

An aerial mosaic of a river landscape, featuring a prominent blue river winding through a patchwork of green, brown, and red fields. The mosaic is composed of numerous small, irregular tiles, creating a textured, collage-like effect. The river flows from the top left towards the bottom right, with several meanders and bends. The surrounding land is divided into various agricultural plots, some appearing as dark green, others as reddish-brown, and some as lighter, more textured areas. The overall composition is dense and detailed, capturing the intricate patterns of the landscape.

*NAGT Annual
Report*

2008

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This cover image features the recent Arkansas River meander cutoff (man-made 1954) that comprises the Holla Bend National Wildlife Refuge southeast of Dardanelle, Arkansas, featured in Cathy Baker's geomorphology vignette. The image appears courtesy of the United States Department of Agriculture. All other images used in this report were taken from selected past JGE covers.



Officer's Reports

President's Annual Report

Eric Riggs

I think the Association is making excellent progress as a whole this year, and that we are on a track to even further professionalize and institutionalize our operations. These efforts include selection of a new editorial staff for JGE, a renewed presence within AGI, a greater presence on the Hill through our Congressional Science Visits, and overall financial health despite the downward pressure faced by all investors in the markets worldwide. My contributions to this effort since last October are as follows:

Events

- I visited Carleton College on January 24, 2008 to work directly with the Executive Director and staff to catch up on ongoing budget discussions, evaluate the new arrangements with AIP for membership services, and to make a final push on the transfer of Oakmark accounts to Cathy's office. We also held a conference call that day to further our discussions about our strategy work working with AGI in our negotiations for the general Memorandum of Understanding as well as specific agreements pertaining to the Living with Earth textbook.
- I made an in-person visit to AGI headquarters on February 13, 2008 and visited with Chris Keene, Ann Benbow and Linda Rowan. Issues of discussion with Chris included the AGI/NAGT Memorandum of Understanding on joint publishing projects. In addition, he and I discussed how AGI and NAGT could combine our interests in workforce development issues in the geosciences, especially now understanding how large a fraction of the NAGT membership is directly engaged in undergraduate education. Meetings with Ann Benbow focused on AGI education projects and other opportunities for NAGT members and the Association as a whole to be involved with curriculum development, testing and review, and implementation. She and I also discussed the possibility of AGI offering educational internships for graduate students in geoscience education that would compliment the existing policy internships offered by AGI. Linda Rowan and I met briefly to discuss policy related issues pertaining to the Government Affairs Policy Committee (GAPC) and the Congressional Visit Day. She is pleased to see NAGT's renewed and sustained interest in policy issues, especially relating to geoscience education.
- Government Affairs Policy Committee (GAPC), March 3, 2008. Attended the meeting at AGI headquarters as the NAGT representative to this committee. Issues discussed focused both on the Congressional Visits but also mainly on discussions of a combined set of position statements that all of the member societies of AGI can support, and a clearly articulated statements about the what the geosciences do for society that would be relevant and compelling to policy makers. This is being prepared in anticipation of the change in Presidential administrations at the Federal level – the AGI GAPC strategy is to lobby all the leading candidates with a unified position statement about the importance of continued geoscience funding and Federal investment, and then after the election to be in touch with transition teams. NAGT is one of the few member societies (along with AGU and GSA) who has articulated position statements on any issue, so it is likely that we can

contribute directly to the AGI statement as it develops. It was also announced at this meeting that AGI intends to sponsor a Geoscience-specific Congressional Visits Day on September 9-10, 2008. We should consider formally encouraging NAGT members to attend and visit their Congressional delegations on behalf of geoscience education.

- AAAS Science and Engineering Congressional Visit Day - March 4-5 – I attended as a representative of NAGT, and of Purdue. After briefings at AGU and AAAS, I visited with both of Indiana’s Senators (Bayh and Lugar) and the three Representatives with Purdue campuses (Buyer, Visclosky, and Donnelly). These visits were opportunities to discuss the mission and importance of NAGT and the geosciences with these Members, as well as to generally ask for their continued support for full and sustained funding of NSF, DoE Office of Science, NASA, and USGS – agencies with the most direct geoscience and geoscience education impact.
- Visits to various education and training personnel and divisions at Exxon-Mobil and Chevron in Houston, June 12-17. Discussed aspects of geoscience education, geocognition and workforce development related to NAGT efforts, sponsored programs, and members individual research and curriculum development efforts.
- Participated and contributed to the International Geoscience Organization meeting at Oslo, Norway, August 6-14. Contributed geoscience education and workforce talks at the meeting and assisted with IGEO activities via Mary Dowse associated with the 2010 South Africa IGEO (Johannesburg, South Africa in July/August 2010) Geoscience Education meeting – details to follow in IGEO bulletins as planning progresses.
- AGI Leadership Forum, Washington, DC, AGU Headquarters. Attended this forum as the NAGT representative and presented perspectives on workforce, curriculum, and systemic recruitment and education in the geosciences on behalf of the association and responded to other member societies’ simplistic solutions for geoscience recruitment and retention with the results and perspective tempered by years of experience offered by NAGT’s collective experience.
- Geoscience Congressional Visit Day – August 9-10 - After briefings at AGU, I visited with both of Indiana’s Senators (Bayh and Lugar) and two Representatives with Purdue campuses (Buyer and Visclosky). These visits were opportunities to discuss the mission and importance of NAGT and the geosciences with these Members, as well as to generally ask for their continued support for full and sustained funding of NSF, DoE Office of Science, NASA, and USGS – agencies with the most direct geoscience and geoscience education impact. All visits were conducted jointly with AGI staff – Senate with Pat Leahy and House with Corina Cerovski-Darriau.

Specific Actions

- Completed *JGE* Special Issue on Broadening Participation – this is now in print and has been delivered to NAGT members and to AGU for broader distribution.
- Oakmark transfer completed – all accounts are now accessible by the new Executive Director and staff, and can be managed fully by them and by our Treasurer in conjunction.
- NSF GeoVision first draft completed. In late February we had the final meetings and final writing of the new NSF Geosciences strategic planning and vision document. Geoscience education has more prominent role in this document than the previous document it supercedes. The document is currently in review by AC GEO, and will be released to the EAS, ATM, and OCE communities in town hall meetings at AGU, GSA, and AMS over the next year for community-wide input. I encourage NAGT members to watch for these meetings and to comment on the educational objectives and content.
- NAGT/AGI negotiations – helped Cathy in completing the MOU negotiations and in finalizing the text of the agreement for Living with Earth. These documents have been signed. Future status of publishing agreements is very much in play and open to negotiations.
- JGE Editor search – served as a search committee member. We have made a preliminary selection of a new Editorial team, and David Steer spearheading negotiations to finalize a contract that will follow a final proposal. Apparently this process has been largely finalized. Julie Libarkin and Joe Elkins will take over shortly from Carl Drummond.
- JGE Associate editor – I am now serving as an Associate Editor for JGE, and at this point have worked with three manuscripts, all of which are now through the review process.
- JGE author – my research group and I have contributed two papers to JGE in February and March, which are now out for review, have been accepted, revised, and resubmitted.
- Usual array of donor thanks letters, etc. – random (and fortunately not frequent) contact with various inquiries of NAGT.

Progress on Projects

- Living with Earth - Arranged for a NAGT-wide content and pedagogical review of the Prentice Hall/AGI/NAGT Environmental Geology textbook Living With Earth. NAGT members responded impressively to the call, and are now instrumental in improving this textbook. Both the publisher and AGI are very pleased with our response and with the quality of our member's contributions. I am also conducting a meta-review (helping to isolate key themes and objections from the totality of reviews) and am writing end-of-chapter questions for the textbook, which are also entering the review process. Currently I am up to Chapter 13 out of 15, finished soon.

- New Lab manual discussions – I have met twice in person and once on the phone with the Pearson-Prentice Hall Acquisitions Editor Dru Peters about a new lab manual project. She thinks that there is an opportunity to innovate once again, like the original NAGT/AGI lab manual project, but that we also have about 1-2 years to start this project. They have a product ready to market with the Living with Earth textbook, which can be replaced by our new lab manual as it is finalized. I have agreed to spearhead this project after the completion of work on Living with Earth. The new manual will be designed to work with any text, including those authored by our own members. McGraw-Hill has also shown interest in the project, indicating the need for some discussion of this project with the Executive Committee and required guidance for priorities and preferences with these projects.
- JGE-AIP discussions – Carl Drummond and I have continued conversations with AIP about taking over publishing operations and online review and distribution of JGE, and have reached a tentative stopping point where this discussion is ready to involve the vision and plans of the new JGE editorial team. I gather these discussions have gone forward with minimal input from me, and steadily increasing input from the new editors and our transition/search team. The immediate plans will be to move toward online submission and review with the start of the next editorial team's tenure, and to then consider gradually transitioning the *Journal* to more modern business models for academic journals, which may include password-protected online access and real-time publishing. Further discussions and actions of this ad hoc publishing committee should wait for the direct input of the new Editor(s).

Vice-President's Annual Report

David Steer

My activities this year on behalf of NAGT included attendance at the 2207 Annual Meeting in Denver and 2007 mid-year planning meeting in Evansville, IN. I also participated via email in various discussions related to NAGT business through the year and represented NAGT during a two-week a-synchronous on-line workshop related to geoscience literacy. Other activities in which I participated are listed below.

- JGE Editor Search: I was chair for the editor search committee for the *Journal of Geoscience Education*. I organized the efforts to place advertisements and encourage applications for the position. I reviewed applications, interviewed candidates and headed the discussions at the mid-year meeting regarding selection of the editor. I also prepared documents needed for formal agreements between NAGT and host institutions of future editors.
- Revising of NAGT Constitution and Bylaws: I prepared a second draft of the Constitution and Bylaws that were discussed at the mid-year meeting. Those documents were then revised and sent for legal review. The final documents were prepared to be sent to regional sections for comment prior to final vote by the Association.
- NAGT Representative to AGI: I represented NAGT at the AGI Member Society Meeting in Denver and reviewed transition documents prepared by AGI. I arranged for NAGT representation at the AGI mid-year meeting held in conjunction with AAPG.
- Cutting Edge Workshops: During this period I represented NAGT as a participant and presenter at the Cutting Edge "Teaching Introductory Geoscience Courses in the 21st Century" workshop held in Northfield, MN. I was also a workshop leader at the Cutting Edge "Preparing for an Academic Career in the Geosciences" workshop in Norman, OK.

Second Vice-President's Annual Report

Mike Taber

My NAGT activities this year included attendance at the October 2007 Geological Society Annual Meeting in Denver and mid-year planning meeting via telephone. In addition, I participated in various business related email and phone conversations through the year. Specific activities pertinent to NAGT business include:

NAGT Representative to GSA Joint Technical Planning Committee

I served as the NAGT representative to the Joint Technical Planning Committee for the 2008 Annual Meeting. My duties included reviewing all education-related session proposals in early December 2007 (with Elizabeth Shadman, representing GSA) and contacting session chairs regarding NAGT sponsorship. NAGT is jointly sponsoring ten sessions at the 2008 GSA meeting. In June 2008, I collaborated with Elizabeth Shadman to organize three general geoscience education sessions (two oral and one poster), in addition to supporting session chairs on organization of their respective geoscience education oral and poster sessions.

JGE Editor Search Committee

In 2008, I served on the JGE Search Committee with David Steer and Eric Riggs. We have several telecons and numerous email discussions regarding two major proposals. The committee put forth a recommendation to the executive committee for approval at the mid-year meeting.

Membership Committee

In winter 2008, I initiated the ad hoc Membership Committee discussion via email to determine the charge for this committee. On April 18, 2008, the committee held a telecon to discuss the role and charge of the membership committee. A report was made to the executive committee during the April 26, 2008 mid-year meeting. The report highlighted some key questions and a definitive charge:

- Who are NAGT members?
- Are we serving their needs and how might we better serve them?
- As we consider membership growth, NAGT should address the following questions: what should be the makeup of our membership?
- Which of the current membership groups should we target for growth?
- What services/programming should NAGT be ready to provide?

It was suggested that answers to these questions would also have an impact on new directions for JGE.

The Executive Committee set forth the charge to the membership committee: 1) analyze existing data and 2) determine what other types of data should be collected.

A report on the charge will be made at the 2008 GSA meeting in Houston.

Serving on the advisory board for the *On the Cutting Edge* project

I served as a member of the Cutting Edge Advisory Board, attending the board meeting on April 15 in Arlington, VA. Information regarding the advisory board and connection to broader NAGT interests can be found at:

<http://serc.carleton.edu/NAGTWorkshops/advisory.html>.

Past President's Report

Karen Havholm

I continued as chair of the Distinguished Speakers Program Committee. Please see separate committee report for program details.

- The structure of the Distinguished Speaker Committee should be changed. It currently involves Executive Committee members and some at-large members. The primary function of the committee, so far, has been to suggest potential speakers for the program. Suggestions for speakers can be canvassed through the listserves from officers. A committee made up of past speakers might be a better idea.
- I will continue as chair of this committee as I step down from the Executive Committee for now if the committee desires.

I need to be replaced in the following roles:

- Contact for the Geoscience Teachers in the Park program.
- Representative for GSA Associated Societies

My nine years on the Executive Committee have been a great experience and opportunity for me. Thank you.

Executive Director's Annual Report

Cathy Manduca

We have just completed one year with the Executive Director's office at SERC. So our primary accomplishment has been doing every thing once. As we look to the next year, we hope to learn how to do everything better.

Primary activities since April included:

- Finishing the audit, purchasing the insurance
- Working with Gene to set up the endowed and named funds and their management
- Supporting program implementation for Distinguished Speakers, Field Camp, OEST, USGS Internships and Awards.
- Completing the election of new officers
- Moving forward with the transition in editors for JGE and the establishment of new publishing services
- Organizing activities at GSA including booth, education reception, annual report and officers meetings.

