committee which structurally are its subcommittees. Three different individuals have served in the position of chair and the committee is now establishing a subcommittee to manage activities related to the website. This structure is sufficiently flexible that it can be used to manage a larger program extending into new programmatic areas. For example, the current pilot activity on NGSS professional development could be managed on a longer term basis as a subcommittee of the professional development. The On the Cutting Edge Management Committee complements the work of the planning committee providing financial and programmatic oversight for the Cutting Edge program and reporting to the Executive Committee. This committee is important because it includes members representing the other groups contributing to the financial resources for the professional development program which serves not only the NAGT membership but also the geoscience community more broadly. It allows a group broadly responsible to

geoscience education to guide the overall program and its financial health while a group with deep expertise in education and professional development can manage the programming. These are separate skill sets.

- With the InTeGrate and Cutting Edge projects, we established the Earth Educators Rendezvous as a high impact professional development and community networking event that has the potential to be financially sustainable. In my mind, the motivation for the EER was the need to sustain the type of professional interaction and learning established through the Cutting Edge program. Following on the first two years of exploration of funding from professional societies, reduced registration for NAGT membership, pleas to Cutting Edge alumni and website users to support programming through membership, and corporate sponsorship it became clear that the Cutting Edge model needed to be adapted to lower costs and increase revenues. While we are still in the early stages for creating a financially sustainable program, the EER has demonstrated that capacity.
- We established volunteer led efforts addressing NGSS adoption and advocacy. These activities demonstrate that the NAGT leadership has obtained enough support from the national office to turn its attention beyond administration to programming. We are now creating a planning and implementation process to underpin the development, piloting, evaluation and when appropriate institutionalization of new programs.
- We moved membership and subscription management to the national office. This transition from contract services to in-house activity allowed NAGT to streamline membership services, create a state of the art member database, establish a routine for membership management in line with industry best practices, increase service and decrease effort related to journal fulfillment, and understand the strengths and weaknesses of our current publishing and subscription models. We are now poised to make strong decisions regarding the management of JGE and In The Trenches into the future.
- We created a tiered staffing model within the national office that increases capacity and stability while reducing cost. In particular, the Assistant Director position manages all routine operations of the organization with the assistance of a part-time administrative assistant, summer intern, marketing and communication coordinator, and website support staff. Financial activities are managed by the SERC Business Director. The Assistant Director has been able to engage and support the section and division leadership at a level that had not been possible in the past providing regular communications and facilitating the flow of information both among these groups and with the national leadership. She has also taken management of awards and programs to a new level, working proactively with the volunteer leadership. Marketing and communications has ramped up and is now managed in a professional manner. The expenditures for staff support of routine operations (e.g. membership, Executive Committee, Section and Division Support, long term programing) dropped last year and appears likely to come in under budget this year. In the past 5 years, we have been through personnel changes in all of these positions indicating that the structure for routine operations is stable and not dependent on specific individuals. This suggests that a change in Executive Director can be executed without major disruption to operations.
- We worked with AGI to set in place collaborative activities supporting increased capacity for K-12 STEM and geoscience education of the sort described by the National Academies Framework for K-12 STEM Education and the Next Generation Science Standards. This work included a national summit, an ongoing professional development activity, as well as coordination around advocacy activities. We also strengthened ties with AGU and GSA particularly around support for the Cutting Edge program to which they currently each contribute \$10K per year and we established a working relationship with NESTA.

As I look to the next 5 years, my vision remains the same: providing a sustainable, robust management for the organization that allows the membership to maximize its impact on improved teaching and learning about the Earth throughout our society. The largest opportunities we face are related to the increasing awareness both within and beyond the US that humans are having a profound impact on the planet and must act proactively if we are to avoid large natural disasters, as well as disruption of the economic structures and quality of life that we enjoy. This awareness provides new interest in understanding the planet and its relationship to human activities of all types. We have spent the last 30 years sounding the alarm and trying to get attention for these issues, now we have the opportunity to help the world respond. Programming that supports educators of all kinds in using the best pedagogy available to teach about the Earth in a societal context is crucial, as are activities that continue to open up opportunities for this learning for K-12 students, undergraduate students, teachers, and citizens. Earth science is no longer separated from issues of justice, economics and power. As such we will need to work harder to ensure that all of our members are prepared to teach students of all types with equity and fairness. And as appropriate for science educators, new research on geoscience teaching and learning are needed to underpin our work.

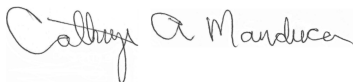


In specific, I see the following opportunities and challenges

- In the next five years NSF funding for Cutting Edge, InTeGrate and SAGE will all expire. In the short term, three tasks are critical: 1) development of strategies that continue the legacy of these programs in exploring emerging themes in geoscience education and producing new website content, 2) evaluating the value of the Cutting Edge RTOP observer corps, the InTeGrate assessment team, the SAGE regional leadership team, and the various research groups supported by these projects and creating strategies for sustaining high value activities; 3) establishing a mechanism for sustaining and managing the national geoscience faculty survey as a research tool for our community. On the five-year timescale, reflection and strategic thinking are needed to determine how NAGT would like to manage the interplay of large NSF funded geoscience education activities and its future and what types of proactive steps are appropriate.
- NAGT has changed both the scale and scope of its activities. We need to formalize policies that reflect this new era. In particular, the committee structure managing the professional development programming needs to be formalized, as do agreements with GSA, AGI and AGU. Training for new officers needs to be expanded and documentation provided so that the experiences and learning of the past are passed forward effectively. We have made many advances in planning, budgeting, and managing at all scales based on strong discussion. We need to make sure that not only are the processes recorded but the rationale is documented so that we don't have to repeat our mistakes in the future.
- NAGT is still relying heavily on publications revenues from JGE and the lab manual. These revenue streams are known to be unstable. In the next five years, our financial model will need to evolve more quickly than it has in the past five years. We are now in a position to make realistic plans that can be supported by staff and volunteers together to create new revenue linked to desired programming. The professional development program is our first successful strategy - increasing membership revenue while providing a valued member service. In the next year, we will explore donations to support travel stipends for the professional development program and corporate sponsorship and advertising for both the Rendezvous and the website- high value targets for reaching faculty. In the next five years we will also need to explore credentialing that capitalizes on this programming and think creatively about our next steps. At the same time, we will need to look carefully at ways to reduce publication costs while increasing value. (Our thinking about revenue streams is confidential and should not be shared).
- NAGT and NESTA together need to create programming for K-12 teachers that is as robust as that we now have in place for higher education. The immediate step here is to capitalize on the Rendezvous and the Teach the Earth website. The bigger steps need to be imagined and then implemented in view of the role of AGI, AGU, GSA, AMS, NSTA and others.
- InTeGrate has pioneered a role for geoscience education across the disciplines and established activities that reach far beyond the traditional NAGT core in geology. This activity connects NAGT to environmental education, to sustainability initiatives, and to higher education in new ways. An exciting opportunity that lies at our doorstep is to determine if and how NAGT will engage this larger community which shares our passion for living sustainably on the Earth.

I hope that this brief summary provides the needed insights into my NAGT activities and thoughts about the future. I invite you to reflect upon the goals laid out in my 2011 report and the detail provided in the twice yearly reports. You can find the annual calendar of administrative tasks here: [http://nagt.org/nagt/about/workspaces/excomm/nagt\\_yearly.html](http://nagt.org/nagt/about/workspaces/excomm/nagt_yearly.html). I would be happy to discuss the ideas presented here further or to address additional questions.

Sincerely,



Cathryn A Manduca  
Executive Director

## August 3, 2016 Report to NAGT Executive Committee on JGE.

Submitted by Kristen St. John [jge@jmu.edu](mailto:jge@jmu.edu)

### 1. Editorial Board.

I am in my 5<sup>th</sup> year as Editor-in-Chief. Heather Petcovic (Western Michigan University) and Alison Stokes (University of Plymouth, UK) are the Editor for C&I and Editor for Research, respectively. Currently there are ~20 regular associate editors, and 2 guest editors associated with a theme issue.

Chris Brower is the new Allen Press Managing Editor for JGE. We have had 4 different managing editors assigned to JGE in the last year.

### 2. Journal Summary.

**Table 1. Journal Summary Report 2009-2016**

6-month time window <sup>3</sup>	Total # submitted manuscripts <sup>1</sup>	Acceptance Rate	Days from Receipt to First Decision	Days from Receipt to Final Decision
September 2009 thru February 2010	33	68%	88	314
March 2010 thru August 2010	18	83%	132	272
September 2010 thru February 2011	21	86%	181	299
March 2011 thru August 2011	22	71%	129	265
September 2011 thru February 2012	26	82%	114	250
March 2012 thru August 2012	33	69%	114	245
September 2012 thru February 2013	48	84%	141	282
March 2013 to August 2013	48	88%	180	321
September 2013 thru February 2014	27	70%	119	292
March 2014 thru August 2014	18	69%	127	263
September 2014 thru February 2015	20	78%	116	229
March 2015 thru August 2015	25	50%	96	167
September 2015 thru February 2016	21	57%	97	117
March 2016 thru July 2016 [5 month]	52	(0% <sup>2</sup> )	(58)	(42)

<sup>1</sup> There are differences in the data reported here compared to that reported in earlier reports. Program for queries may have changed to include partially submitted manuscripts and I am not culling those.

<sup>2</sup> Meaning none of manuscript submitted during have been accepted for publication, although decisions for rejection, reject-recommended resubmission, and accept with revision have occurred.

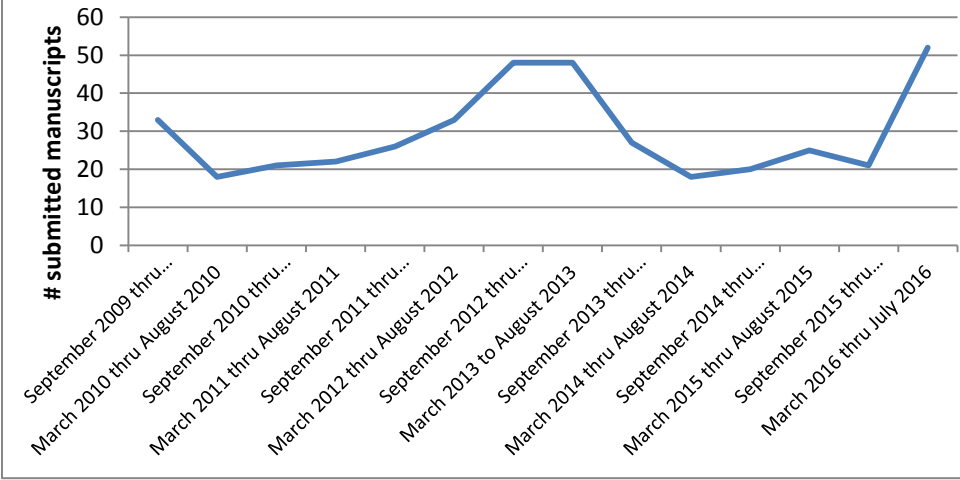
<sup>3</sup> Most recent reporting period is only 5 months.

The submission history shows the impact of theme issues. The sustainability theme issue submission deadline was Spring 2016. I'd like to see the submission pressure not dip below ~24 papers/6 mo period to ensure a healthy number of articles in the queue, especially with acceptance rates dipping down slightly. We will have two themes likely published in 2017.

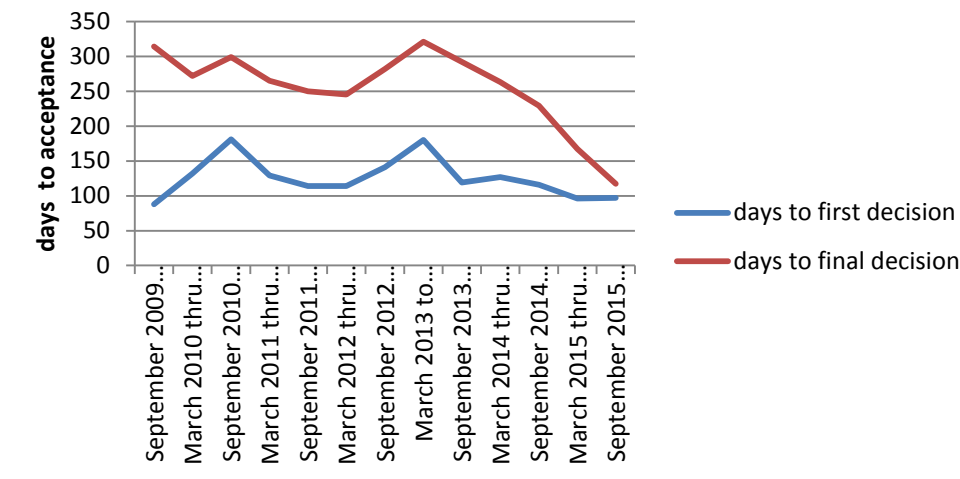
The narrowing gap between 1<sup>st</sup> decision and final decision in part has to do with moving papers from Research or C&I Editors to me in their final round to streamline the process. But do not over interpret the narrow decision time for the last 5 months as not all manuscripts submitted during this time period are through their review and decision cycle.

(Graphs next page)

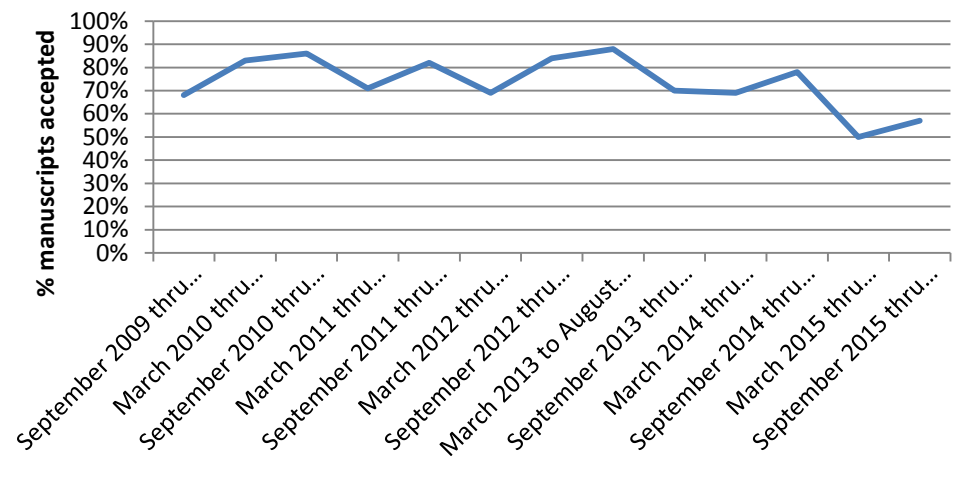
**JGE manuscript submission history**



**JGE decision timeline**



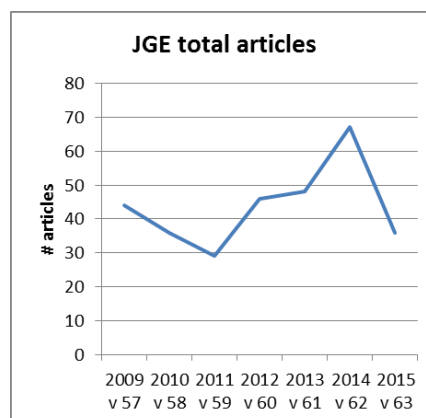
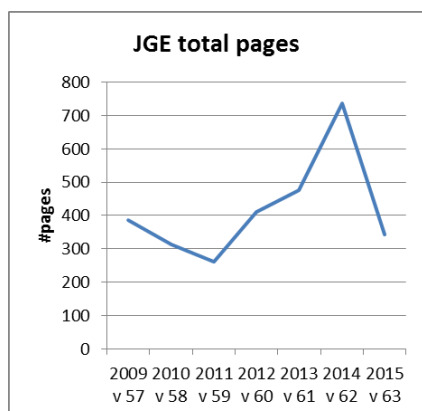
**JGE acceptance rate history**



**Table 2. JGE Summary of Pages and Articles 2009-2015**

JGE Issue	Total no. pages (Avg no. pages/issue)	Total no. Articles <sup>1</sup> (Avg no. articles/issue)
2009 v 57	385 (64.5)	44 (8.8)
2010 v 58	312 (62.4)	36 (7.2)
2011 v 59	262 (65.5)	29 (7.3)
2012 v 60	411 (102)	46 (11.5)
2013 v 61	475 (118.8)	48 (12)
2014 v 62	736 (183)	67 (17)
2015 v 63	343 (86)	37 (9)

<sup>1</sup> Number of articles listed include commentaries, C&I papers, Research papers, Editorials and Calls for Papers



The number of pages and articles has gone down since the Place-Based Learning and Climate Literacy themes in 2014. I anticipate this will peak again in 2017 with the publication of two themes.

