



National Association of Geoscience Teachers

2013 Annual Report

Prepared for the 2013 Annual Meeting
Denver, Colorado

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Report for NAGT June-September ExCom 2013

Susan Buhr Sullivan, President

- 1. NAGT regular business (review below for completeness and redundancy)**
 - a. Regular sponsorship letters as requested.
 - b. Write NAGT news items as needed.
 - c. Write ITT column regarding membership changes, workshop collaborations, web ads, etc.
 - d. Letters and communication re awards to awardees and nominators.
 - e. Neil Miner Committee completed
- 2. Other NAGT business**
 - a. Divisions vote complete (approved)-Teacher Education Division and Geoscience Education Research Division
 - b. By-laws and constitution votes obligated by new member categories and dues structure and divisions.
- 3. Workshop committee**
 - a. Participate in workshop committee meetings
 - b. Co-chair with Heather MacDonald
 - c. AGU and GSA workshops set
 - d. Virtual workshop leader identified (A. Egger)
 - e. Traveling workshop in discussion, to be held GSA sectional in MT
- 4. Membership committee**
 - a. Participate in membership committee meetings
 - b. Review materials as needed
- 5. Cutting Edge-Talks for Cutting Edge “Preparing for an Academic Career”**
 - a. Outreach and Education in an Academic Career
 - b. Communicating about Climate Change
- 6. JGE AE**
 - a. Regular reviews as AE
 - b. Special issue AE-recruit papers, correspond with authors, correspond with other editors, review and editorial tasks.
- 7. SISL/PKAL**
 - a. Participate in resource teams and liaison meetings
 - b. Conversations between SERC/SISL and resource team
 - c. Discipline web pages completed
 - d. Sustainability statement completed by Gene and Beth
- 8. NGSS/NSELA/NESTA**
 - a. Followup NGSS at National Science Education Leadership Association (NSELA)-as CIRES but useful for NAGT
 - b. Conversation with NESTA president (Missy Holzer) about collaboration
 - i. Joint interest in dual credit courses-position statement, other opportunities.

- ii. Joint interest in NGSS-considering asking to share upcoming NSTA webinar on Earth and Human Activities NGSS.
- c. Hosted NGSS meeting for Colorado (as CIRES but useful for NAGT), understand support needs better.

Annual report for NAGT September, 2013 - Aida A. Awad, 1st VP

- ❖ GSA Annual Meeting – Charlotte, NC
 - Attended Executive Committee & Council meetings
 - Attended NAGT / GSA Education Division Luncheon and Awards
 - Co-presenter: “NAGT Support for the Next Generation”
 - Volunteered in NAGT booth
 - Attended GSA Education Committee Business Meeting
 - Attended GSA ED Div meeting
 - Attended JGE dinner and meeting
 - Attended JTPC meeting
 - Attended Joint AGI-GSA Societies Meeting
 - Attended EarthPD meeting
- ❖ GSA JTPC
 - Collaborated with GED Reps on session organization for GSA Denver
 - Reviewed proposed sessions
 - Managed NAGT sponsorship of education focused proposed sessions
 - Collaborated on session scheduling efforts
 - Managed reorganization of abstracts into sessions & establishment of poster sessions
- ❖ JGE Assistant Editor
- ❖ PKAL
 - attended virtual meetings for the project team charged with organizing professional development opportunities aligned with the resources team’s work
 - reviewed website and provided feedback and recommendations for additional inclusions
- ❖ NGSS
 - Attended critical stakeholder webinars to learn review process’ for 2nd draft
 - Organized review forum discussion & conference call
 - Collected and synthesized reviews / comments / feedback from NAGT community
 - Submitted NGSS Draft 2 review for NAGT
 - Participated in conference calls working toward an NGSS Summit
- ❖ NAGT meetings
 - attended January virtual meeting
 - called in to April meeting
 - attended May virtual meeting
 - attended June virtual meeting
- ❖ assumed president’s responsibilities during Susan Buhr’s absence in June
- ❖ Integrate
 - attended meeting of the assessment team at Carleton College
 - participated in virtual meetings of assessment team
 - participated in InTeGrate webinars
 - reviewed assessment items as requested
 - managed assessment reviews for 2 teacher prep module teams
- ❖ EarthPD – in-progress organizing review team to establish review criteria

NAGT Past President's Annual Report 2013
Beth Wright

November 2012:

Attended all NAGT activities at GSA Annual Meeting in Charlotte, NC. Also:

- Represented NAGT Executive Committee at the Geo2YC Division Meeting, the GSA President's Breakfast for Students, and the AGI-NAGT Leadership meeting.
- Attended the event for Women Chairs and Deans, sponsored by AWG.
- Staffed the NAGT booth.

2013:

Represented NAGT at four or five meetings of SISL (Sustainability Improves Student Learning).

Helped draft NAGT position paper on teaching sustainability.

Participated in five Executive Committee and Council meetings.

Worked on NAGT membership committee to review transition to SERC-managed membership system.

Participated in the Miner Award Review Committee.

Chaired NAGT Nominations Committee.

March Mid-Year Meeting 2013
Executive Director's Report April 2013-September 2013
Cathryn A. Manduca

Priorities for the Executive Director's office this year have included

- Solve issues surrounding membership services and donations
- Establishment of a NAGT Professional Development Program for Geoscience Faculty in collaboration with the On the Cutting Edge (CE) and Building Strong Geoscience Departments (BSGD) programs.
- Establishment 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.
- Enhanced collaboration with other professional societies and groups supporting geoscience education particularly in issues of public affairs and K-12 education.
- Strengthening of interactions with the sections and division.

These priorities reflect the twin goals of increasing the value of NAGT membership and stabilizing the societies 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. The society's financial stability rests on membership, subscriptions, and publications revenue. 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.

Our primary strategy for addressing membership services and donations has been to move member services to SERC. This involved development of new capabilities within the CMS to manage membership and donations, and moving communications surrounding membership issues from Allen Press to SERC. Matt Lauer has completed the initial programming needed to support membership and donation. Erica Zweifel has assumed duties related to membership communication and increased the percentage of her time spent on NAGT services accordingly. The transition of membership services occurred on September 1. The first mailing for renewals was sent in early September. Membership renewals are outpacing the last three years and donations have increased. Our next task is to work on data analysis to better understand renewal patterns of various types of members. New materials for the booth and a new brochure have been developed to support recruiting through the fall.

As part of this transition, SERC assumed responsibility for managing subscriptions. This process was not well described by Allen Press and we are still engaged in conversations to understand the technical aspects of subscription management. Currently all members can access their NAGT member services and JGE with a single password (the same password they use to work on the SERC site). Libraries and 3rd party vendors can contact us to renew

their subscriptions. Trouble shooting for access issues is still done by Allen Press. Moving to a regular subscription drive with online payment is a priority for fall.

We have made substantial progress in the transition of the On the Cutting Edge and Building Strong Department programs to NAGT. The workshop planning committee successfully identified programming for this year and recruited leadership. These workshops are being advertised with the NSF funded workshops as a NAGT On the Cutting Edge professional development program. The workshop committee recommended a fee structure that would encourage local groups and whole departments to participate. This is being discussed by the PD programming committee. GSA has confirmed their commitment to the program and pledged \$10K for this year. Initial contact has been made with AGI. Erica Zweifel and Molly Kent are supporting these programs from the Executive Directors office with funding guaranteed by the NSF funded project.

A priority for this year will be maintaining the new members recruited last year through active programming in the sections, divisions and at the national level. The two new divisions are established and have activities planned for GSA. Collaboration among sections, divisions and the national organization will continue to be critical as we both recruit and retain members into the future.

Collaboration with other professional societies continues to be the primary mechanism for raising the profile of geoscience education. We completed a portal on teaching about sustainability with a group of professional societies. NAGT has the strongest set of materials in this portal and was key in leading the group to completion of the project. We continue to work with AGI on advocacy issues as well as publishing projects. We are engaged in a second project with a group of professional societies on disciplinary based education research. The final report for the Earthcube workshop was completed.

In addition to routine operations of the Executive Directors office including budgeting, bookkeeping, support for ongoing programming, publication of the e-news, maintenance of the website, support for sections and divisions, and support for seven meetings of the executive committee and/or council, we also:

- Participated in letter of affirmation campaign for GSA's 125th Anniversary

- Worked with Susan Buhr Sullivan on an *In The Trenches* article

- Sent Thank You notes to authors of content used in Earth Week Bookmark

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.

2013 NAGT Secretary/Treasurer Report

- I participated in and recorded minutes at the Executive Committee meetings on November 4, 2012, January 31, 2013 (virtual), and April 20, 2013, and for the NAGT Council meeting on September 12, 2012.
- I collaborated with the Executive Director to develop the FY14 NAGT budget.
- I participated in the Nominating Committee, finding officers for 2 councilor positions and 2nd vice president.
- I participate by email in many discussions with the full Executive Committee or subsets thereof during the year both from a budget point of view and from having served on the EC for several years now.
- The following transactions were made within our Oakmark account.

August 31, 2013 Oakmark Fund Account Report

NAGT Endowed Funds – *Oakmark Equity Income* NAV \$31.88

	Shares	Aug 31, 2013	Aug 31, 2012
Horberg Fund	1,952.582	\$62,248.31	\$55,955.58
Rosalsky Fund	552.532	\$17,614.72	\$15,837.04
Field Scholarship Fund	3,781.967	\$120,569.11	\$107,483.56
Honors Fund	125.938	\$4,014.89	\$3,570.76
NAGT Endowment	19,524.859	\$622,452.51	\$537,409.37

NAGT Funds – *Oakmark Equity Income*

	Shares	Aug 31, 2013	Aug 31, 2012
Minority Fund	90.368	\$18,103.92	\$18,103.92
Stout Fund	572.180	\$2,497.85	\$2,497.85
Reserve Fund	3,685.878	\$117,505.79	\$101,880.52

NAGT Endowed Funds – *Oakmark Money Market Fund*

	Shares	Aug 31, 2013	Aug 31, 2012
NAGT Endowment	15,004.50	\$15,004.50	\$15,003.96

FY13 Year End Oakmark Fund Transactions

Tuesday, August 20, 2013

Deposit of \$2708.60 (84.092 shares, NAV \$32.21) donations to the following funds:

- \$35 to the Honors Fund (1.087 shares)
- \$25 to the Field Scholarship Fund (0.776 shares)
- \$2648.60 to the NAGT Endowment (82.229 shares)

Friday, August 23, 2013

Withdrawal of \$9,265 (286.753 shares, NAV \$32.31) from the following funds:

- \$140 from the Honors Fund (4.333 shares)
- \$2675 from the Stout Fund (82.792 shares)
- \$2320 from the Horberg Endowed Fund (71.804 shares)
- \$660 from the Rosalsky Endowed Fund (20.427 shares)
- \$3470 from the Field Scholarship Endowed Fund (107.397 shares)

Friday, August 30, 2013, end of day

Fund: OAKMARK EQUITY & INCOME FUND	NAV (as of 08/30/2013): \$31.88
Total: \$965,527.37	Shares: 30,286.304

Fund: OAKMARK MONEY MARKET FUND	NAV (as of 08/30/2013): \$1.00
Total: \$15,004.50	Shares: 15,004.500

***Journal of Geoscience Education* Fall 2013 Report to NAGT Members.**

Submitted by Kristen St. John, Editor-in-Chief, jge@jmu.edu

1. Editorial Board.

The JGE Editorial Board includes Editor-in-Chief Kristen St. John (James Madison University), Editor for Curriculum and Instruction Dan Dickerson (Old Dominion University), Editor for Research Karen McNeal (Mississippi State University) and 17 regular Associate Editors. We also have two guest editors for the theme issue on Teaching Geosciences in the Context of Culture and Place.

2. Journal Summary.

Seventy-eight manuscripts were submitted to JGE between March 1, 2013 (**Table 1**) and September 20, 2013: 38 C&I papers, 34 Research papers, 4 Commentaries and 2 Editorials. Approximately 50% of these were submissions to the theme issue on *Climate Literacy*.

You will see some minor differences in historical data reported in Table 1 (below) compared to that reported in the April 2013 report. This is because additional actions on manuscripts submitted during those prior time windows may have occurred affecting in particular final acceptance rates and time to decisions.

Overall we are on a good track with submissions and turn-around times, however there are large discrepancies in workflow rates among the voluntary members of the Editorial Board and among reviewers (neither shown). To help streamline the efficiency and workflow, I have worked with Allen Press to set up automatically generated AE and Reviewer reminders. AEs are notified by email when their invitation to a potential reviewer was either declined or ignored, prompting the AE to identify additional potential reviewers. Reviewers are reminded 1 week prior to an upcoming review deadline, on the due date, and then 3 times after the due date if needed.

I want to recognize the three Associate Editors of the theme issue on Teaching Geoscience in the context of Culture and Place, as they have had a much higher workload than most AEs. Judy Lemus, Steve Semken, and Jude Apple have collectively reviewed 34 manuscripts in the last 6 months. In addition, Allison Stokes, Stephanie Hathcock, Susan Buhr, and Heather Petcovic each reviewed 4 manuscripts during this time. Their efforts are very valuable to the manuscript review process and to the geosciences education community.

Table 1. Journal Summary Report 2009-2013

6-month time window	Total # submitted manuscripts	Acceptance Rate	Days from Receipt to First Decision	Days from Receipt to Final 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 September 20, 2013 [note many manuscripts submitted in this time window are still pending, therefore acceptance rates and time to decisions include only limited data (those that have reached that stage)]	(78)	(0%) Meaning no manuscript submitted during this window have yet been accepted for publication (although decisions for rejection, reject-recommended resubmission, and accept with revision have occurred.)	(86)	(79)
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3. Total Articles and Pages

The contract with AP was based on an estimate of 80 pages per issue, (of 8 articles 10 pages each) and that is no longer the reality. With the 2011 shift to 4 issues/year, the annual total pages was estimated to be 320 at the time of contract negotiations. That was a reasonable estimate at the time of contract negotiations with AP, because the average number of pages/yr for 2009-2011 was 320 pages. While the number of articles and pages is variable from issue to issue, we have seen an overall increase in the number of pages and the number of articles in the last couple of years (Table 2). Note # of articles listed below include commentaries, C&I papers, Research papers, Editorials and Calls for papers.