Here is a listing of recent activities:

- Insurance coverage: After investigating needs and coverage options we have purchased a general liability policy and a Director's and Officer's insurance policy through a Minnesota based broker. The coverage includes risks associated with section-sponsored field trips. It was not possible to get this coverage with our previous liability policy. This past Spring, Kata McCarville who was planning a North Central Section field conference, requested a certificate of insurance for their conference. Our new broker was able to provide the certificate in short order. Moving forward it will be fairly simple to provide sections with certifications of insurance when the need arises.
- Election: The election for the slate of 2008-2009 NAGT officers was held in May 2008. This election, like the previous election, was managed by AIP. All members that have submitted an email address to the AIP database were invited to cast an online ballot. Members without an email address were sent a paper ballot. Members were given a link to a page on the NAGT website where they could view photos and bios of the candidates. A total of 276 members cast a ballot. The election results were posted on the NAGT website.

- Membership Management / AIP services:
 - Membership renewal requests for calendar year 2009 will be sent out in early October. At this point in the year we don't anticipate much if any change in the 2008 membership. The table below compares membership numbers between the previous year-ends and August 31, 2008 (we do not have reliable membership stats for years proceeding 2006).

Type of Member	# as of 12/31/2006	# as of 12/31/2007	# as of 8/31/2008
Regular	1389	1243	1122
K-12 Teacher	0	122	180
Student	88	112	131
Life Member	17	17	17
Retired	134	124	130
TOTAL	1628	1618	1580

- During the mid-year meeting there was discussion of adding a "Support NAGT Programs" page to the NAGT website. The website was recently updated with two new pages. The first page, "Contributing to NAGT," provides an overview and instructions for making donations. Members are directed to make online contributions via the AIP member service site. Non-members are directed to contact the Executive Director's office. The second page, "NAGT Restricted Funds" provides details on each of the restricted funds.
- Section affiliation issue: During the fall of 2007 a concern was raised from a section officer about NAGT members being affiliated with sections in which they do not reside. With assistance from AIP we analyzed the data and found that there were 87 members that were not affiliated with the section in which they reside. An email blast was sent to this list to inquire about their affiliation preferences. AIP updated their database to reflect the preferences of those that responded. Those that did not respond were assigned to the section in which they reside.
- New section listservs: We worked with AIP and relevant section officers to set up listservs for the New England, Central, and Pacific Northwest sections. The new listservs were made functional on August 25. It is more cost effective to support membership communications for these three sections with the new listservs than the previous practice of ad hoc targeted email blasts. We will monitor other sections use of ad hoc email blasts; if usage is sufficient we will extend this service to other sections too.

- Promotion/Advertising:
 - NAGT Award Programs flyer: We recently created a new color glossy awards program flyer. The flyer consolidates information that was previously printed on multiple flyers. The new flyer will be first distributed at NAGT's GSA booth display.
 - NAGT Booth
 - During FY08 NAGT set up a display booth at the following events
 - GSA: Denver, Colorado; October 26-29, 2007
 - AGU: San Francisco, Ca; Dec 10-14, 2007
 - NSTA: Boston, MA, March 27-30, 2008
 - GSA North-Central and South-Central Combined Meeting: Evansville, Indiana; April 24-25,
 - For the year ahead we have plans to set up the booth at GSA, AGU, and NSTA
- NAGT Founding Documents: Following the mid-year meeting we requested a legal review of the NAGT's founding documents and the proposed changes to the constitution and by-laws. The attorney provided feedback, which was passed onto David Steer.
- IRS reporting / compliance:
 - In January we issued 1099 forms to all individuals that received more than \$600 in income (excluding travel reimbursements) from NAGT during calendar year 2007.
 - We engaged the accounting firm Boyum and Barencheer (B & B) to assist us with filing NAGT's FY07 - 990 tax return. B & B was unable to complete the 990 until they had access to the audited financial statements. B & B submitted two IRS filing extension requests on NAGT's behalf while we were waiting for Larson Allen to complete the financial statements. We received these statements from Larson Allen in July and then passed them onto B & B. The first of the extension requests was approved; the second was denied. NAGT's 990 was completed and submitted to the IRS in July (after the 1st approved extended deadline, but before the 2nd requested, but denied deadline). In September we received a late filing penalty notice (\$1940) from the IRS. B & B is currently working with the IRS to resolve the penalty at their expense.
 - All individuals that made a donation to NAGT during the period of 9/1/07 to 5/30/2008 received an acknowledgement letter from Eric Riggs, which included at statement that "NAGT is recognized by the IRS as a 501(c)(3) tax-exempt organization and contributions are deductible for federal gift tax purposes."
 - We've worked with AIP to automatically inform future donors that their contributions are tax-deductible. To do so we've made revisions to the payment Thank-You page and transaction confirmation email message. Beginning in October 2008 both the Thank-You page and the email transaction confirmation statement will include the statement: "If you made a donation, please note that NAGT is recognized by the IRS as a 501(c)(3) tax-exempt organization and contributions are deductible for

federal gift tax purposes.” AIP does have the capacity to dynamically filter transactions that include donations so that donors would be sent to a special donation “Thank-You” page. However, they estimate that it would cost \$800 to develop this new feature. AIP does not have the capacity to dynamically filter the transaction confirmation email messages.

Secretary/Treasurer's Report

Gene Pearson

- Attended that Annual business meeting in Denver, Colorado. Recorded and posted minutes from the meeting.
- Participated in conference calls with Cathy Manduca regarding the 2008-09 Budget presented at the mid-year meeting.
- Compiled base-line data in to determine 2008-09 budget income which could be derived from Rosalsky, Horberg, and Field Scholarship Funds in accordance with NAGT Endowment Spending Policy.
- Developed Recommendations regarding endowed funds that were presented at the mid-year business meeting.
- Attended the mid-year business meeting in Evansville, Indiana. Recorded and posted minutes from the meeting.
- Participated in conference calls with Cathy Manduca, Bill Bruihler and the external auditor.
- Worked with Bill Bruihler on NAGT web page describing NAGT restricted funds.
- With the help of Bob Christman, compiled reports on the Rosalsky, Horberg, and Field Scholarship Endowed Funds.
- Developed draft award description and selection procedures for the Robert Christman Distinguished Service Award.
- In my role as liaison I attended the Far Western section meeting in San Marcos, California in March, 2008.

NAGT Field Course Scholarship Endowed Fund

Prior to April 2008, this fund was known as the Endowment Fund.

The NAGT Field Course Scholarship Endowed Fund was the inspiration of Tom Hendrix and Noel Potter. Tom Hendrix was the founder and first Director of the NAGT Scholarship Program. Noel Potter served as NAGT Vice President in 1991, NAGT President in 1992, and NAGT Past President in 1993. Both shared a passion for teaching in the field and saw directly how field studies impacted student understanding. In 1992 the NAGT Executive Committee asked them to make plans and implement fundraising for an endowed fund to support students attending field courses. Funds were solicited and the endowed fund was established in 1992.

At the 2008 mid-year meeting, the Executive Committee voted to change the name of the Endowed Fund to the *NAGT Field Course Scholarship Endowed Fund* and utilize the NAGT Endowment Policies to determine the annual income that could be utilized to support scholarships.

Date	Value
December 31, 1993	\$17,114.18 ¹
December 31, 1994	\$24,075.25 ¹
December 31, 1995	\$27,539.16 ¹
December 31, 1996	\$32,598.98 ¹
December 31, 1997	\$38,631.84 ¹
December 31, 1998	\$50,162.36 ¹
September 30, 1999	\$54,681.17 ¹
December 31, 2000	\$60,358.86 ¹
December 31, 2001	\$65,375.82 ¹
December 31, 2002	\$65,468.96 ¹
December 31, 2003	\$64,738.30 ¹
December 31, 2004	\$66,360.24 ¹
April 6, 2005	\$68,525.74 ¹
March 29, 2006	\$70,380.73 ²
August 31, 2006	\$ 80,898.99 ³
August 31, 2007	\$ 91,357.22 ⁴

¹Information from Bank Statements held by Bob Christman.

²Opening Oakmark Account Spreadsheet provided by Ian MacGregor.

³2006 NAGT Annual Report

⁴2007 NAGT Annual Report

From records provided by Bob Christman, it appears that during most of the 1990s the expenses for the NAGT summer field camp scholarship program were met by annual donations, including substantial donations [\$1000+] from Unocal, Chevron, Mobil, Phillips Petroleum, and Marathon Oil. Donations to the Endowment Fund and its earnings were allowed to accrue. The first use of endowment income to offset scholarship costs appears to have been in 2002.

Budget spread sheets indicate that between September 1, 2001 and August 31, 2002, the Endowment Fund received donations of \$1200.

Budget spread sheets indicate that between September 1, 2002 and August 31, 2003, the Endowment Fund received donations of \$1380.

The **2004 NAGT Annual Report** states that between September 1, 2003 and August 31, 2004, the Endowment Fund received donations of \$2577. Income of \$1000 was transferred to support the NAGT field camp scholarship program.

The **2005 NAGT Annual Report** states that between September 1, 2004 and August 31, 2005, the Endowment Fund received donations of \$2030. Income of \$1000 was transferred to support the NAGT field camp scholarship program.

The mid-year financial report for 2005-2006 prepared by Bob Christman states that between September 1, 2005 and February 28, 2006, the Endowment Fund received donations of \$1263.

Endowed Funds were transferred from the Whatcom Educational Credit Union in Bellingham, Washington to an account in Napa, California on April 6, 2005. At that time the Endowment Fund had a value of \$68,525.74

An Excel spreadsheet provided by Executive Director Ian MacGregor when endowed funds were invested in the Oakmark Equity Income Fund show that the opening balance of the Endowment Fund on March 29, 2006 was \$70,380.73. Prior to this time the Endowment Fund was invested in checking accounts, savings accounts and Certificates of Deposit.

An Excel Spreadsheet prepared by Ian MacGregor shows that between September 1, 2006 and August 31, 2007, the Endowment Fund received donations of \$750.00

The above information is summarized in the following Table.

	Donations	Income Used	Ending Balance
Jul 1, 95-Jun 30, 96			\$31,538.24
Jul 1, 96- Jun 30, 97	\$613.00		\$33,687.17
Jul 1, 97-Jun 30, 98	\$10,455.82		\$46,252.61
Jul 1, 98-Aug 31, 99			
Sep 1,99-Aug31,00			\$59,505.28
Sep 1, 00-Aug 31, 01	(?)		\$64,560.39
Sep 1, 01-Aug 31, 02	\$1200	\$3000	\$64,660.41
Sep 1, 02-Aug 31, 03	\$1380		
Sep 1, 03-Aug 31, 04	\$2577	\$4000	
Sep 1, 04-Aug 31, 05	\$2030	\$1646	\$68,539.82 ¹
Sep 1, 05-Aug 31, 06	\$1263 +\$1070 ²	(?)	\$80,898.99
Sep 1, 06-Aug 31 ,07	\$1630 ²	(?)	\$91,357.22
Sep 1, 07-Aug 31, 08			

¹April 2005 (?) ²Quickbooks Excel file provided by Bill Bruihler

Leland Horberg Memorial Fund

According to the *1988 NAGT Membership Directory*:

“The Leland Horberg Memorial Fund was established by friends of Professor Horberg at Augustana College at the time of his death in 1955. At that time Professor Horberg was serving as President of the Association of Geology Teachers. In the letter proposing the fund, it was suggested ‘that the contributions toward this fund received locally be turned over to the Association of Geology Teachers with the understanding that (1) the Association agree to administer this sum as a permanent fund, and (2) it undertake to enlarge the fund until eventually it may become a continuing source of income for the support of certain aspects of the Association’s principal endeavor, which is to foster improvement in the teaching of the earth sciences.’”

Financial records archived by Robert Christman indicate the following values for the Leland Horberg Memorial Fund.

1972	\$ 4,486
1982	\$11,413
1984	\$13,500
1988	\$19,661
1997	\$36,000 [Interest income of \$1500 accrued in 1997]

Although a complete accounting of income and donations is not available, it appears that from its establishment in 1955 donations and interest income were allowed to accumulate without any income transfers until 1998.

Beginning in 1998 the NAGT Executive Committee voted to use annual income from the fund to be transferred to the NAGT field camp scholarship program. The 1998 transfer was projected to be \$500.00.

Budget spread sheets indicate that between September 1, 2001 and August 31, 2002, the Horberg Fund received donations of \$110.

Budget spread sheets indicate that between September 1, 2002 and August 31, 2003, the Horberg Fund received donations of \$210.

The *2004 NAGT Annual Report* states that between September 1, 2003 and August 31, 2004, the Horberg Fund received donations of \$312. Income of \$500 was transferred to support the NAGT field camp scholarship program.

The *2005 NAGT Annual Report* states that between September 1, 2004 and August 31, 2005, the Horberg Fund received donations of \$150. Income of \$500 was transferred to support the NAGT field camp scholarship program.

The mid-year financial report for 2005-2006 prepared by Robert Christman states that between September 1, 2005 and February 28, 2006, the Horberg Fund received donations of \$150.

Endowed Funds were transferred from the Whatcom Educational Credit Union in Bellingham, Washington to an account in Napa, California on April 6, 2005. At that time the Horberg Fund had a value of \$42,216.92

A Excel spreadsheet provided by Executive Director Ian MacGregor when endowed funds were invested in the Oakmark Equity Income Fund show that the opening balance of the Horberg Fund on March 29, 2006 was \$44,386.80. Prior to this time the Horberg Fund was invested in checking accounts, savings accounts and Certificates of Deposit.

