



National Association of Geoscience Teachers

2012 Annual Report

Prepared for the 2012 Annual Meeting
Charlotte, North Carolina

Table of Contents

NAGT Officers' Reports

President – Elizabeth Wright	3
2 nd Vice President – <i>Aida Awad</i>	6
Past President – <i>Janis Treworgy</i>	7
Secretary/Treasurer – <i>Gene Pearson</i>	8
JGE Editor's Report – <i>Kristen St. John</i>	10
ITT Editor – <i>David Steer</i>	12
Website – <i>John McDaris</i>	13

Councilors' Reports

Andy Buddington	15
<i>Bruce Herbert</i>	16
<i>Karen Kortz</i>	17
<i>Jeffrey Ryan</i>	18
<i>Wendi J. W. Williams</i>	20
<i>Karl Wirth</i>	21

Section Reports

Central – <i>Katie Johnson</i>	22
Eastern – <i>Michael Passow</i>	25
Far Western – <i>Lynn Fielding</i>	27
New England – <i>Bruce Rueger</i>	30
North Central – <i>Suki Smaglik</i>	32
Pacific Northwest – <i>Ron Metzger</i>	33
Southeastern – <i>Randy Bechtel</i>	37
Southwest – <i>Dan Stephen</i>	40

Division Reports

Geo2YC Division – <i>David Voorhees</i>	42
---	----

Awards Reports

OEST Awards – <i>Greg Wheeler</i>	46
Dottie Stout & Outstanding TA Awards – <i>Erica Zweifel on behalf of Bob Christman</i>	52

NAGT Program Reports

NAGT Field Study Scholarship Program – <i>Eric Riggs</i>	53
NAGT/USGS Internship Program – <i>Bob Ridky</i>	55

NAGT Sponsored Program Reports

Mars For Earthlings – <i>Marjorie A. Chan and Julia Kahmann-Robinson</i>	61
--	----

NAGT

2012 Annual Report of the President's Activity

Beth Wright

October 2011:

Attended all NAGT activities at GSA Annual Meeting in Minneapolis. Also:

- represented NAGT at the GSA President's Breakfast for Students, the Geoscience Education Division business meeting, the NAGT/USGS Summer Program meeting, the AGI/NAGT Leadership meeting.
- Attended lunch for women deans and chairs
- Chaired Geoscience Education session: *National and International Outreach in Geoscience Education*

2012:

Represented NAGT at 8+ meetings of the PKAL project on Mobilizing STEM Disciplinary Societies to Teach Sustainability. Led the team developing common language around sustainability.

Represented NAGT at the meeting of GSA's Affiliated Societies February 10-11, 2012.

Represented NAGT in a joint study of membership trends sponsored by SEPM.

Wrote letters of support on behalf of NAGT for:

- four research proposals
- two efforts to oppose state "monkey laws" that dilute the teaching of evolution and climate change.
- the National Center for Science Education's new effort to support the teaching of climate change
- one university geosciences department threatened with dissolution.

Developed membership campaign and drafted recruiting letters for various constituencies.

Convened five NAGT Executive Committee meetings and three NAGT Council Meetings.

NAGT President's Report 2012: Goals and Accomplishments

Goal: Increase NAGT visibility and involvement in Geoscience and STEM education communities.

In the past year NAGT has participated in AGI programming and is a core member of the AAC&U/PKAL project on Mobilizing STEM Disciplinary Societies to teach sustainability. We have become a supporting sponsor of the National Center for Science Education. We continue sponsorship of the Geoscience Educators Reception at GSA, and active membership in GSA's Associated Societies working group. NAGT has worked on science standards and has written opinion letters to state legislators contemplating "monkey laws" regarding the teaching of evolution. We have sent letters of support for half a dozen grant proposals or research projects and continued our support for programs supporting Teachers in the Parks and USGS student internships.

Goal: Capitalize on NAGT expertise in workshop design and execution to reframe our core activities.

Through continued sponsorship of Cutting Edge, CLEAN, InTeGrate, and Strong Departments NAGT has developed tremendous collective expertise in curricular and professional development workshops. We are moving to transform our Distinguished Speaker Series into a workshop program that can deliver appropriate workshops to local and regional members and departments. We are sponsoring professional workshops each year at AGU and GSA, and we are working with PKAL on developing interdisciplinary STEM curricular workshops on the teaching of sustainability.

Goal: Increase membership.

We have completed the transition to Allen Press, and have ironed out most of the glitches that resulted. We currently have higher membership numbers than last year, though still within the 1100-1300 range we have experienced for at least the last 5 years.

We are planning a membership drive that will involve the sections. We will be reaching out via letters targeted to natural constituencies: workshop and geoscience education session participants at GSA and AGU, JGE coauthors, Cutting Edge alumni, K-12 teacher prep faculty, K-12 teachers, geoscience education researchers, grad students, and geoscience department chairs. We have revised our membership web page to emphasize benefits of membership. We are composing a powerpoint presentation on NAGT that can be used by members presenting workshops or talks.

We are collaborating with several of the Associated Societies on a study of membership trends being spearheaded by SEPM.

Most importantly, we are re-examining what we offer to members, from journal subscriptions to section field trips, articulating the benefits of membership and looking to extend them.

Goal: Continue ongoing NAGT programs.

In addition to the Teachers in the Parks and USGS student internships mentioned above, NAGT continues to reward excellence in communication of geoscience through the Shea award, in teaching through the Miner award, in the 2YC world through the Stout award, to K-23 educators through the OEST awards, and to students through the Outstanding TA awards. Field Camp scholarships continue to help students afford field experiences, as they did me. We continue to serve on the Joint Technical Program Committee for GSA's annual meeting, to publish the premier peer-reviewed geoscience education journal, and to offer section meetings, workshops and field trips. We are thrilled to support our new Geo2YC division, and are considering possible constituencies for new divisions.

Year-end report for NAGT Fall 2012 - Aida A. Awad, 2nd VP

- ❖ GSA Annual Meeting – Minneapolis, MN
 - Attended Executive Committee & Council meetings
 - Attended NAGT / GSA Education Division Luncheon and Awards
 - Volunteered in NAGT booth
 - Attended GSA Education Committee Business Meeting
 - Attended GSA ED Div meeting
 - Attended JGE dinner and meeting
 - Attended JTPC meeting
- ❖ NAGT – attended January virtual meeting, June virtual meeting, March mid-year in-person meeting
- ❖ GSA JTPC
 - Collaborated with GED Reps on guidelines for session proposals sent to GED & NAGT
 - 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
- ❖ PKAL
 - attended virtual meetings for the project team charged with implementing interdisciplinary, problem-based professional development workshops
 - attended 3-day meeting in Washington DC at ACS – collaborated with PD team
 - co-chair PD team
 - collaborating with PKAL staff & co-chair on grant proposal to fund 3 meeting workshop series to develop sustainability curriculum modules
- ❖ NGSS
 - Attended critical stakeholder webinars to learn review process'
 - Organized review forum on-line and review forum discussion & conference call
 - Collected and synthesized reviews / comments / feedback from NAGT community
 - Submitted NGSS Draft 1 review for NAGT
- ❖ JGE Assistant Editor – managed two manuscripts
- ❖ NAGT Logo – worked with Exec Comm team on logo guidelines & design for sections and divisions
- ❖ Northwestern University – GLOBE – Watershed Dynamics PD Instructor – November 2011
 - Led field experience for 18 GLOBE trainers
 - Led scientist – educator workshop on sustainability – June 2012
- ❖ IETC presentation – November 2011 – presentation on Geospatial Literacy
- ❖ ICE – IL Computing Educators – February 2012 – presenting full day workshop for K-12 teachers on using Google Apps for Education in K-12 classrooms to support student learning, including Google Earth

Annual Report for Janis Treworgy, Past President of NAGT 2011-2012

This year I attended and participated in all of the NAGT-related meetings at GSA in Minneapolis. I also attended and participated in our Spring meeting in Minneapolis and all of the virtual meetings of both the Executive Committee and the Council.

As chair of the Nominating Committee, I worked closely with Cathy Manduca as well as my committee of past presidents (Mike Taber, David Steer, Eric Riggs, and Karen Havholm) to determine what skill sets and what subsets of geoscientists might be most useful to have on the Executive Committee, knowing what we already had. It was decided that, while we had geoscientists who taught at the various K-16 levels, in a range of academic institutions, and strong geoscience education researchers, we did not have geoscientists who were as well-known in their non-education field of research, but who also had a passion for teaching. We also wanted to find people who were experienced in doing workshops as that was going to be a focus of NAGT for the next several years.

The following are the newly elected members of Executive Committee:

2nd Vice President	Jimm Myers (officer 2012-2016)
Councilor	Wendi Williams (2012-2015)
Councilor	Andrew Goodliffe (2012-2015)
Secretary/Treasurer	Janis Treworgy (2012-2015)

We also established a new position, **NAGT Historian**, which we defined as follows:

Role

- Ex officio, non-voting member of Executive Committee
- Ad hoc position (does not need to be filled every year)

Qualifications

- Someone who has recently served as a member of the NAGT Executive Committee, Council, Editor or Committee Chair for several years

Duties

- Documents NAGT's history by collecting news articles and other "evidence" of the organization's work
- Assures that we are putting the right things in the archive and that we are making use of them to best effect
- Works with the archivist at Augustana College to make sure the archive is being properly maintained
- Compiles historical material for the NAGT website
- Writes historical pieces for *In the Trenches* or elsewhere

Appointment and Term

- Appointed by majority vote of Executive Committee
- No term limit, but subject to termination at the will of the Executive Committee or Appointee

The Executive Committee appointed Gene Pearson as our Historian. . Gene was on the Ex Comm during the major transition of bringing Cathy on as the NAGT Executive Director when many changes were made in how NAGT conducts its business. His longer-term perspective and deep understanding of the many aspects of NAGT is important to retain on the Ex Comm.

2012 NAGT Secretary/Treasurer Report

- Participated and recorded minutes at the Executive Committee meetings on January 30, 2012 (virtual), March 3-4, 2012 and June 15, 2012 (virtual). Participated and recorded minutes at the NAGT Council meeting on April 16, 2012 (virtual).
- Collaborated with the Executive Director to develop the FY13 NAGT budget.
- Participated in Pkal sustainability common language project.

