

National Association of Geoscience Teachers

2015 Annual Report

Prepared for the 2015 Annual Meeting

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Annual Report: Oct., 2015 - Sept., 2015

James D. Myers, President

October, 2014 - GSA Annual Meeting - Vancouver, British Columbia

- NAGT
 - o Attended and presided over Executive Committee
 - o Attended Council Meeting
 - Attended AGI-GSA Associated Societies Meeting as NAGT representative
 - Attended NAGT-GSA Education Division Luncheon and Awards Ceremony
 - o Attended NAGT/USGS field internship program as NAGT representative
 - o attended NAGT Past Presidents breakfast as incoming president
 - o meet with AGI leadership for update and discussion
 - Volunteered at NAGT booth

2014-2015

- NAGT meetings
 - o chaired Executive Committee meetings on:
 - January 15, 2015, virtual
 - April 18, 2015, face-to-face (except for me)
 - June 12, 2015, virtual
 - September 17, 2015, virtual
 - participated in virtual Council meetings
 - May 13, 2015
 - September 22, 2015
- other tasks
 - o chaired selection committee for Neil Miner Award
 - juggled lots of email correspondence involving request for support on projects, position statements, and other things

Future Goals:

ensure smooth transition of NAGT leadership to incoming president Randy Richardson

16-Sep-15 1 of 1

2015 Year-end report for NAGT - Randall M Richardson, VP

15 September 2015

My efforts as NAGT VP for 2015 concentrated on five areas:

- 1. Activities at National Meetings (GSA and AGU)
- 2. Service on NAGT Committees (Executive Committee, Workshop Planning Committee, and Investment Committee) and in other support capacities
- 3. Workshops
- 4. GSA Geoscience Education Joint Technical Program for 2014 & 2015 annual GSA meetings
- 5. Preparation for serving as NAGT President in 2015-16

In a little more detail:

1. Activities at National Meetings

At the 2014 GSA national meeting in Vancouver I attended numerous geoscience education business meetings (Executive Committee, Council, Division meetings (GRD, TED, and 2YC), Investment Committee and the GSA Geos Ed Division meeting). I also helped staff the NAGT booth.

At the 2014 Fall AGU meeting in San Francisco I helped staff the NAGT booth.

2. Service on NAGT Committees, etc.

Throughout the year I actively participated in a series of virtual and face-to-face NAGT-related meetings, from Executive Committee to Council to Workshop Planning and the Investment Committee.

I also managed the review and approval process for all requests for NAGT (co-) sponsorship of sessions or workshops

(http://nagt.org/nagt/profdev/session_request.html) or programs and activities (http://nagt.org/nagt/about/sponsor_request.html).

3. Workshops

I attended a wide-range of workshops and activities at the inaugural Earth Educators Rendezvous in Boulder in July 2015. I also co-led, with Karl Wirth, a teaching Traveling Workshop at UCSD/Scripps Institute of Oceanography in February 2015.

Anne Egger 2nd-Vice President Annual report Fall 2015

Over the past year, my primary areas of focus have been workshops and teacher preparation efforts.

Workshops:

- The NAGT Workshop Planning Committee (of which I was a member and am now co-chair) is currently in the process of 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 2015-16 year are:
 - o GSA 2016 Workshops Selecting topics and leaders, tracking program
 - o AGU 2016 Workshops Selecting topics and leaders, tracking program
 - Traveling Workshop Program 2015-2016 Selection of workshops from applications (this will be done by a subcommittee)
 - o Early Career Faculty workshop July 2016
 - o Earth Educator's Rendezvous July 2016
 - o Cutting Edge Website Management Plan including Review Needs
 - o Future faculty workshop: plan for transition from Cutting Edge program
- The Traveling Workshops Program with a focus on courses is ramping up. The five leaders initially involved are Anne Egger (CWU), Sara Harris (UBC), Kaatje Kraft (Whatcom CC), Rick Oches (Bentley), and Karl Wirth (Macalaster). The group of leaders covers a spectrum of institution types, backgrounds, and interests in course design and development. We met in person at the Earth Educator's Rendezvous and have had several subsequent phone conferences to plan and develop a standard course design workshop that can be modified to meet the needs of different audiences. An initial offering of the course design workshop will be held in the Puget Sound area in late October, and a second one in the Atlanta region in mid-February. Currently, the leaders are developing materials that can be used interchangeably by everyone, and expanded or contracted as needed. Applicants must commit to at least a full day workshop in order for NAGT to support the program; half-day workshops will be considered if the receiving institution supports leader travel. We will collect data from participants ahead of time in hopes of surveying them again one year after the workshop to see if they have made changes in their teaching as a result of the workshop.
- Maintenance and management of the *On the Cutting Edge* website is a major issue that the workshop planning committee is tasked with this year. Dave Mogk is leading the effort to develop this plan. He will prepare a preliminary report to be presented to the NAGT Council at their virtual meeting in September in order to get feedback and ideas. Under Dave's leadership, the planning committee will create a subcommittee to work on developing that plan to be presented to the ExComm.
- Planning has begun for Earth Educators' Rendezvous II. The co-conveners of EER II are David McConnell (NCSU) and Karen Viscupic (Boise State). I will be

- part of the planning committee, and solicited additional nominations from the workshop planning committee. That committee has not been selected at the time of this writing but will be by the time of the meeting. One likely new component will be to incorporate the Career Prep workshop into the EER, and we can then decide if this is a reasonable model for future years.
- A big focus for the NAGT workshops at GSA and AGU this year is **graduate students and post-docs**: at each meeting, I will be co-leading a workshop specifically for graduate students on teaching strategies. One goal of these workshops is to expand our membership by bringing members in as students, and we hope the workshops will help with that effort.

Teacher preparation:

- One of the areas I have focused on in teacher preparation is incorporating the **Next Generation Science Standards into introductory courses**, and working with faculty who teach introductory courses to recognize and support future teachers in their courses. Some of the initial resources for this work have been developed and supported through InTeGrate, and will be one of the areas where NAGT can play a strong role in the future. I led a workshop at the Earth Educator's Rendezvous entitled *Maximizing the Value of Your Introductory Course for Future Teachers* that attracted a range of participants including a large group that know they have future teachers in the courses but don't know how to support them. This is an area in which I think we have a lot of opportunity to expand as states that have adopted the NGSS revise their teacher preparation programs.
- I have also begun working with a group in Washington State that developed an **Education for Sustainability endorsement** for K-12 teachers. The endorsement is interdisciplinary, not just focused on science, but the Earth sciences and NAGT have a lot of overlapping interests and there is much potential for growth and collaboration. The next meeting of this group is September 23.

In addition:

- I served on the Shea Award Committee, and Nick Zentner from Central Washington University was selected unanimously as this year's award winner. The pool of candidates was noticeably thin this year; while Nick is certainly a worthy recipient, there was not a strong pool to choose from.
- In a virtual meeting in May, the NAGT Council unanimously agreed to have 90 minute virtual meetings rather than 60 minute meetings. While we did get through everything in an hour, it was very rushed and did not allow for discussion. Future virtual meetings will be scheduled for 90 minutes.

FY2015 NAGT Secretary/Treasurer Report Janis Treworgy and Gene Pearson (Acting Secretary/treasurer April 14, 2015 to August 31, 2015)

- The NAV (net asset value) of Oakmark Equity and Income Fund declined 3.00% % over our fiscal year 2014-2015. The decline was slightly greater than the 1.56% decline of the S & P 500. The perception that interest rates would rise caused the prices of bonds to drop impacting the value of the Oakmark Fund. At the close of FY15 the value of the Oakmark NAGT account was \$1,063,914.16. The NAGT Endowed Fund had a value of \$673,139.34.
- As treasurer and acting treasurer:
 - collaborated with the Executive Director to develop the FY16 NAGT budget;
 - Maintained share balances on subaccounts in the NAGT Oakmark account;
 - deposited annual contributions to endowed funds to the NAGT Oakmark account (\$10.00 to NAGT Endowment);
 - withdrew income from the NAGT Oakmark account that was budgeted by the NAGT Executive Committee to cover field camp scholarships and ongoing NAGT expenses.
 - August 31,2015 Oakmark Fund Account Report see next page
- As secretary and acting secretary:
 - participated in and recorded minutes at the Executive Committee meetings and for the NAGT Council meetings.
- As acting secretary/treasurer:
 - Helped develop an introduction to the NAGT budget PowerPoint for newly elected Executive Committee members

Respectfully submitted, Gene Pearson Guided by the everlasting spirit of Janis Treworgy

OAKMARK EQUITY & INCOME FUND						
NAGT Endowed Funds	Shares As of 31 Aug 2015	Au	August 29, 2014		August 31, 2015	
Horberg	2,159.259	\$	70,765.85	\$	66,138.10	
Rosalsky	609.491	\$	19,971.10	\$	18,668.71	
Field Camp Endow	4,318.355	\$	140,738.26	\$	132,271.21	
Honors	144.665	\$	4,468.44	\$	4,431.09	
NAGT Endowment	21,976.472	\$	715,257.60	\$	673,139.34	
NAGT Funds						
Minority	107.226	\$	3,386.13	\$	3,284.33	
Stout	555.561	\$	19,447.95	\$	17,016.83	
Reserve Fund	4,373.484	\$	138,111.65	\$	133,959.81	
	34,244.513	\$	1,112,246.97	\$	1,048,909.43	

OAKMARK MONEY MARKET FUND					
NAGT Endowed Funds	Shares As of 31 Aug 2015	Aug	ust 29, 2014	Aug	gust 31, 2015
NAGT Endowment	15,004.730	\$	15,004.68	\$	15,004.73

FY14 Year End Oakmark Funds, August 31, 2015 as reported on Oakmark website

Fund: OAKMARK EQUITY & INCOME FUND (NAV 30.63)

Shares: 34,244.513 Total: \$1,048,909.43

Fund: OAKMARK MONEY MARKET FUND (NAV 1.00)

Shares: 15,004.730 Total: \$15,004.73

Portfolio Total: \$1,063,914.16

FY14 Year End Oakmark Fund Transactions

Monday, August 17, 2015

Withdrawal of \$9,645 (303.14 shares, NAV \$31.85) from the following funds:

\$2,600 from the Horberg Fund (81.633 shares) \$730 from the Rosalsky Fund (22.920 shares)

\$4405 from the the Field Scholarship Fund (138.304 shares)

\$1920 from the Stout Fund (60.283 shares)

Deposit of \$10.00 to the NAGT Endowment (0.314 shares)

Monday, August 24, 2015

Withdrawal of \$20,000.00 (673.401 shares, NAV \$29.70) from the following funds: \$20,000 from the NAGT Endowment (673.401 shares)

My tenure as NAGT President ended at GSA in October 2014. The focus of the GSA meeting for me was to insure a smooth transition for the incoming President across the many meetings and events in which NAGT plays a part. Events that I attended and participated in at GSA Vancouver 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, new sections, and continued membership growth
- continue discussions with AGI on the future of the AGI/NAGT Lab Manual and participate in planning for the upcoming NAGT AGI NGSS Summit
- liaison to the GSA Education Committee and continue in ongoing discussions of NAGT's role in the GSA Action Plan
- co-present a GSA 4-pack workshop Extreme Makeover Geosciences Style
- chair the NAGT team in a collaborative effort with NESTA to develop a position statement focusing on the importance of Dual Credit Earth Science courses as a channel to attract new majors into post-secondary geoscience degrees and careers
- chair the NAGT/GSA Ed Comm/CUR luncheon and report on the NAGT activities and membership for the year
- serve as liaison to GSA Education Committee and participate in their meetings
- liaison between GTIP Committee and Exec Comm, participate in ongoing discussions related to re-envisioning the program
- attend AGI Associated Societies meeting
- chair NAGT Exec Comm meeting and participate in the NAGT Council meeting

Goal: continued focus on the NAGT presence with associated societies and sponsorships

Following closely on the heels of the GSA meeting I collaborated with the Executive Director's office to review the list of possible nominees for service on the Exec Comm. Convened a call with the five most recent past presidents tasked with nominating two new people to move forward as Councilors and a nominee for the 2nd Vice President position.

The Summit on the Implementation of the NGSS at the State Level was co-convened by the immediate two NAGT Past Presidents, Alda Awad and Susan Sullivan, and Ed Robeck from AGI. 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.

Goal: Establish NAGT as the leader in supporting NGSS integration across K-12 & teacher prep The Summit focused on identifying and initiating ways in which key players in the Earth and Space Sciences community can work together to help states and school districts fully implement the ESS in Next Generation Science Standards. Ongoing intensive work with the planning team led to a successful NAGT AGI NGSS Summit held in April at the NOAA Headquarters in MD.