The **2006 NAGT Annual Report** indicated that the value of the Horberg Fund was \$50,300.78 on August 31, 2006

An Excel Spreadsheet prepared by Ian MacGregor shows that between September 1, 2006 and August 31, 2007, the Horberg Fund received donations of \$100.00. . The **2007 NAGT Annual Report** indicated that the value of the Horberg Fund was \$56,421.77 on August 31, 2007.

The above information is summarized in the following table.

	Donations	Income Used	Ending Balance
Jul 1, 95-Jun 30, 96	\$468		\$33,217.73
Jul 1, 96- Jun 30, 97	\$400		\$35,141.00
Jul 1, 97-Jun 30, 98	\$813		\$37,927.07
Jul 1, 98-Aug 31, 99	\$2115.49	\$6800	\$34,261.87
Sep 1,99-Aug31,00	(?)	\$1500 (?)	\$35,017.42
Sep 1, 00-Aug 31, 01	(?)	\$1000	\$37,414.43
Sep 1, 01-Aug 31, 02	\$110	\$1500	\$37,063.37
Sep 1, 02-Aug 31, 03	\$210	(?)	
Sep 1, 03-Aug 31, 04	\$312	\$500	
Sep 1, 04-Aug 31, 05	\$150	\$500	\$43,225.80 ¹
Sep 1, 05-Aug 31, 06	\$150 ²	(?)	\$50,300.78
Sep 1, 06-Aug 31 ,07	\$100 ²	(?)	\$56,421.77
Sep 1, 07-Aug 31, 08			

¹April 2005 (?) ²Quickbooks Excel file provided by Bill Bruihler

Maurice B. Rosalsky Fund

Maurice B. Rosalsky served as NAGT Secretary from 1965 until 1970.

According to the *1988 NAGT Membership Directory*:

“The Rosalsky Fund, established in 1970, was created to pay tribute to Maurice B. Rosalsky for his many years of dedication and service to the Association (sixteen years as National Secretary and Secretary-Treasurer of the Eastern Section) and to promote many of the ideas he had to strengthen the Association’s annual meeting. Interest from the Fund is used to pay honoraria to invited speakers and to cover the expenses of officers attending the national meeting.”

Records obtained from Robert Christman, indicate that on December 31, 1982 the Rosalsky Fund had a balance of \$2570 having accumulated donations of \$144.00 and interest of \$775.00 during 1982. On September 1, 1986 the Fund had a balance of \$4394.00. Between September 1, 1985 and September 1, 198, the fund received donations of \$174.00 and earned interest of \$214.00. On August 31, 1989 the Rosalsky Fund had a balance of \$5807.24. Between September 1, 1988 and August 31, 1989 the fund received donations of \$370 and interest income of \$303.34. On September 1 1990 the fund balance was \$6492.03. Between September 1, 1989 and August 31, 1990 the fund received donations of 237.50 and earned interest of \$447.29.

In 1994 Robert Christman, NAGT Executive Director, wrote to Mrs. M. B. Rosalsky and asked if the income from the Rosalsky Fund could be used to provide a Rosalsky Field Camp scholarship. According to Robert Christman, she agreed to the change. The letter to Mrs. Rosalsky, dated October 4, 1994, includes the following statements.

“The Rosalsky Fund with NAGT has a balance of about \$9400. This year we had contributions of \$169 and interest of \$239.”

“Specifically, I suggest that we establish a ‘Rosalsky Summer Field Camp Scholarship’ to be offered each year to an outstanding undergraduate to help defray the costs of a field camp. This is a program which NAGT has conducted for many years. Last year NAGT awarded 54 students with \$300 grants.”

In a November 1, 2006 email to Karen Halvholm, Robert Christman provided historical information on the funding of the NAGT field camp scholarship program. The email indicates that in both 1997 and 1998, \$500 of the income from the Rosalsky fund was used to fund a field camp scholarship.

Donation records provided by Robert Christman indicate that in 2000 the Rosalsky Fund received two donations valued at \$150.

Budget spread sheets indicate that between September 1, 2001 and August 31, 2002, the Rosalsky Fund received donations of \$118.

Budget spread sheets indicate that between September 1, 2002 and August 31, 2003, the Rosalsky Fund received donations of \$40.

The **2004 NAGT Annual Report** states that between September 1, 2003 and August 31, 2004, the Rosalsky Fund received donations of \$47. Income of \$250 was transferred to support the NAGT field camp scholarship program.

The **2005 NAGT Annual Report** states that between September 1, 2004 and August 31, 2005, the Rosalsky Fund received donations of \$80. Income of \$200 was transferred to support the NAGT field camp scholarship program.

The mid-year financial report for 2005-2006 prepared by Robert Christman states that between September 1, 2005 and February 28, 2006, the Rosalsky Fund received donations of \$40.

Endowed Funds were transferred from the Whatcom Educational Credit Union in Bellingham, Washington to an account in Napa, California on April 6, 2005. At that time the Rosalsky Fund had a value of \$12,303.83

A Excel spreadsheet provided by Executive Director Ian MacGregor when endowed funds were invested in the Oakmark Equity Income Fund show that the opening balance of the Rosalsky Fund on March 29, 2006 was \$12,636.90. Prior to this time the Rosalsky Fund was invested in checking accounts, savings accounts and Certificates of Deposit.

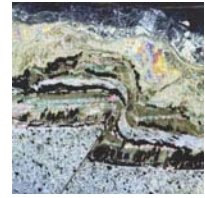
An Excel Spreadsheet prepared by Ian MacGregor shows that between September 1, 2005 and August 31, 2006, the Rosalsky Fund received \$40.00 in contributions. The **2006 NAGT Annual Report** indicated that the value of the Rosalsky Fund was \$14,317.59 on August 31, 2006

An Excel Spreadsheet prepared by Ian MacGregor shows that between September 1, 2006 and August 31, 2007, the Rosalsky Fund received no contributions. The **2007 NAGT Annual Report** indicated that the value of the Rosalsky Fund was \$56,421.77 on August 31, 2007.

The above information is summarized in the following table.

	Donations	Income Used	Ending Balance
Jan 1,81-Dec 31, 82	\$144		\$2,570
Sep 1, 85-Aug 31,86	\$174		\$4,394
Sep 1, 88-Aug 31, 89	\$370		\$5,807.24
Sep 1, 89-Aug 31,90	\$237		\$6,492.03
Jul 1, 95-Jun 30, 96	\$138		\$10,264.68
Jul 1, 96- Jun 30, 97	\$190	\$500 (?)	\$10,844.40
Jul 1, 97-Jun 30, 98	\$328	\$500	\$11,257.05
Jul 1, 98-Aug 31, 99	\$543	\$500	\$11,266.91
Sep 1,99-Aug31,00	(?)	\$500	\$11,620.50
Sep 1, 00-Aug 31, 01	(?)	\$500	\$12,351.18
Sep 1, 01-Aug 31, 02	\$118	\$500	\$12,313.40
Sep 1, 02-Aug 31, 03	\$40	(?)	
Sep 1, 03-Aug 31, 04	\$47	\$250	
Sep 1, 04-Aug 31, 05	\$80	\$250	\$12,306.36 ¹
Sep 1, 05-Aug 31, 06	\$40 ²	(?)	\$14,317.59
Sep 1, 06-Aug 31 ,07	\$0 ²	(?)	\$16,030.00
Sep 1, 07-Aug 31, 08			

¹April 2005 (?) ²Quickbooks Excel file provided by Bill Bruhler



Councilor's Reports

Councilor's Report

Pamela Gore

- **GSA Annual Meeting 2007 (Denver, CO)**
 - Attended the NAGT Executive Committee and Council Meetings
 - Attended the NAGT/GSA Education Division Luncheon
- **Georgia Science Teachers Association Meeting Feb 2008 (Athens, GA)**
 - Gave three presentations and promoted NAGT membership.
 - Had a follow up meeting with about 12 high school teachers who had participated in a summer 2007 Earth Systems workshop.
 - Presented GA NAGT Outstanding Earth Science Teacher Award to Bill Witherspoon at the GSTA Banquet.
- **SE-GSA meeting 2008 (Charlotte, NC)**
 - Co-chaired a session on technology in earth science education
 - Promoted NAGT membership
 - Presented a paper
 - Attended SE-NAGT Business Meeting and took minutes
- Taught an earth science workshop to 75 DeKalb County sixth grade Earth Science teachers 8/7/08 and worked with Bill Witherspoon to publicize NAGT
- Wrote a book review of the Roadside Geology of Florida and submitted it to the SE-NAGT Newsletter.

SE-Section Liaison

Continued as liaison with Southeastern Section

Also serve as Secretary-Treasurer for SE-NAGT.

Councilor's Report

Laura Guertin

- Attended the NAGT Executive Committee and Councilor meeting at GSA Annual Meeting in Denver (2007).
- Assisted in leading a session at the CUR/NAGT workshop at GSA Denver
- Session co-organizer of session for GSA in Denver, "Early Undergraduate Research Experiences" with Jill Singer and Linda Reinen. Session co-sponsored by NAGT, CUR, GSA-Ed.
- Presented two posters in NAGT-sponsored sessions at GSA in Denver
- Will be lead author on two presentations and co-author on four posters at GSA in Houston at education sessions

Other activities

- Taught sessions for NSF GEOTeach grant through University of New Hampshire, summer 2007-ongoing. Continuing to mentor graduate students as they work as scientific content experts for middle school and high school teachers. Currently working on a GEOTeach workshop to be offered at Penn State in summer of 2009.
- Had nine students present classroom-based inquiry projects at NCUR and the Eastern Colleges Sigma Xi conference.
- Pedagogical publications for 2007-2008 include:
 - Guertin, L.A. Pre-recorded online audio review sessions. *College Teaching* (accepted 11/13/2007).
 - Guertin, L.A., Zappe, S.E., & Kim, H. (2007). Just-in-Time Teaching (JiTT) exercises to engage students in an introductory-level dinosaur course. *Journal of Science Education and Technology*, 16: 507-514.
 - Guertin, L.A., & Sealy, A. (2007). The challenges of establishing an environmental science essay contest for girls. *Journal of the Pennsylvania Academy of Science*, 81(1): 35-38. (student co-author)
 - Guertin, L.A., Bodek, M.J., Zappe, S.E., & Kim, H. (2007). Questioning the student use of and desire for lecture podcasts. *Journal of Online Learning and Teaching*, 3(2): 133-141.
 - Guertin, L.A. (2007). Preparing students for research at the introductory-level with technology. In: K.K. Karukstis & T.E. Elgren (Eds.), *Developing & Sustaining a Research-Supportive Curriculum: A Compendium of Successful Practices*. United States: Council on Undergraduate Research, 112-113.

Councilor's Report

Jeff Knott

Meetings:

- October 2007 – Annual Executive Committee meeting at Geological Society of America, Denver, CO
- April 2008 – Mid-year Executive Committee meeting and North-Central NAGT section meeting at North Central GSA meeting, Evansville, IN

Activities

- Served as a reviewer for the NAGT-supported environmental geology textbook.
- Contacted Ralph Dawes of the Pacific Northwest section to inform him that I was the NAGT committee member assigned to that particular section.
- Met with representatives of a MERLOT program to initiate a program of videotaping Earth science instructors.

Councilor's Report

Richard Yuretich

- 1. Field Course Scholarships.** I continued the task of the chairing the committee to award field scholarships with the other two members, Pranoti Asher (Georgia Southern University) and Laurel Goodell (Princeton University).
See the Awards section for further details.
- 2. NSTA Meeting, Boston, March 26-29.** I coordinated the booth staffing at NSTA in Boston in place of Cathy, who was battling the flu! Things generally went smoothly, especially with the able assistance of John Wagner, Bruce Rueger, Kate Rosock, Tamara Ledley, and Carl Katsu, who shared in the booth-sitting. John Wagner was especially helpful during the set-up and knock-down of the display. We shared space with other Geoscience organizations under the umbrella of CESE (Coalition for Earth Science Education). We had a great deal of foot traffic at the booth. The biggest attraction was the stereo anaglyph maps of the eastern United States. We handed out all that we had; I think that there were 1200 in the boxes that Paul Morin shipped to us. Bob Christman also sent 10 boxes of JGE back issues. We managed to give away 7 of those boxes, returning only the complete 2007 sets that we were to give away to new members. We only had one new member actually sign up at the meeting, although dozens of membership applications were taken. There were a number of college-level teachers present at the meeting who were interested in joining, but many people did not think that lugging around 5 issues of JGE was particularly appealing! We could save some shipping costs in the future by curtailing this offer. I offered a short course on March 29 about "Mapping with GPS" based upon our NASA STEM Earth Central project (that also has NAGT sponsorship), for which 20 participants completed a scaled map of Coley Square in Boston.
- 3. Liaison with New England Section.** Following on the heels of the successful independent NE-NAGT meeting last October, the executive board of the section has decided that next year's meeting will be included as part of the NEIGC (New England Intercollegiate Geological Congress) to be held in Westfield, Massachusetts. This is a central location that is accessible to all members, and good field trips to local geology are easily to organize. There is a fully functioning executive committee for the New England section.
- 4. STEM Earth Central.** This is an NAGT-sponsored project funded by NASA. We are in the final year of this 3-year effort, and our last cohort of teachers is completing the program begun with the 2007 summer institute. We are primarily in dissemination mode, which included the short course at NSTA as outlined above. Further information is available at <http://umassk12.net/earth/>.

5. Other activities.

- Attended the Council Meeting at Denver GSA
- Helped set up the NAGT booth at the meeting.
- Served as co-convener with Heather Macdonald and Richelle Allan-King for the NSF/NAGT “Early Career Workshop” June 14-20 in Williamsburg.

6. Resignation! I resigned my position as Councilor as of June 1, 2008 to assume a position as a Program Director in NSF Earth Sciences (Geomorphology & Land-Use Dynamics). I will also no longer be able to serve on the Field Scholarship Committee, so the Council will need to appoint a new chair. It has been a pleasure working with all of you during the past four years.