August 31, 2012 Oakmark Fund Account Report

NAGT Endowed Funds – *Oakmark Equity Income* NAV 28.61

	Shares	Aug 31, 2012	Aug 31, 2011
NAGT Endowment	18,783.966	\$537,409.37	\$495,054.68
Field Scholarship Fund	3,756.853	\$107,483.56	\$101,789.22
Rosalsky Fund	553.549	\$15,837.04	\$15,287.13
Horberg Fund	1,955.805	\$55,955.58	\$53,909.21
Honors Fund	124.808	\$3,570.76	\$3,309.80

NAGT Funds – *Oakmark Equity Income*

	Shares	Aug 31, 2012	Aug 31, 2011
Stout Fund	632.783	\$18,103.92	\$18,166.40
Minority Fund	87.307	\$2,497.85	\$2,315.31
Reserve Fund	3,561.011	\$101,880.52	\$94,434.79

NAGT Endowed Funds - *Oakmark Money Market Fund*

	Shares	Aug 31, 2012	Aug 31, 2011
NAGT Endowment	15,004.00	\$15,004.00	\$15,003.48

FY12 Year End Oakmark Fund Transactions

Friday, August 31, 2012

Withdrawal of \$750 (26.215 shares NAV 28.61) from the Stout Fund

Monday, August 27, 2012

Deposit of \$3970 (138.424 shares, NAV 28.68) donations to the following funds:

\$540 to the Field Scholarship Fund (18.282 shares)

\$100 to the Horberg Fund (3.487 shares)

\$3330 to the NAGT Endowment (116.109 shares)

Monday, August 20, 2012

Withdrawal of \$6620 (229.781 shares, NAV 28.81 from the following funds:

\$660 from the Rosalsky Endowed Fund (22.909 shares)

\$2320 from the Horberg Endowed Fund (80.527 shares)

\$2890 from the Field Scholarship Endowed Fund (100.312 shares)

\$750 from the Stout Fund (26.033 shares)

***Journal of Geoscience Education* Fall 2012 Report to NAGT Members.**

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 22 Associate Editors. This year we welcomed Leilani Arthurs (University of Nebraska), Rebecca Teed (Wright State University), and Kyle Gray (University of Northern Iowa) as new Associate Editors, as well as Judy Lemus (University of Hawai'i at Manoa) and Dr. Jude Apple (Western Washington University) as Guest Associate Editors. We thank Barry Bickmore (Brigham Young Univ), Scott Clark (University of Wisconsin-Eau Claire), and Emily Ward (Rocky Mountain College) who are retiring from the Editorial Board at the end of this year. An Editorial Board dinner meeting is scheduled for November 5 2012 in conjunction with the National GSA meeting in Charlotte, NC.

2. Year 1 with Allen Press.

Allen Press manages both the online submission and review system for JGE (AllenTrack; <http://jge.allentrack.net/cgi-bin/main.plex>) and the online (<http://nagt-jge.org/>) and print publication of JGE. Our managing editor is Jean Baldwin (jbaldwin@allenpress.com). While we have experienced a few challenges in this first year with Allen Press (e.g., online-publication delay of the Aug 2012 issue), overall the staff at Allen Press have been efficient, and effective, communicative, and easy to work with. From my perspective, many of the production and publication problems encountered earlier with AIP are not issues with Allen Press.

There appears to be some continued confusion on the part of NAGT members and sometimes JGE authors as to how to access JGE online. Only NAGT members can access the most recent issues of JGE (last 4 issues = 1 year) using their login information; although all issues other than this 1 year moratorium are open access online. NAGT members can obtain their username and password from Allen Press.

Starting later this fall JGE will require that at least 1 author of accepted manuscripts be (or become) a NAGT member. This follows earlier conversations with the NAGT executive committee, and follows the model of the Journal of College Science Teaching, which is a publication of the NSTA. Starting in 2008 JCST required that the corresponding author be or become an NSTA member upon acceptance of the manuscript for publication to help defray the cost of publication. Special circumstances may warrant waiving this membership requirement. Page charges will continue to be requested, but not required.

There are two steps that I am working with Jean on to help us communicate more effectively with publishing authors: I would like to see (1) authors be sent emails upon publication of their article, and (2) be sent a pdf copy of their manuscript (regardless of their NAGT membership status).

3. Journal Summary.

Fifty-six manuscripts were submitted to JGE since March 1 2012 (**Table 1**); 29 Research papers, 22 C&I papers, and 5 Commentaries. The current submission pressure has increased compared to the last couple of years. The current acceptance rate is 44%, lower than the last couple of years. Note that few manuscripts are accepted without revision; most go through 1-2 rounds of revisions prior to acceptance. Some manuscripts are rejected following preliminary in-house review, and others following external review. Currently, the average time to first decision is 52 days, and to final decision is 60 days. These are much faster turn-around-times than in the last 2 years.

Table 1. Journal Summary Report

6-month time window	Total # 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	85%	132	272
September 2010 thru February 2011	21	86%	181	299
March 2011 thru August 2011	22	72%	129	222
September 2011 thru February 2012	28	71%	120	171
March 1 2012 thru September 21 2012	56	44%	52	60

4. 2012 Outstanding Reviewer and Outstanding Paper Awards.

NAGT and the JGE Editorial Board implemented two new award programs for JGE this year: (1) Outstanding Reviewer and (2) Outstanding Paper. Information on award criteria and the nomination and decision process are provided below and on the JGE website: <http://nagt-jge.org/page/awards>. The award committee included AE Dean Moosavi, AE Heather Petcovic, NAGT board member Bruce Herbert, and myself. The ranking were done separately, but were all unanimous. The 2012 JGE Outstanding Reviewer is Kyle Grey, Assistant Professor of Earth Science and Science Education University Northern Iowa. Four people were nominated for this award. The 2012 JGE Outstanding Paper is Alternative Conceptions of Plate Tectonics Held by Nonscience Undergraduates by Scott K. Clark, Julie C. Libarkin, Karen M. Kortz and Sarah C. Jordan. Two papers were nominated (1 nominated by 2 different people) for this award. Congratulations to these award recipients.

5. Call for Papers for New Theme Issue: Teaching Geoscience in the Context of Culture and Place

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. Submission deadline extended: December 15, 2012. For more information see: <http://nagt-jge.org/doi/full/10.5408/1089-9995-60.2.94>

This year was the second 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 cognition and included one major article describing factors that bear on and teaching techniques for developing expert learners. That issue also included columns metacognition, brain function and critical thinking. The April issue centered almost entirely on quantitative thinking with five feature articles and columns. The contributions varied from descriptions of websites designed to help students sharpen their mathematical skills to a discussion of quantitative literacy. The July issue used centered around teaching and learning about karst. That issue included two major features and one student-submitted column. This issue was also used as a place to disseminate news of interest from the mid-year meeting. The October issue discussed hands-on activities used in labs and classrooms. It included one longer articles and three related column. This issue was also used to publish the 2012 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, how faculty use textbook-provides supplements, field camps and other topics solicited from the community. The editorial staff welcomes submissions and ideas for future content.

David Steer
Editor

NAGT Website and News Report

September 2012

John McDaris

In the period from September 2011 to September 2012, 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 integration of the NAGTNews, the Facebook page, the website news, and In the Trenches seems to be driving increased traffic to our news items (up 47% or almost 2000 unique pageviews over last year). Overall site use saw a 10.5% increase during this period compared to the same period 2010-11. A detailed breakdown of traffic can be found below.

Accomplishments since March 2012

- 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, August, September – articles from the newsletter added to the site as news items.
- 5 Community Advertisement posted on the website.
- 22 Community Announcements posted on the website.

Website Use

Between September 20, 2011 and September 19, 2011, the NAGT website received 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%).

By comparison, for the same period 2010-11, there were 61,366 visits from 39,653 unique visitors of which 37% were repeat visitors. The most popular parts of the site were JGE (36% of unique pageviews), Programs (23%), Organization (6%), and Teaching in the Field (6%).

More detail about the numbers:

Overall traffic saw a 10.5% increase year on year. JGE saw a 39% drop in unique page views from last year as traffic continues to shift to the Allen Press JGE website with each new issue of the Journal. Significant changes were also seen in the traffic to other areas of the site: Programs: +8%, Organization: -24%, Teaching in the Field: +10%, Teaching Resources: +13%, News: +47%, Membership: +37%, Education and Policy: +29%. 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 is also a spike in traffic to the top page of the site (nagt.org) on the few days surrounding March 4, 2012 which is as yet unexplained. This spike saw peak traffic hit ~3100 visits per day compared to a normal background of ~300 visits per day. The graph below shows how the increased traffic came in during the week surrounding March 4th.

Visitors Overview

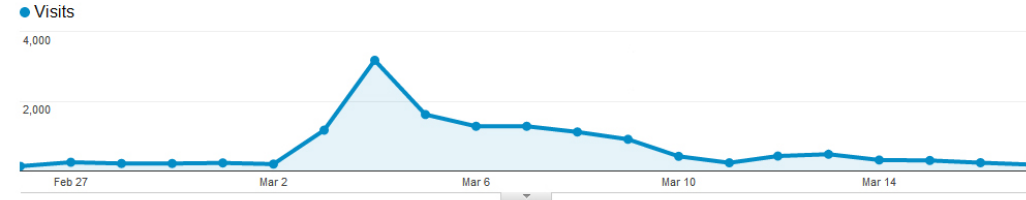
Feb 26, 2012 - Mar 17, 2012

● % of visits: 100.00%

Overview

Visits VS. Select a metric

Hourly Day Week Month



Section Website Usage (for those hosted at SERC)

Traffic on Section websites showed several year-on-year variances. Pacific Northwest section continues to be the most used section website, and saw a 65% increase in site use. However, in the summer of 2012, the section created a new website outside of nagt.org and took down its former site on nagt.org. Central is the next most used section site but saw a 67% decrease. Southwest saw a 62% drop in use. North Central and New England saw decreases of 34% and 15% respectively. In absolute numbers, traffic to section websites in 2012 ranged from a few hundred per year for New England and North Central to just over 800 for Pacific Northwest.

Councilor/Liaison Report

2012 Fall Executive Committee meeting

Andy Buddington

September 19, 2012

The following are activities I have worked on as Councilor-at-Large and as Liaison (Pacific Northwest Section) for the second half of 2012:

James H. Shea Award Committee

I served as committee chair again for 2011-12 cycle. The committee was once again successful at soliciting quality nominees and the choice for the 2012 awardee is Bill McKibben.

Pacific Northwest Section Liaison

During 2012, I planned and coordinated the 2012 annual meeting for the Pacific Northwest Section. The meeting was hosted by Spokane Community College (June 22nd-26th) and included four days of field trips and a one day conference of talks and posters. There were a total of 55 registered participants, with 15 talks and 16 posters presented. Speakers included NAGT PacNW section members and geologists from the following agencies: USGS, WA-DOE, WA-DNR.

Geoscience Teachers in the Parks Committee

I continued to serve; no activities to report.

NAGT International

There were no activities to report since Spring 2012.