Following on the Summit the conveners (Awad, Sullivan, Robeck) organized a webinar in June which was attended by both Summit participants and others interested in the work. I led a workshop at the Earth Educators Rendezvous along with Susan Sullivan (NAGT Past President) and Don Duggan-Haas (incoming NAGT 2nd VP). Proposals for Town Hall meetings have been submitted for GSA and AGU. An abstract for an invited talk at GSA was submitted, as well as an AGU GIFT workshop proposal. Additionally, a series of webinars is being proposed beginning in September. A working group is being formed that will continue to work to facilitate events focused on ESS in NGSS.

Goal: Support the successful inaugural year of the Earth Educators Rendezvous

Promote the Earth Educators Rendezvous among geoscience educator groups. A three half-day workshop was convened at the meeting: Implementing the Next Generation Science Standards: Strengthening Student Understanding of Science and Engineering Practices. The focus of the workshop was to support future K-12 teachers in implementing the Next Generation Science Standards through considering ways to integrate cross-cutting concepts across scientific disciplines and support explicit integration of science and engineering practices.

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 meetings in January 2015, a face-to-face meeting of the group in April 2015 in Boulder, CO, and upcoming Exec Comm and Council meetings in September, before attending GSA in Baltimore.

Executive Director's Annual Report September 2014 - September 2015 Cathryn A. Manduca

The Executive office finished up a strong year. Membership grew above targets, all programs are fully functioning, as described below our goals below were fully met, and, personnel costs were under budget. MJ Davenport joined the staff to assist Erica, Krista, and Karen, we had a second intern, and have now started the year with a new student worker in place.

Priorities for the Executive Director's office this year were:

- Growing membership and sustaining subscriptions
- Developing new member benefits, particularly implementation of the Cutting Edge Professional Development Program (CE) for the Geosciences in collaboration GSA and AGU, the NSF funded On the Cutting Edge program, and the NSF funded InTeGrate STEP Center.
- Continued collaboration with other professional societies and groups supporting geoscience education and education more broadly including activities with AGI to select a new editor for the Lab Manual and to lead a Summit on the Implementation of the NGSS at the State Level.
- Strengthening indexing and access to JGE.
- Support of two new divisions to serve members engaged in teacher preparation and educational research and support for the existing division serving members at (or interested in) two-year colleges.
- Strengthening of interactions with the sections and division.

Our goals for the coming year are to

- Continue to grow membership while adding a new focus on growth of subscriptions and other revenue related to publications
- Continue to develop the Cutting Edge program including its website as a member benefit that becomes self supporting
- Increase programming surrounding advocating for geoscience education (including the NGSS)
- Continue to focus on collaborations with other professional groups as a mechanism for increasing visibility, impact and sustainability
- Support sections and divisions in strengthening their operations and programming.

The society's financial stability rests on membership, subscriptions, and publications revenue. As stated in our 2014 annual report, these priorities continue to reflect the twin goals of increasing the value of NAGT membership and stabilizing the society's financial base. Without a substantial membership NAGT cannot speak with authority for geoscience education, enable dissemination of educational research and effective practice through its publications or create the networking opportunities desired by our membership. Without robust programming, NAGT does not serve its membership fully and membership declines. Thus a stable and productive future requires strong programming as well as strong membership and subscriptions. The sections and division are full partners in achieving these goals.

We had big professional development goals this year and everyone stepped up to the plate. Our Traveling workshops program had a full schedule on the departments side and we are working to implement improvements to the courses side of the program. We started with an idea for a mega-workshop and in a matter of months NAGT, in partnership with Cutting Edge and InTegrate, created the Earth Educators' Rendezvous. This July, the first Earth Educators'

Rendezvous brought together over 300 people to improve teaching about the Earth. Participants ranged from geoscientists, to psychologists, to faculty in science, social science, and the humanities. Designed as a meeting to promote interaction, collaboration, and learning, events included workshops, oral and poster sessions, plenary talks, working groups, and a concluding town hall. This meeting is ripe for opportunity for our three divisions to engage with Earth educators. Building on the success of the first annual Rendezvous, we will be holding the second annual event next July in Madison, with Basil Tikoff as our host. Our planning committee consists of David McConnell, Karen Viskupic and Laurel Goodell.

The SERC office staff now has two years of experience in providing NAGT's membership services. We had some turnover in staff this year as Matt., Molly and Charlotte left our offices. Karen Smetana has joined us as business manager and she provides accounting and budgeting services to the organization. The hiring process is underway to fill Matt's position, which provides IT support. We added a new administrative position and MJ will be assisting with membership services. John McDaris continues to produce the NAGTNews and the ITT supporting web pages. Krista Herbstrith received a new job title and will now be doing more communications and marketing. Erica Zweifel contributes to the membership services aspect of the office through direct contact with members, providing customer service. She also works on membership retention and new member promotions. This year we have continued a more targeted approach to membership. We used the information in the member survey to inform our approach, and wrote customized letters by member type. This fall we will target members by renewal date and by category. We will continue to work with the sections and divisions toward our membership goals.

This was also our second year managing the JGE subscriptions. Back issues claims are now under control and have been reduced since the transfer from Allen Press. We do not have the same direct access to decision makers in the subscriber category that we do with our members and struggle to make inroads into increasing subscribers.

All of our divisions are thriving: Geo2YC, GER and TED. They all have increased member numbers over last year. They ran elections in the spring and elected new officers and will be meeting at GSA. Section activity remains strong in our active sections. All of our sections saw an increase in membership. They held field trips, annual meetings, participated in our awards programs and much more.

NAGT programming remained strong with our host of awards, scholarships and internships. We had nominations this year for all of our big three awards; Shea, Miner and Christman. Our field camp scholarship awards remain popular and our Stout award applications have increased. OEST is handled through our sections and we have an impressive list of outstanding Earth science teachers this year. Our partnership with USGS continues, providing internships for 51 students. Please see the reports on these programs for more details.

We have increased our communications and marketing efforts. Krista Herbstrith, SERC's new Marketing and Communications Coordinator, has been working closely with both John McDaris and Erica Zweifel to manage and increase NAGT's visibility. Highlights include: better synergy between NAGT e-news and social media (Facebook and Twitter), coordinated publicity with AGI announcing Vince Cronin as new editor of the *Physical Geology Lab Manual*, timely announcements promoting NAGT's advocacy efforts, major publicity push and onsite marketing/communications for inaugural Earth Educators' Rendezvous. These efforts have not

only highlighted NAGT work but that of our sponsored projects and partner organizations as well.

AGI and NAGT collaboratively hosted NGSS summit under the leadership of Susan Buhr, Ed Robeck and Aida Awad. The AGI/NAGT collaboration on the Lab Manual entered a new phase this year with the appointment of Vince Cronin as the Editor for the next edition. Basil Tikoff, David Steer, and David Voorhees served on the selection committee. We are also putting in place an Editorial Panel to work with Vince.

This year NAGT had several opportunities to add our voice to geoscience education advocacy efforts. We created a policy for the executive committee to act of these requests in a timely fashion and have now used this system successfully a number of times. We have created an advocacy steering group to continue and guide these efforts in the future.

This summer the executive office had the pleasure of mentoring our second Carleton summer intern. We submitted our request for an intern to Carleton College in early spring and we were very fortunate to be one of the organizations selected for their intern program. Claire Spencer spent ten weeks assisting primarily with archiving our collection JGEs, putting archival award photos on the website and assisting with membership services. She spent hours combing through microfilm donated by Peter Fenner and used the information found there to update our JGE inventory and pull out photos for the website.

You can find a complete list of the regular tasks executed by the Executive Director's office at: http://serc.carleton.edu/serc/office_workspace/nagt_yearly.html.

September 13, 2015 Report to NAGT Executive Committee on JGE.

Submitted by Kristen St. John jge@jmu.edu

1. Editorial Board.

I am in my 5th 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. The guest editors are theme-issue specific and they will phase out and two new guest editors will start shortly. Rachel McMurray is the Allen Press Managing Editor for JGE.

2. Journal Summary.

Thirty-four manuscripts were submitted to JGE between March 1 2015 and September 1 2015 (**Table 1**), 16 research, 16 C&I and 2 Commentaries.

Table 1. Journal Summary Report 2009-2015

6-month time window	Total #	Acceptance	Days from	Days from
	submitted	Rate	Receipt to First	Receipt to Final
	manuscripts		Decision	Decision
September 2009 thru February 2010	32	67%	85	246
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	27	80%	117	210
March 2012 thru August 2012	35	68%	121	204
September 2012 thru February 2013	58	73%	129	178
March 2013 to August 2013	62	88%	168	224
September 2013 thru February 2014	38	64%	123	190
March 2014 thru August 2014	25	50%	114	109
September 2014 thru February 2015 ¹	24	73%	124	194
March 2015 thru August 2015	34	(0%) ²	(61)	(43)

¹ There are differences in the data reported here compared to that reported in the May 2015 report. Data queries in May on number of manuscripts submitted was quite different and that is puzzling. Program for queries may have changed to include partially submitted manuscripts and I am not culling those.

3. Pages and Articles, and Themes

The total number of published articles and pages is lower this year than in 2014 when there were two theme issues in addition to regular articles. The August issue came out about 2 weeks late (Sept 12). This was because we had too few accepted articles to meet our normal deadline, and I decided it was better for the issue to come out late than to have only 4 articles in it. With fewer manuscripts submitted in 2014 and early 2015, this delay might continue for the next issue as well.

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

Table 2. JGE Summary of Pages and Articles 2009-2014

JGE Issue	Total no. pages (Avg no. pages/issue)	Total no. Articles ¹ (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 ²	~353 (88)	~36 (9)

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

The oceanography theme issue will not be run, although individual papers that were/will be accepted will be published in regular issues. There are two new themes that are about to be announced.

Table 3. Theme Issue Updates

Theme	Theme Issue Editors/AEs	Status
Teaching STEM	John Van Hoesen, Green	We will not be dedicating an issue to this theme. The
Principles Using	Mountain College; Elizabeth	reason is twofold: (1) the total number of
Oceanography	Nagy-Shadman, Pasadena City	submissions to the theme was low [only 10] - just
Content	College (Guest AE); Mirjam	barely the number needed for a full theme issue,
	Glessmer, Hamburg University of	and (2) several manuscripts that were submitted to
	Technology, Germany (Guest AE)	the theme are still in revision and may be in revision
		for quite a while. I did not want manuscripts that
		advanced to the accept-stage to be held-up from
		publication.
Interdisciplinary	Kristen St. John (Editor); Ellen	Announcement will be posted in September.
Teaching and	Metzger, SJSU (Guest AE) and	Submission deadline probably March 2016. A regular
Sustainability	David Blockstein, National Council	JGE AE needs to be identified to work with the guest
	for Science and the Environment	AEs on this.
	(Guest AE), and an AE to be determined	
	determined	
Synthesizing	Kristen St. John, Editor-in-Chief;	Announcement will be posted in September.
Results and	Heather Petcovic, Editor for C&I	Submission deadline probably August 2016. This
Defining Future	Alison Stokes, Editor for	theme grew from a related NSF-funded workshop,
Directions of	Research; Tony Feig, Associate	and gained support at the Earth Educators
Geoscience	Editor; Karen McNeal, Associate	Rendezvous.
Education	Editor.	
Research		

²Issue estimate includes estimate for November issue of 9 articles and 10 pages/article.

4. JGE Outstanding Reviewer and Paper Awards

Congratulations to the authors of this year's outstanding paper and to the two outstanding reviewers:

Outstanding Paper: Evaluating Geoscience Students' Spatial Thinking Skills in a Multi-Institutional Classroom Study, by Carol J. Ormand, Cathryn Manduca, Thomas F. Shipley, Basil Tikoff, Cara L. Harwood, Kinnari Atit, Alexander P. Boone. JGE Feb 2014, Vol. 62, No. 1, pp. 146-154. In addition to being a very solid research study on a topic of broad interest, this paper had the most downloads (208), after excluding calls for papers and articles that were introductions to themes.

<u>Outstanding Reviewer:</u> This was tough as it came down to 2 nominations that were both strong. Ultimately we decided both reviewers deserved this recognition so it will be a shared award this year. The outstanding reviewer are: Katrien van der Hoeven Kraft (Whatcom Community College) and Roger Levine (Independent Consultant).