### 3. Theme Issue Update

**Table 3. Current Theme Issues in Progress**

Theme	Theme Issue Editors/AEs	Status
Interdisciplinary Teaching and Sustainability	Kristen St. John (Editor); Ellen Metzger, SJSU (Guest AE) and David Blockstein, National Council for Science and the Environment (Guest AE), and Caitlin Callahan (AE).	16 manuscripts were submitted to this theme in May 2016. Having a strong regular AE is important member of the team in this theme and any future theme issues.  Anticipated publication is winter/spring 2017.
Synthesizing Results and Defining Future Directions of Geoscience Education Research	Kristen St. John, (Editor-in-Chief); Heather Petcovic, (Editor for C&I); Alison Stokes, (Editor for Research); Tony Feig (AE); Karen McNeal (AE).	Submission deadline August 2016. Letters of intent were required for this theme and I recommend using LoI for future themes; Nearly 40 LoI were submitted in January for the theme issue. About half are intending to write Literature Reviews. Many submitting authors participated in the Theme Issue Preview and Author Discussion session <a href="http://serc.carleton.edu/earth_rendezvous/2016/program/morning_workshops/w3/wed_evening.html">http://serc.carleton.edu/earth_rendezvous/2016/program/morning_workshops/w3/wed_evening.html</a> ) took place at the Earth Educators' Rendezvous.  Anticipated publication is Summer-Fall 2017.

#### **4. JGE Outstanding Reviewer and Paper Awards**

Please congratulate the following award recipients:

Outstanding Reviewer:

Julie Sexton, University of Northern Colorado

Outstanding Paper:

Caitlin N. Callahan, Julie C. Libarkin, Carmen M. McCallum, and Christopher L. Atchison (2015) Using the Lens of Social Capital to Understand Diversity in the Earth System Sciences Workforce. *Journal of Geoscience Education*: May 2015, Vol. 63, No. 2, pp. 98-104. doi: <http://dx.doi.org/10.5408/15-083.1>

#### **5. Update on JGE Back Issue Digitization**

The digitization of JGE back issues is part of the *Geoscience Education Research: Community Synthesis and Planning Project* funded by the National Science Foundation, grant DUE-1607543 (St. John). The project aims to advance geoscience education research and strengthen the GER community of practice. Special thanks to the National Association of Geoscience Teachers (NAGT) and to Philip Stokes, University of Arizona, for providing the printed copies of JGE for the digital conversion. The digital conversion started earlier this summer, and volumes from 1951 to 1964, and since 2001 are now available. Allen Press will be adding new batches of volumes over the next few months.

#### **6. Editor-in-Chief Position**

I have enjoyed my time as Editor-in -Chief of JGE and I appreciate the support of the Executive Committee and Council as I've held this position. I will step down as Editor-in-Chief in January 2018 in order to dedicate more time to research.

## **August 2016 Report to NAGT Executive Committee on *In The Trenches*.**

Submitted by Cindy Shellito [Lucinda.Shellito@unco.edu](mailto:Lucinda.Shellito@unco.edu)

*In the Trenches* is soon wrapping up its' 6<sup>th</sup> year in publication. In the past year, we published two issues with an Oceanography theme. Many of the authors had attended a Cutting Edge workshop in 2013, and were eager to share ideas and activities in a venue that did not require detailed classroom research. For a couple of authors, the publication of their activities in *Trenches* provided motivation to submit their activities to the Cutting Edge website, and we were able to nicely link online activities with those in print. Better integration of online materials with those published in *Trenches* has been a goal for a long time.

In July, we published an issue focused on Interdisciplinary Teaching, with Guest Associate Editor Adam Kuban.

We still receive about a number unsolicited articles each year that are eventually published (~5-6 articles). The column, 'Favorite Demonstration', is the most popular type of unsolicited article that we receive. Some 'Favorite Demo' column submissions ultimately become feature articles because.

We are presently advertising for a new editor-in-chief. I will continue to serve as editor until we find a new person, and then serve as associate editor for a few issues as this person becomes familiar with the job.

### **Upcoming Themes:**

September 2016 – GSA Awards issue, EER summary, and a feature article about the AR sandbox.

January 2016 – Still open for suggestions. (Possibilities: Teaching Earth Sci Internationally; Teaching about Weather - part 2!!)

### **Potential Future Themes:**

Teaching scientific communication

Transforming geoscience teaching with technology (a follow-up to the AR Sandbox article)

Coordinating Eclipse Activities (theme for July 2017, in prep for the eclipse in August)

## **NAGT Website, News, and Social Media Report**

August 2016

John McDaris

In the period between August 2015 and August 2016, the NAGT website continued to add new content through collaborations with AGI and sponsored projects, in addition to news and advertisements. Overall site use decreased over this period compared to the same period the previous year. The site received 7% fewer visits from 5% fewer users, more of whom were first-time visitors. Over this same period, the NAGT Facebook page has grown from 994 “likes” to 1242. The NAGT Twitter feed now has 269 followers and experienced a surge of use during the 2016 Earth Educators’ Rendezvous.

### **Accomplishments since April 2016**

- Online supplements for April *In the Trenches* posted to the website including access to full articles for current members.
- NAGTNews emails for May, June, July, and August 2015.
- 2 Community Advertisements posted to the news stream.
- 65 posts were made to the NAGT Facebook page to highlight the work of NAGT and its sponsored projects.

### **New Website Content**

*Implementing the NGSS*

[http://nagt.org/nagt/profdev/workshops/ngss\\_summit/index.html](http://nagt.org/nagt/profdev/workshops/ngss_summit/index.html)

In the year since the 2015 Summit on Implementing the Next Generation Science Standards at the State Level, NAGT’s collaboration with AGI has continued. Four additional webinars have been run and are archived on the NAGT website.

*Geoscience Education Research (GER) Community Synthesis and Planning*

[http://nagt.org/nagt/profdev/workshops/GER\\_community/index.html](http://nagt.org/nagt/profdev/workshops/GER_community/index.html)

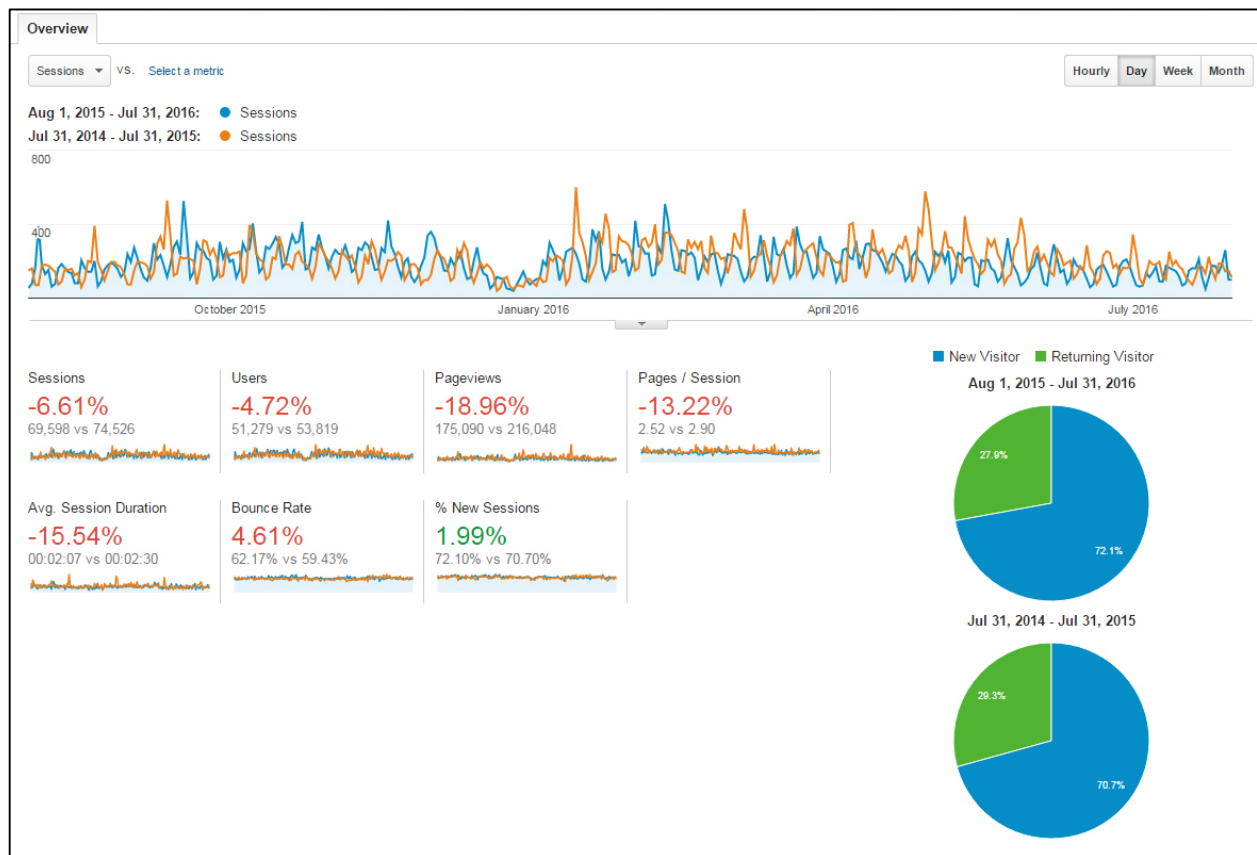
Building on the successful Shaping the Future of Geoscience Education Research (GER) project in 2014-15, this sponsored project aims to move the GER community of practice forward. Activities of the project include digitization of past issues of the Journal of Geoscience Education, a survey of GER community needs, a webinar to share and discuss survey findings, and a GER workshop at the 2016 Earth Educators’ Rendezvous to begin development of a suite of online resources to support new and experience geoscience education researchers.

### **Website Use**

Between August 1, 2015 and July 31, 2016, the NAGT website received 69,598 visits from 51,279 users of whom 28% were repeat visitors. This represents a 6.6% decrease in traffic over the previous year. The most popular parts of the website for this period (as a percentage of

unique page views) were Teaching Resources (26%), Professional Development (16%), and JGE (14%).

For comparison, the same period the previous year saw 74,526 visits from 53,819 users of whom 29% were repeat visitors. The most popular parts of the website during that period were Teaching Resources (21%), Professional Development (20%), and JGE (15%).



### Section and Division Website Usage (for those hosted at SERC)

Traffic to Section Websites hosted by SERC increased year-on-year. Central Section continues to be the section receiving the most traffic with nearly 750 unique pageviews (an increase of 62%). North Central grew 31% from 139 to 182 unique pageviews. New England shrank slightly from 108 to 105 (-3% change). Southwest section grew from 97 down to 122 (up 26%).

Traffic to Division Websites dropped overall by 8% year on year. The Geo2YC Division saw the most traffic with 1,372 unique pageviews (compared to 1,459 last year, -6%). The GER Division saw a 2% increase from 1,159 to 1,185. The TED Division dropped by 32% from 559 to 379.



## **NAGT Social Media**

Krista Herbstrith and John McDaris have been jointly managing NAGT's social media presence and using it to highlight NAGT work as well as that of our sponsored projects and partner organizations. NAGTNews items and Community Advertisements continue to be posted to the Facebook page and also the NAGT Twitter feed. In addition, news releases from sponsored projects (such as InTeGrate) have become more frequent and staff made good use of the Facebook page and Twitter feed to publicize the events of the Earth Educators' Rendezvous in July in Madison, WI.

**NAGT FW 2016 Annual Report**  
**Gene Pearson, Historian**

**During the time period from September 1, 2015 to August, 2016 I was involved with NAGT in the following activities:**

- **Served as Acting Secretary/Treasurer (April 2015 to November 2015).**
- **Participated in the following meetings of the Executive Committee: September 2015 virtual, November 2015 Baltimore, January 2016 virtual, April 2016 mid-year Tucson, June 2016 virtual**
- **Participated in the following meetings of the NAGT Council: September 2015 virtual, November 2015 Baltimore, January 2016 virtual, May 2016 virtual, August 2016 virtual)**
- **Participated as a member of the NAGT Executive Director Five-Year Review Committee**
- **Served as Chair of the NAGT Investment Committee**
- **Developed revisions for the NAGT Endowment Policy**
- **Served as Secretary/Treasurer of the NAGT Far Western Section (May 2016 to present)**

NAGT Executive Director's Office Report for 2016  
Prepared by Erica Zweifel – Assistant Director  
August 3, 2016

The NAGT director's office manages the daily operations and programming of the National Association of Geoscience Teachers. The operations include; membership database management, subscription database management, publication mailing lists, membership and subscriber renewal, member retention and new member recruitment, email list management, website management, finances and budgets, support for NAGT executive committee and council, the monthly news email, social media presence, and customer service. The programming includes; the Earth Educators' Rendezvous, the NAGT awards programs, the traveling workshop program and NAGT's presence at GSA and AGU.