Councilor's Report

Linda Selvig

This past year I volunteered to be the contact person between NAGT and NSTA. I participated in an on-line seminar for the NSTA Chapter and Associated Groups. The first session involved Financing and the second one I was unable to participate in. I personally felt that the Financing seminar was not something that applied to NAGT.

I was not able to attend the NSTA National conference in Boston this year.

I was unable to attend the mid-year conference because of medical reasons.

No communication has been made with the North Central Division president Sheila Roberts s_roberts@umwestern.edu about this summer's regional conference, scheduled to be held in the Black Hills.

I would like to take this time to thank the NAGT for the opportunity to participate as a board member and to be a part of this great organization.



Section Reports

Far West Section Annual Report

Brigitte Dillet

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Membership

266

2008 Conferences

Spring 2008 conference: Palomar College, MiraCosta College and CSU San Marcos, March 14-16.

Report by Patty Deen

Palomar College, MiraCosta College and CSU San Marcos jointly hosted the FWS 2008 Spring Field Conference in northern San Diego County from Friday March 14 to Sunday, March 16. There were 132 participants, including 40 teachers from the local area, and 9 students. A grant from the North County Higher Education Alliance (NCHEA) helped to underwrite costs associated with the conference. A field trip guidebook, "Geoscience Investigations in Northern San Diego County and Beyond: Student-Directed Explorations," was edited by Al Trujillo from Palomar College. The organizing team, led by Patty Deen from Palomar College, included faculty from all 3 host institutions, all of whom played a critical role in the success of this conference.

The conference began on Friday evening with an open house in the new Natural Sciences building at Palomar College. The highlight of the vendor and display area was the table set up by the Gemological Society of America which brought gem samples to ogle at. Dr. Keith Meldahl from Mira Costa College was the featured evening speaker. His talk, based on his recently published book "Hard Road West: History and Geology along the Gold Rush Trail" was given to a packed room of 80 participants and was well-received.

Saturday morning began with a bang when Al Trujillo from Palomar College demonstrated how to create a geyser with liquid nitrogen and a trash can full of water. Participants then joined one of five field trips. Each of the trips was inspired, designed and led by instructors from the host colleges to

showcase field studies that they incorporate into their courses. Highlights of the Saturday trips are summarized below. The featured speaker on Saturday evening was Dr. Pat Abbott from San Diego State University. He highlighted features of San Diego geology, including the puzzle of the infamous “Poway Clast” and its origins in northern Mexico.

Sunday activities included three ½-day field trips and a workshop in Geographic Information Systems hosted by Wing Cheung, GIS instructor at Palomar College. Field trippers braved the rain to investigate the volcanic geology of Calavera Hills (led by John Turbeville) and geologic hazards associated with the San Onofre nuclear power station (led by Keith Meldahl and Chris Metzler). Al Trujillo reported clearing skies for the trip to the Oceanview Tourmaline Mine near Pala where participants sifted through piles of material from a recently discovered high-quality vein. After successful collecting, participants enjoyed a BBQ lunch. Joe Holliday reported “The tourmaline mine thing was one of the best things I have ever done with NAGT. The BBQ was ingenious.”

Overall, the Spring 2008 Conference was a great success. The grant from NCHEA helped a large number of local teachers to participate. We hope that these teachers will use the resources provided in their classrooms and that these teachers will join future NAGT conferences. Thanks to all the field trip leaders and organizers for helping to bring the geosciences of San Diego County to NAGT.

Saturday Trips and Highlights:

- Exploration of the Mesozoic rocks and tectonics along the crest of the Peninsular Ranges in eastern San Diego County. The trip was led by Dr. Mike Walawender from San Diego State University and Dr. Steve Spear from Palomar College. Leader report: “The trip got off to a classic geology field trip start by being pulled over by the Highway Patrol. After a brief pause, with no consequences, we continued to the Julian area to view classic western Peninsular Ranges batholithic rocks and then two very cold and wind-blown stops to view the topographic manifestations of the Elsinore and related faults, the granitic gneisses of the Cuyamaca shear zone and a nice landslide. At each stop, participants collected excellent samples of igneous and metamorphic rocks.”
- Coastal geology and erosion hazards in Northern San Diego County. The trip was led by Dr. Keith Meldahl, Dr. Chris Metzler, and John Turbeville, all faculties at Mira Costa College. Leader report: “We began at Torrey Pines State Beach where we were introduced to the stratigraphy which we would be seeing on the remainder of the trip. We proceeded north to “Dog Beach” in Del Mar where we walked north to Fletcher Cove (Solana Beach). This section of beach contains many stratigraphic and structural features as well as excellent examples of the human consequences and mitigation attempts of sea cliff retreat in the Solana Beach area. Our final stop was at a recent small slide to the north of the Beacon’s Beach access point. We were met by a consulting geological engineer for the City of Encinitas (Jim Knowlton) where he discussed the current plans for coastal projects within the city, particularly the Beacon’s Beach access project.”
- Survey of coastal lagoons in Northern San Diego County with a focus on natural coastal processes, human use and restoration. The trip was led by Patty Deen and Dr. Lisa Yon from Palomar College. Leader report: “Our group was treated to a beautiful day at the coast. We made stops at four lagoons to see the spectrum of lagoon use and restoration. We were joined by guest experts who provided insight into ongoing scientific investigations and legal issues

involved in planning for restoration and mitigation. Highlights included a tour of the Hubbs-Seaworld Marine Fish Hatchery and the Poseidon demonstration desalination plant.”

- Visit to the Ocean Institute in Dana Point, including a 2-hour oceanographic cruise and exploration of the local tide pools and geology. The trip leaders were Patty Anderson from Mira Costa College and Rick Baker from the Ocean Institute. Leader report: “We started the day at OI aboard ship. We took a core sample which the teachers washed and looked at the findings under the microscopes set up on the back deck. Some also participated in using the ROV with a camera. The teachers watched on the big screen and drove the ROV with a joy stick. One chased a fish which kept looking back at the camera. Back on shore, Rick led a tour of the facilities. Two of the teachers are now planning their wedding at OI—one aboard the Tall ship Pilgrim of Newport. Others are planning on taking their classes to OI.”

Survey of the geographic landscapes and fire ecology en route to Palomar Observatory on Palomar Mountain. Trip leaders were Cathy Jain and Doug Key from Palomar College. Leader report: “We enjoyed some gorgeous views, including one from the catwalk on the Palomar Observatory some 50 feet off the ground. On the way up the mountain we were pleased to see lots of vegetation recovery from the 2007 fires. Despite temperatures in the 30's, we ventured into the forest for an invigorating hike, and capped off the trip with a thoroughly enjoyable behind-the-scenes tour of the 200-inch Hale telescope.”

Fall 2008 conference: CSU Chico, California, September 26-28.

At the time of this report, the Fall 2008 conference has not taken place yet. The conference is to be hosted by California State University, Chico. It will include a Friday gathering, 3 field trips on Saturday, and 2 field trips and 2 workshops on Sunday.

Saturday field trips are planned as follows:

- Geology of the Lassen Volcanic Center
Michael Clynne, and Patrick Muffler, United States Geological Survey
- Living on the Edge: Geology and Paleontology of the Great Valley Group
Todd Greene, Kat Ketterer, and Russell Shapiro, California State University
- Geology of the Northern Sierra Nevada along HW 70
Colin Ferguson, Butte College and Terry Kato, California State University, Chico

Sunday field trips and activities are planned as follows:

- A Glimpse Into The Post Plutonic History Of The Sierra Nevada Mountains
Victor Fisher, California State University, Chico
- A geologic tour of Big Chico Creek Canyon – The Miocene Lovejoy Basalt and Pliocene volcanoclastic Tuscan Formation
Todd Greene and Rachel Teasdale
- Teaching College-Level Earth Science to High-School Students
Wendy Van Norden, Harvard-Westlake School, North Hollywood, CA
- Integrating GIS and GoogleEarth into course: Not as difficult as you think!
Russell Shapiro and Todd Greene, California State University, Chico

Many thanks to all the Spring 08 and Fall 08 conference organizers.

Future Conferences

Spring 2009-Mt San Antonio College

Fall 2009-Hancock College

Spring 2010-no host yet

Spring 2011-El Camino College, Venue – Mojave Desert, California

Scholarships

The Far Western Section provides three \$1000 scholarships, which are funded by interest generated from our CD, sales of publications (both online and during conferences) as well as the profit generated by our conferences. The 3 awardees for 2008 are:

- Coralie Wilhite
Graduate program at the University of Nevada at Reno.
After graduating from CSU-Sacramento, Coralie Wilhite worked for a geotechnical company before she enrolled at UNR. She will be studying a large landslide in an isolated part of northeastern Nevada that might have been earthquake triggered.
- Rebecca Tsang
Accepted into the graduate program at San Diego State University
Rebecca Tsang has been attending CSU-Sacramento. She has attended field camp with Indiana University this summer.
- Crystal Hootman
Will be attending CSU-Sacramento to work on her Masters Degree
Crystal Hootman will be studying magma mixing processes at Chaos Crags at Lassen Volcanic National Park. She has been involved with NAGT, and has attended frequent FWS conferences.

OEST Award

The Far Western Section selected Anna Foutz as the Outstanding Earth Science Teacher for the year 2008. Ms. Foutz was recognized for her work with special needs and at-risk students, the creative approach she takes to classroom learning methods, and the variety of ways that she motivates her students, as well as her service with the District Earth Science Committee at John W. North High School.

Guidebooks

Our publications are available for purchase and a list can be found on the section website at <http://nagt-fws.org>. Our sales occur at conferences and by mail-in requests.

Financial Report as of 3/12/08

CASH ON HAND (August 17/07)			\$15,647.37
INCOME			
Interest	15.81		
Publications		552.93	
Publications (Fall Conf)		318.00	886.74
EXPENSES			
Moore's Award Center		52.50	
Honorarium (Fall Conf)		50.00	
Student Expenses (Fall Conf)		250.00	
President's Expense		1000.00	
State Bd. Of Equalization (sales tax)		102.00	
State Farm Insurance		500.00	
Postage (Paul Troop)		66.35	2020.85
CASH ON HAND (March 12, 2008)			\$14,513.26
CERTIFICATE OF DEPOSIT (January 18/08)			\$26,022.33

New England Section
2008 ANNUAL REPORT
filed by Christine Witkowski

Membership: 111

A. Section Officers

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Newsletter Editor

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B. Report on Activities in the Past Year

It was exciting to see the way geoscience educators came together at our Annual Meeting and Conference “Sharing Best Practices in Geoscience Education” on October 13, 2007. The New England Section usually hosts a field trip and business meeting in conjunction with the New England Intercollegiate Geological Conference (NEIGC), but NEIGC was held in far-away Quebec in 2007, so the New England Section decided to hold its own conference.

Geoscience educators from all grade levels and educational settings participated in a morning program of workshops, a keynote luncheon by Dr. Sharon Locke on “Geoscience Teaching in a Cyber-Enabled World”, and four afternoon field trips. The conference was small, but the 45 participants were enthusiastic, with interaction between faculty from colleges, universities, community colleges, middle and high schools, and informal educators (10!). *See attached program.*

The business meeting held during lunch was kept as short as possible, with a brief financial report given by Richard Little, who also called for nominations and votes for the officers, including our new 2nd Vice President, Karen Kortz. The OESTA winner,

David Eatough of Revere High School, was announced, although the recipient was not in attendance. David has a long history of science education excellence and has received numerous awards.

C. Planned Activities

The 2008 Annual Meeting will once again be held in conjunction with NEIGC. Section officers and members felt that although the 2007 conference was successful and well received, that the partnership with NEIGC reaches a larger audience and adds a “generalist” field trip to their slate of field trips.

Richard Little, Tarin Weiss, and Mike Young will lead a “Geology Cross Section Tour of the Connecticut Valley on Saturday, October 11. A short Annual Meeting will follow with financial report, elections, and a program by Richard Little on “The Iceland-Connecticut Valley Connection.

It was agreed that a special registration rate would be offered to those who attend only the NAGT field trip and meeting, rather than paying the full NEIGC registration fee, to make the field trip affordable for all who are interested.

The 2008 OESTA goes to Gregg Wachtelhausen, an 8th grade science teacher at Hingham Middle School in Massachusetts.

D. Financial Report

Treasurer Julia Daly reports that the New England Section remains financial viable with a total of \$5693.04 in the bank. The 2007 Annual Meeting and Conference produced a net profit of \$33. There was no other activity reported for 2007-08.



*National Association of Geoscience Teachers - New England Section
Annual Meeting & Conference:*

'Sharing Best Practices in Geoscience Teaching'

Saturday, October 13, 2007

at Manchester Community College, Manchester, CT

*Co-sponsored by Manchester Community College Science Department
& Dinosaur State Park, Rocky Hill, CT*

***Join us at the height of Fall foliage for a day
sharing ideas about geoscience teaching
and exploring the geology of Connecticut!***

Who Should Attend?

- Earth Science Teachers K-12 (CEUs Available!)
- Community College Faculty
- College & University Faculty
- Adjunct Faculty
- Other Earth Science Educators

General Schedule:

8:30 - 9:00 am Coffee & Registration
9:00 - 10:15 am Workshop Session I
10:15 - 10:30 am Refreshment Break
10:30 - 11:45 am Workshop Session II
11:45 - 1:15 pm KEYNOTE Luncheon & Business Meeting
1:15 - 5:00 pm Field Trips

Go to <http://www.nagt.org/nagt/organization/new-england/index.html>
or e-mail Christine.Witkowski@po.state.ct.us for program and registration information.

Celebrate Earth Science Week October 14 -20

FREE EARTH SCIENCE WEEK TOOLKITS

from the American Geological Institute to first 50 registrants!