5. JGE and the Earth Educators Rendevous

Editor Heather Petcovic and I offered a ½ day workshop at the EER on Getting your Education Work Published. Even though it was offered on the afternoon of the last day of the EER, we had high attendance (>20 people) and good feedback. Carol Ormond, Eric Riggs, and Kim Kastens were invited panelist. Resources from the workshop can be found at:

http://serc.carleton.edu/earth_rendezvous/2015/mini_workshops/mw14/index.html . We are considering offering this again at a future GSA or AGU meeting.

6. Collaboration among DBER Journal Editors

A manuscript was submitted to *Science* in August 2015 that was co-written by a group of editors of Discipline-Based Education Research (DBER) journals in bioscience, physics, geoscience, and chemistry. It is a commentary piece titled *Promotion and Tenure of Discipline-Based Education Researchers: Evaluating the Impact of a New Scholarly Domain,* and addresses P&T issues across the DBER science fields. It is currently in review. The authors are: Erin Dolan, Editor-in-Chief, CBE-Life Sciences Education; Samantha Elliott, Editor-in-Chief, Journal of Microbiology & Biology Education; Charles Henderson, Senior Editor, Physical Review Special Topics — Physics Education Research; Douglas Curran-Everett, Editor-in-Chief, Advances in Physiology Education; Kristen St. John, Editor-in-Chief, Journal of Geoscience Education; Marcy Towns, Associate Editor, Journal of Chemical Education; and Phillip Ortiz, Editor-in-Chief, Biochemistry and Molecular Biology Education.

7. Broadening access to geoscience science education published scholarship: JGE back issue access plan

JGE article prior to 2001 are generally not accessible online which hurts our visibility and searchability. Karen McNeal (former Research Editor) suggested recently that this problem may be solved by writing an NSF grant to obtain funds to scan and digitize the back issues, and then host these on the NAGT (or AP) site. I've contact Keith Sverdrup to inquire on whether a small grant proposal would fit as an IUSE special project. He gave initial positive (but general) feedback and I need to talk to him further because the new IUSE solicitation restricts special projects to workshops, and I'm no longer certain we can submit to this solicitation. If it doesn't match, then I'd like NAGT to consider other ways to financially support this. The following (in purple) is the 1-page

summary of the proposal that I sent to Keith. Thanks to Erica Zweifel for compiling supporting data on number of articles and pages for JGE back issues.

Broadening access to geoscience science education published scholarship: JGE back issue access plan *Kristen St. John, JGE Editor-in-Chief,* <u>iqe@jmu.edu</u>

Purpose: To make all past print-only articles in JGE broadly searchable online and available for full text download, reading, and analysis.

Summary: The Journal of Geoscience Education (JGE, http://nagt-jge.org/; formerly the Journal of Geological Education [1951-1994], http://nagt.org/nagt/about/history.html) has been published for 64 years, but articles from only the last 14 years are available online (see table below). Therefore, while JGE is the primary scholar outlet for geoscience education (Singer et al., 2012, DBER report), ~3000 articles (~80% of all published JGE articles) are virtually inaccessible. This project would make those resources accessible to all; they would be open access, searchable in the widely-used education databases EBSCO and ERIC, and available for free full text download at http://nagt-jge.org/. A 1-year NASF IUSE special project grant would make these changes possible. The total estimated direct cost is \$30,000, plus institutional indirect costs. The NAGT annual budget will support ongoing maintenance and access to these and future issues of JGE.

Summary of JGE articles, online access, and proposed changes

Years	JGE volumes	# articles	# articles currently hosted online	% articles currently available for full text download	Proposed changes
2015 to 2009	63-57	288 [includes up thru May 2015]	288 at Allen Press (Pinnacle) site http://nagt-jge.org/	100%	No change
2008 to 2001	56-49	492 [4335 total pages, all as pdfs and online at NAGT site]	492 at NAGT site http://nagt.org/nagt/jge/iss ues.html	100% [EBSCO search directs to AllenPress JGE site, which directs to NAGT site]	Shift online pdf article hosting to Allen Press site, consolidating and simplifying article access.
2000 to 1970	48-18	2748 [10965 total printed pages]	34 at NAGT site http://nagt.org/nagt/jge/iss ues.html	~1.2%	Convert print articles to digital pdfs, scanned with optical character
1969 to 1951	17-1	511 [1882 total printed pages]	0	0%	recognition for full searching. Host on Allen Press site.

Intellectual Merit: By making the ~3000 print-only articles published in JGE prior to 2001 available for full text download, this project would greatly increase access to foundational studies in geoscience education scholarship, and the number of studies for inclusion in GER literature reviews (e.g., upcoming JGE theme issue on aimed to synthesize geoscience education research results) and analyses. In turn, this would increase the ability of the geoscience education community to synthesize GER findings, and assess community claims of geoscience education research over multiple-decades of GER evolution. This project supports goals of the current NSF-funded project (PI H. Macdonald) *Shaping the Future of Geoscience Education Research*; and was specifically noted by participants at the SoF workshop at the Earth Educators Rendezvous (July 2015) as a community need.

Broader Impact: By making the full suite of JGE past articles searchable and available online at one location for free download, reading, and analysis, it widens community access. Not only will geoscience education researchers have access to these resources, so will practitioners, and DBER researchers. It will increase the international access to geoscience education curriculum and instruction scholarship and research. By scanning using OCR it will allow text to be cut and pasted out of the scanned articles and for people with visual disabilities to use text to speech software to "read" them.

September 2015 Report to NAGT Executive Committee on In The Trenches.

Submitted by Cindy Shellito Lucinda. Shellito@unco.edu

In the Trenches will shortly be wrapping up its 5th year in publication. This year, we had great success during with two guest editors – Kaatje Kraft, who managed the April issue on *Research in the First Two Years of College*, and Don Duggan-Haas who put together the July issue on *Teaching about Fracking*. I would like to continue the practice of bringing in guest editors whenever we can for themed issues. This allows us to reach a broader community of potential writers.

For issues in which we do not have a well-defined theme, or a guest editor, I would like to have a committed assistant/associate editor to assist with editing and production. Dexter Perkins has stated that he is no longer able to assist in this role. We might consider inviting someone to serve as an associate editor next year who would be willing to serve as Editor-in-Chief in 2017, after learning the ropes.

We receive about 3-4 unsolicited articles each year that are eventually published. The column, 'Favorite Demonstration', is still the most popular type of unsolicited article that we receive.

Upcoming Themes:

October 2015 – GSA Issue (will publish some articles that have been 'waiting in the wings!')

<u>January 2015</u> – Oceanography (ideas for a guest editor? May not be necessary as we already have 2 articles and a Fav Demo in the works.)

Potential Future Themes:

Teaching scientific communication Geoscience and interdisciplinary teaching (incl., societal impacts, sustainability) Transforming geoscience teaching with technology

NAGT Website, News, and Social Media Report

September 2015 John McDaris Krista Herbstrith

In the period between September 2014 and September 2015, the NAGT website continued to add new content through collaborations with AGI and sponsored projects, in addition to news and advertisements. Overall site use increased over this period compared to the same period the previous year. The site received 23% more visits from 18% more users, more of whom were repeat visitors. Over this same period, the NAGT Facebook page has grown from 397 "likes" to 994.

Accomplishments since April 2015

- Online supplements for April and July issues of *In the Trenches* posted to the website
 including access to full articles for current members.
- NAGTNews emails for May, June, July, and August 2015.
- 3 Community Advertisements and 4 Community Announcements posted to the news stream.
- 40 posts were made to the NAGT Facebook page to highlight the work of NAGT and its sponsored projects.
- 5 website ads have been sold through the vendor Multiview.

New Website Content

Implementing the NGSS

http://nagt.org/nagt/profdev/workshops/ngss_summit/index.html

NAGT collaborated with AGI to run a Summit on Implementing the Next Generation Science Standards in Silver Spring Maryland in May 2015. This event included a number of virtual events leading up to and following on the Summit and all of these events have been archived on the collaboration website which is part of the NAGT space.

Shaping the Future of Geoscience Education Research: Synthesizing Results and Articulating Future Directions

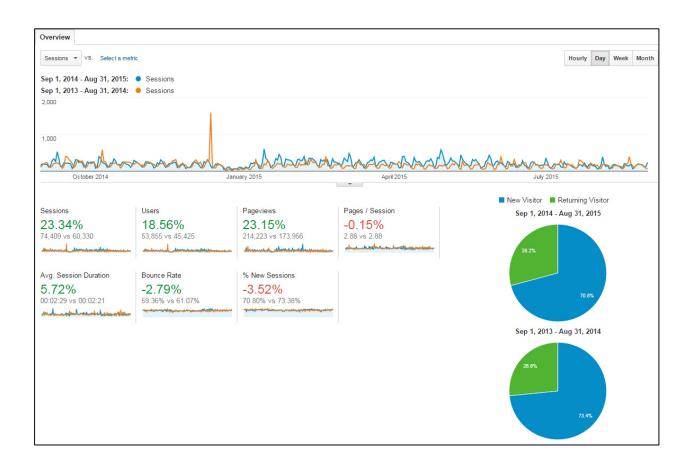
http://nagt.org/nagt/profdev/workshops/geoed research/index.html

This sponsored project is investigating the current stats of geoscience education research, building on recent reports on Discipline-Based Education Research (DBER). The project ran a large workshop at the 2015 Earth Educators Rendezvous in Boulder, CO where more than forty faculty came together to learn about and discuss the state of geoscience education research. As a part of this effort, information was compiled on the NAGT website regarding available resources for GER. In addition a webinar was run prior to the workshop on the DBER and its connections to the geosciences with presentations by Kim Kastens and David Mogk.

Website Use

Between September 1, 2014 and August 31, 2015, the NAGT website received 74,409 visits from 53,855 users of whom 29% were repeat visitors. This represents a 23% increase 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 (21%), Professional Development (20%), and JGE (15%).

For comparison, the same period the previous year saw 60,330 visits from 45,425 users of whom 27% were repeat visitors. The most popular parts of the website during that period were JGE (19%), Teaching Resources (14%), and Programs (12%). [Note that the Programs section of the website no longer exists as it was distributed into other sections of the website during the website reorganization in the summer of 2014.]



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 500 unique pageviews (an increase of

169%). North Central grew 439% from 28 to 151 unique pageviews. New England grew from 55 to 113 (105% increase). The only SERC-hosted section see a drop in traffic was the Southwest section which went from 177 down to 105 (a drop of 41%).

It is worth noting that these changes are partially due to the website reorganization which altered the structure of this part of the site. The About the Sections part of the website and the Sections part of the website were combined so Section-related traffic is focused into a single area rather than spread out.

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 first Earth Educators' Rendezvous in July in Boulder, CO.

Olivia Claire Spencer, Class of 2016, Major: Mathematics/Statistics National Association of Geoscience Teachers; Northfield, MN

I would like to begin by thanking the Class of '63 Internship Fund and the Class of '64 Internship Fund, as my internship was made possible by the Class of 1963 and 1964 50th Reunion Funds for Internships. Their generosity allowed me to work with the National Association of Geoscience Teachers this summer, where I was able to learn the basics of nonprofit organization management and help enhance STEM education over a multitude of education levels.

I chose this internship because I have been interested in pursuing a career in STEM education from a young age. My mother is a math teacher and professor, and growing up around her has had its influence on me. I learned to love mentoring my friends in math when they did not understand the concepts clearly. This love for teaching helped me succeed in my Methods of Teaching Mathematics class here at Carleton and opened this opportunity for me in the field of STEM education.

This internship was comprised of both daily assignments and large projects. The daily responsibilities included tasks such as checking the membership database for new members and renewals. I would then send out the latest issues of <u>In the Trenches</u>, a publication produced by the National Association of Geoscience Teachers sent out to members four times a year, to those who had either just joined the NAGT or just renewed their membership. The larger projects included archiving all of the Journals of Geoscience Education as well as recording the number

of articles in each (allowing the NAGT to receive a grant from the National Science Foundation to digitize the articles) and managing and updating the website and membership database through various assignments, such as ridding the database of duplicate memberships or adding historic photos of members and officers to the online photo archive.

Through managing the membership database, entering data into the system, and marketing the organization online, I was able to help this organization grow by about 4% this summer. This opportunity was extremely rewarding. I was able to learn about the history of the organization and all the important figures involved as well as connect with the best supervisors ever. Mrs. Erica Zweifel has been nothing but wonderful, offering me assistance whenever possible and treating me as an equal coworker in the office. If given the chance, I would absolutely take this internship again. In addition, I got to experience my first summer in Northfield. The town is very quiet and relaxing this time of year, and living on campus with some very nice roommates was also fun.