In addition to these tasks, this year the executive director's office played a role in the following:

### **NAGT Management**

Supporting the president and executive committee as they perform the executive director 5 Year Review  
Supporting the *In The Trenches* Editor Search  
Supporting the *Journal of Geoscience Education* Editor Search  
Participated in and provided documentation for the Clifton Larson Allen Review of NAGT Finances  
Preparing the timeline for the NAGT publishing contract for JGE  
Supervised a Carleton summer intern, Claire has submitted an annual report

### **NAGT Membership**

Implement a personalized new member email with section information  
Send renewal requests via membership category, division and section  
Attended ASAE Membership and Marketing Conference in D.C.  
Increased NAGT's presence on social media on Facebook and Twitter

### **NAGT Programming**

Expanding the Traveling Workshop Program to include grant funded courses programs  
Highlighting the SERC Profile Pages for NAGT members

### **NAGT Initiatives**

Monitoring the Teach The Earth Portal initiative  
Supporting the Advocacy Committee  
Created an NAGT FastLane Account  
Preparing a Memorandum of Understanding with AGU and GSA regarding JGE

**Annual Report: June 2016 – August 2016**  
**Claire Branigin, Summer Intern**

June 2016

- EER data mining
  - Compared 2015 to 2016 registrants
  - How many 2015 registrants were new NAGT members?
  - How many of those new members renewed in 2016?
- Drafted email to Dorothy Stout Award winners
- Drafted and sent email to Outstanding TA Award winners and department heads
- NAGT/USGS intern program
  - Updated reflection form on website
  - Reached out to last year's interns asking them to submit a reflection
- NAGT new member email
  - Drafted email and solicited feedback
  - Initiated use of Mail Merge to send personalized emails

July 2016

- EER preparations
  - Worked on *JGE* and *ITT* editor search print and virtual materials
  - Assembling relevant literature to hand out at workshops
- NAGT new member email
  - Personalized email by section and sent
  - Reached out to section leadership to update outdated section pages prior to sending to certain sections
- Reviewed OEST award manual with MJ
- Updated website with 2016 OEST recipients
- Drafted member check-in email soliciting awards nominations for next year
- Drafted member renewal emails to various groups

August 2016

- Edit and send unfinished letters and emails
- Assist with ExComm and Council meetings
- Continue updating website
- Prepare for GSA meeting in September
- NAGT emails to EER participants (one for members, one for non-members)

In addition to these projects I have weekly responsibilities, including weekly mailings of *In The Trenches*, updating member information as necessary and updating the front page and outdated pages on the website.

I am extremely grateful to have had the opportunity to work for NAGT. In addition to practicing widely applicable skills for my future career (web editing, data entry, writing to a variety of audiences), I have enjoyed tackling unforeseen challenges and working with a dedicated, bright, and fun group of people!

**NAGT Year-End Report  
Fall 2016  
John Taber  
Councilor-at-Large, 2013-2016  
Report prepared 8/4/16**

**Goals from last Report:**

- (none listed)

**NAGT Executive Committee work:**

- meetings attended
  - GSA Annual Meeting, Baltimore, Nov 2015
    - NAGT ExComm and Council Meetings
    - NAGT & GSA Geosci Ed Div Awards luncheon
    - Geoscience Educators reception
  - January 11, 2016 (virtual)
  - April 16, 2016 (virtual)
  - June 6, 2016 (virtual)
- officer reports
  - Feedback for Executive Director review

**NAGT Council work:**

- meetings attended
  - November 1, 2015 (F2F @ GSA)
  - May 13, 2016 (virtual)

**NAGT Committee work:**

- Served on Neil Miner Award committee

**Liaison activity:**

- Eastern Section
  - No meetings attended

**Other NAGT activities**

- Co-author of 2YC Division newsletter article
  - Bohon, Wendy, and John Taber, 2016, Investigate, Explore and Discover – with Earthquakes!, Foundations, *Volume V, Issue 2*: May 2016

**Conference/meeting participation:**

- AGU Annual Meeting, San Francisco, Dec 2015
  - Assisted in NAGT booth
  - Participated in AGU Virtual Poster Showcase and GeoLEAD meeting
  - Co-convenor of session on E&O programs in large facilities
  - Author or co-author on 5 presentations

- NSTA, March, 2016, Nashville, IRIS booth and two 1-hour sessions
- National Academy of Sciences, Committee on Seismology and Geophysics meeting on Collaborative graduate training initiatives in high-performance computing and data science for the solid Earth sciences, Washington, DC, 4/11/16
- Earth Educator's Rendezvous, July 17-22, 2016
- InTeGrate leadership meetings

**Other activities relevant to NAGT:**

- Informal education booths
  - AGU Exploration Station, San Francisco, Dec 2015
  - AAAS Family Science Days, Washington, DC, Feb 2016
  - USA Science and Engineering Festival, Washington, DC, April 2016
- Co-led Texas Regional Collaboratives Earthquake Workshop, Austin, TX, April 25-28, 2016
- NSF proposal review panelist

**Upcoming Activities**

- Applying to present at GIFT workshop at 2016 AGU
- 2016 GSA Annual Meeting, September 25-28

**Goals for next reporting period:**

- Establish a connection with Eastern Section leadership

**NAGT Year-End Report  
Fall 2016  
Karen Viskupic  
Councilor-at-Large, 2014-2017  
Report prepared: August 10, 2016**

**Goals from last Report:**

- (none listed)

**NAGT Executive Committee work:**

- meetings attended
  - Excom meeting at GSA in Baltimore, MD, November 1, 2015
  - Virtual ExComm meeting, January 11, 2016
  - ExComm meeting in Tuscon, AZ, April 15-16, 2016
  - Virtual ExComm meeting, June 6, 2016
- officer reports
  - nothing to report
- assigned tasks (other than that reported in other sections below)
  - Co-chair for 2016 Earth Educators' Rendezvous
  - Co-chair for 2017 Earth Educators' Rendezvous
  - Explore possibility of NAGT proposal to develop program-level assessments for undergraduate geoscience programs

**NAGT Council work:**

- meetings attended
  - Virtual council meeting, September 22, 2015
  - Council meeting at GSA in Baltimore, MD, November 1, 2015
  - Virtual council meeting, January 21, 2016
  - Virtual council meeting, May 13, 2016
- opportunities & concerns:
  - nothing to report

**NAGT Committee work:**

- Workshop Planning Committee
  - Virtual meetings attended: 9/17/15, 1/8/26, 3/11/16, 3/17/16, 3/31/16, 4/7/16, 4/21/16, 5/5/16, 5/12/16, 5/26/16, 7/18/16 (in person at EER)
  - Work completed:
    - The committee developed a plan for transitioning web materials associated with On the Cutting Edge to NAGT oversight and management. This included defining the relationship between NAGT-hosted materials and other materials on the collective web pages supported by SERC, developing a plan for reviewing materials (especially web resources associated with projects rather than single activities), and developing a plan for managing the website.

- The committee also discussed the 2015-2016 workshop program and the possibility of proposing a GSA Penrose conference.
    - I reviewed applications for the traveling workshops program.
  - Work in progress:
    - We are continuing to work on the website transition
  - Opportunities & concerns:
    - None to report
- 2016 Earth Educators' Rendezvous (EER) Meeting Co-Chair
  - Virtual meetings attended:
    - Weekly phone calls from September, 2015 through July, 2016
  - Work completed:
    - I worked with co-chair David McConnell, contributed program chair Laurel Goodell, SERC staff including Krista Herbstrith and David Hyuck, and a Rendezvous planning committee to set the format/schedule of the 2016 EER, define workshop topics, invite and secure workshop leaders, invite and secure plenary speakers, advertise the EER to relevant groups, review applications for travel stipends, and execute the program during the meeting (July 18-22, 2016). 330 people attended the meeting.
  - Work in progress:
    - I will be working with SERC staff to review the evaluation results from the 2016 EER for consideration in planning the 2017 EER.
  - Opportunities & concerns:
    - I have many ideas for discussion with 2017 EER co-chair Hannah Scherer and the 2017 EER planning committee. Overall, I think the 2016 meeting was a success, but there are many ways we could think about making improvements for next year.
- 2017 Earth Educators' Rendezvous Meeting Co-Chair
  - Meetings attended:
    - In person meeting on July 21, 2016 at the EER in Madison, WI
  - Work completed:
    - Confirmed participation of meeting co-chair Hannah Scherer, and contributed program chairs Laurel Goodell (teaching demonstrations) and Rachel Teasdale (talks and posters)
    - Confirmed participation of seven people on the 2017 EER planning committee.
  - Work in progress
    - We are awaiting confirmation of participation from two additional planning committee members
    - Hannah and I are working to define a regular meeting time for planning committee
    - We will be working with SERC staff to review the 2016 EER evaluation results
    - We're just getting started!
  - Opportunities & concerns:



- I have no concerns at this point, but think there are many opportunities to make the Rendezvous even more successful.

**Liaison activity:**

- Northeast section
  - No meetings attended

**Conference/meeting participation:**

- GSA 2015 Annual Meeting, November 1-4, 2015
- Earth Educators' Rendezvous, July 18-22, 2016

**Other activities relevant to NAGT:**

- Member of the leadership team for the On the Cutting Edge Classroom Observation project
- Member of the InTeGrate assessment team

**Upcoming Activities**

- 2016 GSA Annual Meeting, September 25-28

**Goals for next reporting period:**

- Connect with leaders for the NAGT Northeast section
- Explore possibility of developing program-level assessments for undergraduate geoscience degree programs
- Continue planning the 2017 Earth Educators' Rendezvous

**NAGT Annual Report 2016**  
**Suzanne M. (Suki) Smaglik, Councilor-at-Large**

My second year as Councilor-at-large began at the 2015 Annual GSA meeting in Baltimore, MD, with activities as noted in my mid-year report.

I have attended all virtual ExComm and Council meetings and have responded to NAGT ExComm email requests for support or a vote on various issues of importance to the Council. I also attended the face-to-face ExComm meeting in Tuscon, AZ in April. I plan to attend and participate in NAGT activities at the Annual GSA meeting in Denver in September.

In January 2016, I participated in the Department Heads & Chairs Summit on the *Future of Geoscience Undergraduate Education at UT-Austin*, as one of several 2YC faculty (not necessarily heads or chairs). From this Summit emerged a desire by many to convene a similar Summit for the 2YC community. A committee consisting of myself, Kaatje Kraft, Josh Villalobos, and Ben Wolfe (who had not attended the summit) met via phone on a semi-monthly basis to craft a proposal and budget, with the help of Cathy Manduca and Heather Macdonald. That proposal was referred to Lina Patino at NSF, who hoped that we would be able to run the event during the summer of 2016. She suggested that our proposal be more focused, and had some concern with our budget, so asked us to revisit some of the things we were proposing. We all agreed that we would take these suggestions under advisement and rewrite the proposal, but that we would not try to make the Summit happen in 2016. Instead, we would expand that to a full proposal during a working group at the Earth Educator's Rendezvous in July. Only Ben and I were available at this year's summit. We discussed and summarized the direction that we thought the proposal needed to take, and formulated questions to bring back for group discussion in the fall. The "when, where and other logistics" were not decided upon. We also discussed with Eric Baer, co-PI with Heather Macdonald on the recently renewed SAGE 2YC grant, how our proposed Summit would impact or be impacted by their project. Our aim is to expand beyond traditional geology departments as so many of us teach a range of Earth science courses. Niccole Cerveny, geographer at Mesa Community College, has agreed to join our planning group. We continue to look for 2YC instructors in oceanography and atmospheric science, among others, to join the planning committee.

I attended the Earth Educators' Rendezvous in Madison in July where I participated in the 3-day workshop on Diversity and was a panelist for "How to Increase Diversity in Geosciences Programs" discussion on the afternoon of July 19. Ben Wolfe and I took advantage of the working group time and space to work on the concept of a 2YC Summit. We determined that our best course was to ask for full sponsorship by the NAGT 2YC section. (see above for more details).

The 11<sup>th</sup> edition of the AGI/NAGT Lab Manual is due to be published in January of 2017. While originally on the revision team, I backed out when the editor at Pearson resigned and communication became erratic. However, I am currently a content expert reviewer for the project, which is in its final stages.

As liaison to North Central Section: I continue to coordinate the OEST award for this section and to increase enrollment and renewals of membership. I personally contacted each member of the section, provided by the national office, to elicit OEST nominations as well as membership. While still acting President of this section, and as liaison, I worked with Section Treasurer, Kata McCarville, to plan an extended Dinosaur expedition from SD and thru WY, using the theme from the (not so blockbuster) movie *The Good Dinosaur*, June 15-22, 2016. Kata and I continue to hold the torch (no matter how dim) for the North Central section, but the sudden termination of my professional position in early May curtailed the field trip activity. We plan to try again once I am settled on a new path.

8/5/16

**NAGT Year-End Report  
Fall 2016  
Mike Phillips  
Councilor-at-Large, 2015-2018  
Report prepared: August 1, 2016**

**Goals from last Report:**

- (none listed)

**NAGT Executive Committee work:**

- meetings attended
  - September 17, 2015 (virtual), training & meeting
  - November 1, 2015 (F2F @ GSA)
  - November 3, 2015 (NAGT lunch/awards @ GSA)
  - January 11, 2016 (virtual)
  - April 15-17, 2016 (Tuscon)
  - June 6, 2016 (virtual)
- officer reports
  - work completed (other than that reported in other sections below)
  - work in progress
  - opportunities & concerns
- assigned tasks (other than that reported in other sections below)
  - develop a template for mid-term and annual reports
    - developed draft template in June and emailed it to members of Exec Comm
    - received feedback and modified draft
    - using template for this report
    - discuss at (or after) next Exec Comm meeting, revise and finalize

**NAGT Council work:**

- meetings attended
  - September 22, 2015 (virtual)
  - November 1, 2015 (F2F @ GSA)
  - January 21, 2016 (virtual)
  - May 13, 2016 (virtual)
- opportunities & concerns: none

**NAGT Committee work:**

- Advocacy Committee
  - meetings attended: December 22, 2015 (virtual); March 17, 2016 (virtual); June 22, 2016 (virtual); July 19, 2016 (@ Rendezvous)
  - work completed: The committee developed several drafts of an advocacy principles document. Drafts were discussed within the committee and with the ExecComm and revised. A new draft should be shared with the ExecComm in August.
  - work in progress: Completion of advocacy principles document.

- opportunities & concerns: When the advocacy principles document is complete, the NAGT should appoint a standing committee for advocacy issues. This committee will need to be representative of the NAGT constituent community and will need to develop methods to track and respond to relevant issues.
- In The Trenches Editor Selection
  - meetings attended: June 28, 2016 (phone); July 20, 2016 (@ Rendezvous)
  - work completed
    - developed a selection timeline with the assistance of Randy Richardson & Erica Zweifel
    - developed and posted a job description and advertisement with the assistance of Randy & Erica
    - recruited a selection committee with the assistance of Randy & Erica: Don Duggan-Haas, Laura Guertin, Rick Schmidt
    - met with Randy, Erica, & Don to discuss selection process while at Rendezvous
  - work in progress
    - develop a rubric to review applications
    - recruiting applicants & awaiting applications
    - review of applications begins Friday, September 2, the NAGT office will remove identifying characteristics from the applications and distribute to the committee for review
    - interviews will be scheduled for September 25-29
    - preferred candidates will be presented to the Exec Comm in late October/early November
  - opportunities & concerns: The primary concern is getting a good slate of applicants.