Table 2. JGE Number of Articles and Pages 2009-2013

JGE Issue	Number of pages	Number of Articles
Jan 2009, v57 (1)	93	9
Mar 2009, v57 (2)	70	12
May 2009, v57 (3)	56	7
Sept 2009, v57 (4)	105	10
Nov 2009, v57 (5)	61	6
	<i>Total no. pages for 2009 = 385</i>	<i>Total no. articles for 2009 = 44</i>
Jan 2010, v58 (1)	50	6
Mar 2010, v58 (2)	69	8
May 2010, v58 (3)	75	8
Sept 2010, v58 (4)	54	7
Nov 2010, v58 (5)	60	7
	<i>Total no. pages for 2010 = 312</i>	<i>Total no. articles for 2010 = 36</i>
Feb 2011, v59 (1)	45	6
May 2011, v59 (2)	50	6
Aug 2011, v59 (3)	74	8
Nov 2011, v59 (4)	87	9
	<i>Total no. pages for 2011 = 262</i>	<i>Total no. articles for 2011 = 29</i>
Feb 2012, v60 (1)	91	9
May 2012, v60 (2)	105	13
Aug 2012, v60 (3)	88	11
Nov 2012, v60 (4)	127	13
	<i>Total no. pages for 2012 = 411</i>	<i>Total no. articles for 2012 = 46</i>
Feb 2013, v61 (1)	169	18
May 2013, v61 (2)	80	9
Aug 2013, v61 (3)	95	10
Nov 2013, v61 (4)	est. 125	est. 11
	<i>Total no. pages est. for 2013 = 469</i>	<i>Total no. articles est. for 2013 = 48</i>

4. Outstanding Reviewer and Outstanding Paper Awards.

The Outstanding Reviewer is Dr. Anthony Feig (Central Michigan Univ). He was nominated by Kyle Grey. The Outstanding Paper is *A Model for Enabling an Effective Outcome-Oriented Communication Between the Scientific and Educational Communities* by Tamera Ledley (TERC), Michael Taber (Colorado College), Susan Lynds (Univ Colorado, Boulder), Ben Domenico (Univ Colorado, Boulder), and LuAnn Dajlman (NOAA). JOURNAL OF GEOSCIENCE EDUCATION 60, 257–267 (2012). This was nominated by Dan Dickerson and by John Van Hoesen.

The award selection committee included Karen Kortz (NAGT Executive Com), Alison Stokes (AE), Stephanie Hathcock (AE), and Kristen St. John (Editor). Information on award criteria and the nomination and decision process are provided below and on the JGE website: <http://nagt-jge.org/page/awards>.

Recommendation: The award committee recommends that the award criteria for Outstanding Reviewer be based on the reviews done in the last year, not when the paper is published. The reason is that at the moment reviewers are only eligible for this award if the paper they reviewed was published, but reviewers are also critical in weeding out manuscripts that don't achieve the quality necessary for JGE, or may need more than 1 year of nurturing to reach publication stage.

5. Theme Issues

Progress on Theme Issue: *Teaching Geoscience in the Context of Culture and Place*

Thirty manuscripts were submitted for consideration in this theme issue. Several have been accepted, but we are waiting on many revisions. We anticipate that this theme issue will be published in February or May 2014.

The theme issue Associate Editors and Editors are: Judy Lemus, Jude Apple, Steve Semken, and Kristen St. John.

Description: We seek to compile a focused collection of articles that highlight current thinking, models, teaching methods, and authentic assessment of approaches for integrating place-based learning, Western and traditional knowledge systems, or multicultural issues in geoscience education. For more information on this theme issue solicitation see: <http://nagt-jge.org/doi/full/10.5408/1089-9995-60.2.94>.

Progress on Theme issue: *Outcomes from Climate Literacy Efforts*

Thirty-nine were submitted for consideration in this theme issue. These are currently at different stages of the review process.

The theme issue Editors are: *Editor for Research*, Dr. Karen S. McNeal, Karen.mcneal@msstate.edu; *Associate Editor and President of NAGT*, Dr. Susan Buhr, susan.buhr@colorado.edu; *Editor-in-Chief*, Dr. Kristen St John, stjohnke@jmu.edu.

Description: Numerous efforts have been conducted recently to educate and engage society in the issue of climate change. The geosciences and the field's interdisciplinary partnerships play key roles in these efforts. As such, we seek to compile a collection of articles focused on the research, evaluation outcomes, and lessons learned from climate literacy teaching, programmatic, and research efforts made among a variety of audiences. Articles that highlight development of international, national, regional, and local climate activities with formal and informal audiences and their impacts are encouraged. We also encourage papers that focus on climate knowledge, attitudes, and behaviors of these audiences and activities aimed to communicate and engage with these audiences through interdisciplinary partnerships. Submission of research papers, curriculum and instruction papers, and commentaries are welcomed. The Submission deadline was extended to July 1 2013.

New Theme Issue under Discussion: *Teaching Oceanography*

Several participants of the On the Cutting Edge 2013 Teaching Oceanography workshop (<http://serc.carleton.edu/NAGTWorkshops/oceanography/workshop2013/index.html>), expressed interest in a theme issue in JGE on best practices in teaching undergraduate oceanography. This may be a good way for this and future

NAGT/On-the-Cutting-Edge workshops to have greater reach and academic publication impact. A core group of participants are expected to make a formal proposal with a potential call for articles in Spring 2014.

5. Guide to Aspiring Authors

The open-access editorial *Guide to Aspiring Authors*, Journal of Geoscience Education, by St. John, Dickerson, and McNeal (August 2013, Vol. 61, No. 3, pp. 253-255, <http://nagt-jge.org/doi/pdf/10.5408/1089-9995-61.3.253>) is a direct outcome of the collaboration between the JGE and the 2013 Teaching Oceanography workshop. The Editorial team's goal with this article is to increase the number and quality of manuscript submissions from new authors. Please promote this guide to authors broadly.

This year was the third year for publication of the quarterly NAGT news magazine *In the Trenches*. This quarterly publication provides a venue for improving geosciences education by describing best practices in teaching, teaching tips, resource descriptions and other material suitable for geosciences teachers at all levels. University, two-year faculty and K-12 teachers are solicited to provide material for this printed publication that also has an associated website. David Steer, The University of Akron, was the lead editor, Dexter Perkins, University of North Dakota, was the associate editor position and Nancy Ashmore participated as the managing editor.

Each issue centers around one or two main articles with several related columns and additional content as needed. The January Issue focused on using research experiences to facilitate teaching and learning. That issue also included an article discussing MOOCs. The April issue centered on teaching teachers through two feature articles and several related columns. The contributions varied from descriptions of field trips to reflective writing. Applications of using technology were also discussed. Editors decided the July issue would center on electronic resources for improving teaching and learning. Authors highlighted six projects that spanned high school to college-level resources. This issue was also used as a place to disseminate news of interest from the mid-year meeting. The October issue discussed teaching and learning related to sustainability and using tablets in the field. A separate contribution described a model for developing learning outcomes. This issue was also used to publish the 2013 NAGT award winner biographies and photographs.

Content for future issues, while tentative, will focus on themes of broad interest to the geosciences education community. Issues are being planned that will discuss topics related to teaching about widely found, but specific geologic settings, meteorology and other topics solicited from the community. The editorial staff welcomes submissions and ideas for future content.

Lastly, Cindy Shellito of The University of Northern Colorado agreed to become the next Editor of *In The Trenches*.

David Steer
Editor

NAGT Website and News Report

September 2013

John McDaris

Sean Fox

Matt Lauer

In the period from September 2012 to September 2013, the NAGT website continued to add new content and make improvements. Online supplements for In the Trenches, community advertisements, and announcements have been added to the site. The site overall saw an increased number of unique page views from a slightly smaller user group than the previous year. There were also slightly fewer sessions but the number of repeat users went up modestly. A detailed breakdown of traffic can be found below.

Accomplishments since April 2013

- Online supplements for April and July issues of In the Trenches posted to the website. <http://nagt.org/nagt/publications/trenches/index.html>
- Monthly NAGTNews emails – April, May, June, July, August, September – articles from the newsletter added to the site as news items.
- 5 Community Advertisement posted on the website.
- 24 Community Announcements posted on the website.

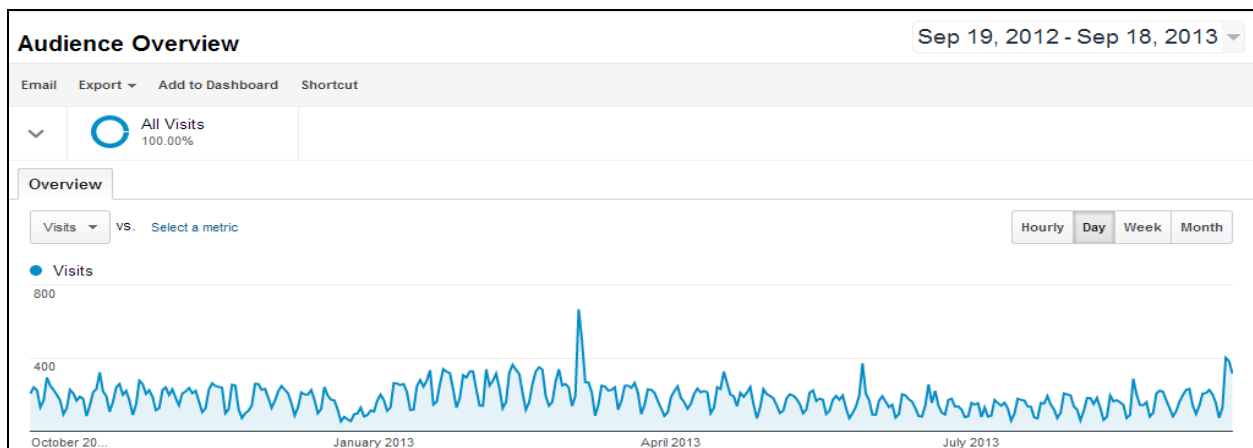
Website Use

Between September 19, 2012 and September 18, 2013, the NAGT website received 66,678 visits from 51,165 unique users of which some 25% were repeat visitors. The most popular parts of the site for this period were Programs (33% of unique pageviews), JGE (19%), Teaching in the Field (7%), and News (6%).

By comparison, for the same period 2011-12, there were 67,803 visits from 52,535 unique users of which some 24% were repeat visitors. The most popular parts of the site for this period were Programs (28% of unique pageviews), JGE (25%), Teaching in the Field (7%), and News (6%).

More detail about the numbers:

Overall traffic saw a 2.7% increase year on year. The JGE area of nagt.org continues to see decreasing use as more content is added to the site maintained by Allen Press leading to a 19% drop in unique page views. Significant changes were also seen in the traffic to other areas of the site: Programs: +24%, Organization: -8%, Teaching in the Field: +7%, Teaching Resources: +14%, News: +10%, Membership: +11%, Divisions: +17%., Sections: -8% Many of these large percentage changes are acting on small absolute numbers (several hundred to a few thousand visits) but the changes added up to a net positive change in overall site usage.



There was a short-lived spike in traffic on March 4th due to the EarthCube Education End-Users Workshop which was co-sponsored by NAGT and given webspace on the site for use during the workshop. Coincidentally, March 4th is also the day when a sizeable spike occurred to the front page of the website in 2012 but we have yet to determine a cause.

Section Website Usage (for those hosted at SERC)

Traffic on Section websites showed several year-on-year variances. Central is the most used section site and saw a 9% increase in traffic year-on-year. North Central had a decrease of 24%, Southwest saw a 5% increase and New England saw a decrease of 21%. In absolute numbers, traffic to section websites ranges from about a hundred unique pageviews per year for New England to just over 500 for Central.

NAGT Membership Services at SERC

During July and August 2013 SERC built a custom membership portal for NAGT leveraging existing tools within SERC's web infrastructure. On September 4th, 2013 we turned on the credit card processor and accepted the first renewal for the 2014 membership year. The membership portal is available at nagt.org/members for new and renewing members.

The signup process for new and renewing NAGT members has been streamlined and simplified. Some members completed every form in the signup process in less than 4 minutes. Members now have the option to automatically renew their membership each year and almost 20% of renewing single year members selected the automatic renewal option for the future.

There is a new online donation form in the member portal for simple and safe online donations to NAGT. It supports radio button options as well as custom allocations to any fund. The donation form was added to the new & renewing signup process and has already generated many new donations to NAGT.

Mailing lists for each section and division are automatically updated daily allowing section officers to communicate with section members with ease.

Online access to *JGE* is now accomplished through individual members' primary NAGT account and doesn't require a separate login at nagt-jge.org. Members who already have a SERC account now share a single login for both SERC and NAGT accounts. SERC will provide Allen Press with mailing addresses and institution subscription information to facilitate *JGE* mailings and provide online access to *JGE* for institutions.

Looking Ahead

In the near future it is anticipated that the website as a whole will undergo a significant overhaul which will likely rearrange content into areas other than where it is currently. This will impact the traffic patterns across the site but thought will be given to how to move users across the site between areas of high interest.

It is also anticipated that the transition of membership services to the SERC Content Management System will bring an increase of traffic to the site, but it is unclear at this point what broader impact this will have for users accessing materials on the public website.