This internship has made me certain that working in the field of STEM education from any position is enjoyable. Though I am still keeping my options open for the future to not limit myself too early, I have been working with STEM education for two summers now and my experience will surely come in handy in the future.

NAGT Mid-Year Report 2015 Suzanne M. (Suki) Smaglik, Councilor-at-Large

My duties as Councilor-at-large began at the 2014 Annual GSA meeting in Vancouver, BC, with the following activities:

- Executive Committee and Council Meeting
- NAGT luncheon
- 2YC Division meeting (and a bit of the GeoEd Research meeting held at the same time)
- Geoscience Educators reception
- Workshop: Biofilms Everywhere (with travel support thru SAGE(?)) related to my undergraduate research projects
- SAGE 2YC Session: Undergraduate Research with Students at Two-year Colleges (mentor)
- Presentation in Geoscience Education Session: Using Scaffolded Case Studies For A
 Long-Term Project: Genomics Of Microbial Communities In Thermopolis Hot Springs
 (this seems to have been removed from the GSA 2014 website need to follow up)

Since that time I have:

- Along with Kim Hannula from Ft. Lewis College, I co-chaired a session at the Rocky Mountain GSA Section, held in Casper, WY, 21-23 May, 2015. We co-chaired both an oral and a poster session on undergraduate research, giving students and education researchers both, a venue for their work.
- As liaison to North Central Section: While still acting President of this section, and as liaison, I worked with Section Treasurer Kata McCarville to plan an extended Dinosaur expedition (SD, UT, WY) to coincide with the Rocky Mountain GSA Sectional meeting but the timing will not work out this year. We are already planning to try again for next (2016) spring.
- I have written an article (*Getting Into Hot Water: High-Impact Projects Provide Early Undergraduate Students with High-Level STEM Skills*) on undergraduate research experiences for the April issue of In The Trenches. A photo of my Earth System Science class, in the field, graces the cover of this issue.
- I attended and participated in the Earth Educator's Rendezvous in Boulder, CO in July. Along with Paul Kelso of Lake Superior State University, 2 co-chaired both an oral and a poster session on bringing research into the classroom, including a productive discussion session after the oral presentations. I presented a poster about current research at my own institution during the session.
- During this year, I have met in most online meetings of the ExComm and Council Meetings, as well as, responded to NAGT ExComm email requests for support or a vote on various issues of importance to the Council, as needed.

I am planning on attending the 2015 GSA Meeting in Baltimore and its associated short courses and meetings.

NAGT Annual Report 2014-2015

John Taber, Councilor at Large

NAGT meetings

- Participated in virtual and face-to-Face NAGT ExComm and Council Meetings,
- •

Other selected education-related meetings and workshops attended

- InTeGrate virtual and face-to-face leadership meetings
- UNAVCO ECE committee meetings
- IRIS EPO Standing Committee meetings
- NSTA, March 2015, IRIS booth, led sessions, collaborated with NESTA
- NGSS Summit, April, 2015
- EarthScope National meeting, June, 2015, EarthScope E&O committee, Feb, 2015
- Earth Educators' Rendezvous, July, 2015, 1 oral, 1 poster presentation

NAGT-related activities

- Co-led ENGAGE workshop for early career faculty: *Encouraging Networks between Geoscience and Geoscience Education*, with N. LaDue, Northern Illinois University, and Michael Hubenthal, IRIS, January 2015, Arlington, VA. The purpose of the workshop was to expand awareness of discipline-based education research in the geosciences, and catalyze relationships and understanding between researchers from earth, atmospheric, ocean, and polar sciences, and geoscience education researchers. Final report available at http://www.iris.edu/hq/workshops/2015/01/engage_workshop
- AAPT interactions
 - Co-led a half-day workshop for high school and undergraduate faculty workshop titled *Integrating Physics and Geology into Engineering for* STEM at the 2015 AAPT summer meeting, July, 2015, College Park, MD with Evelyn Restivo and Janie Head
 - Potential future collaborations, via discussions with Rebecca Vieyra, new AAPT K-12 program manager:
 - Joint NAGT/AAPT webinars
 - Write articles for *The Physics Teacher*, maybe via a special theme issue on a topic such as geophysics, energy, atmospheric science, or NGSS implementation
 - Suggest a similar theme for ITT that would interest physics teachers, and invite articles from physics faculty
 - Consider cross-linking some teaching resources between compadre.org and SERC
 - Consider joint memberships with AAPT/NAGT/NESTA
- Served on Neil Miner award committee
- Co-author on ITT article with Don Duggan-Hass, Basic Fracking Math, July 2015
- Reviewed JGE paper

• Co-author on 6 education related presentations at GSA and AGU annual meetings

Upcoming activities

- SACNAS
 - Co-sponsoring Geology of the Washington DC monuments field trip (with UNAVCO) for geoscience students attending the annual SACNAS meeting, 10/29/15

NAGT 2015 Annual Report Basil Tikoff

October 2014 (Geological Society of America meetings)

- -Taught one of the NAGT short courses at the 2014 Annual Meeting (with T. Shipley, Temple University, and Bridget Garnier, University of Wisconsin-Madison)
- -Met at Simon Fraser University Harbour Centre with representatives from different stakeholder groups for NAGT GTIP Program

December 2014 (American Geophysical Union meetings)

-Worked with AGI and Pearson Publishing to find editor for new lab manual editor for NAGT/AGI lab manual

May 2015 (Boulder, CO)

- -Attended NAGT Council Meeting
- -Volunteered/prompted to lead informal committee on expanding NAGT into the Research University community

Academic year 2014-15

- -Acted as a liason for Teacher Education Division (TED) of NAGT
- -Worked on subcommittee to find editor for new lab manual editor for NAGT/AGI lab manual
- -Worked on subcommittee interfacing with GTIP (Geoscience Teacher in the Park)
- -Attending conference calls of the NAGT Executive Committee
- -Chair of informal committee on expanding NAGT into the Research University community

Other activities

- -Continuing informal discussions with research university faculty about ways to systemically improve teaching at research universities
- -Continuing educational-related workshop with NSF-funded SILC (Spatial Intelligence Learning Centers) project
- -Developing a digital database for Structural Geology and Tectonics data and looking for ways to enhance teaching opportunities within this venue

NAGT Annual Report 2014-2015 Karen Viskupic, Councilor-at-Large (year 1) Report prepared September 10, 2015

October 2014 (Geological Society of America meeting in Vancouver, BC)

- I attended the NAGT Executive Committee and NAGT Council meetings.
- I was asked to serve as the liaison to the New England section of NAGT, which is currently active. The section is working to increase their membership, but so far have not helped with this effort other than to offer support when needed.

May 2015 (Boulder, CO)

- I attended the NAGT Council meeting.
- I volunteered to participate in an informal committee led by Basil Tikoff to recommend ways to expand NAGT membership in the R1 community.

July 2015 (Boulder, CO)

- I attended the first annual Earth Educators' Rendezvous (EER) and agreed to serve as one of the co-directors for the 2016 EER in Madison, WI.

Other activities

- Mid-year I was asked to serve as an NAGT representative on the Cutting Edge planning committee. So far I have participated in one virtual planning meeting (April 7th, 2015) and several e-mail conversations about the activities of the group and planning for the 2016 Earth Educators' Rendezvous (EER).
- As co-chair of the 2016 EER I have worked closely with David McConnell and Laurel Goodell to review results of the 2015 EER evaluation and to discuss ideas for next year's meeting. Along with representatives from NAGT and InTeGrate, we are currently forming a larger committee to help plan the meeting's activities.
- I continue to work on several geoscience education projects. I am a member of the InTeGrate assessment team, I am part of the leadership team for the On the Cutting Edge classroom observation project, and I lead the On the Cutting Edge embedded assessment project.

National Association of Geoscience Teachers Eastern Section Report, 2015

Eastern Section Officers

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

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

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

Editor: Martin F. Schmidt, Jr., 2718 Appleseed Rd., Finksburg, MD 21048; (H) 410-526-6685, (W) 410-581-4757; Fax: 410-581-7038; email <mschmidt@umbc.edu>.

Archivist: Jim Hensel, 196 Calvert Blvd., Tonawanda, NY 14150; 716-866-3790; email henseljim@verizon.net.

Past President: Eric Pyle, James Madison University, Geology & Environmental Science, 7125 Memorial Hall, MSC 6903, Harrisonburg, VA 22807; 540-568-7115; email spleej@jmu.edu.

2nd Vice-President: Deb Hemler, Coordinator of Geoscience Education, Fairmont State University, 1201 Locust Avenue, Fairmont, WV 26554; 304-367-4393; email knowledge-decomposition-red knowledge-decomposition-red knowledge-decomposition

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 14-17, 2015, in Beckley, West Virginia. Hosted by Randy Newcomer and Deb Hemler, the event was attended by 33 members and spouses. Meeting events were held at the Beckley Holiday Inn and The Mine Safety and Health Academy in nearby Beaver, WV.

Thursday we had registration at the hotel and then convened for a reception at the Mine Safety Academy for the opening session which included a presentation by Dr. Kathryn Williamson, National Radio Astronomy Observatory on "NRAO: Opportunities for Professors, Teachers, and Students."

On Friday morning we began at the Mine Safety Academy with a talk by Ted Farrish, Education and Training Specialist followed by a tour of historic mining displays in the corridors and the Mine Simulation Laboratory which includes a mine rescue station.

The morning concluded by talks xxxxxxxxxxxx with lunch in the Academy Cafeteria.

The afternoon was spent together on a tour of the Exhibition Coal Mine in Beckley. It included an underground tour of an historic coal mine and the recreated coal camp that surrounds it. Time was allowed for all to spend as much as they liked in the camp and next door at the award-winning Youth Museum.

In the evening, back at the Mine Academy participants had desert during the traditional Geo-Auction. \$403 was raised from the active bidding on rocks, books, posters, and other items donated.

Saturday two full-day field trips were offered. The Bolt Mountain trip explored the world-class exposure of the Bolt Mountain Section, which is the only surface section in southern West Virginia that contains a nearly complete rock record of the Lower and Middle Pennsylvanian formations. Located west of Beckley on Route 99 between Bolt, WV, the top of Guyandotte Mountain, approximately 613 m (2000 ft) of continuous strata are exposed along the road cuts extending from below the Lower War Eagle coal at the base of the section to the Stockton coal at the top of Guyandotte Mountain. Trip leaders discussed Carboniferous depositional environments, event stratigraphy, and coal geology and visited marine and plant fossil zones, examine various world-class coal beds, and a spectacular standing calamite forest containing in excess of 80 specimens. Trip Leaders: Dr. Bascombe "Mitch" Blake, Jr., and Jim Britton, WVGES geologists.

The other trip explored the New River Gorge from above and below, examining the geology and culture of this wonder mostly within the over 70,000 acres administered by the National Park Service. The trip included the New River Gorge Bridge, the longest single-arch steel bridge in the world with a lookout that affords a stunning view of the gorge. Rangers there spoke to us about the bridge and the area in the Canyon Ridge Visitors Center and Museum. The northern end of the park included Early Pennsylvanian rocks; the Pocahontas, New River, and Kanawha formations and finished in the southern part where Mississippian Period rocks are found along with Sandstone Falls, a dramatic 25 foot drop in the river of Stony Gap Sandstone at the base of the Hinton Formation of the Mauch Chunk Group. Trip leader: Randy Newcomer, NAGT-ES VP & Meeting Co-organizer.

The evening awards banquet included a talk by Kenny Ashton, WV Geologic and Economic Survey Geologist, entitled "Hawks Nest: Worst Industrial Disaster in U.S. History".

The annual meeting was concluded Sunday morning with the Section business meeting at nearby Tamarack. The financial status was shared, contributions to the event were recognized, and Eric Pyle, outgoing President, presented the Section gavel to incoming President Randy Newcomer.

Awards

The 2015 John Moss award to honor an outstanding college level geoscience instructor was presented to Dr. Shelley Jaye from NOVA, Northern Virginia Community College at Annandale.

The Eastern Section congratulates all of our 2015 OEST recipients on being selected for the OEST recognition. The 2015 OEST Eastern Section awardee is **John Russell**, New York, Columbia Secondary School for Math, Science and Engineering.

State awardees included:

Kenneth Abbott, Grand Avenue Middle School, New York **Blake A. Colaianne**, PA - Dallastown Area School District, Pennsylvania

The section "Digman" award is designed to recognize an individual who works to bring Geoscience to the general public. This year the section recognized **Sue Ann Heatherly**, Education Officer, at the National Radio Astronomy Observatory (NRAO)-Green Bank in West Virginia

Plans

Callan Bently is taking over the Section newsletter from Martin Schmidt who has served as editor for 24 years.