**Liaison activity:**

- Y2C Division
- officers
  - President: Kaatje Kraft, 2015-2016, [kkraft@whatcom.etc.edu](mailto:kkraft@whatcom.etc.edu)
  - Vice President: Brett Dooley, 2015-2016, [bdooley@patrickhenry.edu](mailto:bdooley@patrickhenry.edu)
  - Sec/Treas (interim): Wendi Williams, 2015-2016, [wwilliams@nwacc.edu](mailto:wwilliams@nwacc.edu)
  - Newsletter Editor: Thomas Whittaker, 2014-2017, [twhittak@unm.edu](mailto:twhittak@unm.edu)
  - Webmaster (interim): Chris Johnson, 2015-2016, [christopher.johnson@slcc.edu](mailto:christopher.johnson@slcc.edu)
  - Archivist: Amber Kumpf, 2014-2017, [amber.kumpf@muskegoncc.edu](mailto:amber.kumpf@muskegoncc.edu)
  - Past President: Ben Wolfe
- financial information
  - Division Financial information not discussed
  - Dottie Stout Fund will provide awards for approximately six more years.
- meetings held (and attended)
  - annual: November 1, 2015 (F2F @ GSA)
  - other: December 4, 2015 (virtual); February 29, 2016 (virtual); May 2, 2016 (virtual, unable to attend)

- significant accomplishments of division/section
  - Outstanding Adjunct Faculty Awards:
    - Karen Bridges, Howard CC, 2015 Annual Award
    - Bernie Dougan, Whatcom CC, Fall 2015
    - Jessica Moore, SUNY Ulster, Spring 2016
    - John Maher, Johnson County CC, Summer 2016
  - Dottie Stout Fund Awards (2015)
    - Melissa Hage, University of Wisconsin, Baraboo
    - Angela Shankle, Dona Ana CC
  - Yellow mechanical pencil/scale continues to be very popular!
  - Kaatje & Ben & Brett attended the Future of Undergraduate Geoscience Education Summit in January
- opportunities & concerns
  - Support for Outstanding Adjunct Faculty Award was a concern. Nominations have been less than hoped, and funding for the annual award was a concern. The number of honoree will but cut back from four to three each year from which one Annual Award winner will be selected. The website will be updated to highlight past winners. Pearson publishing will continue to support the annual award.
  - The Division is considering organizing a 2YC geoscience education summit.
  - The Division would like guidance (perhaps official policy) on financial issues. Specifically, who can sign checks, how the transition between Secretary/Treasurers should be handled, and how a bank should be selected (would like to move to a bank with national-level presence so the bank does not need to shift when a new sec/treas is elected).
  - The Division would like to be involved with NAGT advocacy efforts and would like role to be included in the principles document.

#### **Conference/meeting participation:**

- GSA 2015 Annual Meeting
  - November 1-4, 2015
  - activities relevant to NAGT
    - Educators reception
    - Friends of AGI reception
    - author/presenter of two papers
    - assisted at NAGT booth
- Northern Illinois University Geo 2YC Summit
  - February 26, 2016
  - activities relevant to NAGT
    - transfer issues
    - cognitive research on geoscience learning
- GSA North Central Section
  - April 18-19, 2016
  - activities relevant to NAGT
    - NAGT Luncheon

- assisted at NAGT booth
- Earth Educator's Rendezvous
  - July 17-22, 2016
  - activities relevant to NAGT
    - met with Advocacy Committee & ITT Selection Committee
    - participated in web site review camp

**Other activities relevant to NAGT:**

- Presented the results of a SAGE 2YC workshop on transfer issues held in the March 2015 (with co-authors David Voorhees & Cheryl Resnick)
  - Oral presentation at 2016 GSA Annual meeting
  - White paper for transferring geoscience students (published & shared electronically in Illinois)
  - Report in May 2016 NAGT 2YC Division Newsletter
- Completed InTeGrate Module: Mapping the Environment with Sensory Perception (with co-authors Lisa Phillips & Kate Darby)
  - Oral presentation at 2016 GSA Annual Meeting
  - Published on-line in July 2016
  - Presented in July 2016 issue of In The Trenches
- Appointed to Illinois Board of Higher Education – Faculty Advisory Council

**Upcoming Activities**

- 2016 GSA Annual Meeting, September 25-28
- 2017 GSA Northeastern/North Central Section Meeting, March 19-21

**Goals for next reporting period:**

- revise and finalize template for annual and mid-year reports for Exec Comm members
- complete hiring process for In The Trenches editor
- complete advocacy guideline document



National Association of Geoscience Teachers, Central Section ([www.nagt.org](http://www.nagt.org))

## Central Section of NAGT 2016-2017 Annual Report

submitted by C. Renee Sparks

Serving Illinois, Indiana, Iowa, Kentucky, Michigan, Minnesota, Ohio, Wisconsin, and southern and western Ontario

### A. Officers for 2016-2017

#### **President**

Renee Sparks  
Calvin College  
3201 Burton SE  
Grand Rapids, MI 49546  
[crs38@calvin.edu](mailto:crs38@calvin.edu)

#### **1<sup>st</sup> Vice President**

Beth Johnson  
UW-Fox Valley  
1478 Midway Road  
Menasha, WI 54952  
[Beth.johnson@uwc.edu](mailto:Beth.johnson@uwc.edu)

#### **2<sup>nd</sup> Vice President**

Alexa Sedlacek  
121 Latham Hall  
University of Northern Iowa  
Cedar Falls, IA 50614-0335  
[alexa.sedlacek@uni.edu](mailto:alexa.sedlacek@uni.edu)

#### **Treasurer: (2010-2016)**

Michael Wolf  
Geology Department  
Augustana College  
639 38<sup>th</sup> St.  
Rock Island, IL 61201  
[michaelwolf@augustana.edu](mailto:michaelwolf@augustana.edu)

#### **Secretary:**

Jeffrey Strasser  
Geology Department  
Augustana College  
639 38<sup>th</sup> St.  
Rock Island, IL 61201  
[JeffreyStrasser@augustana.edu](mailto:JeffreyStrasser@augustana.edu)

#### **OEST Award Chair**

Susan Wolf  
Augustana College  
Fryxell Geology Museum  
639 38<sup>th</sup> St.  
Rock Island, IL 61201  
[susanwolf@augustana.edu](mailto:susanwolf@augustana.edu)

**Past President** no one serving in this role



## B. Activities Report

### 1. Sponsored Field Trips

In the past we have sponsored field trips run by GLS SEPM or the Tri-State Field Trip. This year we have trips scheduled in July and October 2017.

**2. OEST (Outstanding Earth Science Teacher Award) :** The Central Section of NAGT received nominations for the award. Winners for the OEST award were announced on May 20, 2016 and were as follows:

Central Section winner:	Troy J. Simpson	(\$500 award)
OH winner:	DeAnn O'Toole	(\$100 award)
MN winner:	Jody Bergeson	(\$100 award)

**3. Treasurer's Report** — Michael Wolf reports that Central section of NAGT is in good financial standing. Expenditures this year were for the OEST Awards (\$700), and \$250 toward the travel to an InTeGrate workshop. We received \$605 from national NAGT. Our current account balance is \$7665.80. See attached Treasurer's Report.

### 4. Meetings and Conferences

#### a. 2017 Meetings

**North-Central GSA** in Pittsburgh, PA March 18-21, 2017

**Theme Sessions** sponsored or co-sponsored by Central NAGT

There's an App for That: Using Technology Developments, Innovations, Resources, and Applications to Enhance Undergraduate Geoscience Education. Co-chaired by Joe Reese and Renee Sparks

Women in Geology: Encouraging the Future Chaired by Beth A. Johnson

**Officers Committee Business Meeting** was held at the NC/NE-GSA Conference in Pittsburgh, PA on March 19, 2017. The president, 1<sup>st</sup> Vice President, Secretary, and Treasurer were in attendance.

#### b. Past Meetings

**North-Central GSA** in Champaign, IL April 18-19, 2016

**Theme Sessions** sponsored by Central NAGT

Women and Geology: Who Are We, Where Have We Come From, and Where Are We Going? Chaired by Beth A. Johnson

#### c. Upcoming Meetings

Both an Officer's meeting and a Business Luncheon are planned during North-Central GSA.

### C. Officers for 2017-2018

#### **President**

Beth Johnson  
UW-Fox Valley  
1478 Midway Road  
Menasha, WI 54952  
[Beth.johnson@uwc.edu](mailto:Beth.johnson@uwc.edu)

#### **1<sup>st</sup> Vice President**

Alexa Sedlacek  
121 Latham Hall  
University of Northern Iowa  
Cedar Falls, IA 50614-0335  
[alexa.sedlacek@uni.edu](mailto:alexa.sedlacek@uni.edu)

#### **2<sup>nd</sup> Vice President**

Vacant

#### **Treasurer: (2010-2016)**

Michael Wolf  
Geology Department  
Augustana College  
639 38<sup>th</sup> St.  
Rock Island, IL 61201  
[michaelwolf@augustana.edu](mailto:michaelwolf@augustana.edu)

#### **Secretary:**

Jeffrey Strasser  
Geology Department  
Augustana College  
639 38<sup>th</sup> St.  
Rock Island, IL 61201  
[JeffreyStrasser@augustana.edu](mailto:JeffreyStrasser@augustana.edu)

#### **OEST Award Chair**

Susan Wolf  
Augustana College  
Fryxell Geology Museum  
639 38<sup>th</sup> St.  
Rock Island, IL 61201  
[susanwolf@augustana.edu](mailto:susanwolf@augustana.edu)

**Past President** Renee Sparks

**National Association of Geoscience Teachers  
Eastern Section Report, 2016**

**Eastern Section Officers**

**President:** Mike Baer, 136 Ridgeview Drive, Monroeville, PA 15146; (H) 724-989-4190; (W) 412-896-2300 ext 7787; email <mwbaer@yahoo.com>

**Vice-President:** David J. Ludwikoski; 1020 Marksworth Road, Catonsville, MD 21228; (H) 410-282-3092, (W)443-840-4216; email <DLudwikoski@ccbcmd.edu>.

**Treasurer:** Renee Aubry, 1179 Glen Rd., Shrub Oak, NY 10588; email <raubry@otunet.com>.

**Editor:** Callan Bentley, 343 Crater Ln., Fort Valley, VA 22652; email <cbentley@nvcc.edu>.

**Archivist:** Steve Lindberg, email <minerlight@atlanticbb.net>

**Past President:** Randy Newcomer, Randy's Books, PO Box 214, Akron, PA 17501; 717- 823-0579 (C); email <randy@randysbooks.com>; <www.pageology.info>.

**Secretary:** Rosemarie Sanders, 914-721-0948; email <Rose.Sanders@me.com>.

**NAGT 2YC Division Representative:** Rich Gottfried; Dept. of Science, Frederick Community College, 7932 Opossumtown Pike, Frederick, MD21702; 301-846-2581(W), 540-822-5561(H); email <RGottfried@frederick.edu>.

**Annual Section Meeting**

The Annual Section Meeting was held May 12-15, 2016, in Pittsburgh, Pennsylvania. Hosted by Mike Baer and Amy Baer (spouse), the event was attended by 26 members and spouses. Meeting events were held at the Monroeville Holiday Inn.

Thursday we had registration at the hotel and then immediately transitioned in to our talk on the Effects of Abandoned Mine Drainage (AMD) on Pennsylvania streams. This was presented by Wil Taylor, Department of Conservation of Natural Resources (DCNR) of Pennsylvania, and Margaret Dunn, PG, CPG, President of Stream Restoration Inc. and BioMost Inc..

On Friday morning we travel via multi-person vans to the Carnegie Museum of Natural History. Attendees toured the museum at their own pace, as well as having 3 behind the scenes tours of; the mineral storage/work area, the dinosaur fossil storage/work area and the fossil prep lab. We also toured the Pterosaurs exhibit on loan from the American Museum of Natural History.

After our time in the CMNH we drove to the Mt. Washington overlook and viewed the city of Pittsburgh, the confluence of three major rivers and discussed the most recent revival of the Pittsburgh area.

In the evening, back at the Hotel, participants had desert during the traditional Geo-Auction. \$121.50 was raised from the active bidding on rocks, books, posters, and other items donated.

Saturday two full-day field trips were offered. The Route 22 Geologic Traverse led by Eastern Section member Steven Lindberg moved eastward from Monroeville along route 22, stopping at

exposures of Pennsylvanian and Mississippian Strata. The trip included several stops in the Conemaugh Gorge north of Johnstown to examine exposures of the enigmatic Loyalhanna Limestone. The Mississippian-Pennsylvanian contact between the Mauch Chuck and Pottsville Formations were viewed and discussed.

The other trip explored Ohio State Park and the Laurel Caverns. Ohio State Park is located along the Youghiogheny River where it crosses Laurel Hill in a deep gorge. The rock exposures and landscape of the park reveal a geologic history of sedimentation, deformation and erosion that is typical of this part of the Appalachians. Laurel Caverns is a large natural cave located 50 miles south of Pittsburgh. It is the largest cave in Pennsylvania and because it is situated beneath 435 acres of privately owned preserve, all of the water that enters the cave is pristine. We were extremely lucky to have Dr. David Cale, owner of the caverns as our tour guide. Dr. Cale took us in to areas of the cavern that were not open to the public and in to one area in particular that was still being excavated.

The evening awards banquet included a talk by Dr. Matthew Lamanna, Assistant Curator of Vertebrate Paleontology at the Carnegie Museum of Natural History, on his most recent field work in Patagonia unearthing giant titanosaurs.

The annual meeting was concluded Sunday morning with the Section business meeting at the hotel, financial status was shared, contributions to the event were recognized, and Randy Newcomer, outgoing President, presented the Section gavel to incoming President Mike Baer

### **Awards**

The Eastern Section congratulates Meaghan Hollenbeck, soon to be Richardson, of the Connelly School of the Holy Child, as the 2016 OEST recipient for the great state of Maryland.

We would also like to congratulate James Adams of Bloomsburg University in Pennsylvania, as the recipient of the 2016 James O'Connor Field Camp Scholarship Award.

The section "Digman" award is designed to recognize an individual who works to bring Geoscience to the general public. This year the section recognized Dr. Matthew Lamanna, Assistant Curator of Vertebrate Paleontology at the Carnegie Museum of Natural History.

### **Plans**

The 2017 Section Meeting is being organized by David Ludwikoski. The conference will be held June 8-11, 2017, in the Baltimore, MD Area. Details will be forthcoming in a section newsletter.

### **Financial Section**

May 2016 financial statement showed total of \$8396.14

Total revenue from the annual section meeting was \$2630.88, and total expenses were \$2992.50, leaving a net loss of \$361.62.

**National Association of Geoscience Teachers  
Far Western Section  
2015-16 Annual Report**

**Submitted by Winnie Kortemeier**

A. Section Officers.

New officers were installed at the spring field conference in April 2016.