Final Report from Bruce Herbert, Councilor at Large (or maybe just a large councilor)

My term of service is done, so I thought I would write down some observations.

1. I am impressed with the quality of people leading NAGT. You are all amazing in the work you put into the organization and the quality of your ideas. I have enjoyed working with you.
2. I have two outstanding projects that I intend to complete: the GSA short course in the fall and the book project with Karl (<https://sites.google.com/site/nagtgeoedprimer/>). Cathy and I didn't make much headway with the Building Strong Depts group together (though Cathy may have made progress). I am willing to continue working on this if you are interested.
3. The person (Rick Giardino) I recruited to lead the Texas chapter of NAGT will not likely be up to task. His life has taken some twists, both good and bad, and it appears he has no time for NAGT.
4. I think this is an important time for NAGT, one that can dramatically affect the future of the organization. I worry we are not recruiting members in proportion to the increase in interests in geoscience education. I also worry that our collaborators (GSA and AGU) may also turn out to be our competitors.

I applaud the Y2C initiative as I see this as a real way to recruit new members. Membership in a professional society is aligned with the member's professional identity. Programs that support members professional identity and career success are the ones that will recruit new members.

The crisis in higher education is also an opportunity for NAGT. If NAGT can find ways to help address these issues of student learning, recruitment and retention, and professional success for instructors and faculty, then the organization will be valued and supported.

5. Organizations also have to support a sense of community. Revamping the journal and newsletter are important steps to building this community. Since NAGT will likely never have a large people working on running NAGT, technology tools that can automate the task should be sought.

Here is an example. Over the summer Kristen reported on the process (and difficulty) of recruiting nominations for the best JGE article and then organizing a committee to vote. As an alternative, Kristen could use the website to generate a short list of high interest papers by counting the number of downloads, comments, or page views. She could then "nominate" a short list of quality papers and survey the entire NAGT community to vote through a link in an email to a page that allow the papers to be reviewed. This generates interests using a real positive task that is easy to complete for the community and generates buzz for the authors of the papers.

As a final note, I would enjoy serving NAGT so if there is some way I can help please ask.

Councilor-at-Large Annual Report for NAGT 2011-2012

Karen Kortz

Meetings

- GSA Annual Meeting, Minneapolis, October 9-12, 2011
 - Led NAGT/GSA Ed Div-sponsored workshop entitled “Common Misconceptions about Plate Tectonics, Earth’s Interior, and the Rock Cycle, and Active Learning Approaches to Correct Them”
- NAGT Executive Committee 2011-2012 Meetings
 - Participated in quarterly Executive committee teleconferences
 - Due to a conflicting meeting, I was unable to attend the NAGT Executive Committee meeting
- Northeast Geological Society of America meeting, Hartford, March 18-20, 2012
 - Aided in the coordination of NE NAGT efforts at the NE GSA meeting, such as coordination of the NAGT-sponsored luncheon, creating the Community College Geoscience Education Reception, manning the NAGT booth, proposing sessions, leading the workshop, leading the field trip, and sponsoring sessions
 - Co-chaired a NAGT sponsored session at the NE GSA meeting, titled “Inquiry-Based Activities: Examples and Effectiveness”
 - Lead a NAGT sponsored workshop at the NE GSA meeting, titled “Misconceptions in Introductory Geology Courses and Ways to Reduce Them with Active Learning Techniques”
 - Co-lead (with Christine Witkowski, a fellow NE NAGT member) a field trip at the NE GSA meeting, titled “In the Footsteps of Dinosaurs: A Guided Tour of Dinosaur State Park for K–16 Educators”

Activities

- Two-year colleges section liaison – I have been aiding David Voorhees on creating a questionnaire for 2YC faculty
- Acting President and current Past President of New England NAGT
 - work with the leadership of NE NAGT, updating them on the national level and 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)
- Journal of Geoscience Education
 - coauthor on a paper submitted to JGE
 - served as reviewer on a couple papers submitted to JGE
- Co-lead the week-long On the Cutting Edge Workshop for Early Career Faculty in the Geosciences (2012)
- Will co-lead a NAGT and GSA Ed Div sponsored workshop entitled “Active Lectures in Classrooms of All Sizes” at the GSA annual meeting in Charlotte, November 4-7, 2012

Councilor's Report for 2011-2012: Jeff Ryan

NAGT Activities:

- **Attended Mid-Year meeting in MN (in early March! I'm from Florida...)**
- **Participated in several Executive Committee telecons as my course schedule allowed.**

Other Educational Service activities:

- Service as Geoscience Councilor, Council on Undergraduate Research
 - Co-Convener, Cutting Edge/CUR "Soiree" workshop on undergraduate research as an educational best practice in the geosciences (10/11)
 - Facilitator, CUR-Geoscience Workshop for Early Career Faculty (2012 GSA Annual Meeting)
- UNAVCO Education and Community Engagement Advisory Committee, (Current: met 2/12)
- Integrated Earth Data Applications (IEDA) geoinformatics facility Policy Committee, (Current; met 7/12)

Education-related Publications In Press:

Ryan, J.G. (2012) "Integration of Research into the Classroom and Curriculum" and "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.

Ryan, J.G., (2012) 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. Invited submission to Tong, V. (ed). *Geoscience Research and Education*. Springer Verlag.

Grant-supported Educational Scholarship:

- **NSF-NOYCE: USF Robert Noyce Scholarship Program. (funded 7/10)**
Scholarship program for STEM graduates seeking to obtain a Master of Arts in Teaching, to serve as teachers in high needs school systems in central FL. Scholarship program is ongoing.
- **NSF-CCEP: Coastal Areas Climate Change Education (CACCE) Partnership [funded 9/10; supplemental support 8/11]**
Presentations:
Ryan, J.G., Feldman, A., Muller-Karger, F., Gilbes, F., Stone, D., Plank, L., Meisels, G. (2011) Identifying Effective Strategies for Climate Change Education: The Coastal Areas Climate Change Education (CACCE) Partnership Audiences and Activities. Presented at the AGU Fall Meeting.

Feldman, A., Ryan, J.G., Muller-Karger, F., Gilbes, F., Stone, D., Plank, L., Meisels, G. (2011) Educational Strategies of the CACCE Partnership. Presented at the AGU Fall Meeting.

Meisels, G., F. Muller-Karger, A.Feldman and J.G Ryan (2012) Communicating Sea Level Rise. Presented at the 2012 AGU-ASLO Ocean Sciences Meeting, Salt Lake City, UT

Ryan, J.G., Feldman, A., Muller-Karger, F., Gilbes, F., et al (2012) Communicating on climate change in vulnerable areas: strategies of the Coastal Areas Climate Change Education (CACCE) Partnership for Florida and the Caribbean. Present at the 34th International Geological Congress, Brisbane, Australia

- NSF-TUES: Faculty Development to Support High Impact Activities That Transform Undergraduate Geoscience Education (funded 8/11)
Resources to Transform Geoscience Education (RTUGeoEd: NAGT sponsored project)

- Information sessions at the 2011 AGU Fall meeting; the 2012 AGU/ASLO Ocean Sciences Meeting; 2012 GSA Northeastern Section; 2012 GSA Rocky Mountain Section meeting. Mini-workshops at the 2012 American Association of Geographers Meeting (NYC); GSA Southeastern Section meeting (Asheville, NC); 2012 CUR Conference (Ewing, NJ).
- Upcoming sessions at 2012 GSA Annual Meeting, AGU Fall Meeting, CCLI PI Conference, ASLO Aquatic Sciences Meeting.
- First long-form proposal writing workshop tentatively scheduled for March of 2013.

Presentation:

Carter, C., Ryan, J.G. and Singer, J. (2011) The Advanced Technological Education Program and NSF Education programs can support undergraduate research. Presented at the 2011 AGU Fall Meeting.

Mid-Year Report for NAGT 2012-2013

Wendi J. W. Williams, Councilor-at-Large

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

- ▷ 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.
 - Worked the 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 Blodget at the South-Central GSA Section Meeting in Austin, TX, April 2013.
 - *Please Note: I am a member of the GSA SC Section Board. I am Co-Chairing the 2014 SC GSA Section Meeting to be hosted in NW Arkansas. I will be sure to have a number of NAGT-related “presences” as well as foster sessions and/or short courses for 2YC colleagues.*

- ▷ Participated in 18 April 2013 AGI GAPAC (as NAGT Rep Substitute for A. Awad)

Near Future Efforts:

- ❖ Will participate in 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.”

- ❖ Will participate in June 2013 SAGE 2YC “Best Practices for Preparing Two-year College Students for a Geoscience Career and Transfer.” I have been asked to make Welcoming Comments pertaining to NAGT and the 2YC Division.

Councilor-at-Large Annual Report to NAGT
2012 Fall Executive Meeting
Karl Wirth

New Councilor, beginning service in Fall 2011.

27 September 2011 – Virtual Executive Committee Meeting

- Agreed to serve as liaison to Eastern Section

28 September 2011 – Virtual Council Meeting

2011 Annual GSA Meeting (08 – 12 October 2011)

Conducted NAGT-sponsored workshop at GSA: “Teaching Students to Learn: Why Not Be Explicit?”

Annual Council Meeting at GSA Meeting

Proposed and chaired education session; presented a co-authored paper

Nov 2011 – Dec - Wrote article “Cultivating Expert Learners: Implications of Research on the Brain and Cognition for Teaching and Learning” for January 2012 issue of *Trenches*

30 January - Virtual Executive Committee Meeting

- Volunteered to lead small working group to look at *Visiting Workshop* program

Mid-Year Annual F2F Meeting in Northfield (03-04 March 2012)

24 Sept 2012 Virtual Executive Committee Meeting

27 Sept 2012 – Virtual Council Meeting

Traveling Teaching Workshop Program

- Spring 2012 Formed subcommittee to explore models for new traveling NAGT 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
- Will coordinate development of pilot workshop program during Fall 2012

Eastern Section Liason

No activities to report since Spring 2012

Central Section of NAGT 2012 Annual Report

submitted by Katie Lewandowski

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

A. Officers for 2012-2013

President

Katie Lewandowski
Eastern Illinois University
Department of Geology-Geography
600 Lincoln Avenue
Charleston, IL 61920
kjohnson4@eiu.edu

1st Vice President

Cullen Erbacher
Miami University- Middletown
4200 N University Blvd.
Middletown, OH 45042
erbachc@miami.edu

2nd Vice President

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

Treasurer: (2010-2012)

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

Secretary: (2008-2012)

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

OEST Award Chair

Beth Johnson
University of Wisconsin-Fox Valley
1478 Midway Road
Menasha, WI 54952
bethajohnson@uwc.edu

OEST 2nd Chair

Jill Black
Missouri State University-Springfield
Geography, Geology, and Planning
901 National Ave.
Springfield, MO 65897
ABlack@missouristate.edu

Past President

Kevin Evans
Missouri State University-Springfield
Geography, Geology, and Planning
901 National Ave.
Springfield, MO 65897
kevinevans@missouristate.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 sponsored by our section in the past. Unfortunately, it, too, has been cancelled or not scheduled over the past couple of years.