The 2016 Section Meeting is being organized by Mike Baer. The conference will be held May 12-15, 2016, in the Pittsburgh, PA Area. Details will be forthcoming in the next section newsletter.

Financial Section

May 2015 financial statement showed total of \$8566.77

Total revenue from the annual section meeting was \$2511, and total expenses were \$2464, leaving a net profit of \$47.

A \$100.00 gift was received from Bob as well as \$25.00 as an honorarium from a presentation made to the Pennsylvania Aggregates and Concrete Association by Randy.

Annual Report to National from the Far Western Section

Meetings this year: We are scheduled to meet in Bakersfield, California on Oct 16-18 for our fall meeting

OESTA: Ryan Hollister Turlock HS selected. Not notified as $2^{\rm nd}$ VP (Chair of OESTA Committee) did not notify awardee.

Board: 1st and 2nd VP's resigned.

Newsletter: 2nd VP did not send one out

Financial Report: Treasurer is away until October.

OESTA recipient announced on Monday for the FWS

Scholarship: Recruited Craig Poole from Fresno City College to oversee all scholarship activities

Field guide sales: Near zero

Summary: Overall very few accomplishments. Look forward to 2016 for a better year.

Paul R. Troop

New England Section of NAGT 2014-15 Annual Report

A. 2014-2015 Section Officers

- President: Elizabeth Gordon, Earth and Geographic Sciences, Fitchburg State University, MA, egordon3@fitchburgstate.edu
- <u>VP#1</u>: Lori Weeden, Environmental, Earth, and Atmospheric Sciences, UMass.- Lowell, Lowell, MA, lori_weeden@uml.edu
- VP#2: Tarin Weiss, Westfield State University, Westfield, MA tweiss@westfield.ma.edu
- <u>Treasurer</u>: Julia Daly, Department of Geology University of Maine, Farmington, dalyj@maine.edu
- <u>Secretary/Newsletter Editor</u>: Richard Little (retired), Greenfield Community College, Greenfield, MA, RDLITTLE2000@aol.com

Past Presidents (Councilors):

- Steve Winters, Holyoke Community College, Holyoke, MA, science_matters@yahoo.com; swinters@hcc.edu
- Tarin Weiss, Westfield State University, Westfield, MA tweiss@westfield.ma.edu
- Bruce Rueger, Colby College, Waterville, ME bfrueger@colby.edu
- Christine Witkowski, Middlesex Community College, Middletown, CWitkowski@mxcc.commnet.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

Richard Little (retired), Greenfield Community College, Greenfield, MA, RDLITTLE2000@aol.com

Executive Committee Liaison Karen Viskupic

B. Reports

Our 2015 OESTA winner is Rodney Ward, a 7th grade Math/Science teacher from Christa McAuliffe Charter School, Framingham, MA. Rodney has developed a rigorous Earth Science program for middle school students through engaging hand-on classroom activities and field experiences. He leads a multiday field trip to the Connecticut River Valley, where his students perform research by examining geological features and working with local geology experts. Rodney has also created a series of interactive models that allows his students to engage in hands-on learning about the geological history of New England since the Paleozoic. We are pleased to honor Rodney's dedication to exposing middle school students to geological fieldwork, research, and hands-on learning with the NAGT New England section's OESTA award.

C. Annual Activities/Functions

- 1. Annual Business Meeting. Saturday, December 6, 2014 at Massachusetts Institute of Technology, Cambridge, MA. Following section business, meeting attendees toured the MIT Geochronology Lab and attended a presentation on Mass Extinctions given by Dr. Samuel Bowring. Dr. Bowring generously donated his \$200 honorarium to support student research; Solomon Gibson, a graduate student at the University of New Haven, received this award.
- 2. NAGT luncheon at the 2015 GSA NE conference in Bretton Woods, NH, March 23. There were 18 people in attendance.
- 3. Planned 2015-16 Activities:

- a. NEIGC New England Intercollegiate Geological Conference. NAGT-New England Section Officers Lori Weeden, Tarin Weiss, and Steve Winters are leading a workshop for K-12 Teachers: "Exploring New England's Geological History". Teachers may earn PDPs by attending the workshop and associated field trip, Oct 10-11, 2015.
- b. The New England section's Annual meeting will be held Oct 10, 2015, 4-6pm, Weslayan University
- c. Screenings of NOVA's new program, "The Making of America" are being planned; locations and times TBD.
- d. 2016 GSA NE conference in Albany, NY, Mar 21-23, 2016. NAGT-NE events TBD.

D. New England Section NAGT financial

Non-Profit Business Now account

Starting Balance (9/2014):

Interest rate:

Interest accrued:

Ending balance (9/2015): \$659.07 One-to-One Business Saving account

Starting balance (9/2014):

Interest rate:

Interest accrued:

Ending balance (9/2015): \$2981.33

Pending transactions: \$700

Total funds available: \$2940.40 (as of 9/15)

North Central Section Annual Report 2015

Submitted by Suki Smaglik

Officers:

President

Suzanne M. (Suki) Smaglik, Central Wyoming College, Riverton, WY ssmaglik@cwc.edu

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

Past-Year Activities:

Kata and Suki attempted to hold a dinosaur-related field trip this year in conjunction with the Rocky Mountain Section meeting of GSA but we couldn't coordinate the times appropriately. We are planning to try to do a trip/meeting in 2015 that will start in South Dakota, travel through Wyoming and then to the Dinosaur Triangle in SW Wyoming/NW Colorado/NE Utah. It will probably take place in June, once Kata is done with her spring semester.

We received three nominations for OEST this year. Ann Anderson, a teacher at Belle Fourche, Belle Fourche, SD 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 \$3000 at this time.

NAGT Pacific Northwest Section 2014-15 Annual Report

A. Current Section Officers

a. Executive Office

President

Cassandra Strickland – Columbia Basin College, 2600 N 20th Avenue, Pasco, WA 99301, <u>CStrickland@columbiabasin.edu</u>

Vice-President

Frank Hladky - Coquille High School, Coquille, OR 97423, fhladky@coquille.k12.or.us

Secretary-Treasurer

Scott Linneman - Department of Geology, Western Washington University, Bellingham, WA 98225, Scott.Linneman@wwu.edu

Past President

Ron Metzger - Southwestern Oregon Community College, 1988 Newmark Avenue, Coos Bay, OR 97420-2912, 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

Website Coordinator

Cassandra Strickland – Columbia Basin College, 2600 N 20th Avenue, Pasco, WA 99301, CStrickland@columbiabasin.edu

c. State-Province Councilors

Alaska

Cathy Connor, University of Alaska Southeast, Juneau, <u>cathy.connor@uas.alaska.edu</u>
Michael Collins, Geologist, Epoch Well Services, Anchorage, <u>collins_micha20@hotmail.com</u> **Idaho**

Shawn Willsey, College of Southern Idaho, swillsey@csi.edu

Dean Garwood, Idaho Geological Survey, dgarwood@uidaho.edu

Oregon

Frank Granshaw, Portland State University, fgransha@pcc.edu

Ron Metzger, SWOCC, rmetzger@socc.edu

Eriks Puris, Portland CC, eriks.puris@pcc.edu

Washington

Jeff Tepper, University of Puget Sound, jtepper@ups.edu

Beth Norman, Pierce College, bnorman@pierce.ctc.edu

British Columbia

Brett Gilley, University of British Columbia, bgilley@eos.ubc.ca

Tark Hamilton, Camosun College, Victoria, B.C., thamilton@cmosun.bc.ca

Todd Redding, UBC Penticton, tredding@okanagan.bc.ca

d. Awards

OEST Awards Coordinators

Lynda Sanders, Marshfield HS, S. 10th and Ingersoll, Coos Bay, OR 97420, <u>LyndaS@coos-bay.k12.or.us</u> and Jodie Harnden, Sunridge Middle School, 700 SW Runnion Ave, Pendleton, OR 97801, Jodie.Harnden@pendleton.k12.or.us

B. Reports

i. Annual Business Meeting

The annual conference of the NAGT Pacific Northwest Section was held June 15-19, 2015 at the University of Victoria, Victoria, British Columbia. No changes were made in leadership. A treasurer's report is shown below. Membership trends were discussed and future locations for annual conferences. Potential funding student registration was a primary concern for members.

The membership count is for 2015 is 143.

ii. 2014 OEST Awards

- State (Oregon):
 - o Laura Orr, Ukiah, Oregon
- PNW Section
 - o Dale Lehman, Tahoma, Washington--(attended 2014 conference)

iii. 2015 OEST Awards

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

C. Annual Activities/Functions

a. Events Sponsored by Pacific Northwest Section NAGT 2014-15

NAGT PNW Annual Meeting, June 21-24, 2015, Hells Canyon, hosted by Andy Buddington and Keagan Schmidt. Attended by 18 registered participants and about a half dozen student visitors. Conference schedule:

- 1. Monday, June 15: Conference Presentations by various speakers at Univ. of Victoria
- 2. Tuesday, June 16: Field Trip Victoria to Nanaimo
- 3. Wednesday, June 17: Field Trip Gabriola to Port Renfrew
- 4. Saturday, June 21: Field Trip Port Renfrew to Victoria
- 5. Sunday, June 22: Field Trip Victoria to Sidney

The section website continues to be updated by Cassie Strickland: www.nagtpnw.org

The section newsletter was 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.

b. Planned Future Conferences:

- 2016- Hell's Canyon, ID (Field Conference)- Hell's Canyon, hosted by Spokane CC.
- **2017- Craters of the Moon National Monument**, Arco, ID, hosted by the National Park Service.

Southeastern Section of NAGT

Fall 2015 - Annual Report Christy C. Visaggi

I. Leadership Updates

We've had several changes in leadership over the last year! Thanks to all of the outgoing officers and state representatives for all of their service to SENAGT, especially my predecessor, David Kopaska-Merkel. I'm enclosing a complete list of officers and state representatives at the end of this report, but here is a quick summary of new leadership we have in our section.

Officers:

President: Christy Visaggi Vice-President: Blair Tormey

Secretary (Candidate Elect): Eleanor Gardner

State Representatives:

Mississippi: Renee Clary Mississippi: Adam Skarke Georgia: Kathlyn Smith Florida: Kim Cheek

II. SEGSA 2015 – Chattanooga, TN

The annual business meeting for the section was held as part of the SEGSA meeting in Chattanooga in March 2015. Twenty-four participants attended the meeting, which was conducted over lunch at The Public House. Meeting activities included the election of officers, brainstorming ideas for SEGSA 2016 events, reminders regarding OEST nominations, and several other miscellaneous discussion items.

The highlight of SEGSA for our members included a general geoscience education session, a very successful full day session on *Teaching Evolution in the Southeast* co-organized by myself and Patricia Kelley, and a fieldtrip run by Bill Witherspoon, our newsletter editor, entitled *Evolution and the Evidence around Dayton, TN*. Over 60 people attended the evolution session and the fieldtrip had 13 participants including K-12 educators. The Paleontological Society and SENAGT co-sponsored six awards to encourage attendance from K-12 educators by supporting expenses related to these events. Comments regarding these activities are mentioned as part of our review of these events in the Summer-Fall 2015 newsletter located at the following website: http://georgiarocks.us/nagt/.

III. OEST Awards

We had 15 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 2015.

Alabama: Michelle Peterson Louisiana: Lisa Swenson Florida: Christine Danger

North Carolina: Rebekah Fuerst South Carolina: Jennifer Pitman Georgia: Susan Oltman

Section Winner: Susan Oltman

IV. Upcoming Plans

Two geoscience education sessions and an educator field workshop are currently proposed for SEGSA 2016 to be held in Columbia, SC.

T8. Issues in Environmental and Climate Education.

Pamela J.W. Gore; Georgia Perimeter College; pamela.gore@gpc.edu; William Witherspoon; georgiarocks.us; bill@georgiarocks.us.

T9. Evolution Teaching Practices and Data-Rich Research.

Frank Forcino, Western Carolina Univ., flforcino@email.wcu.edu; Rachel Salter, North Dakota State Univ., rlsalter1@catamount.wcu.edu.

Deep Time in the Congaree: an Educator Field Workshop.

David C. Shelley, Congaree National Park, david_shelley@nps.gov; William Witherspoon, bill@georgiarocks.us.

V. New Liaison

Because of increasing interest in education initiatives at SEGSA, a formal liaison position has been established by their board to aid in communication with SENAGT. Paige Flores, one of our K-12 awardees in Georgia who attended the evolution events at SEGSA in 2015, volunteered to serve both organizations in this capacity. We welcome her as the new SEGSA Education Chair!