My first year as NAGT “historian” was occupied with two projects: 1) organizing a topical session at the 2013 GSA annual meeting in Denver, Colorado, and 2) getting to know the history of NAGT by talking with past presidents of the organization.

Cathy Manduca and I drafted and submitted a topical session proposal for the 2013 GSA Annual Meeting in Denver, Colorado titled **Geoscience Education and Outreach: 50 Years of Progress**. I secured sponsorship for the session from *National Association of Geoscience Teachers; GSA Geoscience Education Division; GSA Geology and Society Division; GSA History and Philosophy of Geology Division*. The proposal was accepted and twenty-seven abstracts were submitted (twenty-three oral presentations and four poster presentations.) Cathy Manduca and I will convene the session and also present a talk titled “***NAGT: Seventy Five Years of Teachers Helping Teachers and Students***”

In order to get to know more of the history of NAGT and also honor past presidents, I decided to have conversations with NAGT past presidents. During the summer of 2013, I conducted telephone interviews with the following **nineteen** NAGT past presidents: George “Rip” Rapp (1969), William Romey (1973), Robert Ridky (1979), Lee Suttner (1982), Marvin Kauffman (1984), Bernie Pipkin (1987), Noel Potter (1992), John Palmquist (1995), John Wagner (1998), Greg Wheeler (1999), Steve Semken (2001), Jill Whitman (2002), Ed Geary (2003), Geoff Feiss (2005), Scott Linneman (2006), Karen Havholm (2007), Eric Riggs (2008), David Steer (2009), Janis Treworgy (2011). In addition I exchanged email or U.S. Mail correspondence with **three** past presidents: Robert Boyer (1975), John Coash (1981), and Mike Taber (2010). I am still working on contacting and/or scheduling conversations with fourteen additional living past presidents.

In addition to writing an updated history of NAGT, I am composing short biographical paragraphs on each past president, highlighting their contributions and connections to NAGT.

Respectfully submitted,

Gene Pearson
NAGT Historian

Councilor-at-Large Annual Report for NAGT 2012-2013
Andrew Goodliffe

Activities:

1. Cutting Edge Advisory Board Meeting, May 8, 2013, Washington DC - Notes

○ **NSF Site Visit**

- NSF recognizes that Cutting Edge is an irreplaceable asset - but, has little funding to offer
- Education money from earth sciences has been taken away and given to EHR
- TUES proposal announcement did not come out
- NSF might be interested in funding a program with new elements
- Facilities program - not really an option for Cutting Edge
- How do we bring NSF back to funding long term teacher and student professional development?
- How do we refocus things back to true long term community professional development?

○ **Review of teaching collection- David Mogk**

An example of a teaching petrology exercise was given:

<http://serc.carleton.edu/NAGTWorkshops/petrology/index.html>

- How to get reviewers?
 - Maybe before you submit an exercise you must complete three reviews?
 - People should take note of the review form
 - Students should be aware of the importance of the SERC collection and how these are used as a building block
 - People need to be aware that each activity is not one activity - they should be used as part of a whole
 - Faculty need help in seeing why reviews are important
 - Faculty are good at creating and using these activities at the intro and grad level, but not so good at the upper undergrad level
 - We need to move away from the idea that this value of the teaching collection is self evident
 - We need to keep links - to job, policy, energy industry at the forefront
- DBER - Discipline Based Education Research - page up and live
- **Program Updates - Rachel Beene**
 - Rachel now convening the Early Career workshop
 - Registration fees have increased as part of the effort to make these more

sustainable

- **Impact Evaluation - Cathy Manduca**
- This is a community supporting improved teaching
- A community that shares and learns from one another
- A community that shares innovations
- Cutting Edge workshops – 4 year universities participate at a higher rate than Ph.D. universities
- Half of the faculty in the US are at community colleges.
- More than half of the students in the US are at community colleges
- 1.7 million visits to SERC sites - 10% probably using the site
- 2500 visitors average 75 visits
- 1/3 from outside of the US
- Potential for social science data – considering teaming up with social science people to look at usage
- There is a marked Improvement over time of people spending more than 20% of class time on activities rather than traditional lectures

- **Sustainability - Cathy Manduca**
- NAGT committed to making things happen!!
- 75% of money has to come from somewhere else.
 - Professional societies
 - \$10,000 from NAGT?
 - \$10,000 from GSA
- Comments
 - Sell this idea to industry – emphasize the years and millions of \$\$ of investment
 - Emphasize the role in educating the oil industry employee - creating better students
 - Industry is not hesitant to state shortcoming of recruits – we should play on this
 - Educating industry
 - Potential idea - article in AAPG explorer
 - Accreditation agencies - providing professional development
 - What about side bar ads for sustaining users

2. NSF-TUES funded project: Bringing NSF MARGINS/GeoPRISMS Continental Margins Research into the Undergraduate Curriculum

- The goal of this project is the creation of a suite of mini-lessons that focus on the four NSF-MARGINS initiatives – Rifting Continental Lithosphere, Subduction Factory, Source to Sink, and Seismogenic zone. Following a series of webinars (starting spring 2013) the participants met at Carleton University from 18-20 September 2013. The participants presented a total of 15 draft mini-lessons. These

will now be tested during the fall 2013 and spring 2014 semesters. Student and faculty evaluation data will be compiled and used to modify the lessons ahead of a meeting at the same time next year.

3. Presentations related to NAGT

- Hills, D, M. McIntyre-Redden, and A. M. Goodliffe (2013), Tuscaloosa, Alabama, City Schools and the Partnership Program: A Successful Enrichment Program for Educators and Students – submitted to fall 2013 GSA annual meeting.

4. Liaisons with regional sections

- At the fall 2012 GSA annual meeting in Charleston I joined the leadership of the southeast section for lunch and discussed the NAGT meeting earlier in the day.

5. Liaisons with related societies

- I attended a lunch meeting of the Association for Women Geoscientists prior to the 2013 GSA annual meeting in Charleston
- I continue to serve in the capacity of Vice President of the Alabama Geological Society. In this capacity I frequently attend board meetings of the Gulf Coast Association of Geological Societies (GCAGS, a regional section of the AAPG). I will be attending the upcoming GCAGS board meeting in New Orleans on October 6.

Councilor-at-Large Annual Report for NAGT 2012-2013

Karen Kortz

Meetings

- GSA Annual Meeting, Charlotte, November 3-7, 2012
 - Co-lead (with M. Leckie and J.J. Smay) a NAGT and GSA Ed Div sponsored workshop (part of the 4-pack) entitled “Active Lectures in Classrooms of All Sizes”
 - Co-lead (with T. Slater, S. Slater, and J.J. Smay) a NAGT and GSE Ed Div sponsored workshop entitled “Engaging ALL Students: Effective Strategies for Teaching Diverse College Students”
- GSA Annual Meeting, Denver, October 27-30, 2013
 - Will attend the NAGT councilor meeting, as well as give two presentations
- NAGT Executive Committee 2012-2013 Meetings
 - Participated in quarterly Executive committee teleconferences and Executive council teleconferences
 - Attended the NAGT Executive Committee meeting in Boulder

Activities

- Two-year colleges section liaison – I have been corresponding with David Voorhees on creating and analyzing the results of a questionnaire for 2YC faculty
- Councilor of New England NAGT – I have attended meetings, participated in conference calls, contributed to the newsletter, and updated the leadership team about issues at the national level, asking them to share comments or concerns
- On the advisory committee of Supporting and Advancing Geoscience Education in Two-year Colleges through Workshops and Web Resources (SAGE 2YC) – I participated in the advisory board conference call meeting. I also participated in the SAGE 2YC Supporting Student Success meeting in July at the College of William and Mary
- Journal of Geoscience Education
 - coauthor on a paper published by JGE
 - served as reviewer on a couple papers submitted to JGE
 - served on the selection committee for the 2013 Outstanding Paper and Outstanding Reviewer awards
- Co-lead (with D. Steer and J. Knott) the On the Cutting Edge Professional Development webinar “Energizing your class with ConcepTests: A simple technique to engage students and improve learning”
- Co-lead the week-long On the Cutting Edge Workshop for Early Career Faculty in the Geosciences (2013)
- Team member of the Cutting Edge Embedded Assessment Project

Annual Report, 2013: Jeff Ryan, Councilor-at-Large

Activities of Note:

- **Active NSF Education Grants:**
 - “USF Robert Noyce Teacher Scholars Program” (NSF Robert Noyce Teacher Scholarships, \$1.2 M)
 - recruiting for the third class of Noyce scholars.
 - “Coastal Areas Climate Change Education (CACCE) Partnership” (NSF Climate Change Education Partnership Program, Phase 1 Planning grant, \$974,400 + 150,000 Supplements)
 - Presentations at the 2012 GSA Annual Meeting, 2012 AGU Fall Meeting, and 2013 GSA Southeastern Section Meeting
 - Support for several offshoot proposals from CACCE efforts. Two have been funded thus far: a Belmont Forum grant (PI Frank Muller-Karger) and a GK-12 grant (PI Allan Feldman)
 - “Faculty Development to Support High Impact Activities That Transform Undergraduate Geoscience Education” (Collaborative with Jill Singer, Buffalo State College: \$137,000 (USF share): NAGT Sponsored project.
 - Information sessions run at the 2012 GSA Annual Meeting, 2012 AGU Fall Meeting, 2013 GSA SE Section meeting, 2013 GSA South Central Section Meeting, and 2013 AAG Meeting
 - 3-day proposal writing workshop run at University of South Florida, March 14-17, 2013 (28 participants).
 - Currently: waiting for NSF to figure out its education programs so we can provide support!
 - “Collaborative: Expanding the Use of Online Remote Electron Microscopy in the Classroom to Transform Undergraduate Geoscience Education” (USF, FIU, Florida Gulf Coast Univ., Valencia College) - newly funded TUES Type 2 project.
 - “Collaborative: Research: Google Earth for Onsite and Distance Education (GEODE)” (PI Declan DePaor: I’m a Subawardee) Newly funded TUES Type 3 project
- **Other Education-related activities:**
 - Member of the Integrated Earth Data Applications (NSF funded cyberinfrastructure facility) Policy Committee
 - Biannual meetings and monthly telecons
 - Chair of the UNAVCO Education and Community Engagement Advisory Committee
 - monthly telecons and annual meeting
 - Member of the COSEE Florida Advisory Committee
 - Annual meetings, and some special events

- **Education-related Presentations at Professional Meetings:**
 - Gilbes, F., Muller-Karger, F. Feldman, A., and Ryan, J.G. (2013) Improving Climate Change in the Caribbean region. 2013 GSA Southeastern Section Meeting Abstracts with Programs, v. 45. (San Juan, PR)
 - Muller-Karger, F., J.G. Ryan, A. Feldman, F. Gilbes, M. Trotz, C. McKayle, D. Stone, L. Plank, G. Meisels, M. Peterson, C.J. Reynolds (2012) Disconnects Between Audiences, Resources, and Initiatives: Key Findings of the Coastal Areas Climate Change Education Partnership. Presented at the 2012 AGU Fall Meeting, Abstract ED32A-05.
 - Singer, J.K., and J.G. Ryan (2012) Facilitating Classroom Innovation in the Geosciences Through the NSF Transforming Undergraduate Education in Science, Technology, Engineering, and Mathematics (TUES) Program. Presented at the 2012 AGU Fall Meeting, Abstract ED21C-0719.
 - **Lindsey, M.**, Chavez, T., Ryan, J., and Feldman, A. (2012) Absence of region-specific climate change education resources for South Florida, Puerto Rico, and the Caribbean. 2012 GSA Annual Meeting Abstracts with Programs, paper 141-13.
 - Ryan, J.G. (2012) Preparing undergraduates for geoscience research in the classroom: virtual access to data and tools for data collection. Geological Society of America Annual Meeting Abstracts with Programs, Paper 173-2.
 - Ryan, J.G. (2012) Facilitating Research and Learning in Petrology and Geochemistry through Classroom Applications of Remotely Operable Research Instrumentation. Presented at the 2012 AGU Fall Meeting, Abstract ED21C-0723.
- **Education-related Publications:**
 - Ryan, J.G. (2013) Chapter 8: Integration of Research into the Classroom and Curriculum, in Schuh, M, (ed.) *Starting out in Undergraduate Research*, Council on Undergraduate Research, Washington, DC, pp. 44-49.
 - Ryan, J.G. (2013) Chapter 9: Funding Classroom Innovation Across Disciplines Through the National Science Foundation Education and Human Resources Directorate, in Schuh, M. (ed.) *Starting out in Undergraduate Research*, Council on Undergraduate Research, Washington, DC, pp. 50-53.
 - Ryan, J.G., (2013) Embedding research practice activities into earth and planetary science courses through the use of remotely operable analytical instrumentation: interventions, and impacts on student perceptions and activities Tong, V. (ed). *Geoscience Research and Education*. Springer Verlag.

Councilor-at-Large Annual Report 2012-2013
Tamara Shapiro Ledley

NAGT & GSA Meetings

- Participated in NAGT virtual Executive Committee and Council meetings
- Participated remotely in the NAGT Meeting in Boulder Colorado in April 2013 – was scheduled to attend but the aftermath of the Boston Marathon Bombing preventing me from flying out of Boston.
- Coordinator for 2 Climate Literacy sessions and advocate of one of these sessions at the 2013 National GSA meeting in Boulder Colorado

Liason for NAGT NE Section

The NE NAGT Section held a virtual meeting on Sept 12, 2013. I have a set of minutes from which the following was extracted

- Meetings
 - They set a time and place for their 2013 annual meeting
 - Greenfield Community College in Greenfield MA, Nov 9
 - They will invite their OEST awardee Erica Walstrom
 - They are beginning to plan a short field trip associated with the meeting
 - They are starting to consider locations for their 2014 meeting
 - Reviewed experience/participation at the GSA NE section meeting in Bretton Woods, NH – March 2013
 - Talked about participating in the GSA NE section meeting in March 2014 in Lancaster PA
 - Some are planning to attend the 2013 National GSA meeting in Denver
 - They also discussed attending other meetings in the coming year
- NAGT Outstanding Earth Science Teacher Awards – they have candidates for 2014
- Outreach activities
 - Discussed strategies of getting emails out about meetings and field trips and other events that might be of interest to members

Other Activities and Service

Member of Organizing Committee for the *Climate and Energy Literacy Initiative: A Strategic Planning Summit*, The Brower Center, Berkeley California, December 7-9, 2012.