CONFERENCE PROGRAM

KEYNOTE

Geoscience Teaching in a Cyber-Enabled World: Bridging Tradition and Technology

Today's students live in a technologically rich environment, where exploration of the natural world is available not only through field-based learning but also at the click of a mouse. The boundaries defining the traditional classroom are becoming diffuse, as virtual collaboratories connect students on opposite sides of the world and digital libraries open possibilities for voluntary and self-directed learning. The full potential of cyberinfrastructure for learning has yet to be realized. As practitioners firmly grounded in field- and laboratory-based teaching, geoscience educators are now exploring how to merge the best practices of traditional instruction with the possibilities of the digital age. This presentation will examine some current trends in geoscience education and the partnerships necessary to enhance geoscience teaching and learning in the classroom of the future.

Dr. Sharon Locke is currently a program director in the Division of Research on Learning at the National Science Foundation (NSF), where she has responsibilities in programs that support the development of innovative resources, tools, and models to improve science teaching and learning for all students. Prior to her appointment at NSF, she co-directed three programs to support increased participation of underrepresented students in science, including the NSF Eastern Regional Alliance for Science, Technology, Engineering, and Mathematics (EAST) and the NASA-sponsored Access Earth, both based at the University of Southern Maine. From 2003-2006 she was named a Distinguished Speaker of the National Association of Geoscience Teachers based on her work on improving the accessibility of the geosciences. Dr. Locke holds a Ph.D. in geology from the University of Minnesota.

Concurrent Morning Workshops

Attendees may choose to attend any 2 workshops in Session 1 and Session 2, or a half-day workshop spanning both sessions.

Session 1 - 10:00 to 10:15 am

S1A. Planet Earth: Hands-On Earth Science Online

Richard Yuretich, University of Massachusetts, Amherst, MA, yuretich@geo.umass.edu

This session will give an overview of a fully online Earth System Science course designed for the professional development of inservice and pre-service teachers. The course is constructed on a hands-on collaborative framework and we will discuss how this can be accomplished in an online environment. This session will be helpful for college faculty considering taking their courses online, as well as earth science teachers interested in an introduction to on-line professional development opportunities.

S1B. Reducing Misconceptions in Introductory Geology by Using Lecture Tutorials

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

Daniel P. Murray, University of Rhode Island, Kingston, RI, dpmurray@uri.edu

Jessica J. Smay, San Jose City College, San Jose, CA, jessica.smay@sjcc.edu

We will present Lecture Tutorials and other classroom techniques designed to make lectures more interactive demonstrate how to use them in the classroom and provide classroom-ready examples. Lecture Tutorials are short interactive worksheets students complete in class after a brief lecture. They are designed to increase learning and decrease misconceptions.

Session 2 - 10:30 to 11:45 am

S2A. Dinosaurs, Dunes, & Drifting Continents: The Geology of the Connecticut River Valley

Richard D. Little, Greenfield Community College, Greenfield, MA, rdlittle2000@aol.com

This fast-paced, sometimes humorous Powerpoint presentation will take the audience through 500 million years of geologic time in the Connecticut Valley region, the best place in the world to study geology. See and handle rare Jurassic armored mud balls plus books and videos by the presenter will be available for purchase.

S2B. Modeling of the Seafloor: 3-D Model Enhanced By Technology

Thomas Vaughn, Northeastern University, Boston, MA tvaughn17@comcast.net

Understanding of seafloor features can be enhanced by the construction of a 3-D model of the ocean floor supplemented by free streaming video. This workshop builds on the teaching of plate tectonics and relates the marine province of the seafloor to the overarching plate tectonic theory. Participants create a model of the seafloor consisting of 8 transits across a theoretical ocean basin. The video places the knowledge gained into the underpinnings of the Theory of Plate Tectonics.

Half Day Workshops - 9:00 to 11:45 am

S3. Interpreting Connecticut's Sedimentary Rocks from Core Samples

Peter A. Drzewiecki, Eastern Connecticut State University, Willimantic, CT, drzewieckip@easternct.edu

Michael Wizevich, Central Connecticut State University, New Britain, CT, wizevichmic@ccsu.edu

This workshop is designed to provide an understanding of how geologists interpret sedimentary rocks buried in the subsurface through the examination of rock cores. Participants will develop interpretation skills by studying actual cores from Connecticut, and be provided with ways of integrating core descriptions and data into their classes. *An associated field trip will be offered in the afternoon for participants who would like to see Jurassic rocks of Connecticut in outcrops.*

S4. How Old Is It? Using Authentic Microfossil Data from Deep-Sea Cores

Mark Leckie, University of Massachusetts, Amherst, MA, mleckie@geo.umass.edu

How do geoscientists determine the age of deep-sea sediment cores? Geoscientists depend on reliable age assignments in order to calibrate paleomagnetic records, calculate rates of sediment accumulation, and correlate from one location to another. Authentic microfossil data are used to demonstrate biostratigraphic principles, explore plankton evolution, and investigate geologic history.

S5. All Shook Up: Teaching About Earthquakes

Anita Honkonen, 2005 Outstanding Earth Science Teacher (OESTA)

Lincoln Sudbury Regional High School, Sudbury, MA, anita_honkonen@lsrhs.net

When an earthquake happens how well do our structures withstand the added stress placed on them? This hands-on workshop will examine forces that a building is subjected to during an earthquake and how to improve its design. Participants will also locate an epicenter using damage patterns and explore various earthquake activities on the Internet, with a focus on earthquakes in New England.

Afternoon Field Trips

1:15 - 5:00 pm (*approximately!*) Participants will leave from MCC by carpool/van after the keynote luncheon and may either return to MCC or depart from the final stop.

F1. Jurassic Park IV: A Field Trip into Connecticut's Geological Past

Michael Wizevich, Central Connecticut State University, New Britain, CT, wizevichmic@ccsu.edu
Peter A. Drzewiecki, Eastern Connecticut State University, Willimantic, CT, drzewieckip@easternct.edu

This field trip will examine the Jurassic history of faulting, volcanic eruptions, and fluctuating climate recorded in the sedimentary and igneous rocks of central Connecticut. These geological events will be placed in the overall context of Connecticut geological history. Participants will examine several rock outcrops to collect and interpret data, and discuss ways to integrate these data into their classes. *The field trip complements a morning workshop "Interpreting Connecticut's Sedimentary Rocks from Core Samples."*

F2. Step Onto the Early Jurassic: In the Footsteps of Dinosaurs

Christine Witkowski, Dinosaur State Park, Rocky Hill, CT, Christine.Witkowski@po.state.ct.us
Margaret Enkler, Dinosaur State Park, Rocky Hill, CT, Margaret.Enkler@po.state.ct.us

Step onto one of the largest dinosaur trackways in North America at Dinosaur State Park. Study the dinosaur tracks up close, examine outcrops of sedimentary and igneous rocks typical of Central Connecticut bedrock, and discuss evidence for climate cycles and geologic processes during the Early Jurassic when the tracks were made. *Limited to 25 participants.*

F3. The Shaping of Connecticut: Bedrock, Glaciers & Coastal Processes

Ralph Lewis, University of Connecticut, Avery Point, CT, Ralph.S.Lewis@uconn.edu

Examine evidence of the geologic forces that have shaped Connecticut through time in a field trip to Rocky Neck State Park. Igneous and metamorphic rock outcrops at Rocky Neck illustrate tectonic processes that assembled Connecticut. Abundant glacial features and deposits show how glaciation modified Connecticut's landscape, and the low-energy shoreline provides an opportunity to examine ongoing coastal processes in a unique setting.

F4. Lithologies and structures in the Bolton syncline, Bolton Notch area, Connecticut

Mark D. Busa, Middlesex Community College, Middletown, CT, MBusa@mxcc.comnet.edu

Rocks in the Bolton syncline are beautifully exposed in the cliffs at Bolton Notch. The rocks are classic amphibolite-grade metasediments, and contain folds, lineations, and pegmatite boudins. Large staurolite porphyroblasts are locally abundant and their orientations and inclusion trails are used to understand the tectonometamorphic setting of the syncline.

LOCATION & LODGING

Manchester Community College is conveniently located near I-84, I-91, and I-384 in central Connecticut. The main entrance to the College is on Great Path. Attendees should park in Parking Lot C and enter through the Tower entrance. A registration table will be located in the rotunda of the Tower.

A block of rooms has been reserved at **Clarion Suites (191 Spencer Street, Manchester, CT)** for a special conference rate of \$105 per night, including buffet breakfast. Call the local number **(860) 643-5811** and mention "NAGT" to receive this rate. *Located less than 5 minutes from Manchester Community College.*

REGISTRATION FORM

National Association of Geoscience Teachers - New England Section
Annual Meeting & Conference "Sharing Best Practices in Geoscience Teaching"
October 13, 2007 at Manchester Community College, Manchester, CT

Name _____

Affiliation _____

Mailing Address _____

E-mail Address _____

Phone _____

Preferred Name on Badge _____

Morning Workshop Choices

9:00-10:15 am ___ S1A ___ S1B
10:15 -11:45 am ___ S2A ___ S2B
 --OR--
9:00-11:45 am ___ S3 ___ S4 ___ S5

Afternoon Field Trip Choices

Trips will be filled in order of receipt of paid registration.

First Choice ___ F1 ___ F2 ___ F3 ___ F4
Second Choice ___ F1 ___ F2 ___ F3 ___ F4

If you are arriving on Friday, would you be interested in an informal gathering in the evening?

If there is enough interest, we will organize an event for Friday night.

___ Yes, definitely ___ Maybe ___ No, thanks

Registration Fees:

Full Day Conference (workshops, luncheon, field trip)	\$40	\$ _____
Morning Workshops Only	\$15	\$ _____
Morning Workshops & Luncheon Only	\$30	\$ _____
Luncheon & Field Trip Only	\$25	\$ _____
Field Trip Only	\$10	\$ _____
Total Enclosed		\$ _____

Please make checks payable to "NAGT – New England Section"

Mail form & payment to:

Christine Witkowski
Dinosaur State Park
400 West Street
Rocky Hill, CT 06067
(860) 529-5816

Christine.Witkowski@po.state.ct.us

Mail by October 1, 2007

Pacific Northwest Section Annual Report

Ralph Dawes

2007-08 Section Officers

Executive Office

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Spokane Community College

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Cheney, WA 99004
Jennifer.Thomson@mail.ewu.edu

Annual Field Trip Guidebooks

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

For these expert field trip guides from our annual meetings, each of which features several education-oriented geology field trips; annotated list and order form online at <http://www.nagt.org/nagt/organization/northwest/guidebooks.html>

Awards

OEST Awards Coordinator

Deron Carter
Linn-Benton Community College
6500 Pacific Blvd. SW
Albany, Oregon 97321
(541) 917-4745423
carterd@linnbenton.edu

Reports

a. Annual Business Meeting

The annual business meeting of the Pacific Northwest Section NAGT was held June 19 in conjunction with the Pacific Northwest Section annual meeting at Yakima Valley College in Yakima, Washington.

OEST winners were announced. Nominations for next year are due by January to Deron Carter, our OEST awards coordinator, (541) 917-4745423, carterd@linnbenton.edu.

b. 2007-08OEST Awards

- Section Winner:
 - o Jeff Hashimoto, Ellensburg High School, Ellensburg, WA
- State Winners:
 - o Alaska: Adam Low, Cordova High School
 - o Idaho: Robert Walker, Fairmont Junior High, Boise
 - o Oregon: Jamie Ramage, Linus Pauling Middle School, Corvallis

Annual Activities/Functions

a. Events Sponsored by Pacific Northwest Section NAGT 2007-08

- NAGT Pacific Northwest Section Annual Meeting at Yakima Valley College in Yakima, Washington, June 17-20, 2008. Fifty (50) people attended.
 - Field Trips:
 - June 17, Eastern Washington-Yakima Fold Belt structures field trip led by Dr. Steve Reidel, Washington State University (WSU), and Newell Campbell (professor emeritus, YVCC). Revealing exposures and insights to the Yakima Fold Belt, based on career-long careers spent mapping and researching the Columbia River Basalts and related geology of the Columbia Plateau and its margins. Anybody driving past Priest Rapids Dam needs to know about the amazing exposures of thrust-fault roll-over anticlines, blatantly exposed in the basalt flows directly across the river from the highway.
 - June 18, South Cascades (of Washington state) field trip led by Pat Pringle (Centralia College) and Dr. Paul Hammond (emeritus professor Portland State University). There it was – accreted terrane rocks from an island arc and/or subduction zone setting, possibly representative of the basement of the greater Washington State south Cascades but covered elsewhere by young volcanic rocks. Also what may be the most spatially elongate andesite flow known in the world, and a probable source area of volcanic and volcanoclastic detritus of the Miocene Ellensburg Formation, which interfingers with the Columbia River Basalts.
 - June 20, Terroir of the Yakima Valley field trip led by Dr. Alan Busacca (professor emeritus, Washington State University), Dave Norman (Assistant State Geologist, Washington Division of Geology and Earth Resources), and Dr. Wade Wolfe (co-owner, Thurston Wolfe Winery). The wine country of the Columbia Plateau is based on its geology, especially on the landscapes and sediments produced by the great Pleistocene glacier-related outburst floods that deluged the area. The combination of the resulting complex array of soils, sunny climate, and expert winemaking produce results that are adding to the agricultural economy and tourism of the inland northwest, as seen on this field trip.
 - Conference:
 - June 19, Yakima Valley Community College, Presentation talks included the NSF-funded Earth Science literacy initiative, learning outcomes assessment as a tool for reforming college geoscience education, teaching geoscience as an employee of a cruise ship company (“Cruise Geology”), college geoscientists working with grade 8-12 science teachers as part of EarthScope, and other topics. College student posters were presented during breaks, including a research project on geologic structures in a mylonite zone.
 - Business meeting followed presentations.

b. Planned 2009 activities

- Annual meeting, June 23-26 (or else June 16-19), University of British Columbia, Vancouver, BC, Canada

Pacific Northwest Section Treasurer's Report
Robert Christman, recorded by Ralph Dawes

Fiscal Year 2008-08	Income	Disbursements	Balance
Balance on hand 6/30/07			\$4,954.02
Income (surplus) from 2007 annual meeting	\$600.00		
Income from membership dues	\$312.50		
Income from guidebook sales	\$116.00		
Interest dividends	\$97.76		
Newsletter costs		\$412	
Balance on hand 6/30/08			\$5,668.28

Southwest Section Annual Report

Merry Wilson

Officers

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Vice-President

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Treasurer

Steve Semken
Arizona State University
Tempe, Arizona USA 85287-1404
semken@asu.edu

Treasurer's Report

Submitted by Steve Semken

FUNDS ON HAND (1 September 2007)	\$1,686.49
INCOME	
Interest	\$0.97
EXPENSES	\$0.00
FUNDS ON HAND (31 August 2008)	\$1,687.46

OEST Award Recipient

Suzi Shoemaker

Meetings and Activities

Participation at the section level continues to be minimal, and it has been unsatisfying to put together field trips that only officers and friends attend. Therefore, the Southwest section is attempting to heading in a new direction. The president, vice-president, and other community educators are meeting in October 2008 to make an action plan for increasing the presence and visibility of Earth Science education at the K-12 levels within local and state-wide agencies.