2. **OEST (Outstanding Earth Science Teacher Award)** : The Central Section of NAGT did not have any nominations and thus no winner of the NAGT Central Section OEST Award in 2012. We have two new, enthusiastic OEST Award Chairs this year and hopefully we will be successful in having state and section winners in 2013.

3. Meetings and Conferences

a. Past Meetings

North-Central GSA in Dayton, OH, April 22-24, 2012

Theme Sessions sponsored by Central NAGT:

- Geoscience Student Engagement: Innovations in Labs, Activities, Field Trips, and In-Class Pedagogy for K-16 Classrooms (Carrie L. Wright, University of Southern Indiana)
- The Museum as Geological Muse: Outreach, Online Catalogs, Blogs, Student Internships, and More (Joe Hannibal, Cleveland Museum of Natural History; Brenda Hunda, Cincinnati Museum Center)

Field Trips sponsored by Central NAGT:

- Downtown Dayton Walking Tour: Building Stones, Geology and Commemorating 99 years since the Dayton Flood of 1913 (Michael R. Sandy, University of Dayton)

Central Section NAGT **Business Meeting** was held during the NAGT luncheon at NC GSA in Dayton on April 23, 2012. Twelve people attended.

b. Upcoming 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)

•

4. Treasurer's Report (from the Central NAGT Business Meeting at NC GSA in April 2012)

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 Dayton. We received \$500 from national NAGT.

October 2012

Annual Report of the National Association of Geoscience Teachers-- Eastern Section

Submitted by Dr. Michael J Passow. 2012-2013 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 the Lamont-Doherty Earth Observatory of Columbia University on May 31 – June 3, 2012. Highlights included field trips to the Franklin Mining Museum, with its world famous collection of fluorescent minerals, and the American Museum of Natural History, with behind-the-scenes tours. We also provided a special guided tour of the Lamont-Doherty Earth Observatory, as well as shorter field experiences to the Trailside Museums at Bear Mountain State Park and the Stateline Look Area of the Palisades Interstate Park.

On Saturday night, we hosted our Awards Program. We recognized Dr. Frank Revetta, Professor Emeritus at SUNY Potsdam, for his service to the Section. Dr. Leslie Hasbargen of SUNY Oneonta received the John Moss Award. The John Moss award is reserved for instructors and professors who, at the college level, model outstanding teaching in the geosciences. Dr. Carl Mehling of the American Museum of Natural History received our Digman Award. 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 qualify for this award.

OESTA awards were presented this year to Jody Suprenant (NY), Willie Herrera (MD), Dorothy Edwards (VA), Rick Sharpe (WV), and Ed Cohen (NJ), who also won the Eastern Section OESTA Award. I presented Ed Cohen with his award at a meeting of the Piscataway Public Schools Board of Education in October. Details of all these awards are described in the Summer 2012 Section Bulletin, which can be accessed through <https://sites.google.com/site/nagtes/>.

Unfortunately, my mother passed away on May 27, after a long illness, so my own involvement was limited to the Friday morning Lamont tours and the Sunday Section Officers Meeting. I want to provide special recognition, therefore, to Renee Aubry, our Section Treasurer, and Rose Sanders, our Secretary, who took over many of the details of organizing the conference.

The Eastern Section did not receive sufficient applications to continue our tradition of awarding 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. We will increase recruitment for this award for the next academic year.

The Eastern Section publishes its newsletter The Bulletin four times each year. This keeps members informed of activities within the Section. We encourage any member to submit articles for publication. We have smoothly made the transition from the traditional printed copy mailed to every member of the section to the current electronic version sent to every member, unless they specifically request a mailed hard copy.

As with many other organizations, the Eastern Section must continue to depend on a core group of dedicated members to maintain the Section's activities and business. Our spring conference is the one opportunity each year when members of the section gather to exchange knowledge of Geoscience education and network socially. The 2013 Spring Conference is being organized by Karen Aucker of Lock Haven State University, PA.

During the coming year, Section plans include, among other projects: completing the forms necessary to re-instate our lapsed tax-exempt status, re-vitalize our Councilor network, attempt to increase membership numbers, improve our Section Archives, seek applications for all Section awards, and disseminate information among our members about the next opportunity to contribute to the development of the Next Generation Science Standards.



Annual Report 2012

National Association of Geoscience Teachers Far Western Section

The Far Western Section is fortunate to have members who are willing to organize or help organize the spring and fall conferences. An overview of the spring and fall conferences of 2012 are included in this report.

Spring 2012 Conference – March 2 - 4, 2012

Organizer - Lynn Fielding, El Camino College

Location – Desert Studies Center, Zzyzx, California

Friday

Speaker – Robert Fulton, California State University Desert Studies Manager,

A History of Zzyzx and Soda Springs

Key Note Speaker – Dr. Debra Bereki,

Geologists Taking a Role in the K-12 Classroom

Saturday Trips

Robert Fulton, Manager, Desert studies Center, Geomorphic Quaternary Landscape and the Distribution of Biota

Ted R. Weasma, Registered Project Geologist, Mojave National Preserve Mojave Desert Area Mining and Geology

Brandon Browne (California State University, Fullerton) and Eric Hovanitz (Santiago Canyon College) Volcanism and the Eastern Mojave

Student Posters

Student Poster Awards Presentation - Julienne Gard and Lynn Fielding, El Camino College. Three student posters were selected and the winners each received a Barnes and Noble gift card, the Proceedings of the GSA 2011 Annual Meeting, and an Orthoceras fossil.

The winners were:

John Burton of El Camino College

Moonwalking

Allison Prinzlow of El Camino College

Depositional Relationships Between Pillow Lavas and Sediments in the Monterey Formation, Palos Verdes Peninsula, California

Moises Ponce - Zepeda of East Los Angeles College

Digital Alliances: How Partnerships in Integrated Fieldwork Facilitates a Global Classroom

Key Note Speaker – Dr. Elizabeth Cochran, United States Geological Survey

Installing Seismometers Around Every Corner: What Can They Tell Earth Scientists?

Sunday

Russ Harter Pisgah Lava Tubes

Chuck Herzig Workshop - Teaching teachers how they can better convey geology to their students

A total of 95 earth scientists and students participated in the conference and a slight profit was made and given to the Section Treasurer.

Fall 2012 Conference – September 7 - 9 , 2012

Organizers – Noah Hughes, Modesto Junior College and Garry Hayes, Modesto Junior College

Location – High Sierra Institute, Baker Station, Sierra Nevada

Friday

Going up or going down? Evidence for late Cenozoic uplift of the Sierra Nevada, California, connection to tectonic and processes, and alternative explanations of paleoaltimetry. Speaker:

John Wakabayashi, Department of Earth and Environmental Sciences, California State University, Fresno.

Saturday

Geology of the Eastern Sierra Nevada between Sonora Pass and Mono Lake

Leader: Garry Hayes

Geology & Climatology of the Saddlebag Lake Region, Tioga Pass

Leaders: Ryan Hollister and Laura Hollister

Walker Lane Belt Pull-apart Volcanism and the 11- 9 Ma Sierra Crest Graben at Sonora Pass Speaker: Cathy Busby Ph.D, UC Santa Barbara:

Sunday

A Tour of the Western Sierra Nevada from Baker Station to Knights Ferry: An exploration of the volcanic, glacial, and karst features of the western slope of the Sierra Nevada. Stops may include the Columns of the Giants, Natural Bridges, and inverted stream of Table Mountain. Easy to moderate hikes only. Leader: Noah Hughes

Geology of the Sword Lake Debris Flow: Some moderate to strenuous hiking required.
Leader: Jeff Tolhurst, Ph.D., Columbia College

Approximately, 65 earth scientists and students attended the conference.

Overall there has been a slight increase in Far Western Section membership. Lynn Fielding attended the GSA Meeting in 2011 in Minneapolis, Minnesota and represented the Far Western Section. She also participated in the conference calls scheduled during the year.

Plans are being made for several upcoming Far Western Section Conferences and information will be announced soon.

Sincerely,
Lynn Fielding
Lynn Fielding
Far Western Section President

New England Section of NAGT 2011-12 Annual Report (Bruce Rueger)

A. 2011-12 Section Officers

President

Bruce Rueger, Department of Geology, Colby College, Waterville, ME 04901,
bfrueger@colby.edu

Vice-President #1

Tarin Weiss, Department of Physical Science, Westfield State University, Westfield, MA,
01086, tweiss@westfield.ma.edu

Vice-President #2

Steve Winters, Holyoke Community College, Holyoke, MA, science_matters@yahoo.com

Treasurer

Julia Daly, University of Maine at Farmington, Farmington, ME, dalyj@maine.edu

Past President

Karen Kortz, Community College of Rhode Island, Lincoln, RI, kkortz@ccri.edu

Councilor

Christine Witkowski, Middlesex Community College, Middletown, CT,
CWitkowski@mxcc.commnet.edu

Councilor

Tom Vaughn, College of Professional Studies, Northeastern University, Boston, MA,
tvaughn17@comcast.net

Newsletter Editor

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

OEST Awards Coordinators

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

B. Reports

a. Annual Business Meeting

The annual business meeting of the New England Section NAGT was held on December 10th, 2011 at the Beneski Museum of Natural History at Amherst College in Amherst, MA.

Section officers were approved and councilors appointed.

There was a tour of the museum and the gallery of dinosaur footprints.

A lecture entitled “Trace fossils and their use in the interpretation of the history of life” was offered by Patrick Getty.

This was followed by a field trip of Glacial Lake Hitchcock by Richard Little.

b. 2012 OEST Awards

- Section Winner:
 - Ray Pavlik, Concord Carlisle High School, Concord, MA

C. Annual Activities/Functions

Events Sponsored by New England Section NAGT 2011-12

1. New England Section NAGT Annual Business Meeting – Amherst College
See Section B.a. above.

2. 18-20 March, 2012 Northeastern Section Meeting of the Geological Society of America – Hartford, CT

The New England Section of the NAGT served as a Sapphire financial sponsor for the meeting.

We also co-hosted the NAGT booth with the Eastern Section.

We sponsored a well-attended luncheon for New England and Eastern Section members.