VI. Membership

We have 165 members in the southeastern section as of September 2015. To encourage recently lapsed members to rejoin, we anticipate having a membership drive in the coming months as we approach the new year.

VII. 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 have set up a facebook page! We look forward to sharing opportunities and news more frequently with all who are interested!

 $\underline{\text{https://www.facebook.com/National-Association-of-Geoscience-Teachers-Southeastern-Section-400556276800591/}$

VIII. Financial Report

Thanks to Pamela Gore for her ongoing service as Treasurer!

- The checking account had \$5189.57 at the time of our last report in August 2014.
- The section membership check from national of \$382.50 was deposited in February.
- Luncheon expenses of \$72.70 for the business meeting at SEGSA were paid in March.
- Checks from luncheon attendees who did not pay cash at the time were deposited at \$45.
- Three awards were given to K-12 educators to attend events related to SEGSA at \$650.
- Bank interest for the year came to \$0.52.

Total in account as of September 13, 2015 = \$4895.39

Southeastern Section Officers

President: Christy Visaggi Georgia State University Geosciences Kell Hall 336 Atlanta, GA 30302 (404)413-5755 cvisaggi@gsu.edu

Past President: David Kopaska-Merkel Geological Survey of Alabama P.O. Box 869999 Tuscaloosa, AL 35486-6999 (205)247-3695 dkm@gsa.state.al.us

Vice-President: Blair Tormey
Blair R. Tormey
Western Carolina University
Program for the Study of Developed Shorelines
285 Belk
Cullowhee, NC
(828)227-2536
btormey@wcu.edu

Secretary: open – see President's message

about the candidacy of: Eleanor E. Gardner Florida Museum of Natural History 3215 Hull Road Gainesville, FL 32611-2710

Phone: (352)-273-1936

Email: egardner@flmnh.ufl.edu

Treasurer/Webmaster: Pamela Gore

Department of Geology Georgia Perimeter College 555 North Indian Creek Drive Clarkston, GA 30021 (678)891-3754 Pamela.Gore@gpc.edu

Newsletter Editor: William Witherspoon

bill@georgiarocks.us

Your SE NAGT State Representatives

Alabama

Hurd Finnegan W.P Davidson High School 3900 Pleasant Valley Road Mobile, AL 36609 dhs.earth@gmail.com

David Kopaska-Merkel Geological Survey of Alabama P.O. Box 869999 Tuscaloosa, AL 35486-6999 dkm@gsa.state.al.us (205)247-3695

Florida

Kim A. Cheek Department of Childhood Education, Literacy, and University of North Florida 1 UNF Drive Jacksonville, FL 32224 k.cheek@unf.edu (904)620-2794

Georgia

Kathlyn M. Smith Curator of Paleontology Department of Geology and Geography Georgia Southern University ksmith@georgiasouthern.edu

Pamela Gore Department of Geology Georgia Perimeter College 555 North Indian Creek Drive Clarkston, GA 30021 Pamela.Gore@gpc.edu 678)891-3754

Louisiana

Wendy DeMers 6072 Louisville St. New Orleans, La. 70124 2ydnew2@gmail.com (504)218-4787

Mississippi

Renee M. Clary Department of Geosciences Mississippi State University RClary@geosci.msstate.edu (662)268-1032, x 215

Adam D. Skarke Department of Geosciences Mississippi State University adam.skarke@msstate.edu (662)268-1032, x 258

North Carolina

Randy Bechtel NC Geological Survey Division of Land Resources, 1612MSC Raleigh, NC 27699-1612 Randy.Bechtel@ncdenr.gov (919)707-9402

Puerto Rico

open

South Carolina

Gwen M. Daley Dept. of Chemistry, Physics and Geology Winthrop University Rock Hill, South Carolina 29731 daleyg@winthrop.edu (803)323-4973

Tennessee

Michael A. Gibson Dept. of Agriculture, Geosciences, and Natural Resources University of Tennessee at Martin Martin, TN 38238 mgibson@utm.edu (731)881-7435

Ann Holmes Dept of Physics, Geology and Astronomy Univ. of Tennessee at Chattanooga Chattanooga, TN 37403 Ann-Holmes@utc.edu (423)425-1704

D. Financial Report, NAGT Pacific Northwest Section

Savings/Checking Account with Whatcom Educational Credit Union (WECU), Bellingham WA Submitted by Scott Linneman, Sept 17, 2014. Audited by Frank Hladky, Sept 13, 2017

Saving/Check Balance on 8/5/14	\$ 12,897.78
INCOME	
NAGT	\$ -
Guidebooks/donations	\$ 434.40
Conference (BC)	\$ 5,274.95
Interest	\$ 45.52
	\$ 5,754.87
EXPENSES	
Kahle Fund scholarship	
Misc business	\$ 1,361.11
Conference related	\$ 3,977.60
	\$ 5,338.71
Balance(s) on 9/1/15	\$ 13,313.94

Last available report of 9-17-2014

East a variable report of	<i>)</i> 1/ 2 011
INCOME	
NAGT rebate	282.50
Guidebooks/donations	357.00
Conference @ WVC	813.32
Interest	59.84
EXPENSES	
Kahle Fund	480.00
scholarship	
Balance on 5/14/14	12,892.78
	of which
	\$1400 is
	Kahle fund



Geosciences for Two-Year Colleges

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 September 22, 2015

Current Division Officers

President: Ben Wolfe, University of Kansas Edwards Campus, KS (2014-2015) Past -President: Merry Wilson, Scottsdale Community College, AZ (2014-2015)

Vice President: Kaatje van der Hoeven Kraft, Whatcom Community College, WA (2014-2015)

Vice President-Elect: Brett Dooley, Patrick Henry Community College

Secretary/Treasurer: VACANT

Newsletter Editor: Thomas Whittaker, University of New Mexico at Valencia (2014-2017)

Webmaster: Frank Granshaw, Portland Community College/Portland State University (2014-2017)

Archivist: Amber Kumpf, Muskegon Community College (2014-2017)

Geo2YC is in year four of existence as a division of NAGT. We currently have 250 members and an account balance of \$2,329.52. The division remains focused on answering the questions of "What do we want to do as a division?" and "How can we best help the 2YC community?" Much of our focus this past year was to promote continued membership growth and increased awareness of the division at the grassroots level such as through NAGT section involvement and at local geoscience professional development workshops associated with the SAGE2YC grant. At the national level we continue to promote the division most heavily at GSA with the division sponsoring two sessions at the 2015 Annual Meeting. We also had a significant Geo2YC presence at the Earth Educators Rendezvous this past summer including the reissuing the greatest swag of all time – our yellow Geo2YC scale pencils. We continue to have a small but mighty presence at AGU and are looking at ways to increase our visibility at that venue. 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 and 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 2014-2015 (December, February, 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 three of the nominees showcased in newsletters. One outstanding adjunct will be highlighted in

- each edition of the newsletter, and one nominee will be chosen for the annual award to be presented at GSA.
- 4. We held an open comment period for the first of two white papers authored by the division this past summer. The final draft of our first white paper, focused on the importance of field based education in 2YCs, will be presented at our annual meeting at GSA. The second white paper, "Importance of the GeoSciences in Undergraduate Curriculum", is currently in draft stage and is expected to be open for public comment within the next year.
- 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 collected will also help with this effort.
- 6. Geo2YC continues to partner with NASA for a Webinar Series. The first three were held in March through June of 2014, and started up again in February of 2015.
- 7. 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, and funding through Subaru for 2YC attendees at GSA.
- 8. We will be participating in GSA 2015 activities.
 - a. Geo2YC is a co-sponsor of two technical sessions:
 - T70. Digital Technology in Real and Virtual Geoscience Experiences
 - T87. Supporting Geoscience Student Transfer: Collaborations, Partnerships, and Practices for Success
 - b. The fourth business meeting of the Division will be held Sunday November 1, 2015 at GSA.
 - c. We will continue to promote the Division with the use of Geo2YC brochures and scale pencils.
- 9. 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.
- 10. 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, in the hopes that it can eventually become a Geo2YC web portal.
- 11. We have elected our incoming Vice-President, Brett Dooley, Patrick Henry Community College. Our Secretary/Treasurer position is currently vacant. We are in process of appointing an interim in the position and will hold elections for the open position coinciding with our next Vice-Present election cycle Spring 2016. Kaatje Kraft will assume duties as President of the division and Ben Wolfe will transition to Past-President at our board meeting at GSA

Respectfully submitted by, Ben Wolfe University of Kansas Edwards Campus Geo2YC Division President



Annual Report to the NAGT Executive Committee September 2015

Introduction

The Teacher Education Division (TED) is committed to the recognition and critical importance of promoting and sustaining quality preparation of Earth Science teachers. Based upon science education research and best practices in geoscience teaching, TED members strive to improve teacher education in a diverse range of settings including higher education, K-12, professional development, and informal learning environments.

TED was founded in August, 2013 by NAGT Executive Board approval. The first year of TED's existence was largely devoted to proposing the Division, soliciting volunteers to help organize it, and initial planning activities. TED's second year included electing the first slate of officers, passing our bylaws, conducting a member survey to determine how TED can best meet interests and needs of its membership, getting our first newsletter out to members, and facilitating teacher education sessions and workshops at the 2015 Earth Educators Rendezvous.

Elected Officers

Past President: Kyle Gray, University of Northern Iowa (2014-15) President: Heather Petcovic, Western Michigan University (2014-15)

Vice-President: Jeff Thomas, Central Connecticut State University (2014-15) Vice-President Elect: Mark Turski, Plymouth State University (2015-16)

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

Media Director: Steve Mattox, Grand Valley State University (2014-16)

Ex Officio Officers

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

Liaison to NAGT: Wendi Williams, NorthWest Arkansas Community College

Summary of Activities

Below is a summary of the completed and ongoing Division activities since the last report to the NAGT Executive Committee, October 2014:

- We held our first annual Business Meeting at the 2014 GSA meeting. Major items of discussion included:
 - Results of our membership survey, available at: http://nagt.org/nagt/divisions/ted/2014results.html
 - o Soliciting volunteers for ex officio members of the management board
 - o Soliciting volunteers for standing Division committees
- In November 2015, TED member Ellen Metzger agreed to serve on the organizing committee for the Earth Educators Rendezvous meeting to represent teacher education.
- In January 2015, we distributed our first Division newsletter to members, available at: http://d32ogoqmya1dw8.cloudfront.net/files/nagt/divisions/ted/volume_i_number_i.pdf

- In January 2015, we solicited session proposals related to teacher education for the 2015 GSA national meeting and coordinated oversight of these sessions with Randy Richardson (JTPC representative)
 - o Four sessions (T66, T85, T86, and T88) specifically relate to TED
- In May 2015, we held elections for management board officers:
 - o Past President: Heather Petcovic
 - o President: Jeff Thomas
 - Vice President: Mark Turski
- In July 2015, TED interests were represented at the Earth Educators Rendezvous
 - o Workshop Implementing the Next Generation Science Standards: Strengthening student understanding of science and engineering practices
 - o Workshop Maximizing the Value of your Intro Course for K-12 Teachers
 - o Poster session Teacher Preparation and Professional Development
 - o Oral session Teacher Preparation and Professional Development
- In August 2015, we sent out a call to members for fall newsletter items

New Business

The following activities are planned for the coming months:

- Solicit news and articles for our second newsletter, to be released in October 2015
- Plan for the 2015 Business Meeting at GSA
- Identify initiatives or activities that TED can support financially with member dues
- Update and maintain the TED website, including incorporation of the former NAGT Teacher Education pages
- Identify a TED member to serve on the organizing committee for the 2016 Earth Educators Rendezvous
- Sponsor or host NAGT initiative and activities related to teacher education
- Support other third-party initiatives that align with TED's stated mission and vision
- Work with NAGT journals (Journal of Geoscience Education and In the Trenches) to promote dissemination of research and best practices in teacher education

Submitted by Heather Petcovic (2014-15 TED President) Approved by the TED Executive Board on September 9, 2015

NAGT-GER Division Annual Report

Report to the NAGT Executive Committee Geoscience Education Research Division September 11, 2015

Current Division Officers

Laura Lukes-President Nicole LaDue-V.P. Katherine Ryker-Secretary Kim Cheek-Treasurer

At GSA in November 2015, new officer terms start with: Laura Lukes-Past President Nicole LaDue-President Todd Ellis-V.P. Katherine Ryker-Secretary Kim Cheek-Treasurer

The division is wrapping up its first year. Similar to the evolution of 2YC, we spent the year focusing on asking 3 main questions: Who are we? What do we want? How do we get it?