*Communications,
Publications, &
Membership Service
Reports*

Journal of Geoscience Education Annual Report

Carl Drummond

Summary of Volume 56

	Total Pages	No of Articles	Pages of Articles	No of Columns	Pages of Columns	Pages of Business	No of Ads	Pages of Ads
No 1	108	8	90	0	0	15	3	3
No 2	88	12	74	0	0	14	0	0
No 3	96	10	90	0	0	4	2	2
No 4	80	8	65	1	7	8	0	0
No 5		10						
Total								

Summary of Submissions

Year	Total Submitted	Rejected	Published	Accepted	In Progress	Acc Rt
2008	67	13	14	6	34	N/A
2007	90	25	55	9	1	*72%
2006	94	48	44	2		49%
2005	143	58	81	4		59%
2004	104	50	54			51%
2003	91	27	64			70%
2002	101	38	63			62%
2001	66	26	40			61%
2000	89	25	64			72%
Total	845	310	479	21	35	
Rate		37%	57%	2%	4%	

* Calculated based on number of editorial decisions made to date. Elevated due to diversity special issue.

Year to Date Submissions (10 September)

Year	Submitted
2008	67
2007	57
2006	77
2005	86

Thank you for the opportunity to serve as editor.

NAGTNews Annual Report

Keith A. McKain

This is the eighth year that NAGTNews has been in existence. I believe the ability of NAGTNews to keep members informed has been established and hope I have been able to use this tool adequately. With the delivery system through AIP - it is now possible to develop an issue in a matter of days (for editing and set-up) and a matter of minutes to send the issue to all members with Email. I have sent only ____ issues since the 2007 GSA Meeting (see below). I ask that all members of the Executive Committee keep sending any news to me via Email and I will arrange it for the next issue.

The ongoing questions about how often and when issues should be sent have yet to be resolved – but the current pattern of waiting until 5 or so articles are available – or there is a call from any of the officers for an issue seems to work – with a minimum of problems. Occasionally an announcement is missed because deadlines have passed and I regret this happening – but feel keeping NAGTNews as an informative E-Newsletter that does not overload already filled Email boxes is important. Is this process satisfactory with the members of the Executive Committee? If not - what should be done differently?

I am willing to continue as the E-news Editor and am available for this service to the organization at the whim of the Executive Committee. I am also willing to give up the position should anyone else wish to take over. I apologize for missing so many meetings of the Executive Committee but see no way around this problem due to continuing personal health issues. Any direction or suggestions will be welcomed. I still question whether I need to be at every meeting – but will attempt to attend as long as that is the consensus of opinion.

Keith A. McKain

Date_Sent	Subject	Total Recipients
12/1/2007 13:46	NAGTNews - Vol. 7 - Number 1 - December 2007	1429
12/3/2007 20:04	NAGTNews - Vol. 7 – Special Edition – Editor Search	1429
1/26/2008 12:47	NAGTNews - Vol. 7 – Number 2 – January 2008	1554
3/18/2008 18:40	NAGTNews – Vol. 7 – Number 3 – March 2008	
4/23/2008 11:40	NAGTNews – Vol. 7 – Special Edition – April 2008	1376
4/30/2008 00:23	NAGTNews – Vol 7 – Number 4 – April 2008	1384
8/8/2008 18:49	NAGTNews – Vol 7 – Number 5 – August 2008	1456

NAGT Website

John McDaris

We continue to see growth in website use and, over the past year, there have been a number of improvements to the NAGT Website. Almost all of the Awards programs have online application/nomination forms. The new News Upload form makes it possible for anyone to create a news item for display on the National website or a (hosted) Section website. In addition, updated program information for the 08-09 program year has been released on the website. For specific accomplishments, see below.

Accomplishments

Since the Mid-Year Meeting in March 2008:

- Past Presidents and Officers compiled for the organization from 1952 to present. The former web page listing Past Presidents has been expanded to include all officers.
- Online form for USGS/NAGT Internship Program evaluation completed and implemented with participants
- News Upload Form implemented to facilitate community posting of news items. News syndication to and from Section websites hosted on SERC servers was also implemented. Central Section is currently the only section taking advantage of this service.
- Online application for the Outstanding TA Award implemented.
- Posted information on the 08-09 Distinguished Speaker Series.
- Information posted about NAGT's Restricted Funds and how to make contributions to them.
- May issue of JGE posted (abstracts only), May 2007 issue posted with full-text articles.
- Information about contributing to NAGT posted on the website, along with information about the various funds that members can donate funds to and what those funds would be used for.

Website Use

In 2007, we had 117,345 visits from 67,793 users of which 9,884 were repeat users. For 2008, as of September 22, the site has seen 128,763 visits from 59,246 users of which 11,564 were repeat users.

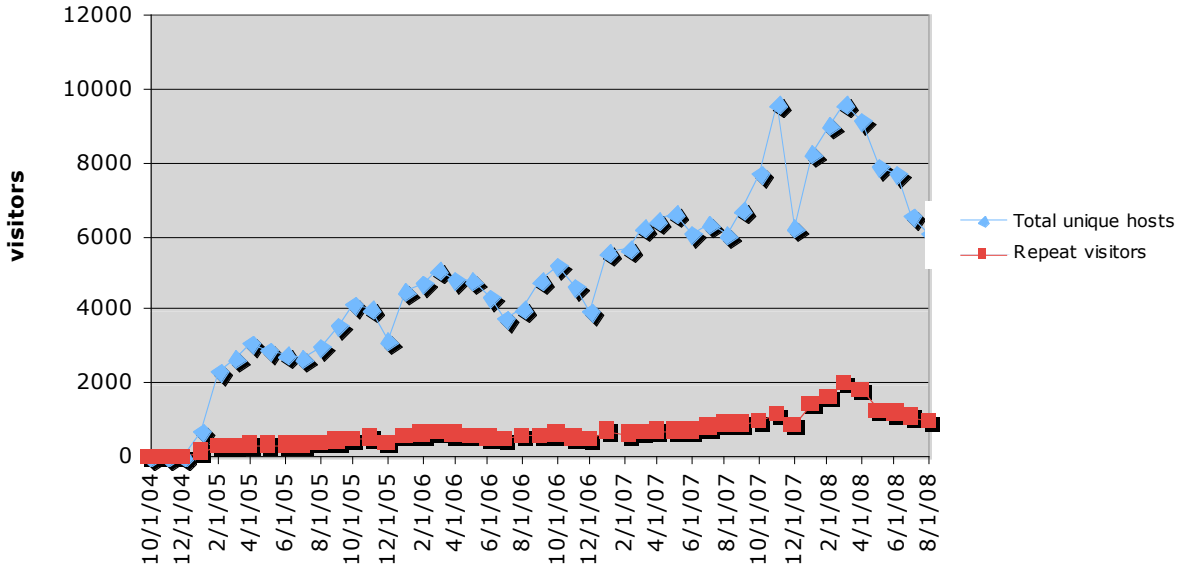
In August 2008, the site received 11,504 visits from 6,061 users. Of these visits, 1,243 visitors saw 3 or more pages on the site, and approximately 951 visitors returned to the site within the month. (For comparison, in August 2007, the site received 9,654 visits from 6,013 users, with 1,141 visiting 3 or more pages and 905 returning to the site within the month.)

The most popular part of the site is JGE which received approximately 5,247 visits (versus 4,507 in August 2007), followed by the Teaching in the Field area with 3,181 visits (versus 1,703 in August 2007), with the Programs area coming in third with 2,043 visitors (versus 1,408 in August 2007).

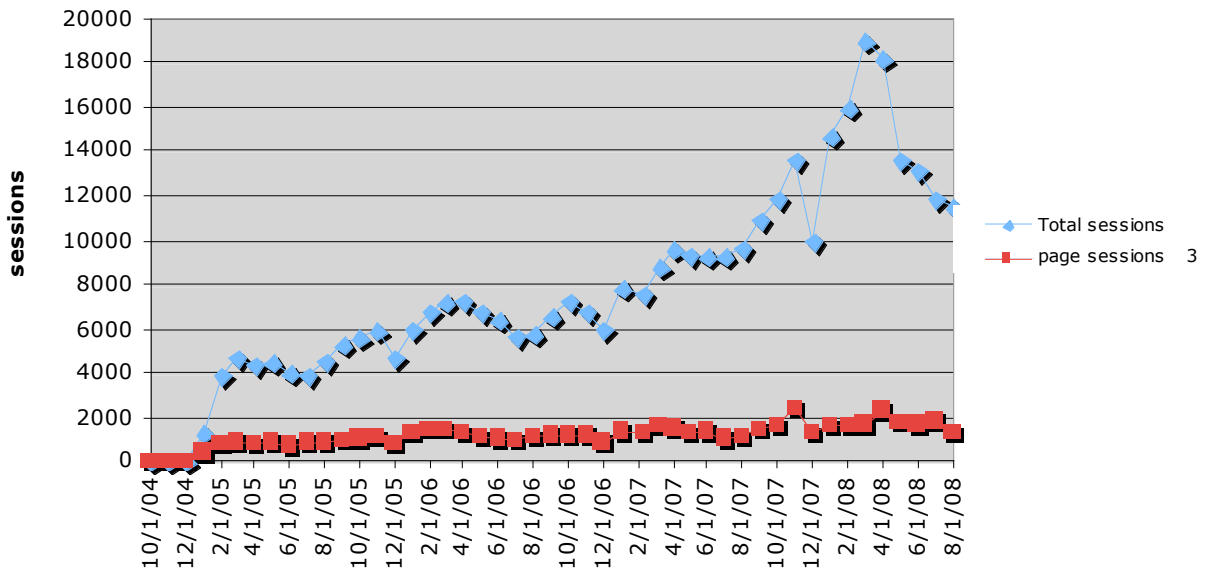
Currently, 5 sections have their websites hosted with the National website. Their use statistics are as follows:

	2007	2008 (as of September 22)
Central	1,230 visits 766 users (124 repeat)	1,731 visits 506 users (97 repeat)
New England	6,295 visits 2,369 users (548 repeat) [Apr-Dec]	1,693 visits 646 users (122 repeat)
North Central	364 visits 276 users (46 repeat) [Jun-Dec]	678 visits 284 users (73 repeat)
Pacific Northwest	2,383 visits 1,413 users (217 repeat)	2,473 visits 1,143 users (220 repeat)
Southwest	No site	Site became live August 2008.

Visitors to /NAGT



Sessions for /NAGT



AIP Membership and Subscription Report

Lori Carlin

2008 Membership Stats

As of August 2008, NAGT membership stats show 1580 active NAGT members for calendar year 2008. The membership breakdown by member type is

Regular Member	1122
K-12 Teacher	180
Student	131
Life Member	17
Retired	130

2009 Membership Renewals

The NAGT 2009 renewal process is about to begin. The renewal site will remain the same for 2009 renewals, with no new enhancements planned. The only change for 2009 is that the election balloting will not take place in tandem with the renewal process, as that process was recently moved to take place in the spring.

We anticipate the first wave of renewals to be distributed in the end of September/beginning of October timeframe. This first wave will be sent out via email to all members with email addresses on file. As in the past, members without email addresses on file will receive a paper renewal in November. While members can pay through the mail via the paper renewal form, we will once again include information encouraging them to renew online along with this mailing.

2008 Subscription Stats

As of August 2008, the Journal of Geoscience Education has a total of 538 subscriptions. This represents a decrease over the December 2007 year-end number of 556 or a decline of 3.3%. The economy may be a factor in this year's decline, as we are seeing similar declines in the other titles within the STM market. However, JGE's online presence may also be a factor in the decline, as we see more and more institutions converting to online only subscriptions and opting to cancel titles that do not offer current content online via subscription.

2009 Subscription Renewals

The 2009 subscription renewal process is in process, with first notices mailing to "non-FTP" agents and directs during the first two weeks of September. As we've mentioned previously, the largest agents – Swets, EBSCO, and Kinokuniya – do not receive actual renewal notices, but rather electronic "FTP" files of subscribers listed under their bill to. These files go out on a regular basis starting in June for their use in verifying orders and providing renewals for the next system. All other agents receive printed invoices for their customers. There will be staggered follow-up notices sent throughout the renewal season, encouraging subscribers to renew.

I hope this information is helpful to the Committee. If there are any questions or any items you would like to explore in more detail, please do not hesitate to contact me.