Byrd Polar Research Center, The Ohio State University, External Advisory Board member, May 2013 meeting.

Panelist, Climate Change Today and Tomorrow, with Gary Braasch, Julie Brigham-Grette, and Peter Frumhoff, Museum of Science Boston, June 23, 2013.

Panel Chair, Promoting Earth Science Literacy in an Informed Electorate, GSA Position Statement– adopted in 2013

Coordinator for 11 oral and 6 poster Climate Literacy sessions (including a Union session) at the Fall 2013 American Geophysical Union Meeting (December 2013)

Chair of the CLEAN Network (formerly Climate Literacy Network) which provided input into the drafts of the Next Generation Science Standards, organized climate literacy sessions at AGU, GSA, and at the NAAEE meetings, and has weekly teleconferences and an active

listserv to facilitate that community.

Journal of Geoscience Education & In the Trenches

Ledley, TS, E Bardar, N Haddad, EarthLabs – StudentCentered Labs to Engage High School Students, *In the Trenches*, vol 3, no 3, pages 1-2, July 2013.

Lead author or co-author of 5 papers submitted to the Climate Change Education special issue of JGE, June 2013.

Ledley, T.S, A.U. Gold, F. Niepold, M. McCaffrey, S.B. Sullivan, C.A. Manduca, S. Fox, Moving Toward Collective Impact in Climate Change Literacy – The Climate Literacy and Energy Awareness Network (CLEAN), submitted to the *Journal of Geoscience Education*, June 2013.

Kirk, K, S.B. Sullivan, A.U. Gold, T.S. Ledley, C.A. Manduca, D. Mogk, K. Wiese, Sowing the Seeds of Climate Literacy in Today’s College Students, submitted to the *Journal of Geoscience Education*, June 2013.

Ellins, K.K, T.S. Ledley, N. Haddad, K. McNeal, A. Gold, S. Lynds, J. Libarkin, EarthLabs: Supporting Teacher Professional Development to Facilitate Effective Teaching of Climate Science, submitted to the *Journal of Geoscience Education*, June 2013.

McNeal, K, J.C. Libarkin, T.S. Ledley, E. Bardar, N. Haddad, K. Ellins, S. Dutta, The Role of Research in On-line Curriculum Development: The Case of *EarthLabs* Climate Change and Earth System Modules, submitted to the *Journal of Geoscience Education*, June 2013.

Buhr, S., T.S. Ledley, S. Lynds, Navigating Climate Science in the Classroom: Teacher Preparation, Perceptions and Practices, submitted to the *Journal of Geoscience Education*, June 2013.

Awards

2013 AGU Excellence in Geophysical Education Awardee

2013 JGE Outstanding Paper of 2012 Award for “A Model for Enabling an Effective Outcome-Oriented Communication Between the Scientific and Educational Communities,” by Ledley, Taber, Lynds, Domenico, Dalhman, *JGE*, v.60, no. 3, pp 257-267, doi: 10.5408/11-234.1, <http://nagt-jge.org/doi/abs/10.5408/11-234.1>, August 2012.

Prior to becoming a Councilor, I contributed to “Re-envisioning the NAGT Visiting Workshop Program” conference calls with Beth Wright then Karl Wirth and Barb Tewksbury in February 2012.

During my first year as an At-Large Councilor, I was involved in the following:

- ▷ GSA Annual Meeting, Charlotte, November 3-7, 2012
 - Co-Facilitator (with John McDaris) of the NAGT- and GSA Education Division-sponsored workshop (part of the 2-pack) entitled “Teaching about Hazards in the Geoscience Classroom” on Sat., 3 Nov., 8 a.m.–noon.
 - Participant in Short Course “Mars for Earthlings: Teaching Modules Integrating Earth and Planetary Science” on Sat., 3 Nov., 1–5 p.m
 - Contributed to EarthPD meeting as one of three members present from NAGT.
 - Attended NAGT /GSA Education Division Luncheon and Awards
 - Worked the NAGT booth.
- ▷ Participated in NAGT 2012-2013 quarterly teleconferences, and also attended Exec Comm and Council meetings in Charlotte
- ▷ NAGT Contact for IGEO (Beginning January 2013)
- ▷ Reviewer for Triangle Coalition “2013 – 2014 Einstein Fellowships”
- ▷ Participated in 2YC Luncheon coordinated by Bob Blodgett at the South-Central GSA Section Meeting in Austin, TX, April 2013.
- ▷ Participated in 18 April 2013 AGI GAPAC (as NAGT Rep Substitute for A. Awad) I have spoken with Aida about my interest in assisting with this as she begins here new officer role as President in 2013-2014.
- ▷ I participated in the July 2013 SAGE 2YC “Supporting Student Success Workshop” as well as facilitate the *Students with Disabilities* break-out sessions during the program topic “Working with diverse student populations: Research results and applications for teaching geoscience.” My focus was Universal Design in order to work with Students with Disabilities but a broader spectrum of students that would also benefit for more universally accessible modalities.
- ▷ I participated in the June 2013 SAGE 2YC “Best Practices for Preparing Two-year College Students for a Geoscience Career and Transfer” in Austin, Texas. Host and Facilitator Robert Blodgett included NAGT on the program, so I contributed welcoming comments on behalf of NAGT and discussed the benefits of our community with the many 2YC faculty present that were not necessarily aware of the organization.
- ▷ Reviewed mid-continent applications for the 2013 Outstanding Earth Science Teacher (OEST) award.
- ▷ Committee member for the 2013 Neil Miner Award.
- ▷ Attended NAGT Exec Comm Meetings: January (virtual), April (Boulder, CO), May (virtual), and June (virtual). Will attend Sept (virtual) meeting on 27 September 2013.
- ▷ Member of 2YC Division and soon to be new member of Teacher Education Division (TED).

Councilor-at-Large Report 2012-2013

Karl Wirth

Activities:

Traveling Teaching Workshop Program

- Fall 2012 wrote proposal for new program and presented it to ExComm and Council during virtual meetings
- Helped with preparing printed materials and web resources for new program
- Workshop program planning group conference call (19 August 2013)
- Workshop program planning group conference call (26 August 2013)
- Workshop planning call with Cathy (12 September 2013)
- Worked on redesign of traveling teaching workshop web pages (13 August 2013)

Annual GSA Meeting

NAGT ExComm Meeting (04 November 2013)

NAGT Council Meeting (04 November 2013)

NAGT Virtual Conference (31 January 2013)

NAGT ExComm Meeting (20 April 2013)

Education-Related Conferences Attended:

Geological Society of America, Annual Meeting (Charlotte, NC); 03-07 November 2012

Association of American Colleges and Universities (Atlanta, GA); 23-27 January 2013

Associated Colleges of the Midwest – Introducing Change Workshop (St. Paul, MN); 08-10 February 2013

Teagle Convening on Faculty Work & Student Learning in the 21st Century Evaluation (New York, NY); 11-12 April 2013

Education-Related Publications:

Gilbert, L.A., Stempien, J., McConnell, D., Kraft, K.V., Budd, D.A., van der Hoeven Kraft, K.J., Bykerk-Kauffman, A., Jones, M.G., Knight, C.C., Matheney, R.K., Perkins, D., and Wirth, K.R., 2012, Not just “Rocks for Jocks”; Who are introductory geology students and why are they here? *Journal of Geoscience Education*, v. 60, p. 360-371.

Education-Related Conference Presentations and Workshops:

Wirth, K.R., 2013, Course Design in Reverse, Workshop for Asian University for Women, Chittagong Bangladesh, 15 January 2013

Wirth, K.R., 2013, Learning Goals and Rubrics Workshop, Asian University for Women, Chittagong Bangladesh, 16 January 2013

Wirth, K.R., 2013, Nurturing the Development of Reflective Thinkers: Essential Skills for Learning and Life, Workshop for Asian University for Women, Chittagong Bangladesh, 17 January 2013

Wirth, K.R., and Nuhfer, E., 2012, Developing and Assessing Students' Metacognitive Skills and Metadisciplinary Reasoning in Science: AAC&U Network for Academic Renewal Conference: Next Generation STEM Learning, Kansas City, MO, 08-10 November 2012.

Nuhfer, E., and Wirth, K.R., 2012, Educating for Science Literacy: Teaching and Assessing Metacognition and Metadisciplinary Awareness: AAC&U Network for Academic Renewal Conference: Next Generation STEM Learning, Kansas City, MO, 08-10 November 2012.

Ottenhoff, J., Wirth, K., Takayama, K., and Schodt, 2013, Innovations in Collaborative Faculty Development: Association of American Colleges and Universities, Annual Meeting, Atlanta, GA, 23-27 January 2013.

Central Section of NAGT 2013 Annual Report

submitted by Katie Lewandowski

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

A. Officers for 2013-2014

President

Cullen Erbacher
Miami University- Middletown
4200 N University Blvd.
Middletown, OH 45042
cullen.erbacher@miamioh.edu

1st Vice President

Jeffrey Strasser
Geology Department
Augustana College
639 38th St.
Rock Island, IL 61201
JeffreyStrasser@augustana.edu

2nd Vice President

C. Renee Rohs
Department of Natural Sciences
Northwest Missouri State University
800 University Dr.
Maryville, MO 64468

Treasurer: (2010-2014)

Michael Wolf
Geology Department
Augustana College
639 38th St.
Rock Island, IL 61201
michaelwolf@augustana.edu

Secretary: (2008-2013)

Kathleen Bower
Eastern Illinois University
Department of Geology-Geography
600 Lincoln Ave.
Charleston, IL 61920
kmbower@eiu.edu

OEST Award Chair

Katie Lewandowski
Eastern Illinois University
Department of Geology-Geography
600 Lincoln Ave.
Charleston, IL 61920
kjlewandowski@eiu.edu

Past President

Katie Lewandowski
Eastern Illinois University
Department of Geology-Geography
600 Lincoln Avenue
Charleston, IL 61920
kjlewandowski@eiu.edu

B. Activities Report

1. In the past the Central Section of NAGT has sponsored a few field trips in the area, particularly the **SEPM-GLS Fall Field Excursion**. The Great Lakes Section of SEPM has not run their field trip for the past few years and thus, we have not sponsored it.

The **Tri-State Geological Field Conference** has also been historically sponsored by our section. This year's trip is scheduled for October 5 in Cedar Falls, IA and will investigate the Iowa Basin. Information about registration and fees, etc. is available at:

<http://www.isgs.uiuc.edu/gls-sepm/>

2. **OEST (Outstanding Earth Science Teacher Award)** : The Central Section of NAGT had one nomination from Iowa, Mary Lestina from Iowa City High School. She is the winner of the NAGT Central Section OEST Award in 2013, as well as the winner of the Iowa OEST Award. Katie Lewandowski will be the new OEST chair for our section

3. Meetings and Conferences

a. Past Meetings

North-Central GSA in Kalamazoo, MI, May 2-3, 2013

Theme Sessions sponsored by Central NAGT:

- Teaching and Learning Earth Science: K-16 Educational Pedagogy (Katie Lewandowski, Eastern Illinois University and Steve Maddox Grand Valley State University)
- Issues in Geoscience Education (Cullen Erbacher, Miami University-Middletown)
- Research in Earth Science Education (Heather Petcovic Western Michigan University and Sandra Rutherford University of Wisconsin, Madison)

Central Section NAGT **Business Meeting** was held during the NAGT luncheon at NC GSA in Dayton on May 2, 2013. Twelve people attended.

b. Upcoming Meetings

North-Central GSA in Lincoln NE, April 24-25, 2014

Theme Sessions sponsored by Central NAGT

- Geoscience Education for K-16: Novel approaches and current research (Katie Lewandowski, Eastern Illinois University and Mindi Searles, University of Nebraska, Lincoln)

Teacher Workshops sponsored by Central NAGT

- Exploring Earth Science and Climate Change for Teachers
 - Principal Organizer: Katie Lewandowski, EIU

4. Treasurer's Report (from the Central NAGT Business Meeting at NC GSA in May 2013)—our treasurer is currently in Asia until late October

Michael Wolf reports that Central section of NAGT is in good financial standing. The only expenditures this past year were for a booth at NC GSA in Kalamazoo. We received \$500 from national NAGT. He will send the form once he returns from Asia.

September 2013

Annual Report of the Eastern Section, National Association of Geoscience Teachers.

Submitted by Karen E. Aucker. 2013-2014 President

The Eastern Section continues to be an active, participating section. We maintained our tradition of hosting the section conference in late spring. This year, our annual spring meeting was based at Lock Haven, PA on May 30 – June 2, 2013. Eastern section meetings typically consist of a four-day schedule of events; and conference participants can elect to attend the entire weekend or selected events. The section conference usually includes a Thursday early registration and arrival with a social gathering, field trip or evening session guest speaker. Friday usually includes a morning poster session or workshop, but due to the event with DCNR (Department of Natural Resources) our Friday was a full day on the presentation of the Natural Gas Industry, which included a trip to a natural gas site. We also visited the largest 2nd grade spring in Pennsylvania, Nippenose Spring. Saturday's field trip was to the PA Grand Canyon.