We co-sponsored a field trip In the Footsteps of Dinosaurs: A Guided Tour of Dinosaur State Park for K-16 Educators, led by Christine Witkowski, Margaret Enkler and Karen Kortz.

We also co-sponsored the following sessions at the meeting:

T17. Inquiry-Based Activities: Examples and Effectiveness

T18. Technology Integration in K-16 Geoscience Education

Geoscience Education (posters)

NAGT-sponsored short course: Misconceptions in Introductory Geology Courses and Ways to Reduce Them with Active Learning Techniques

The section website was updated and is being actively maintained.

b. Planned 2012-13 Activities

Gem, Mineral, and Fossil Show at Greenfield Community College, Greenfield, MA

November 10 Annual Business Meeting a

We will be hosting a luncheon there for members

Dr. Paul Olsen will be presenting the Jurassic Roadshow at the show and we will be sponsoring his participation.

Northeastern Section Geological Society of America Meeting

March 18-20, 2013

NAGT luncheon

Sponsorship of a session Connecting Students with Place: Technology-Enhanced Teaching Using Local Resources.

Co-sponsorship of a weekend workshop K–12 Earth-Space Science Education in the 21st Century

D. New England Section NAGT financial

We currently have \$3500 in our account

North Central Section Annual Report 2012

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 continue our section website. Solicitations for nomination for the OEST award were made and one was awarded! This award went to Paul Fechtmeister of Cheyenne, Wyoming. Paul's award will be presented to him during the fall board meeting of the Wyoming NASA Space Grant Consortium Board meeting in Casper, WY on Friday, October 19, 2012.

Planned Activities:

We will schedule an informal gathering at GSA in Charlotte to see if we can connect as section members. We will attempt to recruit some new members to the team so that we can get some activity going!

Treasurer's Report:

submitted by Kata McCarville

The NAGT North Central Region is solvent, and has available funds totaling nearly \$3000 at this time.

Pacific Northwest Section of NAGT 2011-12 Annual Report (Ron Metzger)

A. 2011-12 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@pdx.edu

Washington

Sian Davies-Vollum, University of Washington-Tacoma, ksdavies@u.washington.edu

Joseph Hull, Seattle Central Community College, jhull@sccd.ctc.edu

Jeff Tepper, University of Puget Sound, jtepper@ups.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 24th during the Pacific Northwest Section annual meeting at Spokane Community College.

OEST winners were announced. Nominations for next year should be submitted to Lynda Sanders and Jodie Harnden, the new OEST awards coordinators, LyndaS@coos-bay.k12.or.us and Jodie.Harnden@pendleton.k12.or.us.

Treasurer's report from Bob Christman was delivered by Scott Linneman to Metzger and presented at the meeting.

b. 2011 OEST Awards

- Section Winner:
 - Marie Carver, executive director at the Jane Goodall Environmental Middle School, in Salem, Oregon.
- State Winners:
 - Alaska: Jennifer Bacus, from Kwigillingok, AK, and teaches for the Lower Kuskokwim School District.
 - Oregon: Marie Carver, executive director at the Jane Goodall Environmental Middle School, in Salem, Oregon.

C. Annual Activities/Functions

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

PNW NAGT Annual Meeting, June 22-26, 2012, Spokane Community College, Spokane, WA, hosted by Spokane Community College/Andy Buddington. Attended by over 50 participants. In addition to a large and vibrant group, there was representation from a variety of areas: academics at all levels including studnets, state surveys, USGS and state agencies. Andy Buddington should be commended for the excellent job of putting together a program that drew geoscientists from a broader demographic than normally attends sectional meetings.

- Day 1: (6/22) Glacial and Missoula floods history in the Pend Oreille River valley area, leader: Gene Kiver.
- Day 2: (6/23) Technical sessions (SCC) & evening social event with author Jack Nisbet. Program consisted of 15 talks and 16 posters covering geology of the region and also geoscience education.
- Day 3: (6/24) the Clarkia Lagerstätte, leader: Bill Rember.
- Day 4 & 5: (6/25 & 6/26) The continental margin geology and tectonic history of NE Washington: Precambrian to Tertiary, leaders: Eric Cheney & Andy Buddington.

The section website was updated giving it a new look: <http://www.nagtpnw.org/> by section vice president Cassie Strickland. The site is not only vibrant, but provides easy access to section information.

The reigns to the section newsletter have been handed over to 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. Recent newsletters may be accessed at the section website: <http://www.nagtpnw.org/News-or-Reviews.html>.

The section acknowledged the recent passing of longtime section member Bob Christman via email to section members. Bob had graciously served as section Treasurer since the rejuvenation of the Pacific Northwest Section in 1999, in addition to his years of service to National NAGT. His positive outlook and cheerful disposition will be missed on many levels. Until his passing, Bob remained as Treasurer for the Pacific Northwest section. With his passing, Scott Linneman has been appointed Treasurer of the Pacific Northwest section pending elections at the next sectional meeting in June 2013 at Southwestern Oregon CC in Coos Bay, Oregon.

Dr. Scott Burns was recognized at the annual conference in Spokane with an award for his extended service to the section. Scott was recognized for helping host conferences in Portland, Oregon, for being an active participant in the section by attending and presenting at the annual conferences, and his collegial nature. He was presented with a copy of *Earthsong* as a token of the sections appreciation to his continued effort on behalf of geoscience education.

b. Planned 2012-13 Activities

- Annual PNW NAGT meeting at Southwestern Oregon Community College, Coos Bay, scheduled for June 24-28, 2013. Host-Ron Metzger, Southwestern Oregon CC.
- Vice president Cassie Strickland has lined up hosts for future section conferences including: **2014- Pendleton, OR**, hosted jointly by Blue Mountain CC, Eastern OR University and Sunridge Middle School. **2015- Victoria, BC**, hosted by Camosun College. **2016- Hell's Canyon, ID** (Field Conference)- held in Hell's Canyon, hosted by Spokane CC. **2017- Wenatchee, WA**, hosted by Wenatchee Valley CC (tentative). **2018- Craters of the Moon National Monument**, Arco, ID, hosted by the National Park Service.

D. Pacific Northwest Section Treasurer's Report (Robert Christman)
Financial Report, Pacific Northwest NAGT Section

Savings account with Whatcom Educational Credit Union

Submitted by Bob Christman, June 19, 2012 for presentation at sectional meeting

Financial Report. NAGT Pacific Northwest Section
Savings Account with Whatcom Education Credit Union
Submitted by Bob Christman, June 19, 2012

Previous report, June 10, 2011

Savings	6975.79
Kahle fund	<u>1825.00</u>
	8800.79

Current report, June 19, 2012

Savings	7068.64
Kahle fund	<u>1505.00</u>
	8573.64

Detail
Income

Interest	44.71
Rebate	265.00
Guidebooks	<u>168.00</u>
	477.71

Expenses

Student Grant (Herring)	100.00
Kahle (Sanders; Harden)	320.00
Spokane CC	200.00
Metzger (award purchase)	78.86
Bank Fee	<u>6.00</u>
	704.86

Summary

Begin	8800.79
Income +	477.71
Expenses -	<u>704.86</u>
Current	8573.64

Southeastern Section Annual Report for 2011-2012

By Randy Bechtel

Southeastern Section Officers

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

Past President: Andrew Rindsberg
University of West Alabama
Station 07
Livingston, AL 35470
arindsberg@uwa.edu

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

Secretary/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

'Presidential' thanks

I would like to thank all of the state representatives and officers who participated in this year's OEST Southeastern Section award competition. The SE section made the transition to the national OEST online system which provided a few organizational challenges. Thanks to the efforts of all involved, we received nominations from most of the southeast states. Greg Wheeler, National OEST Chair, was very helpful and patient in answering all of our questions. I would also like to welcome our newest state representative Gerald Pollack from Georgia.

Southeastern OEST winners for 2012

- ◆ **Georgia and SE Regional Winner** *Kevin McMahon*
- ◆ **Louisiana** *Angie Plaisance*
- ◆ **North Carolina** *Beverly Owens*
- ◆ **South Carolina** *Crystal Talley*
- ◆ **Tennessee** *Chris Vanags*

Southeastern newsletter

Thanks to Bill Witherspoon for his effort to pull this newsletter together and to all whom submitted articles, we still need all states to participate but it still looks great. Here is the link to the newsletter, it has been posted temporarily at: <http://georgiarocks.us/SENAGT/Summer-Fall2012.pdf>. Later this week, it will move to the SENAGT web site at: <http://facstaff.gpc.edu/~pgore/nagt/Summer-Fall2012.pdf>.

Past Activities

Southeastern GSA 2012, Asheville, N.C. The Section held its annual business meeting Sunday April 1st. SENAGT co-sponsored several sessions including: Building the foundation for geoscience education a next step: working with expert earth science teachers to create more highly qualified earth science teachers and a poster session for outstanding field trip stops for teachers. There were many discussions and much enthusiasm during the Geoscience Education Session and at the annual business meeting.

Future Activities

National GSA in Charlotte, N.C. November 4-7, 2012. *Geosciences: Investing in the Future*. SENAGT will hold its annual business meeting and section elections. Bill Witherspoon conducted an online poll through which it was determined that member attendance would be higher at the National GSA meeting in Charlotte as opposed to the SEGSA meeting in San Juan, Puerto Rico March 20-21, 2013. Numerous members are presenting at the national meeting.

Financial report Sept 1, 2011 - Sept 1, 2012

Thanks to Pam Gore for keeping track of the financials:

Income

1/31/2012 Dues from national NAGT \$252.50 for 101 members
Interest income \$0.50

Expenditures

2/13/2012 Banquet ticket to GSTA for Georgia OEST Ann Lenderman where award was given. \$50.00
2/22/2012 SE-GSA Exhibit Booth rental for SE-NAGT by David Kopaska-Merkel \$150.00
5/17/2012 Postage (for mailing a plaque that had not arrived in time to present at banquet) \$6.17

Total in the account Sept 29, 2012 is \$4596.19.

SE NAGT State Representatives

Alabama

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

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

Florida

Jonathan R. Bryan
Earth Sciences
Okaloosa-Walton College
100 College Blvd.
Niceville, FL 32578
bryanj@owc.edu
850.729.5246

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
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.Bechteln@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

Pam Blanchard,
LSU Dept. of Educational
Theory, Policy, and
Practice
223-D Peabody Hall
Baton Rouge, LA 70803
PamB@lsu.edu
225.578.2297

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 2011-2012

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 announce that the NAGT Southwest Section enjoyed another quietly successful academic year. One of our goals is to make our activities more widely known in the region -- to be a little less quiet. Toward that end, and thanks mostly to our excellent Secretary, Ms Laura Lukes, NAGT-SW will have a significant presence at the upcoming National Science Teachers Association "area conference" in Phoenix (6-8 December 2012). Ms Lukes will engage participants in an hour-long presentation regarding the use of virtual field trips in the classroom, and she'll be sharing information about our section. In addition, several of our officers and members gave excellent talks at the annual Geological Society of America conference last year and plan to speak at this year's meeting as well.