Award Reports

OEST Committee Annual Report

John R. Wagner

Constitutionally, the OEST Committee consists of the ten section OEST coordinators, the chair, and two at-large members. The list of 2009 committee members is appended to this report. For future reference and planning purposes, please note that both the present chair, John Wagner, and the present plaque contact person, C.Q. Brown, will retire from OEST duties in October 2009. We will work with the NAGT Executive Committee to facilitate the recruitment and training of our replacements, but the ultimate responsibility for naming a new chair will remain with the Executive Committee.

The longstanding goal of the OEST Committee has been to have every section present at least one OEST award. Seven of our ten sections generated awards in 2008, the same number as in 2007. The number of state winners dropped to 20 this year (from 22 in 2007). However, hard work and perseverance by the OEST Coordinators in the Central, Eastern, Pacific Northwest, and Southeastern Sections generated a record number of nominations. Central Section also named two "Honorable Mention" winners. Most of these state awards are being presented at state science teacher conferences, a venue which provides maximum exposure and publicity for NAGT. The list of section and state awardees is appended to this report.

The committee thanks Bill Bruihler and John McDaris of the NAGT Executive Director's Office for adding an online nomination form to the NAGT website, to supplement, but not replace the hardcopy nomination forms used at state conferences and national meetings. Names of prior year OEST awardees have also been added to the website.

The past year also saw the resolution of our first major OEST controversy, a request from the Pi Lambda Theta Honor Society (of educators) to contact our OEST awardees directly to invite them to join their Society. The OEST Committee referred this request to the NAGT Executive Board which discussed the issue with Pi Lambda Theta representatives and eventually ruled that OEST mailing lists would not be accessible to non-sponsoring organizations.

Negotiations with the Geoscience Education Division of GSA were finalized last year to provide additional recognition to section and state OEST awardees. The Division will award a complimentary 3-year membership to section winners and a 1-year membership to state winners, starting with the 2008 award year. Diane Lorenz at GSA will "bundle" the GSA and GED memberships together, so that the winners will only have to fill out and return a single form to receive the membership.

Our budget request for the upcoming year is the same as it was for 2007-08. No significant changes to the program are anticipated.

Several geoscience organizations continue to support the OEST award program by providing cash, journal subscriptions, or free instructional materials to our state and sectional winners. A list of these organizations and what they are providing is appended to this report.

Our committee goals for the coming year are to revise the “OEST Process and Procedures Manual” (last updated in 1999) and continue efforts to increase the number of nominations from all states.

Regarding the three sections that are currently inactive in terms of the OEST Program, this problem is clearly a section responsibility and Section officers must appoint people who are willing to do some legwork if the OEST program is to be successful in their section. I have mentioned this before, but if every member of the NAGT Executive Committee would nominate just one teacher from their state (surely if you don’t know a good science teacher, your neighbor or colleague or niece or secretary certainly will) we would have winners from every section. Please take the time to make sure someone from your section gets nominated.

OEST Annual Report Appendices

Geoscience Organizations Sponsoring OEST Awardees

The following organizations continued to support the OEST award program in 2008 by providing cash, journal subscriptions, or free instructional materials to our state and sectional winners:

National Association of Geoscience Teachers

- A plaque and a 2-year membership
- State winners get a plaque and a 1-year membership

Geological Society of America – \$1000

- \$500 Classroom Improvement and \$500 Travel Assistance
- 3-year Teachers Associate Membership
- State winners get 1 year Teachers Associate membership

Geoscience Education Division of the Geological Society of America – bundled with GSA membership

- 3-year Teachers Associate Membership
- State winners get 1 year Teachers Associate membership

American Geological Institute

- 1 year subscription to Geotimes Magazine
- State winners receive an assortment of recent AGI Publications

American Geophysical Union

- 1 year membership to AGU with weekly newsletter, EOS, and a subscription to Physics Today

National Earth Science Teachers Association

- 1 year new membership or renewal in the National Earth Science Teachers Association (NESTA) that includes a subscription to *The Earth Scientist*, NESTA's quarterly journal.

American Institute of Professional Geologists

- 1 year subscription to Professional Geologist

US Geological Survey

- 2006 Edition of "This Dynamic Planet: World Map of Volcanoes, Earthquakes, Impact Craters, and Plate Tectonics"

List of 2008 OEST Winners

Section Winners

Central

Teresa Lee Huckleberry

Eastern

John D. Moore

Far Western

Anna Foutz

New England

Gregg Wachtelhausen

Pacific Northwest

Jeff Hashimoto

Southeastern

Tina Coleman

Southwest

Suzi Shoemaker

State Winners

Alabama

Jennifer Grant

Alaska

Adam Low

Florida

Kathryn Bylsma

Georgia

Rebecca E. Chunn

Idaho

Robert Walker

Illinois

Kelda N. Nutson

Indiana

Teresa Huckleberry

Louisiana

Wendy DeMers

Maryland

Susan E.P. Phillips

Michigan

Chris Bolhuis

New Jersey

John D. Moore

New York

Christopher Visco

North Carolina

Robert Greenberg

Oregon

Jamie Rumage

Pennsylvania

Richard W Schmidt

South Carolina

Dina Ledford

Tennessee

Tina Coleman

Virginia

Christopher Kaznosky

Washington

Jeff Hashimoto

West Virginia

Tiffany Litton

Honorable Mention

Central Section – Charles Simer (Illinois) & Jim Rock (Minnesota)

OESTA Committee – NAGT

2009 Section Coordinators

Central

Kate S. Pound, PhD
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Chair

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cqbsr@embarqmail.com

2nd Member-at-large

Vacant

**National Association of Geoscience Teachers
OEST Section & State Award Winners 2008**

Section OEST Winners

Central Section

Teresa Lee Huckleberry
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Email: THuckleberry@isd.k12.in.us

Eastern Section

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Laurel Springs, NJ 08021
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Email: jmoore@bcit.cc

FarWest Section

Anna Foutz
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Highland, CA 92346
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Email: afoutz@north.rusd.k12.ca.us

Midcontinent Section

No Award in 2008

New England Section

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North Central Section

No Award in 2008

Pacific Northwest Section

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Southeast Section

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Southwest Section

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Texas Section

No Award in 2008

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OEST Indiana

Teresa Huckleberry
See Central Section Award Winner

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OEST New Jersey

John D. Moore
See Eastern Section Award Winner

OEST Illinois

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OEST North Carolina

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OEST Tennessee

Tina Coleman
See SouthEastern Section Award Winner

OEST Oregon

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OEST Virginia

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OEST Pennsylvania

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OEST Washington

Jeff Hashimoto
See Pacific NW Section Award Winner

OEST South Carolina

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OEST West Virginia

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Email: tlitton@access.k12.wv.us

Illinois**Honorable Mention Certificate**

Charles Simer
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Phone: 618-246-9456
Email: csimer@roe25.com

Minnesota**Honorable Mention Certificate**

Jim Rock
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Golden Valley, MN 55427
Phone: 952-994-0671
Email: rocksalt@ties2.net

Annual Report, Sept. 2008

Robert Christman

Dorothy LaLonde Stout Professional Development Grants*

Five applications were received and were evaluated by Donna Steller, Debra Steller, Joan Baldwin, Ed Geary, Scott Linneman and Bob Christman. Three awards of \$750 were made to:

- Kimberly Adams, P.O. Box 1578, Lyndonville, VT 05851
8th Grade teacher, Lyndon Town School
- Callan Bentley, Geology Dept., 8333 Little River Turnpike, Annandale, VA 22003
Faculty, Northern Virginia Community College
- Lester Smith, 1231 Sunset Pl., Sunnyside, WA 98944
Student at Yakima Valley Community College

Outstanding TA Awards*

Two nominations were received and awards were made to:

- Yun Song, Dept of Environmental Engineering & Science, Clemson Univ. SC
Nominated by John Wagner
- Julia Labadie, Geology Dept, Western Washington University
Nominated by Bob Christman

* Because these programs were not announced in the 2008 issues of JGE, number of applications was small.

Archives

No action, materials still being collected

Back Issues of JGE

A large number of back issues were mailed (since Oct 07) to addresses supplied by AIP.

Number of Copies	Number of Mailings	Number of Journals Mailed
One	211	211
Two	96	192
Three	36	108
Four	25	100
Five	3	15
Six	2	12
Seven	1	7
Total	374	456

This does not include back issues mailed for P.O. returns and those requested by the Executive office.

Robert Christman Distinguished Service Award

Gene Pearson

The Robert Christman Distinguished Service Award was established by the Executive Committee in April, 2008 to recognize individuals who have provided long, distinguished service to the Association at the national and/or section level.

The Award honors Robert “Bob” Christman who for more than thirty years has provided exceptional service to the Association both at the national level and also to the Pacific Northwest section. Bob has served the Association as a Councilor-at-Large [1983-84], Secretary/treasurer [1989-91], Executive Director [1992-2002], Co-executive Director [2003-2005]. He was also a co-editor of the Journal 1979 until 1987, contributing 26 film reviews and writing a column for secondary school teachers. Bob served as President of the Pacific Northwest section in 1974 and 1975 and has served as the section’s Secretary/treasurer since 1976.

Recipients of the Robert Christman Distinguished Service Award are selected by a majority vote of the Executive Committee at the mid-year business meeting. Any active NAGT member may submit a nomination, in writing, to the Executive Committee. The nomination letter should detail the contributions that the individual has made to the Association at the national and/or section level. Although an awardee may be selected annually, the award was not established as an annual award. Normally, when an awardee has been selected she or he will be recognized at the Annual Meeting of the Association held in conjunction with the Geological Society of America.



NAGT Program Reports

Distinguished Speaker Program

Bill Bruihler and Karen Havholm

The NAGT Distinguished Speaker Series is one of the most visible and direct services of the Association. Members at colleges, universities and other institutions can apply to have one of our featured speakers visit their institution to deliver seminars, workshops, and in-person consultation with researchers and geoscience departments. Speakers and their topics are as diverse as our membership, and we update offerings every year to reflect the latest developments in the field and the concerns of our membership.

Bill Bruihler managed logistics of the program during the 07-08 year; Karen Havholm remained chair of the DS committee. During this period NAGT received 21 requests for funded speaker visits (up from 20 in 06-07). 20 of 21 requests were approved. (One request was denied due to the fact that one institution made two requests in the same year. Their first request was approved, but the second request was denied.)

During 07-08 speakers visited the following 15 institutions:

- University of Georgia
- Western Washington University
- Western Michigan University
- University of Akron
- Southwest Oregon Community College
- Dickinson State University
- Southern Illinois University
- Florida International University
- University of Montana
- Iowa State University
- Beloit College
- University of Missouri-Kansas City
- Jackson School of Geosciences
- Calvin College
- Texas A&M

We anticipate that 5 of the 07-08 approved requests will be completed in 08-09.

Total costs of the 2007-08 program, including speaker travel, stipends, publicity, were \$11,996.36 (down slightly from last year's \$12,417.02). We anticipate that "The Consortium for Ocean Leadership" (previously JOI) will reimburse NAGT for a portion of these costs. NAGT had budgeted \$20,000 for 07-08 costs so we were under spent by \$8,003.64. We expect that The Consortium for Ocean Leadership will to continue to support the program by naming a speaker and providing \$1,000 per year for three more years. \$20,000 has been budgeted for 08-09 program expenses.

The 2008-2009 speaker roster is:

- Patricia Kelly*
- Tracy Gregg*
- Eric Grosfils*
- Bruce Herbert*
- **Susan DeBari**
- **Wayne Powell**
- **Eric Pyle**
- **Michael Wyession**
- Robert Butler
- LuAnn Dahlman
- Stephen Pompea

An asterisk means this is the speaker's last year of the three-year term. Bold names are the new speakers this year. The eleven speakers will be joined by a twelfth to be named by the Consortium for Ocean Leadership.

A printed color program flyer was mailed in early October 2007 to 894 geoscience departments to promote the program. Approximately 300 copies of this flyer were distributed from NAGT booth displays (GSA, AGU, NSTA) during the year. In September 2008 this flyer was updated with new speakers and mailed out to 891 geoscience departments. We used a similar design but better quality stock and finish for the new version of the flyer. We also increased the size of the print run this time as we ran out of copies of the 2007-2008 flyer.

The program is also featured on the NAGT website at:

<http://www.nagt.org/nagt/programs/dsp.html>. During the course of the past year several improvements have been made to the NAGT website to support this program.

Improvements include:

- A suite of pages providing detailed information for host institutions including: information about requesting a speaker, arranging a visit, a speaker request submission form, a post-visit evaluation submission form, and a six-month post visit report submission form.
- A page providing detailed information for speakers including: information about scheduling and preparing for visits, downloadable powerpoint templates to promote the NAGT and the speaker program, and information about the travel expense reimbursement process.

During 07-08 we received post visit evaluation reports from 10 institutions. The host institution evaluations of speakers were switched from a word document to an on-line form part-way through the year.

Questions on previous form:

A. Was the program attended by members of other education groups in your area?

B. Logistics of visit

C. Attendance statistics: indicate type of Speaker interaction, and number of attendees (faculty, graduate or undergraduate, K-12 teachers); be as quantitative as possible

Workshop, formal lecture, Visits and/or discussions, other events

Number of attendees:

Type of event (workshop, lecture, discussion groups, etc.)	Earth Science Faculty	Other faculty	Graduate students	Under-graduate students	K-12 teachers or administrator	Other (please specify)

D. What impact do you think that this visit has had on your department/group?

E. Suggestions on how NAGT may improve the Distinguished Speaker Series in the future

Questions on current on-line form:

1. Was the visit valuable for your department/institution? If so, describe 2-3 outcomes or anticipated outcomes. If not, indicate why not.
2. If you received NAGT funding to support the visit please describe how the visit was advertised beyond your department/institution. How many people from beyond your institution do you estimate interacted with the Speaker?
3. Do you have any suggestions for improving the program or its management? (Please feel free to recommend topics or specific speakers for the future.)
4. For each event: Describe the way in which the Speaker interacted with your department or institution. (E.g. Talk on Climate Change, Dinner with Students or Office Visits with Faculty, etc.) [It then requests the same statistics on attendees as the paper form.]