- President: 2016-2017: Winifred Kortemeier, Geosciences, Western Nevada College, Carson City, NV, Winnie.kortemeier@wnc.edu  
2015-2016: Paul Troop paul.troop@sbcglobal.net
- 1<sup>st</sup> Vice President: 2016-2017: Brigitte Dillet, Geosciences, Western Nevada College, Fallon, NV brigitte.dillet@wnc.edu  
2015-2016 not filled
- 2<sup>nd</sup> Vice President/Newsletter Editors: 2016-2017 Richard Jones, Science Education, University of Hawaii, West Oahu, HI, rmjones7@hawaii.edu, and Mark Boryta, Earth Sciences and Astronomy, Mt. San Antonio College, Walnut, CA mboryta@mtsac.edu  
2015-2016 not filled
- Secretary/Treasurer: 2016-2017: Gene Pearson, Geologic and Environmental Sciences, University of the Pacific, Stockton, CA epearson@pacific.edu  
2015-2016: Greg Wheeler, Geology Emeritus, California State University,  
Sacramento, Sacramento, CA, wheelergr@csus.edu
- Publications Coordinator: 2015-2016 and 2016-2017 Paul Troop, Geology, CSU Fresno, Fresno, CA paul.troop@sbcglobal.net

Past Presidents (Councilors):

- Paul Troop, CSU Fresno, CA paul.troop@sbcglobal.net
- Lynn Fielding, El Camino College, Torrance, CA lfielding@camino.edu
- Mark Boryta, Mt. San Antonio College, Walnut, CA mboryta@mtsac.edu
- Garry Hayes, Modesto Junior College Modesto, CA hayesg@yosemite.edu
- Brigitte Dillet, Western Nevada College, Fallon, NV brigitte.dillet@wnc.edu
- Greg Wheeler, Emeritus, California State University, Sacramento, Sacramento, CA, wheelergr@csus.edu

OEST and other Awards Coordinator

Craig Poole, Geology, Fresno City College, Fresno, CA  
craig.poole@fresnocitycollege.edu

Executive Committee Liaison

Leilani Arthurs larthurs2@unl.edu

## B. Awards/Scholarships

1. Our 2016 OESTA winner is Laura Branch, a high school teacher at Ernest Righetti High School in Santa Maria California who teaches Geology, Earth, and Environmental Sciences. Laura is a perfect fit for the NAGT-Far Western Section since she values field experience and research as a means to enrich her teaching and her students' learning. One of her colleagues said "One of Laura's greatest attributes is her ability to bring lessons to life. Whether it is through an interesting video or an exciting live demonstration, there is never a dull day in her class. Laura stays on the forefront of the scientific community in an effort to ensure that her lessons are accurate and conform to contemporary scientific theories. Through her frequent geological expeditions and field research, Laura brings back knowledge of how new scientific ideas are formulated and how the scientific method is used in the real world." We are pleased to note and honor Laura's enthusiasm for the earth sciences and her dedication to teaching with the NAGT Far Western section's OEST award.
2. Brian Minkin, a student at University of Nevada Reno was awarded a \$750 Dottie Stout Field Camp Scholarship. Thomas Ott of Modesto Junior College and Morgan Remick of Western Nevada College were each awarded \$750 College Transition Scholarships to attend University of Nevada Reno.

## C. Field Conferences

1. NAGT-FWS Fall Field Conference was held in Bakersfield California, on October 16-18, 2015. It was sponsored by Dirk Baron and Rob Negrini at CSU Bakersfield, and Tim Elam at the Buena Vista Museum of Natural History. The theme of the conference was Sediments, Oil and Fossils in the Southern San Joaquin Valley. There was breakfast both Saturday and Sunday mornings in the museum, field trips on Saturday and Sunday including Paleontology and Geology of the Miocene Round Mountain Silt Bonebed at Sharktooth Hill, and Outcrops of the West Side of the Southern San Joaquin Valley, and a speaker and dinner on Saturday evening in the museum. On Sunday morning there was also a tour of the California Well Sample Repository – an amazing place! There were 19 official attendees, and 10 volunteers.
2. NAGT-FWS Spring Conference was held in Santa Barbara California on April 1-3, 2016. It was sponsored by Jeff Meyer at Santa Barbara City College, and was made possible by dozens of student and college volunteers. There were close to 100 participants and a full schedule of events: Friday night light dinner and speaker (Diane Evans – *Eyes on Earth*; JPL Director of Earth Science and Technology; speaking on the past, present, and future of how we study earth from space), Saturday breakfast, 3 different field trips and a speaker (James Norris - Racetrack Playa, Mystery Solved), and Sunday breakfast and 3 different field trips and workshops. A conference for the record books!

D. Far Western Section Financial report as of June 10, 2016

<b>Income</b>	Current Year	Previous Year
National Dues	\$572.50	\$ 960 (two years combined)
Interest	\$ 7.07	\$ 7.74
Field Guides/Publications	\$ 438.20	\$ 248.10
Other/please specify (conference registration)	\$ 0.00	\$ 5,756.07
Other	None	None
<b>Total</b>	<b>\$ 1017.77</b>	<b>\$ 6,971.91</b>

<b>Expenses</b>	Current Year	Previous Year
Awards	\$ 2,250	\$ 1500
Meetings/Conferences	\$ 0	\$ 9,824
Bank Fee	\$ 0	\$ 0
Other (postage, sales tax)	\$ 3	\$ 30
Other (webmaster, President's expenses)	\$ 755.10	\$ 4,343.14
<b>Total</b>	<b>\$ 3005.10</b>	<b>\$ 15,697.14</b>

<b>Bank Account</b>	Current Year	Previous Year
Savings	\$ 26,256.71	\$ 28,175.45
Scholarship Fund	\$ 0	\$ 0
Other		
Other		
<b>Total</b>	<b>\$ 26,256.71</b>	<b>\$ 28,175.45</b>

<b>Summary</b>	Current Year	Previous Year
Beginning balance	\$ 28,175.45	\$ 36,900.68
Income (+)	\$ 1017.17	\$ 6,971.91
Expenses (-)	\$ 3005.10	\$ 15,597.14
Current Balance	\$ 26,187.52	\$ 28,175.45

**NAGT New England Section Annual Report  
2015-2016  
Lori Weeden  
Section President  
Report prepared July 15, 2016**

**2015-2016 Section Officers**

- **President:** Lori Weeden, Environmental, Earth, and Atmospheric Sciences, UMass.- Lowell, Lowell, MA, lori\_weeden@uml.edu
- **VP#1:** Tarin Weiss, Westfield State University, Westfield, MA, tweiss@westfield.ma.edu (Past President)
- **VP#2:** pending
- **Treasurer:** Julia Daly, Department of Geology University of Maine, Farmington, dalyj@maine.edu
- **Secretary/Newsletter Editor:** Richard Little (retired), Greenfield Community College, Greenfield, MA, RDLITTLE2000@aol.com

**Past Presidents (Councilors):**

- Elizabeth Gordon, Earth and Geographic Sciences, Fitchburg State University, MA, egordon3@fitchburgstate.edu
- Steve Winters, Holyoke Community College, Holyoke, MA, science\_matters@yahoo.com; swinters@hcc.edu
- Bruce Rueger, Colby College, Waterville, ME bfrueger@colby.edu
- Christine Witkowski, Middlesex Community College, Middletown, CWitkowski@mxcc.comnet.edu
- Tom Vaughn, College of Professional Studies, Northeastern University, Boston, MA, tvaughn17@comcast.net
- Karen Kortz, Community College of Rhode Island, Lincoln, RI, kkortz@ccri.edu

**OEST Awards Coordinators**

- Elizabeth Gordon, Earth and Geographic Sciences, Fitchburg State University, MA, egordon3@fitchburgstate.edu

**Executive Committee Liaison**

Karen Viskupic

**Goals from last Report:**

- There were no specific goals listed from the last annual report.

**NAGT Executive Committee work:**

- officer reports
  - This year we sent personal requests to all lapsed members either through email, or traditional mail. As a result our membership has increased from where it was for the 2014-2015 academic year.
  - Liz Gordon has taken over the duties of awarding the Outstanding Earth Science Teacher (OESTA) for the New England Section. We thank her for her assistance.
  - MA Senator Barbara L'Italien has been contacted regarding our goal of requiring Earth System Science in all Massachusetts high schools. This stems from an initial contact with MA Representative Sean Garballey.



- PDP workshop with field trip at NEIGC in October 2015.
- PDP workshops August 6<sup>th</sup> (Western MA) & August 13<sup>th</sup> (Eastern MA).

**Conference/meeting participation:**

- October 2015 NEIGC Middletown, CT hosted by Wesleyan University
  - President change to Lori Weeden
  - Vice President change to Tarin Weiss
  - First K-12 PDP workshop with current administration
- March 2016 section meeting Northeast GSA Albany, NY
  - Shared luncheon meeting with Northern section of NAGT. Meeting was standing room only!
  - Goals for New England section of NAGT for 2016 presented to attendees.

**Other activities relevant to NAGT:**

- **OESTA awarded to Joan Kadaras.** Joan teaches Earth Science at the Parker Middle School in Chelmsford MA and incorporates many best practices into her classroom to improve student learning. As a result of her teaching excellence and involvement in the science education community, Joan has received a number of teaching awards. Tom Vaughn, Joan's nominator, said: "Joan has a strong desire to help improve the teaching of the geosciences by reaching out to fellow educators beyond her classroom. She has made a significant impact on the Massachusetts Science and Engineering Standards by her many years of participation on the science standards committees. She has also made important contributions to making sure that the geoscience assessments are grounded on authentic teacher practice by her work on the Massachusetts Assessment Committees."
- June 2016 meeting with MA Rep Sean Garballey regarding future public high school curriculum earth system science requirements.

**Upcoming Activities**

- Tarin Weiss, Steve Winters & Richard Little (August 6, 2016) leading K-12 PDP workshop entitled: "A Geologic Field Trip of Western Massachusetts: The Connecticut River Valley." PDPs approved by School of Education at UMass Lowell.
- Lori Weeden (August 13, 2016) leading K-12 PDP workshop entitled "Exploring Eastern Massachusetts Geology." PDPs pending approval by School of Education at UMass Lowell.

**Goals for 2016-2017**

- It is the hope of this administration to bring attention to the lack of Earth System Science education in Massachusetts high schools. We have the opportunity as the leaders in the geoscience education community to make a difference. As president, I hope to pursue this goal. I also hope to continue to increase our section membership, so that we need a bigger room at the next GSA section meeting!

## *North Central Section Annual Report 2016*

*Submitted by Suki Smaglik*

### **Officers:**

#### *President*

*Suzanne M. (Suki) Smaglik, Lander, WY  
Suki.smaglik@gmail.com*

#### *Secretary/Treasurer*

*Katherine (Kata) McCarville, Ph.D., Upper Iowa University, Fayette, IA  
mccarvillek@uiu.edu*

### **Past-Year Activities:**

*Kata and Suki continue to hold the torch (no matter how dim) for the North Central section. We planned a section field trip to famous dinosaur areas in South Dakota and Wyoming, but the sudden termination of Suki's professional position in early May curtailed that activity. We plan to try again once Suki is settled on her new path.*

*We received two nominations for OEST this year. Sharla Hanzlik of Niobrara High School, NE is this year's section winner.*

### **Planned Activities:**

*We (still) need new officers for this section.*

### **Treasurer's Report:**

*submitted by Kata McCarville*

*The NAGT North Central Region is solvent, and has available funds totaling more than \$3200 at this time.*

## **NAGT Pacific Northwest Section 2015-16 Annual Report**

### **A. Current Section Officers**

#### **a. Executive Office**

##### **President**

Cassandra Strickland – Columbia Basin College, 2600 N 20th Avenue, Pasco, WA 99301, [CStrickland@columbiabasin.edu](mailto:CStrickland@columbiabasin.edu)

##### **Vice-President**

Frank Hladky- Frank Hladky - Coquille High School, Coquille, OR 97423, [fhladky@coquille.k12.or.us](mailto:fhladky@coquille.k12.or.us)

##### **Secretary-Treasurer**

Scott Linneman - Department of Geology, Western Washington University, Bellingham, WA 98225, [Scott.Linneman@wwu.edu](mailto:Scott.Linneman@wwu.edu)

##### **Past President**

Ron Metzger - Southwestern Oregon Community College, 1988 Newmark Avenue, Coos Bay, OR 97420-2912, [rmetzger@socc.edu](mailto:rmetzger@socc.edu)

#### **b. Communications**

##### **Newsletter Editor**

Carla Whittington – Highline Community College, P.O. Box 98000, 2400 S. 240th St, Des Moines, WA 98198, [cwhittington@highline.edu](mailto:cwhittington@highline.edu)

##### **Website Coordinator**

Cassandra Strickland – Columbia Basin College, 2600 N 20th Avenue, Pasco, WA 99301, [CStrickland@columbiabasin.edu](mailto:CStrickland@columbiabasin.edu)

#### **c. State-Province Councilors**

##### **Alaska**

Cathy Connor, University of Alaska Southeast, Juneau, [cathy.connor@uas.alaska.edu](mailto:cathy.connor@uas.alaska.edu)

Michael Collins, Geologist, Epoch Well Services, Anchorage, [collins\\_micha20@hotmail.com](mailto:collins_micha20@hotmail.com)

##### **Idaho**

Shawn Willsey, College of Southern Idaho, [swillsey@csi.edu](mailto:swillsey@csi.edu)

Dean Garwood, Idaho Geological Survey, [dgarwood@uidaho.edu](mailto:dgarwood@uidaho.edu)

##### **Oregon**

Frank Granshaw, Portland State University, [fgransha@pcc.edu](mailto:fgransha@pcc.edu)

Ron Metzger, SWOCC, [rmetzger@socc.edu](mailto:rmetzger@socc.edu)

Eriks Puris, Portland CC, [eriks.puris@pcc.edu](mailto:eriks.puris@pcc.edu)

##### **Washington**

Jeff Tepper, University of Puget Sound, [jtepper@ups.edu](mailto:jtepper@ups.edu)

Beth Norman, Pierce College, [bnorman@pierce.ctc.edu](mailto:bnorman@pierce.ctc.edu)

##### **British Columbia**

Brett Gilley, University of British Columbia, [bgilley@eos.ubc.ca](mailto:bgilley@eos.ubc.ca)

Tark Hamilton, Camosun College, Victoria, B.C., [thamilton@cmosun.bc.ca](mailto:thamilton@cmosun.bc.ca)

Todd Redding, UBC Penticton, [tredding@okanagan.bc.ca](mailto:tredding@okanagan.bc.ca)

#### **d. Awards**

##### **OEST Awards Coordinators**

Lynda Sanders, Marshfield HS, S. 10<sup>th</sup> and Ingersoll, Coos Bay, OR 97420,

[LyndaS@coos-bay.k12.or.us](mailto:LyndaS@coos-bay.k12.or.us) and Jodie Harnden, Sunridge Middle School, 700 SW Runnion Ave, Pendleton, OR 97801, [Jodie.Harnden@pendleton.k12.or.us](mailto:Jodie.Harnden@pendleton.k12.or.us)

## **B. Reports**

### **i. Annual Business Meeting**

The annual conference of the NAGT Pacific Northwest Section was held June 21<sup>th</sup> through June 24<sup>th</sup>, 2015 in Hell's Canyon based out of Hammer Creek Recreation site near White Bird, Idaho. No changes were made in the leadership. Treasurer's report was discussed (included in this annual report). Membership trends were discussed and future locations for annual conferences. Potential funding student registration was the primary concern for members.

The membership count is for 2016 is 162.