Awards: At our annual business meeting, NAGT-SW had the great honor of giving Ms Bonnie Dodge the 2011 Outstanding Earth Science Teacher Award. We're collecting nominations for next year's award, and our OESTA Coordinator, Ms Kaatje Kraft, tells me we have some a hot prospect.

Fieldtrips: NAGT-SW held its annual spring field conference in June this year. Expectations were high following the massively successful gatherings of the previous years. For 2012, we headed to the Land of Enchantment -- and of course we were not disappointed. Ms Bonnie Dodge, the NAGT-SW 2011-2012 OESTA winner, went far beyond the call of duty and was instrumental in making this year's trip such a success. We visited some spectacular spots in an extraordinary, ambitious, two-part, four-day field trip in New Mexico, where the northwestern portion of the state was the focus of part one and the southeastern portion the focus of part two.

We had a wonderful start by going to El Malpais National Monument & National Conservation Area. Mr Paul Yoder served as our local expert; he's a ranger and interpreter for

the BLM -- and apparently the recipient of a NAGT student grant a few decades ago. His knowledge of the geology and cultural history of the region was impressive. The educational hikes around the BLM station and the lava tubes were fantastic, and we were especially grateful for the wisdom, humor, and pedagogical suggestions that he shared with us. Thanks to Ms Star Gonzales (of the Grants Chamber of Commerce), Ms Mary Savacheck, and the other fine folks at the mining museum in Grants, we enjoyed a special evening event there, learning a lot about the geology and history of the region, including a fascinating presentation by a retired miner who now volunteers at the museum. Mr Joe Lister, the long-time manager of an old uranium mine northwest of town, led us on an extensive tour of the facilities and shared many of the gritty details of mining life in addition to the technical aspects of mining.

Fortunately, we made time for the mineral museum at New Mexico Tech in Socorro, which had a fabulous collection of minerals and fossils, and where we discussed ideas for incorporating museum trips in our teaching. Ms Susan Welch, the director of the museum, kindly gave us some educational materials, such as a mineral "starter kit" for students, turquoise mineral samples, museum literature, and a few gorgeous photographs. We also had fun on our short cultural side excursions to Lincoln and Roswell. The visit to the world-famous caverns of Carlsbad National Park was of course one of the highlights of our trip, and the beauty and solitude of White Sands National Monument was a perfect way to wrap it up.

I'd like to note that a generous donation to NAGT-SW coordinated by Mr Dan Kump on behalf of the Homestake Mining Company of California helped to cover much of our expenses. Thus, we were able to keep participant costs low, despite the remarkable agenda. We're looking forward to the 2013 trip to Arizona (next in our clockwise rotation), and we've already begun to make plans.

Money: Our Treasurer, Dr Steve Semken, reports that NAGT-SW is in good financial standing (*i.e.*, we do not have a deficit). I believe we currently have over \$1000 in the bank.

Many more details of our activities can be found in the **NAGT-SW newsletter** that we publish. In summary, I'm happy to say that our little section continues to regain some of its past glory, and I believe we're generating more interest within the region. A major goal for the coming year is to increase awareness of our organization in the geoscience education community of the region, especially at the secondary level, and to capitalize on the excitement and enthusiasm that flows like low-viscosity lava 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

Geo2YC Division, c/o Carleton College B-SERC • One North College Street, • Northfield, MN 55057
<http://nagt.org/nagt/divisions/2yc/index.html> • 507-222-5634 • Fax 507-222-5175

Report to NAGT Executive Committee
Geo2YC Division
20 September 2012

Officers

President - David Voorhees
Waubonsee Community College
2011-2012

Vice President - Lynsey Lemay
Thomas Nelson Community College
2011-2012

Vice President – elect – Merry Wilson
Scottsdale Community College
2012-2013

Secretary/Treasurer - Allison Beauregard
Northwest Florida State College
2011-2014

Newsletter Editor - Callan Bentley
Northern Virginia Community College
2011-2014

Webmaster - Kaatje Kraft
Mesa Community College
2011-2014

Archivist - Suzanne Metlay
Front Range Community College
2011-2014

Liasons

American Geophysical Union – Katryn Wiese, City College of San Francisco
Geological Society of America

Geoscience Education Division – Jacquelyn Hams, Los Angeles Valley College
Committee on Education – Jacquelyn Hams, Los Angeles Valley College and Suki Smaglik,
Central Wyoming College

Northeast Section – Christine Witkowski, Middlesex Community College and Karen Kortz,
Community College of Rhode Island

Southeast Section - contacts available, no official liason yet
 North - Central Section – David Voorhees, Waubonsee Community College
 South Central Section - contacts available, no official liason yet
 Rocky Mountain Section - Suki Smaglik, Central Wyoming College
 Cordilleran Section - contacts available, no official liason yet
 National Association of Geoscience Teachers
 Executive Committee - Karen Kortz, Community College of Rhode Island
 Central - David Voorhees, Waubonsee Community College
 Eastern - Rich Gottfried, Frederick Community College and Joann Thissen, Nassau
 Community College
 Mid-Continent – contacts available, no official liason yet
 New England - Joann Thissen, Nassau Community College
 North Central - Suki Smaglik, Central Wyoming College
 Pacific Northwest - contacts available, no official liason yet
 Southeast - contacts available, no official liason yet
 Southwest - contacts available, no official liason yet
 Texas – Bob Blodgett, Austin Community College
 Far Western Section – Garry Hayes, Modesto Junior College

Past activities, 27 January to date

The Executive Board has had three teleconferences since our last report of 27 January, for a total of 4 in 2012, to date. In all of these, there are 3 questions that have driven our first year's activities.

- 1) Who are we? – Identifying our membership and characterizing the Geo2YC Community to determine how we can best serve.
 - a. We have published three outstanding newsletters (January, March and September), in which our concerns and practices are discussed. These are also a vehicle to promote the diversity and talent within our Division, and are available on our website
 - b. We have initiated an Outstanding Adjunct Faculty award. Details are in the latest newsletter (Vol I, Issue 3).
 - c. We have recently gained access to the AGI database of geoscience instructors at 2YC. It is currently being studied and evaluated for it's completeness, and compared to the database developed by Heather Macdonald. This database will be used to develop demographics of 2YC geoscience instructors, and to identify potential new members of the Division.
 - d. We are recruiting NAGT and GSA Sectional liaisons, who will assist in identifying members from those Sections and who will help promote Geo2YC. Confirmed liasons are listed above, and sections without confirmed liasons will be pursued in the coming year. Geo2YC had a presence at the following sectional meetings in the Spring of 2012: NAGT Eastern / GSA Northeastern, NAGT Far West, and NAST Central / GSA North Central.
 - e. We have redesigned the Division website, which now has links to division officers, newsletters, web resources, resources for 2YC faculty and the Division bylaws (<http://nagt.org/nagt/divisions/2yc/index.html>).
 - f. The Nominating Committee successfully solicited nominations, and coordinated an election for a new Vice President, Merry Wilson, to be installed at the 2012 Geological Society of America meeting in November. The current Vice-President, Lynsey LeMay, will assume the duties of President at the same meeting.
- 2) What do we want?
 - a. We have contacted the Presidents of 31 Affiliated Geoscience Organizations to begin partnering relationships. To date, only 2 organizations have replied. These relationships will ideally identify

opportunities that the Geo2YC membership may wish to participate in that were previously unknown, i.e. research and internship opportunities.

- 3) How do we get it? – increasing membership, developing relationships, serving the Geo2YC community
 - a. **A new promotional tri-fold has been designed and is currently in production.**
 - b. Geo2YC issues and concerns were represented to the IRIS Education and Public Outreach Standing Committee by the current President, David Voorhees. He has begun a three year membership in this committee.
 - c. We were a sponsor of the SAGE2YC workshop in Tacoma WA, *Preparing Students in Two-year Colleges for Geoscience Degrees and Careers* in July.

Activities planned for the upcoming year

1. A short teleconference is being scheduled in October to plan discussions at the Business meeting at GSA in November
2. Geo2YC issues and concerns will be represented at the NSF funded workshop *Supporting community college faculty across the STEM disciplines* at SERC in October 2012 by the current President.
3. Events planned for the 2012 Geological Society of America meeting in Charlotte
 - a. We will begin distributing the new tri-fold promoting the Division. It is hoped that we will also be able to distribute promotional ‘pencil scales’ at this meeting (see photo below). Design and production of the ‘pencil scales’ is subsidized and implemented by Little River Research and Design in Carbondale, IL.
 - b. The first business meeting of the Division is scheduled for Sunday, 4 November. Among the items in that first meeting will be a presentation of the 1st service recognition award to the outgoing President, which will hopefully be sponsored by Pearson Publishing.
 - c. We will be a Co-sponsor of Geoscience Educator’s Social Reception on Sunday, 4 November
 - d. We will be a sponsor of 3 sessions (T77) entitled *Innovations & Challenges in Non-Major Instruction in Two- and Four-Year colleges*. There are 2 oral sessions on Monday, 5 November and a poster session on Tuesday, 6 November for a total of 36 abstracts; 19 of the 39 authors are from 2YC.
 - e. We are a co-sponsor of a SAGE 2YC workshop entitled *Best Practices for Preparing Workforce and Transfer Students in Two-year Colleges for Geoscience Careers* on Saturday, 3 November.
4. We will be refining our web-based resources to coordinate with multiple Geo2YC sites (SERC, etc)
5. We are planning to implement and analyze a survey of 2YC geoscience instructors to begin a ‘Best Practices’ study. This survey is intended to be of as many Geo2YC instructors, not necessarily NAGT or Geo2YC members. We will build upon the work of the Best Practices Committee from the 2010 Workshop in VA and surveys administered by sister 2YC professional organizations.
6. We are planning to amend the Bylaws to include guidelines for the length of time of the elections to last 30 days. There is currently no stipulation on the length of time. Once the Executive Board approves the amendment, it will be sent to the Geo2YC members for voting through Allen Press
7. We hope to sponsor sessions in the 2012 AGU and Sectional meetings of GSA and NAGT. We will coordinate with liaisons to have a presence at these meetings

Financial report

Allison Beauregard has opened a checking account for the Division, and has been managing the account. The balance, as of 20 September 2012 was \$1752. As of 1 September 2012, there are 157 members in the Geo2YC Division.