The section awards and recognition banquet is held on Saturday evening, with awards given to section OEST winners, as well as other section award recipients recognized for their contributions to the section and Geoscience education. The Eastern section conducts the section business during a Sunday morning breakfast meeting with section conference activities ending before noon.

Typical attendance at a section meeting averages forty members, which represents approximately twenty-three percent of our active membership of one hundred seventy five section members. Our meetings are open to both members and non-members, and efforts to recruit attendee's from local schools and colleges often result in an average additional five conference attendees.

The Eastern section continues to recognize excellence in Geoscience education. Much emphasis is placed on recruiting nominations for, and recognizing Outstanding Earth Science Teachers from each state within our section. OEST winners are encouraged to attend the section meeting and then continue their active affiliation with NAGT.

The Eastern section also awards our own field camp scholarship to a student planning to attend a summer geological field camp experience. The section "James O'Connor Memorial Field Camp" award is in the amount of five hundred dollars each year, given to one selected applicant.

The Eastern section also awards its "Distinguished Service Award" to a member of the section. The distinguished service award is given to a member of the eastern section (still actively teaching or retired) who has, over the years, contributed to the growth and activities of the eastern section.

The section in the awarding of the “John Moss” award recognizes outstanding teaching at the college level. The John Moss award is reserved for instructors and professors who, at the college level, model outstanding teaching in the geosciences.

The section “Digman” award is designed to recognize an individual who works to bring Geoscience to the general public. We look for individuals who are not teachers; but work in a capacity that educates the general public in areas of the geosciences. Museum directors, curators and assistants, state survey employees, mine and quarry public relations people would all qualify for this award.

The Eastern section publishes its newsletter, *The Bulletin* four times each year. This newsletter keeps members informed of activities within the section and encourages any member to submit an article to be published. Traditionally, *The Bulletin* is now sent electronically to every member.

As with many other organizations, the Eastern section tends to rely on a core group of dedicated members to maintain the section activities and business. Our spring conference is the one opportunity each year when members of the section can gather to exchange their knowledge of Geoscience education. We strive to continue the recognition of individuals for their contributions to Geoscience education, and our annual section conference places a high priority on that part of our mission.

The Eastern Section Spring Conference for 2013 will be in Virginia and the 2014 Conference will be in West Virginia.

Rose Sanders is presently conducting a science lecture series in White Plains, NY. The series is sponsored by STANYS (Science Teachers Association NYS).

Respectfully submitted,

Karen E. Aucker

President, Eastern Section

Retired Earth and Space Science Teacher, Jersey Shore Area Senior High School, Jersey Shore, Pennsylvania.

National Association of Geoscience Teachers
Eastern Section
2012 Financial Report
Renee Aubry, Treasurer

12/31/11 Balance: **\$6989.28**

Income:

2011 Conference	357.00
2012 Conference	1960.32
Donations (Crampton, Went)	300.00
National Dues	557.50
Fundraising	1026.00
Interest	11.89
 Total Income:	 4212.71

Expenses:

Printing/Postage	90.90
Insurance	622.00
Martin Schmidt – tax books and supplies	77.35
Awards	80.80
2012 Conference	1727.47
Advance to K.Auker for 2013 Conference	500.00
 Total Expenses:	 3098.52

12/31/12 Balance: **\$8103.47**

Far Western Section President's report for Sept 2013

Our section has undergone several changes and suffered some instability this past year. In the fall of 2012 we held our meeting in the Sonora Pass Region of the Sierra Nevada range with about 60 attendees.

Our meetings are typically a Friday night get together, a lecture (John Wakabayash) and a business meeting; three Saturday trips along the crest and east side of the Sierra; an evening dinner and speaker (Cathy Busby) and two Sunday morning trips.

Unfortunately, our President Lynn Fielding's husband died, in his sleeping bag, a few hours after our business meeting. The death took a tremendous toll on Lynn and she was unable to continue in her position. This led to our instability as our 1st and 2nd VP's were not prepared to assume the role and I had to step in as acting President until my election in the spring of 2013. We also lost our treasurer of 20 years to retirement but any financial instability was avoided with the election of Greg Wheeler as treasurer. Thanks to Vic and Leona Fisher our section is prosperous and financially sound.

We now have a new Executive Board and have moved on, with meetings planned into 2016. We joined with the GSA Cordilleran meeting in Fresno, as we had no meeting planned and many members wanted to attend the GSA meeting. We had a business meeting; sponsored and staffed an NAGT booth (selling our field guides, recruiting new members and promoted the 2YC division) and attended the sessions and field trips that were sponsored by California State University at Fresno.

In August we had our fall meeting at the Santa Rosa Junior College. On Friday we had a talk by Rolf Erickson of Sonoma State University on the new tektite and associate tektite strewnfield in North Central California and our business meeting. On Saturday we had five field trips in Sonoma County from Point Reyes Peninsula to the Geysers Geothermal Field. On Saturday night Judy Fierstein of the USGS at Menlo Park spoke on Alaska's Valley of Ten Thousand Smokes. This was especially timely after the very successful NAGT-FWS sponsored field trip to Alaska led by Greg Wheeler and Wendy Norton. On Sunday morning we had a field trip and a GIS workshop.

And to wrap up we are working with the Southwest Section to hold a joint meeting at the Grand Canyon in the spring of 2014. This will be finalized when we all meet in Denver.

Respectfully submitted

Paul R. Troop
President, Far Western Section

New England Section of NAGT 2012-13 Annual Report

A. 2012-2013 Section Officers

President: Tarin Weiss, Department of Chemical and Physical Sciences, Westfield State University, Westfield, MA tweiss@westfield.ma.edu

VP#1: Steve Winters, Department of Earth Sciences, Holyoke Community College, Holyoke, MA science_matters@yahoo.com

VP#2: Elizabeth Gordon Department of Geophysical Sciences, Fitchburg State University, MA egordon3@fitchburgstate.edu

Treasurer: Julia Daly, Department of Geology University of Maine, Farmington dalyj@maine.edu

Secretary/Newsletter Editor: Richard Little (retired), Greenfield Community College, Greenfield, MA, RDLITTLE2000@aol.com

Past President: Bruce Rueger, Colby College, Waterville, ME bfrueger@colby.edu

Councilor: Christine Witkowski, Middlesex Community College, Middletown, CT

Councilor: Tom Vaughn, College of Professional Studies, Northeastern University, Boston, MA

Councilor: 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: Tamara Shapiro Ledley tamara_ledley@terc.edu

B. Reports

a. Annual Business Meeting

The annual business meeting of the New England Section NAGT was held on November 9, 2012 at Greenfield Community College, Greenfield, MA. Section officers were approved and councilors were appointed. Concurrent with the annual meeting was an on-going Gem & Mineral Show along with geology-focused presentations, sponsored by the Pioneer Valley Institute. Dr. Paul Olsen (Columbia University) presented dinosaur talk co-sponsored by NAGT. A field trip to the GCC rock park was led by Richard Little.

b. 2013 OEST Awards

Section Winner:

2013 Erica Walstrom, Rutland High School, Rutland City, VT

C. Annual Activities/Functions

a. Events Sponsored by New England Section NAGT 2012-13

1. Geological Society of America Annual Meeting, 4-7 November 2012. Karen Kortz represented our section by cosponsoring a workshop entitled 511A. Active Lectures in Classrooms of All Sizes.
2. New England Section NAGT Annual 2012 Business Meeting – Greenfield Community College (See Section B.a. above)
3. GSA Northeastern Section, 18–20 March 2013 The New England Section of the NAGT sponsored a theme session (Tarin Weiss and Bruce F. Rueger, Presiding) entitled T28. CONNECTING STUDENTS WITH PLACE: TECHNOLOGY-ENHANCED TEACHING USING LOCAL RESOURCES
4. Leadership Committee Virtual Meeting September 12, 2013. During this meeting we shared news, updated our officer duties document, discussed future events, and brainstormed ways to boost membership. The NAGT Newsletter will go out to members in September with news and updates.
5. The section website was updated and is being actively maintained.

b. Planned 2013-14 Activities

1. Gem, Mineral, and Fossil Show at Greenfield Community College, Greenfield, MA November 10 Annual Business Meeting and participation in the 17th Annual Gem & Mineral Show and featured presentations. Tarin Weiss and Steve Winters will lead a local afternoon field trip for the group.
2. Northeastern Section Geological Society of America Meeting Steve Winters and Lori Weedon will represent the section at the March 23-25, 2014 GSA NE in Lancaster, PA. They will be presiding over a session titled "*Service Learning in the Geosciences: Deep Learning Through Critical, Reflective Thinking, and Civic Responsibility*"

D. New England Section NAGT financial (updated information forthcoming)

Non-Profit Business Now account

Starting Balance (9/2012): \$126.15

Interest rate: 0.01%

Interest accrued:

Ending balance (9/2013):

One-to-One Business Saving account

Starting balance (9/2012): \$3578.61

Interest rate: 0.09%

Interest accrued:

Ending balance (9/2013):

Total funds available: \$3704.76 (as of 9/12)

North Central Section Annual Report 2013

Submitted by Suki Smaglik

Officers:

President

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

Secretary/Treasurer

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

Past-Year Activities:

We made no attempt at a section meeting this year. We received three nominations for OEST this year. Rod Benson from Helena, MT is the 2013 award winner.

Planned Activities:

We 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 about \$3000 at this time.

Pacific Northwest Section of NAGT 2012-13 Annual Report (Ron Metzger)

A. 2012-13 Section Officers

a. Executive Office

President

Ron Metzger - Southwestern Oregon Community College, 1988 Newmark Avenue, Coos Bay, OR 97420-2912, rmetzger@socc.edu

Vice-President

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

Secretary-Treasurer

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

Past President

Ralph Dawes - Wenatchee Valley College, 1300 Fifth Street, Wenatchee, WA 98801, rdawes@wvc.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, cathy.connor@uas.alaska.edu

Michael Collins, Geologist, Epoch Well Services, Anchorage, collins_micha20@hotmail.com

Idaho

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

Oregon

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

Washington

Joseph Hull, Seattle Central Community College, jhull@sccd.ctc.edu- (resigned summer 2013)

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

d. Awards

OEST Awards Coordinators

Lynda Sanders, Marshfield HS, S. 10th and Ingersoll, Coos Bay, OR 97420,

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

B. Reports

a. Annual Business Meeting

The annual business meeting of the Pacific Northwest Section NAGT was held on June 26th during the Pacific Northwest Section annual meeting at Southwestern Oregon Community College. The officer election slate included Ron Metzger (President), Cassie Strickland (Vice President) and Scott Linneman (Secretary/Treasurer). Slate was passed unanimously. Joe Hull was recognized for his service as Washington State Councilor and as the guidebook “store” for the section. Beth Norman volunteered to serve as a Washington State Councilor. Treasurer’s report was discussed (included in this annual report). Membership trends were discussed. Our section membership began in the 60’s this fall, stood at 107 at time of meeting in June 2013.

OEST winners were announced (see below). Lynda Sanders and Jodie Harnden, the OEST awards coordinators commented on planning improvements in the process for 2014.

b. 2013 OEST Awards

- Section Winner:
 - Helen Farr, Millicoma School, Coos Bay, Oregon.
- State Winners:
 - Alaska: Jonathan Smith, Juneau-Douglas School District.
 - Oregon: Helen Farr, Millicoma School, Coos Bay.

C. Annual Activities/Functions

a. Events Sponsored by Pacific Northwest Section NAGT 2011-12

PNW NAGT Annual Meeting, June 24-28, 2013, Southwestern Oregon Community College, Coos Bay, Oregon, hosted by Southwestern Oregon Community College/Ron Metzger. Attended by over 35 participants. In addition to an energetic and engaging group, there was representation from a variety of areas: academics at all levels including HS and college students, and state surveys (Oregon, Washington, Idaho and California).

- Day 1: (6/24) Geology of Port Orford, Cape Blanco and Blacklock Point, leaders: Frank Hladky (Coquille HS) and Ron Metzger (SWOCC).
- Day 2: (6/25) Geology of the Oregon Dunes; Visit to Coquille (Ko-Kwel) Community Plankhouse for archeological/cultural component, leaders: Ron Metzger (SWOCC) and Nicole Norris (Coquille Tribe).
- Day 3: (6/26) Technical sessions (SWOCC) & evening banquet with poster session and auction to support future student grants. 12 oral talks and 5 posters were presented.
- Day 4: (6/27) Geology of Seven Devils and Bandon, leaders: Ian Madin (DOGAMI) and Ron Metzger (SWOCC).
- Day 5: (6/28) Geology of Cape Arago, leader: Ron Metzger (SWOCC) contributions by Frank Hladky (Coquille HS) and Ian Madin(Guidebook, DOGAMI). The final conference day concluded with a tuna bbq at the Metzger’s house.

Members of the executive committee met in Portland, Oregon for a work session on Saturday, March 2, 2013. One of the major focal points of this meeting was increasing membership, addressing a trend affecting National NAGT as well as other geoscience societies. Andy Buddington volunteered to chair an ad hoc committee on membership, and was joined by Ralph Dawes. Cheryl Dawes volunteered to develop a brochure for use in promoting the section. A final draft of the brochure is awaiting approval from National as of 9/9/13).

The section website continues to be updated by section vice president Cassie Strickland. The site is not only vibrant, but provides easy access to section information.
<http://www.nagtpnw.org/>

The section newsletter continues to be produced by Carla Whittington (Highline CC). The section newsletters have been a quality production for many years under the careful eye of Cassie Strickland. Carla continues the section tradition of putting together an informative and professional newsletter, with three newsletters published in 2012-13. Recent newsletters may be accessed at the section website: <http://www.nagtpnw.org/News-or-Reviews.html>.