### **ii. 2015 OEST Awards**

- State (Oregon):
  - Christopher Carlton, Nyssa, Oregon
- PNW Section:
  - Andrew Bagley, Shorewood High School, Shoreline, Washington

### **iii. 2016 OEST Awards**

- State (Oregon):
  - Karen Shelton
- PNW Section:
  - Jonathan Hill, Marshfield High School, Coos Bay, Oregon

## **C. Annual Activities/Functions**

### **a. Events Sponsored by Pacific Northwest Section NAGT 2015-16**

NAGT PNW Annual Meeting, June 21-24, 2016, Hells Canyon, hosted by Andy Buddington and Keagan Schmidt. Attended by 18 registered participants and about a half dozen student visitors. Conference schedule:

1. Tuesday, June 21: Field Trip – Examine the “deformation belt” west of the arc-continent boundary along Hwy. 95, between White Bird & Riggi
2. Wednesday, June 22: Field Trip – Hammer Creek to Pittsburg Landing in Hells Canyon - Examine the Wallowa terrane & Klopton Creek thrust fault
3. Thursday, June 23: Field Trip – Salmon River Road east of Riggins
4. Friday, June 24: Field Trip – Clearwater & Lochsa Rivers - Examine exposures of the Idaho batholith

The section website continues to be updated by Cassie Strickland: [www.nagtpnw.org](http://www.nagtpnw.org)

The section newsletter is produced by Cassie Strickland. Newsletters collect information from section officers & members at large, and are distributed electronically, or available for download at: [www.nagtpnw.org/News-or-Reviews.html](http://www.nagtpnw.org/News-or-Reviews.html).

### **b. Planned 2016-17 Activities**

- Annual NAGT PNW meeting at the Center for Advanced Energy Studies (CAES), scheduled for the third week in June, 2017. Host- Doug Owen, National Park Service
- Future conferences: **To be announced.**

## D. Financial Report, NAGT Pacific Northwest Section

Savings/Checking Accounts with Whatcom Educational Credit Union (WECU), Bellingham WA  
Submitted by Frank Hladky, Sept 13, 2017

<b>NAGT PNW</b>	<b>S1-Savings</b>	<b>S7-Business</b>	<b>Total</b>
Balances on 9/1/15	\$11,993.45	\$ 1,320.49	\$13,313.94
<b>INCOME</b>			
<b>NAGT</b>	\$ -		\$ -
Guidebooks/donations	\$ 175.00	\$ 372.50	\$ 547.50
Conference (HC)	\$ 360.00	\$ 448.08	\$ 808.08
Interest	\$ 50.86	\$ -	\$ 50.86
	\$ 585.86	\$ 820.58	\$ 1,406.44
<b>EXPENSES</b>			
Kahle Fund scholarship	\$ -	\$ -	\$ -
Misc business	\$ -	\$ 709.69	\$ 709.69
Conference related	\$ -	\$ -	\$ -
	\$ -	\$ 709.69	\$ 709.69
Balances on 9/1/16	\$12,579.31	\$ 1,431.38	\$14,010.69

## Southeastern Section of NAGT

August 2016 - Annual Report

*Christy C. Visaggi*

### I. Leadership Updates

Our VP, Blair Tormey, was elected to the executive board for SEGSA. Unfortunately, it resulted in him having to step down from his current responsibilities at SENAGT. We will miss his contributions, but we are very pleased to welcome Frank Forcino as our new VP! In addition, Eleanor Gardner was formally elected as secretary (she had already been serving in that role). The complete list of officers and state representatives can be found at: [georgiarocks.us/nagt/](http://georgiarocks.us/nagt/).

### II. SEGSA 2016 – Columbia, SC

The annual business meeting for the section was held over lunch at the Liberty Tap Room as part of the SEGSA meeting in March/April 2016. Meeting attendance was quite high (~50 people). Our activities included the election of officers, brainstorming ideas for sessions/fieldtrips for SEGSA 2017, offering reminders regarding OEST nominations, sharing of useful apps or online resources related to geoscience education, and several other miscellaneous discussion items.

The sessions (and organizers) affiliated with SENAGT at the meeting include the following as well as a general geoscience education poster session. Below are a few reflections from the organizers and/or attendees.

#### *Issues in Environmental and Climate Education*

(Pamela Gore & Bill Witherspoon)

Nearly 75 people attended this session, four of whom were K-12 teachers who received awards to attend via SENAGT. Most presentations addressed climate education. Topics included an inventory of environmental controversies in North Carolina, a citizen science project for groundwater monitoring, climate change in the NRC K-12 Framework, a new InTeGrate module on climate change and energy, a classroom simulation of the “Carbon Fee and Dividend” proposal, feature of the Polar Explorer App for exploring sea-level rise, and a new InTeGrate module on storm risk and resilience. One additional speaker on paleoproxies in climate education published an abstract but ended up unable to attend.

-Draft provided by Bill Witherspoon

#### *Evolution and Geoscience Education*

(Frank Forcino & Rachel Salter)

This session was quite successful with up to 100 individual attendees representing K-16 geoscience educators to members of the general public. The presentations consisted of nine talks with a range of subjects, including evolution education, women in geosciences, citizen science, using tools such as seismometers for teaching geoscience, and the importance of workshops for geoscience educators.

-Draft provided by Frank Forcino

*Deep Time in the Congaree: an Educator Field Workshop*  
(David Shelley & Bill Witherspoon & Scott Werts)

Eight participants attended the Saturday workshop at Congaree National Park, a wetland system with over 26,000 acres of old-growth bottomland hardwood forests at the confluence of multiple rivers. The events for the day included a hike to Congaree River and overlook at Congaree Bluffs Heritage Preserve, walk to the old cypress tree, climate change discussion at the Visitor Center, and interactive coring at Muck Swamp. The geologic history of the landscape was linked to elements of the carbon cycle and how geochemical changes could be examined using isotopic analyses. Themes covered in the workshop related to cross-cutting concepts such as “Energy and Matter: Flows, Cycles, and Conservation” and “Scale, Proportion, and Quantity” in the NGSS K-12 Framework and standards specific to high school environmental science.

### III. Travel Awards & Partnerships

For the last two years, we’ve offered modest forms of support for K-12 teachers to attend SENAGT-sponsored sessions and/or fieldtrips as part of our activities at SEGSA. This year, we awarded four grants, including a shared cost approach by partnering with the South Carolina and Georgia Geographic Alliances funded by National Geographic. Lauren Barker, Veronica Dau, Jessica Martinez, and Kathleen Snelgrove were our awardees who attended the meeting, and Paige Flores, our Education Liaison to SEGSA participated as well. Here are a few of the comments submitted by the teachers in giving feedback about the fieldtrip and presentations:

*“I enjoyed watching and participating in the discussion on collecting data and analyzing it, and how what we expect is not always what we find!”*

*“I am hoping to involve members of the community, such as the senior center down the street, and local scientists in fielding questions from my students and grading and critiquing presentations by the students so that they have a real world perspective of how science is done. <...> I also plan to use Margie Turrin's app on Sea level rise, if I can get the iPads for a few days.”*

*“Mr. Manda’s approach involved training residents of North Carolina to collect their own ground water data rather than rely on pre-produced data, increasing the likelihood that the citizens would care more about the issue at hand. I started thinking about how Mr. Manda’s process with adults could be replicated with second graders.”*

*“I found David Shelley's presentation applying crosscutting concepts using climate change as the common thread to be enlightening. I look forward to using his presentation with the other science teachers in my department. The resources available on the SERC site make it easier to incorporate climate change principles across the curriculum. The Sea Level app gives students an opportunity to actively change variables and observe the outcome.”*

More reflections to come in the next SENAGT newsletter to be posted online at our website:  
<http://georgiarocks.us/nagt/>

#### IV. OEST Awards

We had 14 OEST nominations submitted through the NAGT website, and a number of additional nominations submitted directly to state representatives. Here is the list of awardees for 2016. We're overjoyed to report that we had a winner for each state in our section!

2016 Alabama OEST: Kathryn Busby  
2016 Florida OEST: Mohamed Kabani  
2016 Georgia OEST: Stephen Csukas  
2016 Louisiana OEST: Holly Patton  
2016 Mississippi OEST: Shelby (Dixie) Houchen  
2016 North Carolina OEST: Lindsay Knippenberg  
2016 South Carolina OEST: Deborah Ezell  
2016 Tennessee OEST: John Griffin

The section winner was Lindsay Knippenberg of North Carolina.

Given my participation in the process for revisions to OEST procedures and submission forms, I'd like to extend special recognition to the state representatives for providing feedback to me for our responses and concerns as a section in striving for improvements. Very much appreciated!

#### V. Upcoming Plans

The next SEGSA meeting will be in Richmond, VA, March 30-31, 2017. This meeting overlaps in location with the Eastern section of NAGT. To my knowledge, several sessions of interest related to geoscience education have been proposed. Two sessions submitted as part of activities promoted via SENAGT are:

*Methods for assessing knowledge and understanding among K16 students and the general public*  
(Western Carolina University)

*Transforming geoscience teaching and learning*  
(North Carolina State University)

#### VI. Membership

We have 156 members in the southeastern section as of August 1, 2016. To encourage recently lapsed members to rejoin, we did a membership drive early in the summer, whereby Frank Forcino, our new VP, emailed ~60 inactive members from previous years. We did see an increase in membership after this effort; however, our overall numbers now are similar in comparison to last year at this time.



### VIII. Facebook Page!

Thanks to Bill Witherspoon, we have a wonderful newsletter that is distributed every March and September to our membership. To enhance our communication with geoscience educators in our region and in hopes of recruiting new members for SENAGT, we started a facebook page in the last year. This new means of communication has allowed us to share opportunities and news to our members (and beyond) more frequently. We have 69 “likes” so far... and we are growing!

<https://www.facebook.com/National-Association-of-Geoscience-Teachers-Southeastern-Section-400556276800591/>

### IX. Field Camp Scholarship Award Report

Based on conversations as part of previous NAGT meetings, I decided to ask a student living in Georgia (who received a scholarship for field camp this summer via NAGT/AWG) to make an ArcGIS StoryMap to share her experiences supported by the scholarship. I'd love to see a form of “reporting” for awards that features work by students and helps promote the organization. Once her project is finished, we'll be sure to share her work!

### X. Financial Report

Thanks to Pamela Gore for her ongoing service as Treasurer!

- The checking account had \$4895.39 at the close of the calendar year.
- The section membership check from national of \$412.50 was deposited in February.
- Three awards were given to K-12 educators to attend events related to SEGSA at \$380.
- Bank interest for the year came to \$0.39.

Total in account as of our last bank statement on June 30, 2015 = \$4928.28



National Association of Geoscience Teachers c/o Carleton College B-SERC  
One North College Street, Northfield, MN 55057 • Phone 507-222-5634 • Fax 507-222-5175

Report to the NAGT Executive Committee  
Geo2YC Division  
1 September 2016

#### Current Division Officers

President: Kaatje van der Hoeven Kraft, Whatcom Community College, WA (2015-2016)  
Past -President: Ben Wolfe, University of Kansas Edwards Campus, KS (2015-2016)  
Vice President: Brett Dooley, Mt San Jacinto College (2015-2016)  
Vice President-Elect: Callan Bentley, Northern Virginia Community College  
Interim & incoming Secretary/Treasurer: Wendi Williams, Northwest Arkansas Community College (2015-2016, 2016-2019)  
Newsletter Editor: Thomas Whittaker, Unity College (2014-2017)  
Interim & Incoming Webmaster: Chris Johnson Salt Lake Community College, (2015-2016, 2016-2019)  
Archivist: Amber Kumpf, Muskegon Community College (2014-2017)

Geo2YC is in year five of existence as a division of NAGT. We currently have 258 members and an account balance of \$5484.34. The division remains focused on answering the question “How can we best support the 2YC community, both faculty and students?” We continue to promote our division in multiple ways to help build awareness and name recognition in addition to stability after some departure at the council level. After acquiring an interim Secretary/Treasurer and webmaster, we were able to begin to support our membership through gaining awareness and recognition at national and local levels. This included a small but vocal representation at the Heads & Chairs Summit on the Future of Geoscience Education, a large presence at the Earth Educator Rendezvous (more than 25 from different community and technical colleges), sponsorship of workshops and technical sessions at GSA, and representation at local geoscience professional development workshops associated with the SAGE2YC grant. We also continue to seek to better understand the needs of our membership in the broad Geo2YC community to work to support Geo2YC colleagues. This includes the forthcoming publication of our first white paper as a division supporting field based educational experiences in 2YCs, a discussion around lab-lecture loading, and ongoing exploration of using social media to strengthen the 2YC network.

Below is a summary of activities completed and in progress:

1. The Executive Board has met via teleconference four times this year to discuss ongoing projects and share Geo2YC related news.
2. With help from many contributors, we have published four newsletters, *Foundations*, in 2015-2016 (December, March, May, and September forthcoming) and distributed

through the Geo2YC website and the Geo2YC listserv. The newsletters include a variety of content, including field tips, reports from recent workshops, contributions of teaching pedagogies for 2YC faculty, incorporation of geoscience educational resources in the classroom, just to name a few.

3. We have received nominations for our Outstanding Adjunct Faculty Award, with four of the nominees showcased in newsletters. One outstanding adjunct has been highlighted in each edition of the newsletter, and one nominee will be chosen for the annual award to be presented by the end of the year. Each individual awardee is awarded a membership to both NAGT and the division, and the annual awardee is also awarded \$750 toward professional growth in partnership with Pearson publishing.
4. Both white papers (importance of field work and undergraduate curriculum) but we hope to have movement by the end of the year with both a formal publication of the field paper and greater movement on public comment period.
5. We continue to partner with AGI to update the existing “master” database of two-year colleges, aiming to include Geo2YC information in the Directory of Geoscience Departments. The survey data continues to be collected to assist with this effort.
6. External support of the Geo2YC community continues, and Geo2YC has been able to advertise those opportunities through the Geo2YC listserv. This includes funding opportunities through NSF IUSE grant solicitation webinars, support from NSF for 2YC faculty to attend the Earth Educators Rendezvous, Summit on the future of undergraduate geoscience education and various Integrate workshops.
7. We will be participating in GSA 2016 activities.
  - a. Geo2YC is a co-sponsor of a short course and two technical sessions:
    - i. Interactive Strategies for the Classroom: A How-to guide using examples about igneous rocks
    - ii. T-84 & 86. Planning to make a difference through the next generation science standards; parts 1 (K-12 initiatives) and 2 (undergraduate and teacher training initiatives)
    - iii. T87. Supporting Students with Disabilities: Innovations and Strategies for Geo-Success
    - iv. T88. Technological Innovation in Geoscience in Two-Year Colleges
  - b. The fifth business meeting of the Division will be held Sunday September 25th, 2016 at GSA.
  - c. We will continue to promote the Division with the use of Geo2YC brochures, newsletters and scale pencils.
8. We continue to work with members to serve as NAGT and GSA Sectional liaisons to help us identify members and promote the division at sectional and regional meetings. We are currently working to recruit liaisons.
9. Our website is continually maintained. We will work to keep this updated and hope to make the website more robust by including more information about the broader Geo2YC

community, as well as have a greater presence in social media to reach our members in a variety of ways.