Respectfully submitted
David Voorhees
Waubonsee Community College
Geo2YC Division President

Pencil scale (from <http://blogs.agu.org/mountainbeltway/page/2/>)



OEST COMMITTEE ANNUAL REPORT

October, 2012

Constitutionally, the OEST Committee consists of the 10 OEST section coordinators, the National Chair, and two at-large members. All sections, except Midcontinent, have functioning OEST coordinators, but no at-large members have been appointed to the Committee by the Executive Committee. The lack of at-large members has not been a problem, but the Executive Committee may choose to eliminate this requirement, or make appointments.

Classic Awards, in Sacramento California, continues to provide plaques in a timely fashion, at competitive prices. Plaque orders are often made much later than OEST winner selection. This can be confusing, at times. Some plaques have been given a year after winner selection. The plaque awarding process is not well done in some sections. To create maximum impact and notoriety for the winner, NAGT has always encouraged that the plaque be given in a public venue. Places like a school assembly, state teacher meetings, or NAGT section meetings are examples of good settings to make the award. Some winners have simply been mailed their plaque. I have encouraged the OEST section coordinators to make sure winners are recognized in a setting that will honor them, and bring attention to NAGT.

The biggest challenge has been to maintain an accurate list of section OEST coordinators. Some sections change this position often and fail to notify me, or National. In some sections, it is not clear who is responsible for the award. The Central Section seems to have no functioning OEST program. I will continue to strive to get awards from all the sections.

This is the second year that the deadline for selecting state and section winners has been uniformly established. I wrote all OEST coordinators and section officers, in late 2011 and again in early 2012, to remind them of the June 1 deadline. This change, mandated by the Executive Committee, has been very positive. Most sections have proceeded with the selection process earlier than in past years. The result has been that I and National have most section information earlier than in

the past. Having the information at the beginning of summer, means that notifications and publications can be done for fall.

One ongoing problem is the timing of the awards. Since awards are given at different times in different sections, it is important that award recipients are aware that the award benefits begin in January of the following year. For example, an OEST awardee notified by a NAGT section in Aug. 2012, will not receive benefits (money, free memberships, books etc.) from the program sponsors until Jan. of 2013.

There were major changes in the administration of the award, in 2011. The web pages for the program were all revamped, as was the OEST award manual. All nominations should now be submitted online, though several sections still rely on paper forms. I am responsible for communicating with the sections, through their OEST coordinators. I encourage them to promote and follow through on the OEST award program. I receive the names and addresses of winners, and provide the winner's plaque. Sections request the plaques when they are ready to make the award. National is responsible for making sure the acknowledgement and award benefits are distributed.

I want to especially thank Linda Goozen and John McDaris in our National Office for their help in redesigning virtually every form and getting them online. Linda was my constant aid in the process of contacting and recording the winners. Linda left National this summer and will be missed. John stepped into the breach and helped in the transition to some new staff members. Erica Zweifel has taken over Linda's duties and has been an able replacement. And, of course, our Executive Director, Cathy Manduca, has been a wise leader throughout. We have 6 section winners this year. The Texas section is to be commended for selecting an awardee two years in a row, after many years without a winner. The Far West, Central, North Central and Midcontinent sections did not name a winner. There were 12 state winners this year, matching the number of state winners last year.

I notified NAGT in June of this year, that the National Meeting in Charlotte completes the third year of my tenure. I am resigning to assume more duties in

the Far Western Section of NAGT. Filing of this report is my last duty as the National OEST Chair.

Respectfully Submitted,



Greg Wheeler, National OEST Chair.

LIST OF OEST WINNERS FOR 2012

SECTION WINNERS

Central = None

Southeastern = Kevin McMahon

Eastern= Edward Cohen

Southwest = None

Far West Section = None

Texas = Julie Archer

Midcontinent = None

New England = Raymond Pavlik

North Central = Paul Fechtmeister

Pacific Northwest = Marie Carver

STATE WINNERS

Alaska = Jen Bacus

Georgia = Kevin McMahon

Louisiana = Angie Plaisance

Maryland = Willy Herrera

New Jersey = Edward Cohen

New York = Jody Suprenant

North Carolina = Beverly Owens

Oregon = Marie Carver

South Carolina = Crystal Talley

Tennessee = Christopher Vanags

Virginia = Dorothy Edwards

West Virginia = Rick Sharpe

OESTA COMMITTEE - NAGT 2012 SECTION COORDINATORS

CENTRAL

Kate S. Pound

Earth and Atmospheric Sciences

St. Cloud State University

St. Cloud, MN 56301

(320) 308-4262

kpound@stcloudstate.edu

EASTERN SECTION

Steve Lindberg

Instructor, Geology Department

University of Pittsburgh at Johnstown

250 Krebs Hall

Johnstown PA, 15904

814-269-2944

slindber@pitt.edu

FAR WESTERN

Mark Boryta

Earth Sciences and Astronomy

Mt. San Antonio College

1100 North Grand Avenue

Walnut, CA 90789

[\(909\) 274-5611](tel:(909)274-5611)

MBoryta@MtSAC.edu

MIDCONTINENT

None

NEW ENGLAND

Richard (Dick) Little

6 Grand View Lane

Easthampton, MA 01027

(413) 527-8536 (Home)

rdlittle2000@aol.com

NORTH CENTRAL

Suzanne M. (Suki) Smaglik

Central Wyoming College

2660 Peck Ave., Riverton, WY, 82501

ssmaglik@cwcc.edu

PACIFIC NORTHWEST

Deron Carter

Linn-Benton Community College

6500 Pacific Blvd. SW

Albany, OR 97421

(541) 917-4745 Ext. 423

carterd@linnbenton.edu

SOUTHEASTERN

Randy Bechtel

North Carolina Geological Survey

Division of Land Resources, 1612MSC

Raleigh, NC 27699-1612

(919) 733-2423 ext. 414

Randy.Bechtel@ncdenr.gov

SOUTHWEST

Kaatje Kraft

Physical Science Dept.

Mesa Community College

1833 West Southern Avenue Mesa, AZ 85202

(480) 461-7054 vanderhoeven@mesacc.edu

TEXAS

Bruce E. Herbert

Department of Geology and Geophysics

309 Old Halbouty Building, 3115 TAMU

College Station, TX 77843-3115

979-845-2405 (Work) (979-845-6162 (Fax)

herbert@geo.tamu.edu

CHAIR

Greg Wheeler

Emeritus Professor of Geology

Geology Department

California State University, Sacramento

6000 J Street

Sacramento, CA, 956043

(916) 278-3919 (916) 278-4650(Fax)

wheelergr@csus.edu

1st Member-at-large –Vacant

2nd Member-at-large -Vacant

Annual report for Stout and Outstanding TA awards
October 26, 2012

Sadly Bob Christman, Chair of both the Stout and Outstanding TA Awards, passed away this year and we will need to pass the torch. This report was prepared by Erica Zweifel at NAGT on Bob's behalf.

Dorothy Stout NAGT Professional Development Grants

Eight applications were received and the following three were selected:

- Cari Gomes, Palomar Community College, San Marcos, CA
- James Johnson, Children's Center for Treatment and Education, Custer, PA
- Cassandra Strickland, Columbia Basin College, Pasco, WA

On August 31st 2012 the fund had 632.78 shares with a value of \$18,103.92

Scott Linneman has agreed to chair this committee in 2013

NAGT Outstanding Teacher Assistant Awards

Four nominations were made and four awards given to:

- Kelly Ferguson, California State University, Fullerton
- David Hahn, Clemson University
- Benjamin Sanderfoot, University of Wisconsin, Oshkosh
- Chelsa Mack, Western Washington University

NAGT/AWG Field Camp Scholarships 2012

Committee:

Eric Riggs, Texas A&M University, Chair

Andy Buddington, Spokane Community College

Laurel Goodell, Princeton University, AWG liaison

This year's field camp scholarship was highly competitive, more so than usual. We received a record total of 97 applications (not all of which were fully complete – more on this below), from which we were able to select 18 awardees, two of whom were awarded the AWG Crawford Field Camp Scholarship as the two top women in the competition. These two outstanding young women were also the top two candidates in the entire pool. The top ranked candidates were determined by adding the independent, rubric-based rankings from the three committee members, then discussing any ties. The 18 awardees were drawn from the top-ranked 25 candidates.

Demographically, the 2012 group is not particularly diverse ethnically, with only one minority student. However, 13 of the 18 awardees were women, which was unusual and noteworthy. The Executive Committee may wish to provide further guidance to the committee regarding minority candidates for future competitions.

2012 Awardees

Olivia Barbee, Eastern Illinois University (AWG Recipient)

Michael Buschette, University of Minnesota, Duluth

Na Hyung Choi, University of Georgia

Erin Donaghy, Bucknell University

Laura Donker, Grand Valley State University

Alexander Dragon, University of Pittsburgh

Johanna Eidmann, Williams College

Natalie Hollis, California State University, Fullerton

Sarah Huff, Florida State University

Cameron Hughes, University of Wisconsin, Eau Claire

Elizabeth Huss, State University of New York, Geneseo

Matthew Manor, University of Minnesota, Duluth

Kristen Schmeisser, University of Southern Indiana (AWG Recipient)

Jerome Varriale, Stony Brook University

Jessica Walter, Northwest Missouri State University

Kayleigh Wilson, Western Washington University

Molly Witter, The Pennsylvania State University

Jonathon Yates, Wheaton College

The process of compiling and receiving the application materials was smoother this year than last, but the committee was plagued by many incomplete applications. Roughly a third to a half of the applicants were disqualified (despite excellent academic records) by having missing letters of recommendation or missing essays or transcripts. The letters were the most common omission.

We would urge the NAGT central office to continue to look for ways to streamline this process and provide reminder e-mails to letter writers and candidates alike. We also need to emphasize clearly in the application and reminder e-mails that applications will be declined without review

in the event of an incomplete file. With applications approaching 100 candidates, there is simply no justification and no way for the committee to work through incomplete files.

The demand for this program continues to be very strong, and the candidate pool is absolutely outstanding. The committee is confident that given less constrained financial circumstances we could easily double the number of awardees and still maintain the expected high level of academic talent in the recipient pool. We are lucky as a field to have so much talent in the pipeline, and to be able to help those we can succeed.

It is our understanding that the current committee will continue to serve in 2013 should the Executive Committee wish it to do so, but after next year Riggs will have held this chair for three years and given the rhythm of rotation with the NAGT leadership, it may be appropriate to appoint a new chair to make sure perspectives and representation stay fresh and diverse.