Andy Buddington was recognized at the annual conference in Coos Bay with an award for his extended service to the section. Andy was recognized for helping host conferences in Spokane, Washington, for being an active participant in the section serving as President, National Liason for the Pacific Northwest Section, volunteering to chair the ad hoc membership committee for the section, by attending and presenting at the annual conferences, and his collegial nature. He was presented with a copy of *Third Views, Second Sights: A Rephotographic Survey of the American West* as a token of the sections appreciation to his continued effort on behalf of geoscience education.

The Coos Bay conference saw a couple new fundraising opportunities raising \$884.75 for the section. At the banquet, a silent auction raised over \$500 that will be used to help defray registration costs for students attending future conferences (this years' conference was able to cover 14 days of student registration for one high school, three community college and one graduate student), additionally, \$400 was raised at the closing night bbq to help replenish the Kahle Fund which is dedicated to covering conference registration for K-12 educator's (the conference this year covered eight days' worth of registration for K-12 educators).

b. Planned 2013-14 Activities

- Annual PNW NAGT meeting at Wenatchee Community College, Coos Bay, scheduled for June 18-22, 2014. Host-Ralph Dawes, Wenatchee Valley CC.
- Vice president Cassie Strickland has lined up hosts for future section conferences including: **2014- Wenatchee, WA**, hosted by Wenatchee Valley CC. **2015- Victoria, BC**, hosted by Camosun College. **2016- Hell's Canyon, ID** (Field Conference)- held in Hell's Canyon, hosted by Spokane CC. **2017- Host not yet identified.** **2018- Craters of the Moon National Monument**, Arco, ID, hosted by the National Park Service.

**D. Pacific Northwest Section Treasurer's Report (Scott Linneman)
Financial Report, Pacific Northwest NAGT Section**

Savings Account with Whatcom Educational Credit Union, Bellingham WA
Submitted by Scott Linneman, June 20, 2013

Previous Report, June 19, 2012 (Bob Christman treasurer)
Balance: \$8573.64

Current Report, June 20, 2013

INCOME	
NAGT rebate	235.00
Guidebooks	113.00
Conference @ SCC	4516.01
Interest	48.48
EXPENSES	
Hull (guidebook mail)	22.77
Rebate to SCC for their overpayment	2933.74
Balance on 6/20/13	10529.85
	of which \$1405 is Kahle fund

Notes:

1. After the death of previous Treasurer (Christman), we added VP Cassie Strickland as signatory on the savings account.
2. The overpayment from Spokane Community College after our 2012 conference was their error. We questioned the accounting and they discovered the error. We reimbursed SCC. Thus the final income from the 2012 conference was \$1,592.27.
3. No expenses or income from the 2013 conference are included on this report.



National Association of Geoscience Teachers

NAGT, c/o Carleton College W-SERC • One North College Street, • Northfield, MN 55057
<http://nagt.org> • 507-222-5634 • Fax 507-222-5175

NAGT Section Financial Report

Section: Pacific Northwest

Treasurer: Scott Linneman

President: Ron Metzger

Date: June 20, 2013

Income	Current Year (2013)	Previous Year (2012)
National Dues	235.00	265.00
Interest	48.48	44.71
Field Guides/Publications	113	168
Other/(Spokane Conference)	4516.01	
Other		
Total	4912.49	477.71

Expenses	Current Year	Previous Year
Awards	0	78.86
Meetings/Conferences	2933.74 (SCC-overpayment returned)	620.00 (Kahle-\$320; student-\$100); SCC-reimburse (\$200).
Bank Fee	6.00	6.00
Other (mail-guidebooks/Hull)	22.77	
Total	2962.51	704.86

Bank Account	Current Year	Previous Year
Savings	9124.85	7068.64
Scholarship Fund (Kahle)	1405.00	1505.00
Other		
Total	10,529.85	8573.64

Summary	Current Year	Previous Year
Beginning balance	8573.64	8800.79
Income (+)	4912.49	477.71
Expenses (-)	2956.51	704.86
Current Balance	10,529.85	8573.64

Southeastern Section Annual Report for 2013

By David C. Kopaska-Merkel

Southeastern Section Officers

President: David C. Kopaska-Merkel
Geological Survey of Alabama
P.O. Box 869999
Tuscaloosa, AL 35486-6999
205.247.3695
dkm@gsa.state.al.us

Past President: Randy Bechtel
North Carolina Geological Survey
Division of Energy, Mineral and Land
Resources
1612 Mail Service Center
Raleigh, NC 27699-1612
919.707.9204
Randy.Bechteln@ncdenr.gov

Vice-President: Denise Hills
Geological Survey of Alabama
P.O. Box 869999
Tuscaloosa, AL 35486-6999
205.247.3694
dhills@gsa.state.al.us

Treasurer: 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
Fernbank Science Center
156 Heaton Park Drive
Atlanta, GA 30307
678.874.7150
witherspoonb@fc.dekalb.k12.ga.us

Secretary: Gerald Pollack
Department of Geology
Georgia Perimeter College
555 North Indian Creek Drive
Clarkston, GA 30021
770.274.5040
Gerald.Pollack@gpc.edu

Presidential Note

I would like to thank all of the state representatives and officers who participated in this year's OEST Southeastern Section award competition. I especially want to thank Bill Witherspoon, our newsletter editor, because I was able to collect most of the information I needed for this report from the newsletter.

Southeastern OEST winners for 2013

Southeastern Section: Olivia Boykin
Alabama: Alison Starr
Georgia: Nancy Adgate
Louisiana: Lacey Hoosier
North Carolina: Mary Catherine Mills
South Carolina: Olivia Boykin

Southeastern newsletter

Thanks to Bill Witherspoon for his effort to pull the newsletter together and to all who submitted articles. We don't quite have every state participating, but it still looks great. Here is the link to the newsletter, on the SENAGT web site at: <http://facstaff.gpc.edu/~pgore/nagt/Summer-Fall2013.pdf>.

Past Activities

Because we held our annual business meeting early, it was reported on in the last annual report. We have a new Louisiana representative (welcome, Wendy!). Our section OEST winner has been chosen (see above). This year 5 states in our section had OEST winners, which is quite good. Last year the

SE GSA meeting, at which we usually host one or more technical sessions, was in Puerto Rico and few of us were able to attend. This meant we could not sponsor a session there. We don't normally have a standalone southeastern section meeting and we did not do so this year.

Future Activities

SEAGT will hold its next annual business meeting, including section elections, at the 2014 SE GSA spring meeting in Blacksburg, Virginia, this coming April 10-11. Also, we will be sponsoring two technical sessions on geoscience education at SE GSA.

Earth science instruction in 2013 and beyond: How teaching practical science classes will (and must!) adapt in a world of MOOCs and social media options

Organizers: Doug Haywick, dhaywick@southalabama.edu, Ann Holmes, David Kopaska-Merkel
All current college and university instructors are facing unprecedented pressure to adapt to “new” styles of teaching. Online courses, blended courses, and Massive Open Online Courses (MOOCs) are becoming common in most institutions, and arguably work for some disciplines. Administrators tend to like them because they get “more bang for their buck” cost-wise. But how are scientists who teach Earth Science courses that often involve practical laboratory and field experiences going to meet administrations’ achievement goals of more graduates with fewer resources? This session allows college and university Earth science instructors the opportunity to discuss successful teaching practices in an academic world that is becoming increasingly more media-based.

The Next Generation Science Standards, Common Core, and STEM: Opportunities for Geoscience Education in K-12 and Beyond

Organizers: Bill Witherspoon, witherspoonb@fc.dekalb.k12.ga.us, Denise Hills, Lionel Crews
The Next Generation Science Standards (NGSS), released in 2013 by a consortium of 26 states including GA, KY, NC, TN and WV, treat Earth Science at all grade levels as co-equal with Life Science and Physical Science. The Common Core Standards (CCS) for Math and English Language Arts, adopted by 45 states (including all states in SEGSA except VA), require interconnected teaching of those skills with science and social studies. STEM (Science, Technology, Engineering, and Mathematics) education has its own momentum and is a major component of both the NGSS and CCS. All three initiatives require students to complete design challenges and to connect STEM subjects to their use in the workplace. This session addresses questions such as: How well do the initiatives incorporate the geosciences? Are there additional ways to advance geoscience within the initiatives? How can the initiatives be a springboard for greater attention to geosciences by, and improved training for K-12 science teachers; a more geoscience-literate public; and a stronger supply of future geoscientists?

Financial report

Thanks to Pamela Gore for keeping track of the financials:



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<http://nagt.org> • 507-222-5634 • Fax 507-222-5175

NAGT Section Financial Report

Section: Southeast Section

Treasurer: Pamela Gore

President: David Kopaska-Merkel

Date: Sept 24, 2013

Income	Current Year (2013 calendar year)	Previous Year (2012 calendar year)
National Dues	\$227.50	\$252.50
Interest	\$0.31 (8 months, Jan-Aug 30)	\$0.43 (12 months)
Field Guides/Publications	None	None
Other/please specify	None	None
Other	None	None
Total	\$227.81	\$252.93

Expenses	Current Year	Previous Year
Awards	0	\$50 awardee banquet ticket
Meetings/Conferences	0	\$150 SE-GSA exhibit booth
Bank Fee	0	0
Other	0	\$6.17 postage mail plaque
Other	0	0
Total	0	\$206.17

Bank Account	Current Year	Previous Year
Savings	0	0
Scholarship Fund	0	0
Other	0	0
Other	0	0
Total	0	0

Summary	Current Year	Previous Year
Beginning balance	\$4596.33 Jan 1 2013	\$4549.57
Income (+)	\$227.81	\$252.93
Expenses (-)	0	\$206.17
Current Balance	\$4824.14	End of 2012 \$ 4596.33

SE NAGT State Representatives

Alabama

Denise Hills
Geological Survey of Alabama
P.O. Box 869999
Tuscaloosa, AL 35486-6999
dhills@gsa.state.al.us
205.247.3694

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

Florida

Paul Cutlip
Dept. of Natural Sciences
St. Petersburg College
St. Petersburg, FL 33733
Cutlip.Paul@spcollege.edu
727.341.4699

Georgia

Gerald Pollack
Department of Geology
Georgia Perimeter College
2101 Womack Road
Dunwoody, GA 30338
Gerald.Pollack@gpc.edu
770.274.5566

Pamela Gore
Department of Geology
Georgia Perimeter College
555 North Indian Creek Drive

205.247.3695

Clarkston, GA 30021
Pamela.Gore@gpc.edu
678.891.3754

Mississippi

Gail S. Russell
Dept. of Geology, Box 5045
University of Southern
Mississippi
Hattiesburg, MS 39406
Gail.Russell@usm.edu
601.266.4077

David Dockery
Mississippi Office of Geology
Jackson, MS 39209
David_Dockery@deq.state.ms.us
601.961.5500

North Carolina

Randy Bechtel
NC Geological Survey
Division of Energy, Mineral
and Land Resources
1612 Mail Service Center
Raleigh, NC 27699-1612
Randy.Bechteler@ncdenr.gov
919.707.9204

South Carolina

Terry A. Ferguson
Dept. of Environmental
Studies
Wofford College
429 North Church Street
Spartanburg, SC 29303
FergusonTA@Wofford.edu
864.597.4527

Gwen M. Daley
Dept. of Chemistry,
Physics and Geology
Winthrop University
Rock Hill, South Carolina
29731
daleyg@winthrop.edu
803.323.4973

Louisiana

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

Tennessee

Michael A. Gibson
Dept. of Geology, Geography,
and Physics
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



NAGT Southwest Section Report 2012-2013

Current officers for NAGT-SW: President: Dan Stephen, Utah Valley U.
Vice-President: Merry Wilson, Scottsdale C.C.
Secretary: Laura Lukes, Rio Salado C.C.
Treasurer: Steve Semken, Arizona State U.
OESTA Coordinator: Kaatje Kraft, Mesa C.C.

Greetings fellow NAGT members,

I'm pleased to report that the NAGT Southwest Section is alive and well. However, our section continues to struggle with low membership numbers and discouragingly meager participation in section activities. I feel that this is due in part to the failure of section leadership, which is my responsibility, to adequately inform geoscience teachers in our region of the many advantages of membership in the organization, and to motivate our members to participate in activities such as field trips. I think I've also failed to bring enough interesting activities to the table. Before I leave the officer corps of NAGT-SW, I'd like to help regenerate some of the enthusiasm which I know once existed here.

On the bright side, members of NAGT-SW remain active in the professional community, with many ongoing research projects, presentations, and publications. Several of our officers and other members gave talks at the annual Geological Society of America conference last year in Charlotte, and some of us plan to speak at this year's meeting in Denver as well. Furthermore, I know our members also attend other meetings and events, including regional GSA conferences and the wonderful "On the Cutting Edge" workshops.

Another exciting development came recently when we were approached by Mr Paul Troop, President of NAGT - Far West. He expressed an interest in holding a joint meeting of our neighboring sections next year. Our leadership team agreed to this proposal, and we've started to make plans for the 2014 meeting. I believe this joint field conference will benefit both sections, and perhaps will help NAGT-SW increase member participation...

NAGT-Southwest and NAGT-FarWest -- two great sections, one fantastic field conference!

Awards: Thanks to the efforts of our OESTA Coordinator, Ms Kaatje Kraft, NAGT-SW was honored to proclaim Ms Cheryl L. B. Manning (Evergreen [Colorado] High School) the winner of the 2013 Outstanding Earth Science Teacher Award for our section. In addition, NAGT-SW

awarded Mr Jeremy Williams (Desert Vista High School) the 2013 Outstanding Earth Science Teacher for the State of Arizona. We congratulate both of these fine educators for their incredible work, as well as the many other outstanding earth science teachers who are doing a great job, day in day out, with little recognition.