10. A large commitment from the Heads & Chairs Summit on the Future of Undergraduate Geoscience Education of most universities and colleges present was to work on partnering with two-year colleges. Based on that commitment and the conversations from the summit, several members in the division requested and received commitment from the geo2yc division to use the NAGT resources for supporting a future workshop should they receive funding from NSF.
11. We have elected our incoming Vice-President, Callan Bentley, from Northern Virginia Community College. We are in the last year of service for our archivist, Amber Kumpf and newsletter editor, Thomas Whittaker and will include a call for new volunteers along with a vice president in the election cycle of Spring 2017. Brett Dooley will assume duties as President of the division and Kaatje Kraft will transition to Past-President at our board meeting at GSA

Respectfully submitted by,  
Kaatje Kraft  
Whatcom Community College  
Geo2YC Division President



**NAGT Final Report**  
**Fall 2016**  
**Jeff D. Thomas, President (2015-17)**  
**Report prepared: August 2, 2016**

### **Elected Officers**

Past President: Heather Petcovic, Western Michigan University (2015-17)

President: Jeff Thomas, Central Connecticut State University (2015-17)

Vice-President: Mark Turski, Plymouth State University (resigned)

Vice-President Elect: Suzanne Traub-Metlay, Western Governors University (2016-17)

Secretary/Treasurer: Mark Abolins, Middle Tennessee State University (2014-17)

Media Director: Steve Mattox, Grand Valley State University (2014-17)

### **Ex Officio Officers**

Liaison to NESTA/NSTA: Eric Pyle, James Madison University

Liaison to NAGT: TBD

### **Goals from last Report:**

- Solicit news and articles for our second newsletter, to be released in October 2015 (met).
- Identify initiatives or activities that TED can support financially with member dues (in progress).
- Update and maintain the TED website, including incorporation of the former NAGT Teacher Education pages (in progress).
- Identify a TED member to serve on the organizing committee for the 2016 Earth Educators Rendezvous (met).
- Sponsor or host NAGT initiative and activities related to teacher education (met).
- Work with NAGT journals (Journal of Geoscience Education and In the Trenches) to promote dissemination of research and best practices in teacher education (not met).

### **NAGT-TED Executive Committee:**

#### **Attended Meetings**

- Jeff Thomas, Kyle Gray, and Heather Petcovic attended the 2015 NAGT ExCom meeting held at the 2015 GSA Conference in Baltimore MD.
- Jeff Thomas attended NAGT virtual meetings on January 26, 2016 May 14, 2016 and August 5, 2016.
- NAGT-TED Executive Board held its first virtual meeting on May 3, 2016.

#### **President's Report**

- TED Executive Board voted to have two virtual meeting each year (one in mid-April and the other mid-September) in addition to the in-person annual meeting at the National GSA Conference.

- Mark Turski, who retired, declined the automatic nomination of TED president. As a result, the TED Executive Board, at our spring virtual meeting, decided all current officers will seek a second term. To replace Mark as Vice President, Suzanne Traub-Metlay was nominated. It is assumed, since voting closed a few weeks ago, that all TED officers that were nominated were elected for a second term since they ran unopposed.
- The TED Executive board voted to publish a regular summer (published during June or July) and winter newsletter (published during January or February).
- TED sponsored the follow session at the 2016 GSA in Denver CO titled: *T72. Advances in In-Service and Pre-Service K-12 Earth Sciences Teacher Preparation and Professional Development.*

#### **NAGT-Ted Committee work:**

- During the fall of 2016, TED will solicit members for an ad-hoc committee to create a clearinghouse of teacher preparation resources (e.g. NGSS) and place them on the TED website.
- TED would like solicit members to advertise the OEST Award in their states of the NAGT ExCom agrees. For instance, Jeff Thomas from Connecticut will contact the Connecticut Science Teachers Association to send an email advertising the award.

#### **Goals for next reporting period:**

- Solicit news and articles for our 2016 Winter Newsletters from our members. The President and at least one other TED Executive Board member will write at least article per year.
- Plan for the 2016 Business Meeting at GSA during the fall virtual TED meeting (Aug/Sept).
- Identify initiatives or activities that TED can support financially with member dues.
- Update and maintain the TED website such as InTeGrate and NGSS resources related to Teacher Preparation. An ad-hoc committee will be formed in the Fall of 2016.
- Identify a TED member to serve on the organizing committee for the 2017 Earth Educators Rendezvous.
- Sponsor or host NAGT initiative and activities related to teacher education for GSA, AGU, and others. Consider a activity at GSA similar to GER.
- Work with NAGT journals (Journal of Geoscience Education and In the Trenches) to promote dissemination of research and best practices in teacher education.

## NAGT-GER Division Annual Report

Report to the NAGT Executive Committee  
Geoscience Education Research Division  
June 28, 2016

### **Current Division Officers**

Nicole LaDue – President  
Todd Ellis – Vice President  
Katherine Ryker – Secretary  
Kim Cheek – Treasurer  
Laura Lukes - Past President

At GSA in November 2016, new officer terms start with:

Todd Ellis – President  
Karen McNeal – Vice President  
Katherine Ryker – Secretary  
Anne Gold – Treasurer  
Nicole LaDue - Past President

The division is wrapping up its second year and has spent the year building community and promoting GER.

At the 2015 Annual Fall Meeting of GSA, the GER Division officers chaired a session on GER Methods. We had more abstracts submitted than we could accept and attendance was high throughout the session. We received very positive feedback on the quality of the session. As a result, we asked session participants to share their presentation slides on the GER Division website and have proposed another session for 2016 Fall GSA. This upcoming session asks presenters to share how they made their methodological decisions based on their of research questions.

At GSA the three divisions coordinated our schedules so that our meeting times did not overlap and people belonging to multiple communities could attend multiple business meetings. This appeared to be a successful model we would like to continue. The GER Division also held a social event where those that attended participated in a “speed dating” activity to help connect people with one another.

This year our Newsletter has moved from 2-3 times per year to a monthly newsletter. Substantial credit goes to the New Communications Director, Kelsey Bitting, who has spearheaded this effort. We invited the community to submit funding opportunities and researcher papers that can be highlighted in our newsletters through links on the Division webpage. Additionally, we started the Spotlight to highlight the type of work done by various researchers in the

community. We hope this will help connect people that may not already know one another.

A big accomplishment that was initiated by Laura Lukes and was followed up on by Nicole LaDue, was the AGU/AGI Heads & Chairs Webinar: The Benefits and Challenges of having GER faculty in your Department. We recruited Walt Robinson (Chair, NCSU), Karen McNeal (NCSU), and Anthony Feig (CMU) to provide their diverse perspectives on GER Tenure and Promotion. We hope this webinar serves as an ongoing resource for department heads and chairs faced with evaluating GER faculty in their midst.

This spring we proposed a by-law change to help our Division stagger the terms of the Secretary and Treasurer. The motion was approved.

An ongoing challenge for our Division is the NAGT policy that the Treasurer of the Division is responsible for opening and maintaining the Division bank account. We know that other Sections and Divisions have similar challenges and hope the Executive Council may consider a more centralized approach in the coming years.

This coming year, we hope to continue building community within our Division. We hope to address our membership's desires for additional professional development in research methodologies and offer support for departments considering the tenure and promotion of GER faculty.

I'd like to personally thank Laura, our outgoing Past-President for being an ambitious and hard-working first president. Through her tireless efforts, the GER Division made a strong start in meeting the needs of our members. We are also sad to lose our first Treasurer, Kim Cheek. The Division leadership has worked very well together and made decisions as a cohesive unit, regardless of our positions. We will miss Kim's contributions as a member of that team. I also want to welcome Karen McNeal, the incoming Vice President and Anne Gold, the incoming Treasurer. We are grateful for your commitment to the Division and look forward to your contributions.

Thank you to Todd Ellis for serving as our Vice President this year. I look forward to your Presidency next year and appreciate you stepping in to take the lead early as I go on family leave.

The Division leadership looks forward to continued growth as a community of practice!

The NAGT-GER Division Team:

Nicole LaDue  
Northern Illinois University  
President (2015-2016)



Vice President (2014-2015)

Todd Ellis  
Western Michigan University  
Vice President (2015-2016)

Katherine Ryker  
Eastern Michigan University  
Secretary (2014-?)

Kim Cheek  
University of North Florida  
Treasurer (2014-2016)

Laura Lukes  
George Mason University  
Past President (2015-2016)  
President (2014-2015)

# William A. Prothero

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Date: 8/3/2016

To: NAGT Executive Committee

Re: 2016 Final report for NAGT OEST Awards

This is the fourth year that the new OEST award nomination procedure has been in place. This year we have made refinements to the OEST award web pages and procedures manual.

In order to smooth the nomination and award process, we addressed several issues. The first was whether to accept self-nominations. For AGU and GSA awards, nominations are made by colleagues, so we needed to consider this issue in the context of NAGT, where teachers may not be as familiar with others' activities and accomplishments. We chose to allow self-nominations.

To better support state winners, we also added an "Info for OEST State Winners" page to the OEST Awards page, with corresponding updates to the nomination form. The OEST Process and Procedures Manual is also being updated, in response to comments from the NAGT board and others.

One important issue arose when there were self-nominations from the Texas section, which is inactive. There were only two nominations, and each was exceptionally worthy of an award. The link to the award coordinator for the Texas section was to a person who did not respond to inquiries. The OEST committee coordinator (me) made the award nominations. However, for the future a more robust procedure should be implemented. Perhaps Texas nominations can be included with another section's nominations, or perhaps the Texas section could be incorporated into another section.

Here is a short list of the number of nominations received by the sections. The small number of nominations to choose from (for the awards) indicates that more effort is needed in publicizing the OEST award.

- Southwest - 9 nominations
- Far Western - 9 nominations for 6 nominees total
- Eastern - 1 nomination
- Central Section 10 unique nominations, 5 teachers applied to be considered
- Mid-continent - 2 nominees
- N central - 2 nominees

## **This year's awardees are:**

NAME	OEST Award	SCHOOL

<b>Section Winners (8)</b>		
Will Squires	Midcontinent	Caddo Hills High School
N/A	Eastern Section	
Sharla Hanzlik	North Central Section	Niobrara High School
Troy J. Simpson	Central Section	Glenn Raymond School
Jonathan Hill	Pacific Northwest Section	Marshfield High School
Joan Kadaras	New England Section	Col. Moses Parker Middle School
Matt Affolter	Southwest Section	Cottonwood High School
Lindsay Knippenberg	Southeast Section	Mooreville Senior High School
Laura Branch	Far Western Section	Ernest Righetti High School
Sabrina Ewald	Texas Section	Centennial High School
<b>State Winners (15)</b>		
Karen Shelton	Oregon State	Central Middle School
Dustin Smith	Washington State	
Meaghan Richardson	Maryland State	
DeAnn O'Toole	Ohio State	Pattison Elementary School
Jody Bergeson	Minnesota State	Twin Bluff Middle School
Deborah Ezell	South Carolina State	Chesnee High School
John Griffin	Tennessee State	Anita Tucker
Shelby J. "Dixie" Houchen	Mississippi State	Pearl Junior High School
Holly Payton	Louisiana State	Ruston Junior High School
Lindsay Knippenberg	North Carolina State	Mooreville Senior High School
Stephen Csukas	Georgia State	Tucker Middle School
Kathryn Busby	Alabama State	Tuscaloosa Magnet School Elementary
Mohamed Kabani	Florida State	Gordon Burnett Middle School
Jessica Kindel	Colorado State	Jefferson High School
Kirk Wright	Utah State	Mt. Nebo Junior High
Gary Bodman	New Mexico State	Eldorado High School
Pradip Misra	Arizona State	Bagdad High School
Belinda Jacobs	Texas State	Cedar Ridge High School

The following table shows which sections made awards:

## **Nominations by Section (from National web site)**

Central - 9  
Eastern - 7  
Far Western - 4  
Midcontinent - 1  
New England - 3  
North Central - 3  
Pacific Northwest – 5  
Southeastern - 14  
Southwest - 1  
Texas - 1

## **Issues for further consideration:**

**Self nominations:** The question of “self-nominations” has arisen again, with one self-nomination. Perhaps the web site could be more explicit about self-nominations, which are discouraged. This issue was discussed at last year’s meeting, I think.

**NAGT web site:** The award process, as envisioned when the changes were made 2 years ago, involved an initial nomination process, where the nominator could make the case for the merit of the nominee. This was intended to be relatively brief, so that the nomination process wouldn’t be so difficult that nominations were discouraged. The next step would be the OEST representative for the section notifying the nominee, who would then take the second step of supplying more information to support the award. Only nominees considered to be viable would be asked to conduct this second step. This step has been, to date, left up to the individual sections.

The current arrangement makes it difficult for the information on the award process to be accessed by the section leaders and those managing the award process. It would be very helpful if the web site initiated some changes that made this information more easily available.

## **Some ideas include:**

1. Make the page containing the list of nominations able to show (filter) only the nominations for a particular section, and that are for the current “round”.
2. Make a form, with some general guidelines, for the nominee to enter or add more supporting material. This way, this material would be easily accessible by all of the section leaders.
3. Make a nomination “status” page, with links to the original nomination form and to the nominee’s added info, plaque ordering status, etc.
4. These lists should be “filterable” by section, or show the full list. The OEST section committees should be polled to provide input as to what else is needed.

I suspect that an implementation of the above suggestions would lessen Erica’s work responding to individual inquiries and make a more transparent and efficient award management process.

**Goals:** The number of nominations has not increased significantly. More work needs to be done to publicize the award. I intend on doing some brainstorming to find more ways to announce this award. I haven’t had much luck querying the sections for ideas. This will be my main OEST goal for next year.

2016 Report for NAGT TA Award  
From: Jeff Niemitz

The NAGT TA Award program has two deadlines; one in December and one in June. In the past it was felt that two deadlines would encourage applications in a more timely fashion, i.e. at the end of each academic semester. While the applications have increased slightly from past years and despite advertising the TA Award in the “In the Trenches” magazine, we have not seen the kind of increase in applications that we would like. Nonetheless, the quality of the applications remains extraordinarily high and we have not had to reject any legitimate applications.

I mention legitimate applications because we had two applications this year that were unusual. In the December round we received an application from a student who was in the class of the TA being recommended. Despite the application not coming from a faculty member, the application was quite passionate and detailed with respect to why the student thought the TA deserved the award. We asked the student nominator to ask the professor of the course to corroborate the student’s nomination. She did and the professor responded with equally high praise for the TA. We gave the TA the award.

The second rather unique application was from an elementary school teacher nominating her teaching aide. We did not know how the nominator found the TA Award information nor are we sure if there was any attachment to the Earth Sciences per se. We rejected this application. In total we had 10 applications; 3 in December and 7 in June. We accepted all except the one just mentioned. As a side note I am happy to say that one of my former students received one of the awards as a TA now in graduate school.

Overall, the TA Award program though small is stable. I would like to see more nominations from four-year colleges where TA’s are invaluable to faculty. How we reach all faculty with TA’s in an efficient way continues to be a challenge when many of the faculty are not NAGT members. We would, of course, appreciate any wisdom from the Executive Committee.



## **ANNUAL REPORT 2016: NAGT/USGS COOPERATIVE SUMMER FIELD TRAINING PROGRAM**

The 2016 Field Season for the NAGT/USGS Cooperative Summer Field Training Program marked the 51<sup>st</sup> year of what is now one of the longest running science internship programs in the nation. More than 2,300 students have participated in this program since it was first conceived in 1965 by William "Bill" Pecora, then the newly appointed Director of the US Geological Survey. Many of these students have gone on to become well-known leaders, influential professors and outstanding contributors to the knowledge base of geoscience. (More information about the history, operation of this program, and this year's interns can be found at: <http://education.usgs.gov/nagt/NAGTFlyer2016.pdf>.)

This year, 106 students were nominated by field camp directors, and 96 of those students completed an application for the program. After receiving 56 proposals from USGS scientists and after the proposal review panel met and matched students to projects, a total of 52 students were placed with USGS science projects. Since bringing new life back into this historic program a decade ago, we have now gone from 8 placements in 2002, to numbers that are consistent with the historical average for this program.