ANNUAL REPORT 2012: NAGT – USGS COOPERATIVE SUMMER FIELD TRAINING PROGRAM

The 2012 Field Season for the NAGT-USGS Cooperative Summer Field Training Program marked the 47th year of what is now one of the longest running science internship programs in the nation. It also marked a return in number of interns to the program's average historic levels. 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/NAGTFlyer2012.pdf>)

This year, 101 students were nominated by field camp directors, and 79 of those students completed an application for the program. After receiving 71 proposals from USGS scientists, and after the proposal review panel met and matched students to projects, a total of 52 students were placed with USGS science projects. Since bringing new life back into this historic program 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 2012:

- 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 first 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 last year, 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.
- This year we had only 2 interns withdraw from the program after initially accepting their position with a project (in comparison to 7 in 2011). We did note that these students declined the internship offer in favor of securing a full-time, permanent position elsewhere. While we read that so many recent graduates are seeking employment, and that internships are still, unquestionably, the principal pathway into securing a position, with this select group at least – most of whom have, heretofore, went on to graduate school – we're seeing that a number are first opting for employment. This is undoubtedly linked to the current economic and job situation, and to certain aspects of the "is higher education worth it" discussion that is playing out in various sectors of the media.
- We continue to receive a growing number of proposals from our life scientists; they love the skill sets and field-based abilities of these students! This does, however, require us to do some awareness building on the attributes and benefits of engaging in the 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, especially from our energy and minerals group.
- 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 last year, we were able to identify 138 departments as having an active field camp program during the present, 2012 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 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 of September 20th, we have received 36 mentor evaluation responses, and 16 student evaluation responses. As there is much attention in the federal system placed on student program evaluations, we may want to consider personalizing the evaluation request to the student interns, and perhaps sending them out earlier and, if not responded to, several additional times. These evaluations, copies of information referenced in the bulleted items above, and detailed, multi-year comparative program information, will be provided in the full packets to those attending our Annual Joint NAGT/USGS Internship Meeting on Sunday, November 4th, from 2:00 - 4:00 PM, at the Westin Charlotte: Harris Room

9/20/2012

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

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

NAGT/USGS 2012 Cooperative Summer Field Training Program Internship Placements

Student Intern	Project Title	Researcher
Andrew Abbott MS Geology Georgia State University	Geochemical Processes Relating to Resource Extraction and Aquatic Health	Curtis Schreffler Harrisburg and Altoona, PA
Jodie Banks BS Geological Sciences University of Alaska	Vegetation Ecology Field Team Member	Geneva Chong Yellowstone, WY
Jaclyn Baughman Senior, Geology Colgate University	Characterizing Uranium Transport in a Heterogeneous Aquifer at a Former Mill Site	Gary Curtis Menlo Park, CA
Tyson Berndt BS Earth Sciences Montana State University	Geologic Mapping of Quarternary Volcaniclastic Deposits Downstream of Mount Hood, Oregon	Thomas Pierson/David Ramsey Vancouver, WA
Austin Blaser BS Geology Beloit College	Extending Global Models of Three- dimensional Subduction Zone Geometry	Gavin Hayes Golden, CO
Hannah Blatchford BS Geology University of Nebraska	Metal Contaminants in Stream and Riparian Food Webs at the Stibnite Mine Site	David Pilliod South Fork Salmon River, ID
Jane Block BS Earth and Atmospheric Sci. Purdue University	Global Rare Earth Element Reserves, Resources, Mine Production, Processing, and Material Flow	Daniel Cordier Reston, VA
Christina Boak BS Geology Georgia State University	Geochemistry of Fluids in Devonian Age Strata of the Appalachian Basin	Robert Burruss/Elisabeth Rowan Reston, VA

James Bridgeman BS Earth & Environmental Sci. Furman University	Geophysical Investigations Related to Geothermal, Mineral, and Water Resources, and to Natural Hazards	Jonathan Glen Menlo Park, CA
John Brockman BS Geology Miami University of Ohio	Geological and Geophysical Studies of the San Andreas Fault System	Shane Detweiler Menlo Park, CA
Ian Cappelle BS Geology University of Texas, El Paso	The Geologic Study of Active Faults	James Lienkemper Northern California
Justin Cowart BS Geophysics Southern Illinois University	Argon Geochronology of Alteration Associated with Ore Mineralization	Michael Cosca Denver, CO
David Cross Senior, Geology University of Kentucky	Benthic Nutrient Flux of Biologically Reactive Solutes with a Salt Pond Under Restoration	James Kuwabara Menlo Park, CA
Melissa Davidson BS Geology University of Houston	Geodetic Monitoring of Cascade Range Volcanoes at Yellowstone	Michael Lisowski Yellowstone, Long Valley, Cascade Range Volcanoes
Joshua Davis BS Geology University of Florida	Geologic Investigations of USGS-BP-3 Corehole, Great Sand Dunes National Park	Janet Slate Lakewood, CO
Timothy Fegel BS Geology Eastern Michigan University	High Alpine Water Quality under Changing Climate	Jill Baron Fort Collins, CO
Kiernan Folz Donahue BS Geology St. Norbert College	Sandbar Dynamics and Surface Water Quality Assessment in the Lower Platte River Basin	Jason Alexander Lincoln, NE
Bobbiejean Freeman BS Geology Louisiana State University	Water Productivity Mapping for Irrigated Crops in California using Farm-Level Assessments and Remote Sensing	Michael Marshall Central Valley, CA
Benjamin Giamalva BS Environmental Geology Fort Lewis College	Assessment of Klickitat River Adult Anadromous Fish Habitat Use via Radio Telemetry	Brady Allen Cook, WA
Daniel Grant BS Geology Illinois State University	Surface-water and Ground-water Networks	Gerard Butch Troy, NY
Peter Haproff BS Geological Sciences Univ. of CA, Santa Barbara	Earthquake Geology and the San Andreas Fault System	Carol Prentice Northern California
Dean Hazle BS Geology Hope College	Geochemical Processes and Pesticides in Vulnerable Aquifers	Curtis Schreffler Harrisburg, PA
Bryan Holmes	Seismic Monitoring of Cascade Range	Seth Moran

BS Earth & Space Sciences University of Washington	Volcanoes	Vancouver, WA
Alexis Iverson Senior, Geology University of Minnesota	Assessing Foodweb Resources for Juvenile Salmonids Utilizing the Lower Columbia River	Jennifer Morace Portland, OR
Stephanie James BS Geology Colorado State University	Mercury Bioaccumulation in Aquatic Ecosystems in the Western U.S.	Collin Eagles-Smith Corvallis, OR
Kevin Jones Senior, Geology Auburn University	Physical Science Technician	William D. Menzie Reston, VA
Eric Knoedler BS Geology University of Washington	Fate and Transport of Biodegrading Contaminants in Fractured Rock Aquifers	Thomas Imbrigiotta West Trenton, NJ
Andrew Kunz BS Geology Eastern Illinois University	Hydrologic Technician/Geologic Technician	Katherine Skalak Reston, VA
Amanda Lanning Senior, Geology Georgia State University	Cape Cod Toxic Substances Hydrology Field Research	Denis LeBlanc Northborough, MA
Brady Lubenow BS Earth Science Minnesota State College	Effects of Wildfire on Stream Discharge and Water Quality	Deborah Martin/Sheila Murphy Boulder, CO
Jason Lubmiewski BS Geology University at Buffalo, SUNY	Landslide Inventory Mapping in Support of a New National Landslide Database	Lynn Highland Golden, CO
Alexandra Macho BA Geology Univ. of Wisconsin, Madison	Hydrological Technician	Cliff Hupp Reston, VA
Graham Meese BS Environmental Geology Univ. of California, Santa Cruz	Hydrologic Influence on Tundra, Pond, and Lake Ecosystems Important to Avian Herbivores, Invertivores, and Piscivores	Thomas Fondell Anchorage, AK
Melanie Newton BS Geology Western Kentucky University	Melt and Fluid Inclusion Analysis in Resource Investigations	Albert Hofstra Denver, CO
Jason Palu BS Geology University of Nebraska, Lincoln	Noninvasive Grizzly Bear Population Monitoring	Katherine Kendall West Glacier, MT
Christopher Pederson BS Geological Engineering Colorado School of Mines	Applied Hydrogeophysics Research	John Lane Storrs, CT
Brad Pitcher	Quantifying Past and Present Output of	Jacob Lowenstern

BS Geology and Mathematics Central Washington University	Magmatic Volatiles ant the Yellowstone Volcanic System	Menlo Park, CA and Yellowstone
Kate Potter BS Geology and Religion Whitman College	Experimental Studies of Hazardous Hydrological Processes on Volcanoes	Joseph Walder Vancouver, WA
Buddy Price BS Geology Western Kentucky University	Hydrologist/Hydrologic Field Technician	Jamie Shanley Montpelier, VT
Joshua Quisenberry BS Geology Washington State University	Field Technician for Northern California Seismic Network	David Oppenheimer/David Croker Menlo Park, CA
Amy Radakovitch MS Geology St. Norbert College	Earthquake Hazards in the Central and Eastern U.S.	Walter Mooney Menlo Park, CA
Gregory Salwen BS Geological Sciences Binghamton University	Nisqually Delta Restoration Monitoring and Evaluation Program	Isa Woo/John Takekawa Olympia, WA
Sara Anne Schanz BS Geology Western Washington University	Fluvial Geomorphology and Quarternary Geology	Jim O'Connor Portland, OR
Heather Scott BS Geosciences Virginia Tech University	Modeling Preferential Flow Processes in the Unsaturated Zone	John Nimmo Menlo Park, CA
Evan Soderberg BS Geology University of Wyoming	Cascades Volcano Observatory Volcanology/ Petrology Intern	Carl Thornber Vancouver, WA
Sarah Survis BS Geology University of Wisconsin	Surficial Geologic Mapping in the Greater Platte River Basins, Central Great Plains	Margaret Berry Lakewood, CO
John Swartz BS Geology University of Pittsburgh	Biogeochemical Interactions at Environmental Interfaces: Yukon River Basin Project	Rob Striegl Boulder, CO
Michelle Taylor BS Geology University of Texas, Arlington	Hydrostratigraphy, Groundwater Occurrence, and Groundwater and Surface-water Quality in Oil and Gas Provinces Subject to Hydraulic Fracturing	Michael Sweat Cheyenne, WY
Caitlin Weaver BS Geology University of Nebraska, Lincoln	Quantifying Greenhouse Gases and Energy Exchanges, and Evapotranspiration over Forest, Grassland, and Urban Ecosystems	Dean Anderson Lakewood, CO
Sydney Wilson BS Environmental Geology Western Washington University	Biogeochemical Interactions at Environmental Interfaces: Carbon Storage and Fluxes in Freshwater Aquatic Ecosystems	Michelle Walvoord Lakewood, CO

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.