Fieldtrips: NAGT-SW held its annual spring field conference in May this year. For the 2013 adventure, we headed to the Beehive State. What we lacked in numbers we more than made up for in enthusiasm as our intrepid group enjoyed hiking, camping, and geologizing in the gorgeous wild lands of southern Utah.

Our field excursions aren't too fancy, but that's part of the reason why we're able to keep participant costs so low, despite the remarkable agendas and beautiful locations. We're looking forward to the 2014 trip to Arizona, and we've already begun to make plans for a Grand Canyon excursion extraordinaire, with Vice-President Dr Merry Wilson and Secretary Ms Laura Lukes leading the charge on our end.

Money: Our Treasurer, Dr Steve Semken, reports that NAGT-SW continues to be in good financial standing (*i.e.*, we do not have a deficit). This past year saw very little activity in our bank account, which I believe currently stands at about \$1600.

Many more details of our activities can be found in the **NAGT-SW newsletter** that we publish online. In summary, I'm happy to say that the thrill is *not* gone in our little section. I still think we can succeed in growing membership and participation, and I believe there's good reason for my optimism. There are abundant signs of life, with continued outstanding teaching, vigorous research, and field trips to spectacular southwestern locales. Personally, I plan to encourage (again) colleagues within my own department to become involved with the organization.

As with previous years, one of our major goals is to increase awareness of NAGT-SW in the geoscience education community of the region, especially at the secondary level, and to capitalize on the geological ecstasy that bubbles out like highly charged gases from a fumarole whenever we gather.

Sincerely yours,

Dan

Dr. Daniel A. Stephen, Associate Professor
Earth Science Department, Utah Valley University
800 W. University Parkway, Orem, UT 84058 USA
phone: 801-863-8584 fax: 801-863-8064
email: daniel.stephen@uvu.edu



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 18, 2013

Current Division Officers

President: Lynsey LeMay, Thomas Nelson Community College, VA (2012-2013)
Past-President: Dave Voorhees, Waubonsee Community College, IL (2012-2016)
Vice President: Merry Wilson, Scottsdale Community College, AZ (2012-2013)
Vice President-Elect: Ben Wolfe, Metropolitan Community College, MO (2013-2014)
Secretary/Treasurer: Allison Beauregard, Northwest Florida State College, FL (2011-2014)
Newsletter Editor: Callan Bentley, Northern Virginia Community College, VA (2011-2014)
Webmaster: Kaatje Kraft, Mesa Community College, AZ (2011-2014)
Archivist: Suzanne Metlay, Western Governors University, UT (2011-2014)

Geo2YC is in year two of existence as a division of NAGT. During year one, three main questions drove the activities of the division: Who are we? What do we want? How do we get it? In large part, answering these questions is still our focus as we work to promote the division, better understand who makes up the broad Geo2YC community, and work to better support Geo2YC colleagues.

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 three newsletters, *Foundations*, in 2013 (February, April, and September) and distributed through the Geo2YC website and the Geo2YC listserv. Total readership for the year is nearing 600. The newsletters include a variety of content, including field tips, reports from recent workshops, information from NSF officers, and much more. Some of the articles are also being shared outside of the traditional Geo2YC community, including one from NSF officer Jill Karsten that has been shared internally at both GSA and AGU.
3. We have received nominations for our Outstanding Adjunct Faculty Award, with two 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. The first annual award is slated to be given in 2014.
4. We continue efforts to better identify our membership and characterize the Geo2YC community to determine how we can best serve. Spearheaded by Dave Voorhees, a survey was broadly disseminated through the Geo2YC community to collect information on the variety and diversity of geoscience programs at 2YC's. A follow-up survey will be administered within the coming year focusing on teaching practices.

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. An article summarizing year one of the Division was included in an *In The Trenches* edition and authored by Dave Voorhees.
7. Geo2YC became a formal sponsor of the SAGE2YC project, an NSF funded project dedicated to helping two-year college geoscience departments increase their effectiveness. In addition to help spread information about upcoming SAGE workshops, Geo2YC members also hosted local workshops.
8. The Division is continuing work on white papers, one in support of geoscience education, and one on the importance of field trips. This follows requests for support letters from two faculty members. One letter has already been sent and submitted.
9. Geo2YC gave to the GSA “On To The Future” fund to support diversity in the geosciences. Our funds were allocated to help a community college student attend GSA.
10. Allison Beauregard and Jan Hodder received funding from NSF to support 2YC faculty travel to attend ASLO/Ocean Sciences in New Orleans in February 2013. They were also awarded funding to bring Geo2YC faculty to Hawaii for ASLO/Ocean Sciences in 2014. Attendance at a SAGE workshop help at the meetings is required for those receiving funding.
11. External support of the Geo2YC community continues, and Geo2YC has been able to advertise those opportunities through the Geo2YC listserv. This includes funding support from NSF to attend GSA administered through Eric Baer, funding through Subaru for 2YC attendees at GSA, and participation in the PolarTREC program.
12. We will be participating in GSA 2013 activities.
 - a. Geo2YC is a formal sponsor of three topical sessions:
 - i. T117. Developing and Sustaining Thriving Geoscience Programs and Departments: Strategies and Examples from Two-Year and Four-Year Colleges and Universities
 - ii. T119. Digital Geology Express (Digital Posters)
 - iii. T137. Undergraduate Research Experiences at the Introductory Level in Two- and Four-Year Colleges
 - b. The second business meeting of the Division will be held October 27,2013 at GSA.
 - c. We will continue to promote the Division with the use of Geo2YC brochures and scale pencils.
13. 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.
14. 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.

Lynsey LeMay
Thomas Nelson Community College
Geo2YC Division President

NAGT – Teacher Education Division (TED)
Annual Report
September 2013

Introduction

The mission of the Teacher Education Division (TED) of the National Association of Geoscience Teachers (NAGT) is to support teacher educators by focusing on the intersection of geoscience content and pedagogy in teaching, research, and advocacy.

Activities for 2013

The following tasks were completed for the proposed Teacher Education Division (TED).

- In April of 2013, a proposal to establish a Teacher Education Division was submitted to the NAGT Board.
- The NAGT Board returned the proposal and requested some modifications to the division mission and vision statements. Most revisions eliminated possible overlap with the proposed NAGT Research Division and established a proposed budget for requested start-up funds. The revised proposal was submitted in July of 2013.
- During the first week in August, the NAGT Board unanimously voted to approve the Teacher Education Division.
- During the month of August, Kyle Gray solicited names of people who would volunteer to serve as officers for the new division. Six people said they are available to serve and three others indicated they are interested in helping at a later date. Those who are willing to serve as officers include (in alphabetical order):

Kyle Gray - Northern Iowa

Steve Mattox - Grand Valley State

Ellen Metzger - San Jose State

Julie Monet - Cal State Chico

Heather Petcovic - Western Michigan

Jeff Thomas - Central Connecticut

Wendi Williams - NW Arkansas CC

Those who indicated they would be willing to serve at a later date include:

Jim Ebert – SUNY Oneonta

Nicole LaDue - Northern Illinois

Eric Pyle - James Madison

- Between now and GSA, this group will discuss who will actually run for elected office and begin to organize TED. We anticipate meeting at GSA.

New Business for 2014

With the start of the new year, there are several tasks to be completed, including:

- Recruit NAGT members to join TED for 2014.
- Determine what officers are needed within TED and who will run for each office.
- Hold elections for those officers
- Discuss the need for our own division by-laws and compose those by-laws if needed.
- Create promotional materials and finalize the TED logo.
- Develop a newsletter and/or other methods for disseminating information to TED members.
- Determine the ways in which TED can best promote teacher education within the geoscience education community.

Possible Outreach Activities

In looking ahead, the TED leadership and members will want to identify outreach activities or events that we can sponsor. Already, three outreach ideas have been suggested as ways in which TED members can promote K-12 geoscience education. These include:

- The Science and Engineering Festival in DC April 2014. We (NAGT) have been offered free space for a teacher workshop but we would need to pay for audio and other needs. The American Association of Petroleum Geologists has expressed interest in collaborating on this event.
- Potential NAGT-AAPT/PTRA workshop at University of Minnesota during the AAPT Summer Meeting in 2014 bringing together geoscience and physics at the K-12 level.
- AGI Earth Week, an ongoing role in preparing an item for the AGI Earth Week teacher toolkit beginning with the materials for 2014.

Whether TED participates in these activities will depend on decisions made by the elected TED leadership as well as interest from TED members; however this list illustrates some of the ways in which TED can promote and impact geoscience teacher education.

Other possible activities that TED could play a role include:

- Sponsoring sessions at GSA and/or AGU in the fall of 2014 or at the GSA sectional meetings in the spring of 2015.
- Sponsoring short course workshops at GSA and/or AGU.
- Support other third-party initiatives that align with TED's stated mission and vision.
- Surveying TED members to ascertain the current state of geoscience teacher education. This could be done in collaboration with the NAGT Research Division, third-party organizations such as AGI, or independently as a separately funded research project.

Budget

The revised division proposal contained a request for \$1,000 in start up funds to be spent using the following budget. Any money left over from a given category will be used for promotional materials.

Table 1 - Requested Start-Up Funds

Item	Estimated Cost
Vinyl table banner (or similar material)	\$200
500 tri-fold promotional brochures (partial cost)	\$600
1000 Conference Badge stickers	\$25
Meeting room for 2013 GSA to organize the division	\$85
Meeting room for 2014 GSA for Division Business	\$90
Total	\$1,000

Submitted by Kyle Gray (acting president)

University of Northern Iowa

Cedar Falls, IA 50614

(319) 273-2809

kyle.gray@uni.edu

William A. Prothero, Jr.
 Chair, OEST nominating committee
 2106 Las Canoas Rd.
 Santa Barbara, CA. 03105

To: NAGT Council

Re: Annual report for “Outstanding Earth Science Teacher Award

Last year, the application process for the OEST award was modified to a 2 step process. First, the “nominator” writes a letter of nomination that makes the case for the person being nominated. Second, the candidate for the award is notified and submits further detailed information about his/her teaching philosophy and methods. This change was instituted to encourage more nominations by simplifying the nomination process.

There were a total of 38 nominations, 3 of which were too late and were deferred until the next year. The list of nominees and their status is contained in the table below. The full information from the nomination form is attached to this document. The award winners are shown in bold and those deferred until next year are in red.

Status	Name of nominee:	Email -- Email of nominee:	Sect on	School
Sect on Winner	Mary Lest na	lest.na.mary@iccsd.k12.ia.us	central	City High School in Iowa City, Iowa
	2014 Keni Denise Rienks	krienks@d200.mchenry.k12.il.us	central	Woodstock North High School
not selected	Chester Mindali	cmindali@gmail.com	eastern	Roosevelt Middle School
State and Sect on winner	Russell H. Kohrs	rkohrs@rockingham.k12.va.us	eastern	Broadway High School
State winner	Michael Wing	mwing@mamkschools.org	eastern	Hommocks Middle School
State winner	Steven R. Carson	Steve_Carson@princetonk12.org	eastern	John Witherspoon Middle School
not selected	Jennifer Bandura	jbandura@westperry.org	eastern	West Perry School District
not selected	Denis Kogan	dkogan@schools.nyc.gov	eastern	Brooklyn School for Career Development 753K
	2014 Mark Percy	mpercy@williamsvillek12.org	eastern	Williamsville School District
Sect on Winner	Herman Hilkey	hhilkey@sanjacinto.k12.ca.us	far western	San Jacinto High School
not selected	Ann Colleen Campos	colecamos@hotmail.com	far western	Grandview High School
Sect on Winner	Kathy Rusert	krusert@orsd.k12.ar.us	mindcont nent	Acorn High School
not selected	Rita Chang	ozonechang@verizon.net	new england	Wellesley High School, Wellesley, MA
not selected	Tarin O'Brien	tobrien@hr-k12.org	new england	Hampshire Regional High School, Westhampton, MA
Sect on Winner	Erica Wallstrom	ewallstrom@rutlandhs.k12.vt.us	new england	Rutland High School
not selected	Mat hew Olsen	mat.hewolsen@bosma.org	new england	Brockton High School
Sect on Winner	Rod Benson	rbenson@helena.k12.mt.us	north central	Helena High School
not selected	Amber Stout	amber.stout@k12.sd.us	north central	Jef erson Elementary
not selected	Martha Hoyt Goings	mgoingsgeology@yahoo.com	north central	Hunt ngton North High School
State winner	Jonathan Smith	jonathan_smith@jsd.k12.ak.us	c north west	Juneau-Douglas High School
Sect on Winner	Helen Farr	helenf@coos-bay.k12.or.us	pacif c northwest	Millicoma School
State winner	Lacey Hoosier	Lacey.Hoosier@rpsb.us	southeastern	Buckeye High School
not selected	Wendy Porter	wendy.porter@ncpublicschools.gov	southeastern	NC Virtual Public School
not selected	Edward Thut	epthut @wsfcs.k12.nc.us	southeastern	Reagan High School, Pfaf own NC
not selected	Kelly Hartzell	hartzellk@franklinacademy.org	southeastern	Franklin Academy
State winner	Mary Catherine Mills	millsm2@gcsnc.com	southeastern	Southern Guilford High School
new	Denise Scheppe	schepd@collierschools.com	southeastern	Cypress Palm Middle School
not selected	Todd Osterbrock	ostert@collierschools.com	southeastern	Lely High School
new	Todd Osterbrock	ostert@collierschools.com	southeastern	Lely High School
State winner	Nancy Adgate	Nancy.adgate@henry.k12.ga.us	southeastern	Dutchtown High School
	2014 Amy Doiron	apd0505@gmail.com	southeastern	C.E. Byrd High School
not selected	Jean Pomeroy	jmpomeroy@caddo.k12.la.us	southeastern	Caddo Parish Middle Magnet
State winner	Angela Lacey Hoosier	Lacey.Hoosier@gmail.com	southeastern	Buckeye High School
Sect on Winner	Cheryl Manning	clbmanning@mac.com	southwest	Evergreen High School, Evergreen, CO
State winner	Jeremy Williams	jerwilliams@tuhsd.k12.az.us	southwest	Desert Vista High School
State winner	Kat e Wagner	kat.e.wagner@kinkaid.org	texas	The Kinkaid School
Sect on Winner	Gary Poole	gapoole@thegirlsschool.org	texas	The Girls' School of Aust n

Minor changes to be made are some added instructions on the web site to indicate that, after a nomination is made, the office will notify the candidate of her/his nomination and provide a link to the forms for step 2 of the nomination process.