Summary of information and tasks completed in 2016:

- Letters went out from NAGT to field camp directors seeking nominations of qualified students in early September.

The program maintained a restriction on the number of nominees from each field camp as follows:

- One student if the camp enrollment is 20 students or less
- Up to 2 students if the camp enrollment is 21-40 students
- Up to 3 students if the camp enrollment is 41-60 students
- Up to 4 students if the camp enrollment is greater than 60 students

In order to keep the program manageable we monitor the number of allowable field camp nominees on an annual basis.

This year we continued the practice, introduced five years ago, of requesting that Field Camp Directors include a brief description of the attributes of the particular nominees selected. This greatly helps the USGS Placement Panel in their efforts to place a student with a project best suited to their abilities while also helping USGS mentor scientists in preparing to conduct their interviews with students.

- In October, letters were sent to all 106 nominees from both NAGT and USGS congratulating them on their nomination and instructing them on how to apply. The application is through USAJobs. A total of 96 students (91% of nominees) completed the application deadline by the December 31 deadline.
- The USGS solicited internal proposals from scientists wishing to host an NAGT intern in the fall. A total of 56 proposals were received, and ultimately 52 were matched with interns. A list of interns and their research projects for 2016 is attached. The USGS has a broad scientific mission that includes areas beyond traditional field geology like hydrogeology, ecology, and climate change. It continues to be a challenge to educate students about the value of doing an internship in a field they had not previously considered.
- We continue the practice of annually updating our comprehensive listing of geology field camps nationwide – including, in most cases, contact names and websites. Using the same research procedures employed when the list was developed five years ago, we were able to cross-check and identify 120 active field camp programs during the 2016 academic year. Website links were identified for each program, as well as specific contact information for the respective field camp instructors. This listing is maintained on the USGS Education website and also linked placed on NAGT's website. <http://education.usgs.gov/nagt/geofieldcamps.html>

- Program evaluations are sent to both scientists and interns toward the end of the summer field season. USGS sends evaluations to the scientists and NAGT sends evaluations to interns. These evaluations, copies of information referenced in the bulleted items above, and detailed, multi-year comparative program information, will be provided in the full packets to those attending our Annual Joint NAGT/USGS Internship Meeting on Sunday, September 25, 2016 from 2:00-4:00pm.
- The USGS, Youth and Education in Science Office provides 50% of the intern salary support for a period of up to 12 weeks. Individual scientists, through their science centers, supply the other 50% support. Although final expenditures will not be determined until later next month, it is estimated that the collective support for this program is in excess of \$400,000.
- The Federal Recent Graduates hiring program provides a much sought-after opportunity for NAGT/USGS interns to continue employment for up to three years, with the intent of permanent hire (if funding is available).
- The previous National Education Coordinator at USGS, Bob Ridky, has retired. The replacement in this position is now the USGS Youth and Education in Science (YES) Program Manager, Dr. Eleanour Snow.

9/10/15

Eleanour Snow /s/  
Youth and Education in Science Manager  
U.S. Geological Survey

Laura Corey /s/  
Education Program Analyst  
U.S. Geological Survey

Penny Morton /s/  
NAGT Internship Representative  
University of Minnesota, Duluth



**NAGT/USGS 2016 Cooperative Summer Field Training Program Internship Placements**

<b>Student Intern</b>	<b>Project Title</b>	<b>Researcher</b>
James Amato BS Geosciences University of Wisconsin Milwaukee	Understanding the variability in climate-aquatic linkages	Robert Al-Chokhachy Yellowstone and Bozeman, MT
Jeremy Ashburn BS Geology Baylor University	Earthquake hazards in the Central and eastern U.S.	Walter Mooney Menlo Park, CA
Kimberly Barry BS Geology, Chemistry minor University of Texas Arlington	Geochemical processes relating to resource extraction and human health	Jeffrey Chaplin Bradford County, PA
Kristin Beck MS Applied Geoscience University of Washington	Volcanic hazards in the Cascades: teasing out the history of explosive eruptions from far-traveled volcanic ash deposits	James Vallance Vancouver, WA
Julia Bowe BS Geology University of Wisconsin Eau Claire	Support of the Connecticut groundwater-level network	John Mullaney East Hartford, CT
Isaac Bukoski BS Geology East Carolina University	Cape Cod hydrologic research	Denis LeBlanc Northborough, MA
Rials Christensen BS Environmental Science University of Utah	Microfossil indicators of Paleocene and Eocene paleoenvironments	Marci Robinson Reston, VA
Hannah Cohen BS Geology University of Illinois	Hydrologic/geologic technician	Katherine Skalak Reston, VA
Tait Earney BS Geology South Dakota School of Mines and Technology	Geophysical investigations related to geothermal, mineral, and water resources and to natural hazards in the Western U.S.	Victoria Langenheim Menlo park, CA
Frederick Fenner BS Geology University of Houston	Geochemical processes relating to resource extraction and human health	Jeffrey Chaplin Bradford County, PA
Marcel Gaztambide BS Geoscience University of Utah	Multidisciplinary assessment of water resources for various projects including Bridge Deck Runoff, Grounwater Model Development, ad National Water Quality Assessment	Celeste Journey Columbia, SC
Robert Gibler Senior, Geophysics and Geology University of Houston	A Geological and geophysical studies of the San Andreas Fault system	Shane Detweiler Menlo Park, CA
Gabriel Gordon BS Earth Sciences University of California Santa Cruz	Mapping the Missoula floods	James O'Connor and Ralph Haugerud Portland, OR
Annette Hein BS Geology University of Wyoming	Modeling and measurement of unsaturated zone flow processes	John Nimmo Menlo Park, CA
Andrea Hylant BS Earth & Environmental Sciences University of Michigan	Applied hydrogeophysics research	John Lane Storrs, CT
Chelsea Jolley BS Geology Brigham Young University Idaho	Peatland responses to centennial and millennial-scale changes in North Pacific hydroclimate	Miriam Jones Reston, VA
Caroline Kellner BS Science of Earth Systems Cornell University	Field and laboratory investigations of serpentinites and associated rocks in the Northeastern California Coast ranges	Stephen Kirby Menlo Park, CA
Mitchell Lassa BS Comprehensive Geology University of Wisconsin	Surface-water and ground-water networks	Gerard Butch Troy, NY

Zoe Lefebvre BS Earth and Planetary Sciences Washington University	Sea turtle movements and habitat-use, American crocodile nest monitoring and Burmese python movement and habitat-use	Kristen Hart Davie, FL
Geoffrey Luty BS Geology Slippery Rock University	Biological, water-quality, and hydrological assessments in Arkansas streams and groundwater	Billy Justus Little Rock, AR
Joseph Mason BS Geology Fort Lewis College	Tectonic geomorphology and seismic hazards in Northern California	Stephen DeLong Menlo Park, CA
Ian McBrearty BS Geology and Mathematics Iowa State University	New clues to pre- and post- earthquake deformation	Joan Gomberg Seattle, WA
Emma McConville BS Geology University of Maryland	Geologic databases and fieldwork for the Yellowstone Volcano Observatory	Jacob Lowenstern Menlo Park, CA
Bethany Morter BS Geological Sciences University of Oregon	Volcano and seismic hazards assessments	Walter Mooney Menlo Park, CA
Joshua Mudge BS Geology Fort Lewis College	Arsenic in Minnesota groundwater; occurrence and relation to hydrogeologic and geochemical factors	Melinda Erickson Mounds View, MN
Samuel Nilsson BS Geology Western Washington University	Plant phenology, climate change and wildlife habitat quality	Geneva Chong Jackson, WY
Madeline O'Brien BS Earth & Environmental Sciences Wesleyan University	Photogrammetry of active thermal areas in Long Valley Caldera	Laura Clor and Greg Vaughan Menlo Park, CA
Adam Ofstun BS Geology and Economics University of Pittsburgh	Assessing environmental conditions in areas of known mineralization in the Lake Superior Basin	Perry Jones Mounds View, MN
Nick Ogasa BS Earth Science University of California Santa Cruz	Stress states of the Coso Geothermal Field throughout its production cycle	J. Ole Kaven Menlo Park, CA
Emily Paine BS Earth Science Rice University	Characterizing individual cyanobacteria species using hyperspectral data	Nancy Simon and E. Terrence Slonecker Reston, VA
Jeremy Patterson BS Geology Colorado State University	Groundwater flow and contaminant transport in fractured-rock aquifers	Claire Tiedeman Lawrenceville, NJ
Sean Payne BS Geology Humboldt State University	Columbia Plateau principal aquifer study	Jennifer Morace Portland, OR
Lincoln Pettinger BS Geology Montana State University	Investigating factors which determine the niche of a species that lives in rocky talus slopes: merging ecology, biogeography, climate and geology to inform conservation of the American pika	Erik Beever Bozeman, MT
Hannah Podzorski BS Geological Engineering and Geophysics University of Wisconsin Madison	Fluvial biogeochemistry at multiple scales: the role of streambed processes in controlling nutrient and carbon cycling in stream ecosystems	Edward Stets Boulder, CO
Mattie Reid BS Geology Bucknell University	Paleoseismologic and geologic investigations of active faults in the Pacific Northwest	Scott Bennett Seattle, WA
Charlene Rogers BS Geosciences University of Wisconsin Milwaukee	Support of the Connecticut groundwater level network	John Mullaney East Hartford, CT
Kelly Sanks BS Geology/Environmental Science Illinois State University	Fate of salt marsh carbon in eroding and drowning marshes	Meagan Eagle Gonneea Woods Hole MA
Jonathan Schafer	Wind River watershed cooperative fish population and	Ian Jezorek and Patrick Connolly

BS Geology Bowling Green State University	restoration assessment	Cook, WA
Daniel Scheeler BS Earth Sciences Minnesota State University	Vegetation and fluvial geomorphic relations	Cliff Hupp Reston, VA
Jonathan Schwing BS Geology University of Oklahoma	Geologic mapping and geomorphic analysis of early Colorado River deposits	Ryan Crow and Kyle House Flagstaff, AZ
Brian Snow BS Environmental/Engineering Geology Western Washington University	Block the migration of an invasive fish using low voltage pulsed direct current	Nicholas Johnson Millersburg, MI
Alicia Solomon BS Geological Sciences University of Kentucky	Investigations into the bioavailability and bioaccumulation of selenium and mercury in the San Francisco Bay estuary	Robin Stewart Menlo Park, CA
Alivia Stoller BS Geology Illinois State University	Paleoseismology of the northern San Andreas Fault system	Carol Prentice Menlo Park, CA
John Swiecichowski BS Earth Science University of Minnesota Twin Cities	Microbial degradation of organic compounds in hydraulic fracturing produced waters	Denise Akob Reston, VA
Mark Szymanski BS Geology California State University Chico	Geologic databases and fieldwork for the Yellowstone Volcano Observatory	Jacob Lowenstern Menlo Park, CA
Douglas Tebo BS Geology University of Texas Arlington	Field assistant for iMUSH seismic stations	Roger Denlinger and Wes Thelen Southwest Washington
Meghan Thompson BS Earth Sciences Boston University	Wyoming groundwater quality monitoring network	Greg Boughton Cheyenne WY
Ryan Till BS Geology University at Buffalo SUNY	Geodetic monitoring of Cascade Range volcanoes and Yellowstone	Michael Poland Vancouver, WA
Emily Tinkler BS Geology Whitman College	Digital geologic map compilation in northern Sacramento Valley, the Sierran Foothills, and the California Coast Ranges	Donald Sweetkind Denver, CO
Meghan Toft MS Student Geosciences University of Massachusetts	Northeast bedrock mapping	Gregory Walsh Montpelier, VT
Wesley Weisberg BS Geology Missouri State University	Melt and fluid inclusion analysis in resource investigations	Albert Hofstra Denver, CO
Elizabeth Whiddon BS Earth and Environmental Sciences University of Michigan	Aquatic biogeochemical cycling: inland waters carbon fluxes	Rob Striegl Boulder, CO

## NAGT Exec Comm report: August 2016 NAGT NGSS Support

NGSS adoption is underway in states, districts and individual schools and classrooms. To date 16 states and the District of Columbia have adopted NGSS, representing more than half of the nation’s pre-college students. Many more districts and schools are informally adopting NGSS as their state’s deliberate. The implications reach beyond K-12 as the teachers who will teach NGSS are in our undergraduate classrooms and the current population of K-12 students will be ready for more when they reach college. Informal educators are also adopting NGSS in their programming and professional development activities.

AGI and NAGT partnered to convene a “Summit on Implementation of the Earth and Space Science NGSS”, attended by agencies, pre-college leaders, professional societies and other education leaders (spring 2015). The Summit conveners received support from NAGT, AGI, and others to conduct follow on programming. Having increased the capacity of Summit attendees to work together on ESS NGSS Implementation, the conveners set a goal of increasing the diversity and numbers of people involved in the network to further strengthen the capacity of the network to work together.

Funds were requested to:

- Establish a 7-10 person working group to include NAGT members and others to meet via teleconference approximately biweekly during very active times and monthly in slow times.
- Support the existing NGSS listserv and archive communication.
- Establish web pages to house archives, resources and event notifications.
- Establish a webinar series for the larger community to share practices and plan events (ex. NGSS tagging practices-invite GLOBE, NASA, CLEAN)
- Support Town Hall meetings at AGU and GSA 2015.
- Support a GIFT workshop meeting at AGU with AGU and NESTA.
- Develop and expand the resources pages begun at the Summit.

Budget line items requested were:

Activity	Budget requested	Activities & Outcomes
Phone line for working group calls	576	NGSS Working Group was established fall 2015. Two calls have been convened. Discussions focused on: webinar topics and presenters, and sharing resources through resource pages.
Webinars - phone line & screen share	900	Five webinars in a monthly webinar series were conducted. All are archived (and slides are available) on the NGSS Summit NAGT webpage. <ul style="list-style-type: none"> <li>- Building a State Coalition for NGSS-ESS - 28 participants</li> <li>- Supporting Elementary Teachers with the NGSS - 78 participants</li> </ul>

		<ul style="list-style-type: none"> <li>- Classroom Assessment Strategies for NGSS-ESS - 88 participants</li> <li>- Helping Educators Use Your Resources - 32 participants</li> <li>- Maintaining the Momentum - 24 participants</li> </ul>
Town Hall & GIFT workshop supplies	450	<p>Town Hall meetings were held at both GSA and AGU.  Links to documents:</p> <ul style="list-style-type: none"> <li>- <a href="#">GSA TownHall meeting slides</a></li> <li>- <a href="#">AGU TownHall meeting slides</a></li> </ul> <p><a href="#">GIFT workshop slides</a></p> <p>NAGT funds did not support these activities.</p>
SERC staff	8316	SERC staff time was needed to cover webinar logistics, website modifications, and listserv set-up.
Resource pages	3395	The Summit conveners are continuing to work on these pages.
Travel support for Town Halls & workshops	500	NAGT funds were not used to support these activities.

Report respectfully submitted by:

Susan Sullivan (NAGT Past President)

Aida Awad (NAGT Past President, Treasurer/Secretary)

Edward Robeck (AGI, Director of Education and Outreach)