Our first priority was to officially establish the division and write/pass the division bylaws. We accomplished this goal. We also established our bank account so that we can access NAGT division funds. Later in the year, we ran our second election cycle (official transfer at GSA Annual meeting).

Our second goal has been to figure out who we are as a division. Over the year, officers met on a regular basis to discuss this topic. We consulted with other division leaders, our liaison, NAGT leaders, and other geoscience education researchers in the community. We reviewed the NAGT member survey data to get a better sense of our membership population as well, which led us to create a division member survey to help inform us as we decided which initiatives to focus on for this year. The survey results were presented at AGU 2014 and were included in a commentary published in the Feb. 2015 issue of the *Journal of Geoscience Education*. Additionally, we agreed that indexing of JGE was critical to our community and composed and submitted a letter to the NAGT executive committee about our concerns.

Our third goal was to have a presence at GSA and AGU to establish initial lines of communication with our members and be poised to actively recruit new members from within and outside the geoscience education community. We created advertising materials for the NAGT booth/brochure and a division logo. We prepared table materials for geoscience education reception at GSA and our division

meeting. We also presented and had a presence at AGU. At the Earth Educator Rendezvous, we learned that we were the largest division of NAGT, with over 200 members and counting. We activated the division listserv and created/issued several editions of our division newsletter. The newsletter provides resources and opportunities for the community, as well as highlights a GER member and the research they are doing in an effort to raise awareness in the community. We also have a list of initial initiatives for member involvement and have successfully recruited members to serve on our committees.

To meet our second and third goals, we also were actively involved in different components of the Earth Educator Rendezvous (July 2015). Laura Lukes and Nicole LaDue were actively involved in the planning committee for the Geoscience Education Research Workshop; Laura Lukes served as a co-leader of the workshop at the conference and presented materials about the division; and Katherine Ryker served as a member of the submission selection committee of the broader Rendezvous program and participated in the workshop. Todd Ellis, incoming V.P. also participated in the workshop. We shared a synthesis/summary of the workshop conversations to our membership (with an eye towards those unable to attend the Rendezvous) through a special edition of our division newsletter.

Whew! It's been a productive year and we feel fortunate to be serving such an emerging and engaged community.

The NAGT-GER Division Team:

Laura Lukes
George Mason University
NAGT-Geoscience Education Research Division President (2014-2015)
NAGT-Geoscience Education Research Division Past President (2015-2016)

Nicole LaDue Northern Illinois University NAGT-Geoscience Education Research Division Vice President (2014-2015) NAGT-Geoscience Education Research Division President (2015-2016)

Katherine Ryker Eastern Michigan University NAGT-Geoscience Education Research Division Secretary (2014-2016)

Kim Cheek University of North Florida NAGT-Geoscience Education Research Division Treasurer (2014-2015)

William A. Prothero

University of Califronia, Santa Barbara, emeritus

2106 Las Canoas Rd• Santa Barbara, CA 93105• 805-687-1005 E-Mail: Prothero@geol.ucsb.edu Web: http://es.earthednet.org

Date: 9/11/2015

To: NAGT Executive Committee

Re: Final report for NAGT OEST Awards

This is the third year that the new OEST award nomination procedure has been in place. The new system included a simple nomination form followed by additional, more extensive, information provided by the nominee. The intent was to simplify the nomination process and encourage more nominations. There were 47 nominations this year, compared to 41 (on time) last year.

This year's awardees are:

NAME	OEST Award	SCHOOL
Blake Colaianne	Pennsylvania State	Dallastown Area High School
Ken Abbott	New York State	Grand Avenue Middle School
John Russell	Eastern Section	Columbia Secondary School
Brandon Fritz	Iowa State	Williamsburg High School
Ann Anderson	North Central Section	Belle Fourche Middle School
Joe Schoen	Illinois State	Geneva High School
Adam J Keeton	Wisconsin State	North High School
Jennifer Bowling Pitman	South Carolina State	Anderson Mill Elementary
Christine Danger	Florida State	Hillsborough County Public Schools
Michele Svoboda	Central Section	Mill Creek Middle School
Beth A. Holmes	Ohio State	Etna Elementary
Christopher R. Carlton	Oregon State	Nyssa Middle School
Andrew Bagley	Pacific Northwest Section	Shorewood High School
Rodney Ward	New England Section	Christa McAuliffe Charter School
Rob Reisener	Southwest Section	Cactus Shadows High School
Heather A. Hall	Indiana State	Rensselaer Central Middle School
Ken Berger	Idaho State	Moscow High School
Michelle Peterson	Alabama State	Council Traditional School
Susan Oltman	Southeast Section/Georgia State	KIttredge Magnet School
Lisa Swenson	Louisiana State	Isidore Newman School
Rebekah Fuerst	North Carolina State	Parkwood Middle School
Ryan Hollister	Far Western Section	Turlock High School

The following table shows which sections made awards:

Section	Chair	Section Awardee	State Awardees
Midcontinent	none	NONE	
Pacific Northwest	Jodie Harnden	Andrew Bagley	
			Kenneth Berger - Idaho
			Christopher Carlton - Oregon
Eastern	Steve Lindberg	John Russell	
			Blake Colaianne - Pennsylvania
			Kenneth Abbott - New York
Central	Susan Wollf	Michele Svoboda	
			Adam Keeton - Wisconsin
			Joe Schoen - Illinois
			Heather Hall - Indiana
			Brandon Fritz - Iowa
			Beth Holmes - Ohio
Far Western	Mark Boyta	Ryan Hollister	
New England	Richard Little	Rodney Ward	
North Central	Suki Smaglik	Ann Anderson	
Southeast	David Kopaska-Merkel (Christy)	Susan Oltman	
			Michelle Peterson - Alabama
			Christine Danger - Florida
			Susan Oltman - Georgia
			Lisa Swenson - Louisiana
			Rebekah Fuerst - North Carolina
			Jennifer Pitman - South Carolina
Southwest	Cheryl Manning	Rob Reisener	
Texas	Bruce Herbert	NONE	

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:

<u>Self nominations</u>: 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 lesson 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.

TA Awards Annual Report - 2015

Slowly the revised TA award process is gaining traction and nominations are increasing. The quality of the applicants is excellent with well-expressed letters of recommendation from nominators. This year we awarded 10 memberships to very deserving students. We can give up to 30 a year so we are not there yet. The TA award was widely advertised in NAGT publications and emails were sent to former nominators. For the first time we had a January and a June deadline to encourage applicants from both semesters of teaching thus hopefully not losing anyone from the fall to the former single deadline in the spring. Our next step is to broaden the email blast with a letter from me to personalize the request for nominations a bit more. I want to thank Erica for all her work in making this happen in a very timely fashion.

Jeff Niemitz

TA Awards Chair

Field Camp Scholarship 2015 Report

Chair: Laurel Goodell

The NAGT Field Camp scholarship field was very competitive again this year, with over 80 of the best and brightest young geoscientists from around the country applying for this award. Committee members are Lydia Fox and Steve Whittier. All of the selected individuals occurred in at least 2 of the 3 committee members' rankings.

This year NAGT and AWG increased the scholarship amount to \$750 per award. This year's awardees are:

Jenna Victoria Adams (Central Washington University)

Laurel Elaine Blackman (Middle Tennessee State University)

Emily Grace Bunse (Northwest Missouri State University)

Zachary Florentino Murguia Burton (Bowdoin College)

Mark Jonathan Coleman (Simon Fraser University)

Erin Harte Conlon (University of Florida)

Erika Marie Danielsen (SUNY College at Geneseo)

Vanessa Fernandes (Hofstra University)

Gregory Andrew Hibbard (Pacific Lutheran University)

Sarah Elizabeth Holmes (Beloit College)

Sierra Noel Keller (University of California - Santa Cruz)

Nathan Allen Lentsch (University of Minnesota – Duluth)

Emma Grace McConville (University of Maryland - College Park)

Charlene Rebecca Rogers (University of Wisconsin – Milwaukee)

Kelly Marie Sanks (Illinois State University)—AWG awardee

Diana Melissa Snyder (Georgia State University)—AWG awardee

Margaret Katherine Sumner-Moore (Bryn Mawr College)

Yunan Xie (Franklin and Marshall College)







ANNUAL REPORT 2015: NAGT/USGS COOPERATIVE SUMMER FIELD TRAINING PROGRAM

The 2015 Field Season for the NAGT/USGS Cooperative Summer Field Training Program marked the 50th year of what is now one of 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/NAGTFlyer2015.pdf.)

This year, 101 students were nominated by field camp directors, and 89 of those students completed an application for the program. After receiving 64 proposals from USGS scientists (who cost-share student support with the Director's office), and after the proposal review panel met and matched students to projects, a total of 51 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 2015:

- Similar to last year, the program maintained the reduction of the number of nominees from each field camp as follows:
 - One student if the camp enrollment is 20 students or less (previously 15)
 - Up to 2 students if the camp enrollment is 40 students or less (previously 30)
 - Up to 3 students if the camp enrollment is 60 students or less (previously 45)
 - Up to 4 students if the camp enrollment is greater than 60 students (previously 45)

As the program continues to be attractive to an increasing number of USGS scientists, in order to keep it manageable we monitor the number of allowable field camp nominees on an annual basis.

- In addition to the letter that NAGT sends out to all nominated students congratulating them on their nomination and providing instructions for applying to the program, USGS continues to send individual letters to each nominated student with notes of congratulations and application instructions.
- This year we continued the practice, introduced four 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.
- We continue to receive a growing number of proposals from our life scientists; they love the skill sets, field-based abilities, and commitment of these students. As USGS has a large (systems-science) portfolio of research responsibilities, it requires us to do some awareness building on the attributes and benefits of engaging in authentic research no matter how many disciplines may be involved. Thus far, we have been successful in conveying this understanding. At the same time, and while understanding the program's budget constraints, the USGS needs to be more successful at soliciting a greater number of solid earth projects (classic field mapping and mineral studies, for example).
- As information available on geology field camps often tends to be inaccurate or out of date, we
 again spent considerable time this year 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 four years ago, we were able to
 cross-check and identify 120 active field camp programs during the 2015 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 placed on NAGT's website. http://education.usgs.gov/nagt/geofieldcamps.html

- Program evaluations continue to be sent to both scientists and interns. USGS takes the lead in sending evaluations to the scientists and NAGT takes the lead in sending evaluations to interns. As there is much attention in the federal system placed on student program evaluations, personalizing the evaluation request to the student interns and early request for feedback continues to be important. 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, November 1st, from 2:00-4:00pm.
- The USGS, Office of the Director, continues to provide 50% cost-shared, 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.
- A recently introduced Federal Recent Graduates 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).
- Important to this historic internship program, and to the leadership of NAGT, is the recent retirement of the USGS National Education Coordinator, Robert Ridky. Bob continues on as Scientist Emeritus, in large measure to ensure consistency of the program until the USGS finds an appropriate replacement. The USGS continues to conduct a national search. Of the myriad of educational activities of USGS, this internship is of the highest priority.
- Of particular importance: NAGT and USGS announce internship opportunities to ~130 field camp directors each year. Only about half of the field camp directors are responding by way of submitting nominations. Some regions (i.e. Gulf States) follow through with a large number of nominees, while others tend to have far less than their enrollment numbers would allow. Both NAGT and USGS are in discussion to find ways of improving notification to the field camp directors in these underrepresented regions.