For next year, I suggest that the main goal be to advertise this award more broadly. I will be soliciting suggestions of educator mailing lists to use. I requested that NESTA send a mailing, but didn't get a response, so I will have to pursue that avenue more intensively.

I would like to thank Erica for her outstanding support for this award. She made this job very smooth and easy.

Best regards,

William A. Prothero, JR , PhD.
UCSB Dept of Earth Sciences, Emeritus

TA Awards – 2012-2103 report

This is my first year as the NAGT TA Awards coordinator. Cathy Manduca and Erica Zweifel have been immensely helpful in my indoctrination. I am grateful for their help.

The main issue this year and I suspect in the near future was and will be to increase the number of TA awards. The first strategy employed was to run an advertisement in *In the Trenches*. My thanks go to Dave Steer for helping me with that ad including a picture of a TA working with introductory geoscience students. I believe we should continue to place such an ad every year as space permits.

This year we did indeed increase the number of awards over last year by 50%. That may sound impressive but it was from 4 to 6 in absolute numbers. Clearly we need to do more as we can give as many as 30 of these awards annually. If we can reach this goal it will be a positive way to increase NAGT membership into the future.

My next step will be to target specific NAGT members at institutions with large introductory geoscience classes and potentially numerous TA's. Liberal arts colleges should also be targeted specifically.

In conclusion, there is much that can be done to increase these awards and make JGE and the *In the Trenches* publications more visible to the future members of our association.

Jeff Niemitz



ANNUAL REPORT 2013: NAGT/USGS COOPERATIVE SUMMER FIELD TRAINING PROGRAM

The 2013 Field Season for the NAGT/USGS Cooperative Summer Field Training Program marked the 48th year of what is now one of the longest running science internship programs in the nation. It also, in spite of a draconian Sequester situation, maintained the program's average historic levels of intern numbers. More than 2200 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/NAGTFlyer2013.pdf>.)

This year, 108 students were nominated by field camp directors, and 89 of those students completed an application for the program. After receiving 56 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 45 students were placed with USGS science projects. Since bringing new life back into this historic program nine years 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 2013:

- This year, the NAGT/USGS Cooperative Summer Field Training Program faced enormous challenges. The very week (February 28th) that pending interns were to receive their final placements, the Federal Sequestration was announced along with a hiring freeze action, prohibiting any new hires – including interns – to be made throughout all of the Department of the Interior. Because this corps of interns contributes directly to the critical mission of the agency, we were able to make the case for a priority hiring waiver. Nevertheless, seven weeks ensued until the waiver was granted. This took its toll on these graduating seniors and our scientists alike. While this internship was the clear first choice of these students, because of the pending uncertainty some had to accept other opportunities. (Twelve interns declined placement during this period of time. However, we were able to find suitable candidates for seven of these projects.) Our USGS scientists also faced program financial rescissions and general uncertainties of available funds. For over two months, the internship operation was almost exclusively engaged in providing information to NAGT interns and scientists regarding what was being done, and where we stood with the pending hiring waiver. At the same time, we worked with program supervisors and senior leadership regarding the program's cost-shared support requirement. Fortunately, by keeping all parties involved in the process, the deleterious effects – at least in terms of hires – was kept to ~10%. Last year, we had 51 interns; this year we had a total of 45 interns.
- 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, for the second time this year, USGS also sent individual letters to each nominated student with notes of congratulations and application instructions.
- This year we continued the practice, introduced two 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, not just geology, this requires us to do some awareness building on the attributes and benefits of engaging in authentic research – no matter what the discipline of study. Thus far, we have been successful in conveying this understanding.

At the same time, 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 contact names and websites where possible. Using the same research procedures employed when the list was developed two years ago, we were able to identify 112 active field camp programs during the 2013 academic year. Website links were identified for each program, as well as specific contact information for the respective field camp instructors. This listing is now maintained on the USGS Education website and also placed on NAGT's website.
- 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, October 27th, 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 will be ~\$400,000.
- A newly 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).
- **Of particular importance** to this historic internship program, and to the leadership of NAGT, is the pending retirement of the USGS National Education Coordinator, Robert Ridky. Of the myriad of educational activities of USGS, this internship program is of the highest priority. Because an overlap in position will be required, Bob is working diligently to obtain approval for a new position. The Federal budget situation makes this somewhat challenging. It is also critically important that the Bob's replacement has strong academic ties and an NAGT affiliation that will continue the prioritization of this program. We request that NAGT leadership work with Bob to identify appropriate candidates.

8/28/13

Robert W. Ridky /s/
National Education Coordinator
U.S. Geological Survey

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

NAGT/USGS 2013 Cooperative Summer Field Training Program Internship Placements

Student Intern	Project Title	Researcher
Mazie Ashe BS Geology Whitman College	Borehole and surface geophysical methods used in groundwater systems	Melinda Chapman Raleigh, NC
Evan Baker BS Geology University of North Carolina	Geologic mapping and stratigraphic studies at Cascade Volcanoes	William Scott Vancouver, WA
Adam Baldwin BS Geology Edinboro Univ. of Pennsylvania	Acquiring essential surface-and-ground-water network data for analyzing water resources	Gerard Butch Troy, NY
Kyle Broach BS Earth/Environmental Sciences Vanderbilt University	Removal of <i>Aphanizomenon flos-aquae</i> from the water column, and application of pumice on phosphate concentrations, Upper Klamath Lake	Nancy Simon Klamath Falls, OR
Brendan Buskirk BS Geological Sciences University of Oregon	High-flow events in suburban streams	Judson Harvey Reston, VA
Spencer Buteyn BS Geology California State University	Mineral commodity production calculations	W. David Menzie Reston, VA
Michael Cassar BS Geology Western Washington University	Installation, maintenance, and collection of seismic stations for improved monitoring and reporting	David Croker and David Oppenheimer Menlo Park, CA
Katie Chapman BS Geology Whitman College	Geological and geophysical studies of the San Andreas Fault system	Shane Detewiler Menlo Park, CA
Lorelei Curtin BS Geology Pomona College	The temperate cryosphere in a changing climate	Matthew Bachmann Tacoma, WA
Michael Davis BS Geology Wheaton College	Acquiring essential surface-and-ground-water network data for analyzing water resources	Gerard Butch Troy, NY
Jaime Delano BS Geology University of California, Davis	Mobile LiDAR and fault slip measurement	Benjamin Brooks Northern CA
Amelia Deuell BS Geology/Environment and Natural Hazards University of Wyoming	Characterization and instrumentation of active landslides and debris flows	William Schulz and Jeffrey Coe Golden, CO
Beau Gentry BS Earth Science University of California, Santa Barbara Frances Griswold BS Geology Wheaton College	Northern Appalachian bedrock mapping and Sleepers River water energy and biogeochemical budgets Experimental studies of hazardous hydrological processes on volcanoes	Gregory Walsh and James Shanley Montpelier, VT Joseph Walder Vancouver, WA
Deniel Gurganus BS Geological Sciences University of North Carolina	Climate science and vegetation ecology	Geneva Chong Jackson, WY
Theresa Halligan BS Geology University of Nebraska, Omaha	Global positioning system data collection for crustal deformation research	Jerry Svarc Menlo Park, CA
Melissa Hornick BS Geology University of Arkansas	Argon geochronology analysis	Michael Cosca Denver, CO
Elizabeth Huss BS Geological Sciences and English State University of New York, Geneseo	Utilizing Quaternary geochronology to unravel geomorphic histories	Cal Ruleman and Shannon Mahan Denver, CO
Christopher Johnson BS Earth Science	Earthquake hazards study in the central and eastern U.S.	Walter Mooney Menlo Park, CA

George Mason University

Mindy Juergensen
BS Geology
Illinois State University

Geodetic monitoring of Cascade Range Volcanoes and
Yellowstone

Michael Lisowski
Vancouver, WA

John Kyle Kissock
BS Environmental Geology
Bucknell University

Benthic nutrient flux of biologically reactive solutes,
headwaters of Klamath River Basin

James Kuwabara
Menlo Park, CA

Jeffrey Ladderud
BS Geology
Washington State University

Transport of contaminants in groundwater

Allen Shapiro
Reston, VA

Charles Lapeyre
BS Geology
Sewanee: The University of the South

Implementing Wyoming groundwater-quality monitoring
network

Michael Sweat
Cheyenne, WY

Mark Larson
BS Geology and Anthropology
Missouri State University

Earthquake dynamic triggering and short-term forecasting

Joan Gomberg
Seattle, WA

Carson Macpherson-Krutzky
BS Geology
Western Washington University

Geophysical investigations of geothermal, mineral, and
water resources and natural hazards in the western U.S.

Victoria Langenheim
Menlo Park, CA

Elsie Macsata
BS Geology
Fort Lewis College

Cape Cod toxic substances hydrology research

Denis LeBlanc
Northborough, MA

Gabriel Matson
BS Earth Science and Mathematics
University of California, Santa Cruz

Geophysical investigations of geothermal, mineral, and
water resources and natural hazards in the western U.S.

Victoria Langenheim
Menlo Park, CA

Adam McCullough
BS Geology
Macalaster College

Hydrostratigraphy, groundwater and surface-water quality
in the Lance Formation

Michael Sweat
Cheyenne, WY

Anthony McGlown
BS Geology
University of Alabama

Colorado headwaters basin project

James Cole
Jackson County, CO

Samuel Tyson McKinney
BS Geology and Mechanical Engineering
University Texas, Austin

Melt and fluid inclusion resources study

Albert Hofstra
Denver, CO

Nari Miller
BA Geosciences and Chemistry
Williams College

Mercury storage in permafrost and potential release to the
environment by thaw

Paul Schuster
Boulder, CO

Tiffany Napier
BS Geology and Anthropology
University of Nebraska-Lincoln

Geomorphology and Quaternary geology projects

James O'Connor
Portland, OR

Jonathan Ooms
BS Earth Sciences
University of California, Santa Cruz

Advanced national seismic system emplacement,
operation and maintenance

Alena Leeds
Golden, CO

Aaron Perkins
BS Geology
University of Pittsburgh

Earthquake geology and the San Andreas Fault System
study

Carol Prentice
Northern California

Brenna Quigley
BS Aquatic Biology and Geology
University of California, Santa Barbara

Nisqually Delta restoration evaluation program

Isa Woo and John Takekawa
Olympia, WA

Ryan Reeves
BS Environmental Science
University of Texas, El Paso

Characterizing post-fire debris flow susceptibility in the
western U.S.

Dennis Staley
Golden, CO

Michelle Robinson
BS Geology
Humboldt State University

Assessing foodweb resources for juvenile salmonids, lower
Columbia River

Jennifer Morace
Portland, OR

Yuri Rupert
BS Geology
Auburn University

Collection and assessment of surface and borehole
geophysical data

John Lane
Storrs, CT

Sydney Salley

The effect of floodplain geomorphology on nutrient

Gregory Noe

Senior, Earth and Environmental Sciences University of Michigan	biogeochemistry and water quality	Reston, VA
Matthew St. Clair BS Geology University of Michigan	Characterizing invertebrate communities and food webs of deep-sea canyons in the western Atlantic Ocean	Amanda Demopoulos Gainesville, FL
Timothy Stadler BS Geology University of Wisconsin, Oshkosh	Advanced national seismic system emplacement, operation and maintenance	Alena Leeds Golden, CO
Patricia Sullivan BS Geology Oregon State University	Study of interactions between geomorphology, surface water hydrology, and ecology that control particle dynamics in aquatic systems	Katherine Skalak Reston, VA
Carla Valdez BS Earth and Environmental Science University of Michigan, Ann Arbor	Fate and transport of biodegrading chlorinated solvent contaminants in fractured rock aquifers	Thomas Imbrigiotta West Trenton, NJ
Bobby Voeks BS Geology Humboldt State University	Interactions between riparian wetland geomorphology, hydrology, and ecology for ecosystem restoration	Cliff Hupp Reston, VA
Alicia Wilder BS Earth Science/Geology Montana State University	Factors determining the niche of a species that lives in rocky talus slopes	Erik Beever Nevada, Oregon, Yellowstone, Glacier NP
Ryan Witkoski BS Geophysics California State University	Earthquake activity and fault slip rates, southern San Andreas Fault study	Katherine Scharer Pasadena, CA

NAGT Annual Report - Year 2012

Mars For Earthlings

Marjorie A. Chan and Julia Kahmann-Robinson, University of Utah

In the past year, NAGT has helped sponsor the NASA-funded Mars For Earthlings (MFE) project through information dissemination and announcements. We successfully piloted our MFE non-majors, undergraduate general education science course in Spring 2012. Class enrollment (25) included undergraduate majors from various disciplines (sciences to social work), in addition to adult learners and graduate-level students. Class statistics indicated that the course increased science literacy and knowledge of Mars and space exploration issues. MFE teaching modules using Earth analog examples were developed to share with teachers through a SERC-hosted website and workshop venues.

The MFE project has been presented at professional meetings (LPSC, AGU, GSA), as well as at community NASA EPO/EPOESS retreats. We have promoted our website and teaching module materials through posters, bookmarks (available free at NAGT booths), NAGT list-serves, and the NASA SMD workspace.