9/10/15

Robert W. Ridky /s/ Scientist Emeritus 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 2015 Cooperative Summer Field Training Program Internship Placements

Student Intern	Project Title	Researcher
Stuart Baker MS Geology Kent State University	Soil respiration following wildfire in ponderosa and lodgepole pine forests of the Southern Rocky Mountains	Erin Berryman Lakewood, CO
John Barefoot BS Geological Sciences University of North Carolina	Photogrammetry of active thermal areas at Cascades Volcanoes	Laura Clor Menlo Park, CA
Christopher Borjas BS Physics Kansas State University	Extending and updating global models of three- dimensional subduction zone geometry	Gavin Hayes Golden, CO
Jeremy Brizendine BS Geology University of Missouri	Microfossil indicators of Pliocene paleoenvironments, Bay of Bengal	Marci Robinson Reston, VA
John Brotherton BA Geology Western State Colorado University	Benthic processes affecting solute transport through Upper Klamath Lake, Oregon	James Kuwabara Menlo Park, CA
Taylor Canada BS Geology University of Texas at Austin	Surface-water and ground-water networks	Gerard Butch Troy, NY
Carissa Chambers BS Geology Sul Ross State University	The effect of floodplain geomorphology on nutrient biogeochemistry and water quality	Gregory Noe Reston, VA
Matthew Cheney BS Geology Cedarville University	WEBB Program environmental data collection and interpretation	Jamie Shanley Montpelier, VT
Jeremy Cordova BS Geological Sciences California State University, Fullerton	Earthquake hazards in the Central and Eastern U.S.	Walter Mooney Menlo park, CA
Mindi Curran BS Geology Humboldt State University	Investigating factors determining the niche of the American Pika in the Rocky Talus Slopes: merging ecology, biogeography, climate and geology	Erik Beever Bozeman, MT
Benjamin Davidson BS Geology California State University, Long Beach	Geochemical processes and pesticides in vulnerable aquifers	Jeffrey Chaplin South-Central PA
Davis DeFord BS Geology Northern Illinois University	A tale of two volcanoes: mapping, stratigraphy, and hazards assessment at Cascade Volcanoes, Glacier Peak, and Mount Shasta	James Vallance and Cynthia Gardner Vancouver, WA
Shannon Fasola BS Geology St. Norbert College	Field technician	Lind Gee and David Croker Menlo Park, CA
Tyler Fritz BS Geology/Biochemistry University of Texas at Austin	Analysis of stable isotopes in geological, hydrological, and biological materials; developing new automated devices and methods	Craig Johnson and Matthew Emmons Denver, CO
Shane Fussel BS Geology University of Florida	Geochemical processes relating to resource extraction	Jeffrey Chaplin Pike County, PA
Ryan Gableman BS Geology University of Michigan, Ann Arbor	Earthquake hazards in the Central and Eastern U.S.	Walter Mooney Menlo Park, CA
Leia Gaten-Slahor BS Geology San Francisco State University	Modeling and measurement of unsaturated zoneflow processes	John Nimmo Menlo Park, CA
Joseph George BS Geoscience Middle Tennessee State University	Effects of stormwater on the water quality, biota, and habitat of small streams in Puget Sound	Rich Sheibley Tacoma, WA

Jennifer Godbout BA Geology Colgate University	Investigations into the bioavailability and bioaccumulation of selenium and mercury in the San Francisco Bay Estuary	Robin Stewart Menlo Park, CA
Aaron Gross BS Geology University of North Carolina	Sea turtle movements and habitat-use	Kristen Hart Davie, FL
Kristyn Hill BS Geology University of Nebraska	The fate of carbon in permafrost soils	Miriam Jones Reston, VA
Robert Quinn Hull BA Geology Oberlin College	Cape cod toxic substances hydrology field research	Denis LeBlanc Northborough, MA
James Ingraffia BS Geology California State University, Northridge	Geological and geophysical studies of the San Andreas Fault System	Shane Detweiler Menlo Park, CA
Jordan Kovash BS Geology Western Washington University	Modeling and measurement of unsaturated zone flow processes	John Nimmo Menlo Park, CA
Joseph Krienert BS Geology Southern Illinois University	Plant phenology monitoring: data analysis and applications to assess habitat	Geneva Chong Fort Collins, CO
Larisa LaMere Senior, Geology Rice University	Assessing foodweb connectivity and carbon sequestration within the Nisqually River Delta	Isa Woo and Susan De La Cruz Olympia, WA
Madeline Lewis BA Geoscience Pacific Lutheran University	Assessing the influence of natural copper-nickel bedrock on water quality	Perry Jones Mounds View, MN
Kristiana Lapo BS Geoscience Pacific Lutheran University	Hydrologic technician/geologic technician	Katherine Skalak Reston, VA
Madeline Lewis BS Geological Sciences Indiana University	Investigations of Serpentinites and associated rocks along the San Francisco Peninsula	Steve Kirby, Carl Wentworth, and Victoria Langenheim Menlo Park, CA
Leslie Logan BS Geology University of Wyoming	Melt and fluid inclusion analysis in resource investigations	Albert Hofstra Denver, CO
Evan Martin BS Geology University of Wyoming	Geologic mapping in the southwestern part of the Idaho National Laboratory site	Mary Hodges Idaho Falls, ID
Joshua Messenger MS Student, Geosciences Montana Tech of the University of Montana	Assessing the influence of natural copper-nickel bedrocks on water quality	Perry Jones Mounds View, MN
Brian Meyers BS Geology University of Oregon	Geodetic monitoring of Cascade Range Volcanoes and Yellowstone	Michale Lisowski Vancouver, WA
Nikolas Midttun BS Earth and Space Sciences University of Washington	Imagery analysis and fault slip rate studies, Southern California	Katherine Scharer Pasadena, CA
Savannah Miller BS Geology Clemson University	Fate and transport of biodegrading chlorinated solvent contaminants in fractured rock aquifers	Thomas Imbrigiotta Lawrenceville, NJ
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Katherine Morgan BS Geology Western Washington University	Geophysical investigations related to geothermal, mineral, water resources and other natural hazards	Darcy McPhee Menlo Park, CA
BS Geology		

Katherine Pappas BS Geology University of North Carolina, Wilmington	Applied hydrogeophysics research	John Lane Storrs, CT
Dolan Paris BA Geology Humboldt State University	Utilization of portable seismic instrumentation to assess site response and seismic hazard	Alena Leeds Denver, CO
Candice Passehl BS Geology Fort Lewis College	Utilizing Quaternary geochronology to unravel Pleistocene geomorphic histories	Cal Ruleman and Shannon Mahan Denver, CO
Marcel Peliks BS Earth Sciences University of California, Santa Cruz	Geophysical instrumentation and monitoring support of Cascade Range Volcanoes	Benjamin Pauk Vancouver, WA
Daniel Roberts BS Geology University of Oklahoma	Carbon storage in coastal salt marsh ecosystems after restoration	Meagan Eagle Gonneea Woods Hole, MA
Clay Robertson BS Geology Kansas State University	Effects of stormwater on the water quality, biota, and habitat of small streams in Puget Sound	Rich Sheibley Tacoma, WA
Nicole Rocco BS Earth Science Oregon State University	Characterizing the ecology of deep-sea invertebrate communities associated with Caribbean Seamounts	Amanda Demopoulos Gainesville, FL
Samuel Schoenmann BS Geology University of Wisconsin, Oshkosh	Hydrological technician	Cliff Hupp and Ed Schenk Reston, VA
Benjamin Stark BS Geological Engineering University of Wisconsin, Madison	Geohydrologic monitoring and characterization of landslide and debris flow source areas	Rex Baum Golden, CO
Bryanna Sudman BS Geology and Geography Minnesota State University	Digital geologic map compilation in the northern Sacramento Valley, the Sierran Foothills, and the California Coast Ranges	Donald Sweetkind Denver, CO
Laura Sugano BS Geology Illinois State University	Evaluating Pleistocene and mid-continent climate, hydrologic, and paleoseismic records using speleothems from caves in Arkansas, Missouri, and Indiana	James Paces and Mark Hudson Denver, CO
Colby Thrash MS Hydrogeology Clemson University	Groundwater flow and contaminant transport in fractured-rock aquifers	Claire Tiedeman Lawrenceville, NJ
Erik Tvinnereim BS Geology Iowa State University	Age dating with chiral amino acids	Nancy Simon Reston, VA
Scott Walker BS Geology Colorado State University	Wyoming groundwater-quality monitoring network	Gregory Boughton Cheyenne, WY

Project Eddie (Environmental Data-Driven Inquiry and Exploration)

Catherine O'Reilly (lead PI), Department of Geography-Geology Illinois State University.

This past year was Project Eddie's second year of implementation, but it's first with NAGT sponsorship. Project Eddie is a 4-year project funded by NSF. The goal of Project Eddie is to develop stand-alone classroom activities for students using long-term and high-frequency, with the aim to increase both students' skills at manipulating large datasets as well as their understanding of various scientific concepts (with a focus on geological and ecological themes). In this year, eight faculty are assessing a combined total of 10 modules, with class sizes ranging from 6 to around 1000 students, across a range of institutions.

Project Eddie had its annual workshop in association with NEON, which will be generating large datasets in association with ecological observatories. A member also attended the Earth Educator's Rendezvous. During 2015, we have promoted our materials through presentations at Geological Society of America, Ecological Society of America, Global Lake Ecological Observatory Network, and American Geophysical Union. Our website is projecteddie.org.

Report to the NAGT Council: NAGT AGI NGSS Summit

Summit basics:

Location: NOAA Headquarters, Silver Spring, MD

Dates: April 29-May 1

Attendees: 56 complete list

Summit co-conveners: Ed Robeck, AGI; Susan Sullivan, NAGT Past President; Aida Awad,

NAGT Past President

Summit Webmaster: John McDaris, SERC

Summit funding: NSF, AGI, NOAA (hosted Summit)

Website: http://nagt.org/nagt/profdev/workshops/ngss summit/2015/index.html

Summit goals:

Goal 1: Conduct a needs and assets assessment before the summit to determine the top concerns and interests of stakeholders in the NGSS implementation process.

Goal 2: Build a community of experts and stakeholders to communicate and work together in the implementation of the new standards, across disciplines, but with a focus on the ESS.

Goal 3: Identify and assemble a collection of NGSS-congruent ESS educational resources and develop concrete guidelines for using these resources to translate the vision and structure of the NGSS into teaching and learning practice.

Pre-summit events:

- needs assessment surveys:
 - interview / phone survey conducted fall 2014 by Ed Robeck responses used to develop broader needs assessment survey sent out to the community at-large
 - Survey Monkey delivered needs assessment survey over 300 responses to date webinar slides
- webinars:
 - NGSS Earth and Space Science: Vision, Opportunities, and Action webinar presenter: Michael Wysession 42 participants
 - Needs and a call to action webinar presenter: Ed Robeck 24 participants
- discussion forums:
 - 7 threads currently
 - encourage contributions!

Summit agenda - summary:

- plenary sessions:
 - Michael Wysession The intent of NGSS in ESS—The ideal vision
 - Stephen Pruitt (Achieve) Many facets of a change initiative
 - Heidi Schweingruber (Nat'l Academy of Sci.) Networks that are working
 - David Evans (NSTA Exec Dir) How can the ESS Community Participate with NSTA Initiatives to support NGSS Implementation?
- roundtable & panel discussions:

- panel teacher readiness:
 - Panel facilitator: Ian Macgregor, Smithsonian Science Education Center
 - Panelists: Anne Egger, Central Washington University; Eric Pyle, James Madison University, NSTA; Steve Semken, Arizona State University; Michael Passow, NESTA; Ted Willard, NSTA
- roundtable discussion leaders state department of ed reps and big school district reps Juan-Carlos Aguilar, Council of State Science Supervisors

Barbara Dubielak-Wood, Chicago Public Schools

Sharon Densler, Delaware Department of Education

Nancy Kellogg, Colorado Science Education Network

Jeff Miller, Denver Public Schools

Susan McWilliams, Oregon Dept. of Education (ODE)

Robin Sizemore, West Virginia Department of Education

Rae McEntyre, Kentucky Department of Education

Phil Lafontaine, CA K-12 Alliance WestEd

John Popp, KS

Gary Hedges, Maryland

- Informal education & teacher readiness table discussions
 - Jim Short, American Museum of Natl History
 - Adam Blankenbicker, Smithsonian Inst.
 - Shauna Edson, Smithsonian Inst.
 - John Taber, IRIS
 - Don Duggan-Haas, Paleontological Research Inst.
 - Ian Macgregor, Smithsonian Science Education Center
 - Frank Niepold, NOAA
 - Bob Ridky, USGS
 - Jean Flanagan, Smithsonian Science Education Center
- breakout group work time:
 - stakeholder groups worked together at various times during the summit focusing on the following:
 - Understanding & prioritizing areas of need identified through the Needs Assessment surveys
 - Reviewing submitted profiles for assets & aligning them with areas of need
 - Mapping attendees network connections & identifying connections across stakeholder groups
 - action plan what is your 5 year vision? 6 month plan?
 - stakeholder groups actionable items list

Next steps:

- Planning team commitments:
 - webinar 5/28 possible date??
 - EOS communication
 - Summarize & Synthesize (Report)
 - Encourage additions to resource profiles
 - Refine resource profiles & go live on the website
 - Workshop / sessions at the Earth Educator Rendezvous, GSA, AGU
- Other ideas for next steps

- stakeholder group driven monthly?? virtual meetings
 Town Hall meetings at professional society meetings
 Maintain and expand networking
 Communication follow-up TBA