Ten evaluations were received beginning January 1, 2008. A summary of the results follows.

1. (D) Reviews were uniformly positive. All speakers seemed to meet or exceed the expectations of the host institution. The kinds of impact cited were as varied as speaker topics and event types. Examples included:
 - department is now considering curricular changes
 - faculty were inspired to try new techniques to engage students in regular and large format classes

- lectures/workshops will spur updated course content and teaching techniques of graduate students
- both content and teaching techniques very useful for pre-service and in-service teachers
- research collaboration (faculty) and mentoring (graduate students) will result
- reinforced difference between theology and science for students and public

2. (A) Most institutions made the effort to invite people from other institutions. Outside attendance varied widely depending on type of institution, location, and type and topic of events. Many had at least some K-12 teachers at an event. Teaching Evolution drew large crowds from teachers and the general public.

3. (B, E) There were no complaints or suggestions for changes.

4. (C) There was a wide variety of formats for speaker events. These included lectures with up to 200 attendees, departmental seminars, curricular discussions with faculty, research and teaching discussions with graduate students, and student teacher and in-service teacher workshops.

Number of events associated with each visit and number of participants are shown in the table below. The current on-line form makes it more difficult to know what the total number of participants is.

Number of events	Number of participants
3	110
1	78
1	20
3	156
2	?
2	Fewer than 60
2	~30
3	~300+
2	~200+
4	89

Questions for the Executive Committee

1. We inadvertently dropped from 12 to 11 NAGT-supported speakers. Let's review the status and budget briefly to determine what number of speakers to aim for, given the new arrangement with the Ocean Leadership folks.

2. Based on experience, we should probably change the committee structure (consisting of many Executive Committee members plus at-large members) and canvass former speakers for some who want to be on the committee. The committee is primarily tapped to suggest new speakers each year

NAGT/USGS-Cooperative Geosciences Internship Program

Annual Report

Penelope Morton, Executive Secretary

For the first time since 2001 we exceeded our goal of placing 20 interns. The USGS Science Information and Education office under the stewardship of Robert Ridky placed 28 interns for the summer of 2008. This was done with the support of the Director of the USGS. Thirty-two proposals were submitted by USGS scientists, 22 of which were chosen for cost sharing. The interns were placed in these projects as well as four projects without cost sharing. A description of this can be found at <http://www.nagt.org/files/nagt/programs/usgs-nagt-2008.pdf>.

We canvassed 154 field camps and/or schools and we had 74 nominations from 39 different field camps (Table 1). Of those 74 nominations, 46 were men and 28 women. Letters were mailed to all students nominated (copy of nominee letter attached) and students applied to the USGS Science Information and Education Office. Cher Cunningham processed all applications. Of the 74 nominations, 52 students actually applied and 13 more withdrew during the process for an attrition of 35 students (almost 47%). Of the remaining 49 students, 28 were placed. Fifteen men and 13 women accepted internships and their localities are listed in <http://www.nagt.org/files/nagt/programs/usgs-nagt-2008.pdf>. These interns represented 25 different schools and/or field camps.

Table 1. Historical Data for the last ten years of the NAGT/USGS Cooperative Internship Program

Year	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
# of Schools/Camps canvassed	100	105	112	112	112	116	130	141		154
# Directors who nominated a student	33	31	44	32	48	39	42	38		39
# of Nominees	73	76	106	87	123	60	70	69	42	74
Application Pool			77	63	90	46	50	66		52
# Interns	15	32	38	13	8	16	19	21	17	28
# who withdrew during process						14	19	21		13
ratio of offers to nominees	0.21	0.42	0.36	0.15	0.07	0.27	0.27	0.30		0.38
ratio of offers to applicants			0.49	0.21	0.09	0.35	0.38	0.32		0.54
Goal	25	25	25	30	30	20	20	20	20	20

NATIONAL ASSOCIATION OF GEOSCIENCE TEACHERS
**U.S. GEOLOGICAL SURVEY COOPERATIVE SUMMER GEOSCIENCES
INTERNSHIP PROGRAM**

Penelope Morton, Executive Secretary

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Duluth, MN 55812
pmorton@d.umn.edu
218 726 7962

December 14, 2007

Dear Nominee

Congratulations! Because of your exemplary performance at summer field camp, you have been nominated by your field camp director to participate in the 2008 Cooperative Summer Geosciences Internship Program sponsored by the National Association of Geoscience Teachers (NAGT) and the U.S. Geological Survey (USGS). Through this program, a select number of outstanding graduates of summer field courses are invited to apply to the USGS for summer field, laboratory, or office internships. We are inviting you to submit an application.

These opportunities are available throughout the United States during the summer of 2008. Appointments are made for 12 weeks up to 20 weeks with candidates being assigned to field positions or to laboratory and office related scientific work throughout the United States, with main operational and administrative centers in the Eastern Region (Reston, Virginia); Central Region (Denver, Colorado); and the Western Region (Menlo Park, California).

This year, the USGS is looking to hire Geologists, Hydrologists, Physical Scientists, Geochemists/Chemists, Geophysicists, Geographers, Biologists, Cartographers, and Ecologists. As the emphasis on integrated science is increasing at the USGS, we are seeking candidates who have a broad background in earth sciences, geography, cartography, ecology, physics, biology, chemistry, and GIS. Students employed through this program will be hired at the salary rate of \$13.19 to \$14.65 plus a locality adjustment dependent upon the location of their internship.

Student backgrounds will be matched with available opportunities throughout the country. The number of hires depends on the number of available opportunities and the number of students who have the necessary backgrounds and education. We have an automated application process that makes it easy for you to apply. Go to: http://education.usgs.gov/internship_nagt_usgs and follow the directions. You will need your resume and transcripts. Completed applications are due by January 28, 2008.

This program provides a wonderful professional opportunity for you. Since the program's inception in 1965, over 1500 selected students have participated. It is one of the most highly regarded career experiences nationally available, with many participants going on to distinguished careers in the geosciences. We appreciate your interest in this summer Program

and look forward to receiving your application. We hope to have selections made by mid February, at which time we will contact you with the results. If you have questions or concerns, please contact Cher Cunningham at (703) 648-6872 or by email at ccunning@usgs.gov, or contact me at pmorton@d.umn.edu with any questions or concerns that you may have.

Sincerely,

Penelope Morton
Executive Secretary, NAGT/USGS Cooperative Summer Internship Program

Field Course Scholarships Annual Report

Richard Yuretich

I continued the task of chairing the committee to award field scholarships with the other two members, Pranoti Asher (Georgia Southern University) and Laurel Goodell (Princeton University). Thanks to the efforts of John McDaris at SERC, we were able to move the field application process entirely online. We received a total of 43 applications for the scholarship and all but one used the online format. Two students eventually withdrew their applications. Of the completed applications, 27 were from women students. Reviews of applications and selection of awardees was completed by March 16. Eighteen students were selected for the scholarships; fourteen of these are women, of which two of the women were subsequently designated by the AWG as recipients of their scholarship awards.

The number of applicants was down significantly compared with the last two years. I attribute this to a lack of print advertising that we had done previously, usually by sending e-mail alerts directly to faculty members or directors of field courses. It may be possible that we did not include the announcement in the NAGT news in a timely fashion. At the very least we should do this a month or two in advance of the deadline, and if at all possible, an announcement in the JGE would still be helpful. Although we distributed nice brochures at GSA in October, these may have been a little too soon to be effective.

The on-line admissions system went smoothly, although it was a little hard to match up letters of recommendation with the applications, since they were in separate folders in order of date received. I don't know if it would be possible to link the two. Transcripts were a little more haphazard, although most applicants were able to attach a document in a readable file. Some were text that required considerable re-formatting to make them legible, and a number came as paper copied mailed to me. I ultimately scanned these in as pdf files and sent them directly to the other committee members, but perhaps it would make more sense in the future if the committee chair could upload these directly to the applicant's files, or perhaps John McDaris could do this.

Geoscience Teachers-in-the-Park Program

Mammoth Cave National Park

Cheryl Messenger

Program Requirements

Each teacher intern is required to complete 200 hours of work for the park. The Internship hours consist of any combination of:

- Educational opportunities offered by park personnel, local university staff, and/or park partners
- Experience working with park, university and/or contracted researchers
- Assisting with on-going park research projects
- Participation in short-term park studies occurring during their tour of duty

This year we received from each teacher intern a final report and evaluation of the program as well as three trail guides to be used for self-study by classroom teachers, homeschool groups and other interested visitor. The final reports included five to ten digital photographs. Additional images will be provided as their students use the park's resources. Each teacher has scheduled and will present two public programs / presentations that will help community members understand the park, park resources, and types of geoscience jobs/careers available. Each of our 2008 intern teachers has also submitted photographs of their work in the park as well as with their students. They have agreed to supply additional photographs as the school year progresses.

In addition, the 2008 intern teachers will work with future GeoScience Intern teachers as well as those teachers who completed the program in 2006 and 2007 to expand the growing teacher network that will educate local and regional peers, students, and parents on park resources and types of geoscience jobs/careers available, among other topics.

What Activities Occurred This Summer?

During the summer of 2008, the Geoscience-Teachers-in-the-Park worked on a variety of projects. These projects included:

- Working closely with projects initiated and conducted by the 2008 Geoscientist-in-the-Park
- Obtained and documented GPS coordinates for newly discovered cave entrances located within Mammoth Cave National Park
- Developed three (3) self-guided trail guides for homeschool teachers and others who want both an educational experience on the park's trails and the flexibility of going at one's own pace. Trail guides focused on the area's Karst surface features (geology) and connected those features to the park's biology and history.
- Assisted in water monitoring project within Mammoth Cave.
- Participated in a geomorphology class to learn more about how the caves formed.
- Participated in a long-term cave cricket-monitoring program (comparison of cave population numbers to temperatures and humidity levels, as well as man-made vs. environmental influences on populations).

- Participated in a long-term Allegheny woodrat monitoring program (compares woodrat use of managed cave entrances versus natural cave entrances)
- Assisted in a national bird banding project
- Assisted with bat roost monitoring project.
- Attended several training programs (Project WILD, citizen science workshop, etc.) to increase knowledge of programs and associated skills that could be incorporated into the classroom.

What Activities Are Planned for the Academic Year?

2008 Teacher Intern Debra Sherfey has:

- Engaged her students in a month-long unit of study that examined the local Karst landscape. As a culminating activity, all 48 students participated in an off-trail cave tour on September 4th or 5th to: 1) observe cave developments that are a direct result of Karst features on the surface, 2) explore un-developed cave passages, 3) examine fossil remains *in situ*, and 4) appreciate the difficulties experience by early visitors to the cave system. Our 2007 Geoscience Teacher-in-the-Park Intern, Sarah Talley, led this trip.

Some of the ways that the teachers plan to share their experiences with their students include:

- The use of personal experiences and locally based, on-going scientific studies as real-world examples for their students.
- Working with Mammoth Cave (MACA) and Mammoth Cave International Center for Science and Learning (MCICSL) staff to provide hands-on learning and volunteer opportunities for their students.
- One of the teachers stated, “Mammoth Cave offers so many different aspects that can be offered to every child, no matter what their learning style, and broaden their knowledge of an area that is readily accessible to them. As a teacher it is my job to utilize this park and give each student the opportunity to become involved in different projects that they might not otherwise have the opportunity to participate in.”
- Use the “What is a scientist?” lesson plan that was developed by the 2007 interns to show students that scientists are not necessarily the stereotypical “old guy in a lab coat with a chemistry set.” They hope the lesson plan will ignite an interest in science among their students and encourage them to pursue scientific careers.
- Present a professional development session on Mammoth Cave National Park and the GTIP program to pre-service teachers at each of the Western Kentucky University’s campuses (in Bowling Green, Glasgow, Owensboro, and Elizabethtown, Kentucky). This will allow new teachers to learn about the opportunities available at Mammoth Cave prior to beginning their careers.
- Additional community presentations planned

Current Financial and Logistical Arrangements

Internship Payments

Three Geoscience Teacher Internships were awarded for the summer of 2008. However, due to unforeseen personal and professional obligations, one individual was forced to resign his internship in late June 2008.

On July 15th, 2008, a check in the amount of \$4,000 was received at Mammoth Cave National Park from the National Association of Geoscience Teachers (NAGT) to support funding for the remaining two GeoScience Teacher Internships. The money was deposited into the park's Environmental Education donation account. NPS contracts for services were initiated between the park and Mrs. Sherfey's school district, with Internship payment made to the Barren County Board of Education. The Board of Education will then pay her within their established payroll process. Mrs. Pack's contract was initiated between the park and herself as a private contractor. Mrs. Pack has been paid by third-party draft.

Each GeoScience Teacher Intern received \$1,500 upon completion of 200 hours of work. All work was completed by mid-July 2008.

Educational Payment

An additional \$500 is available to each teacher for continuing education in the geoscience field. This education component will be paid upon presentation of a receipt showing enrollment in a college course, conference, or other approved continuing education program. The money will be paid thru an NPS DI-1 initiated by the Mammoth Cave education coordinator.

Both Debra Sherfey and Allisa Pack joined 2007 Intern Sarah Talley in using \$160 each to attend the Kentucky Association for Environmental Education (KAEE) state-wide conference. The teacher interns have been given two years to obligate these education funds.

Assessment / Program Evaluation Plans

Of the remaining two Interns, Debra Sherfey was a full-time 6th grade teacher in the Barren County school district (Temple Hill Elementary School). The second, Allisa Pack, was a recent graduate from the Western Kentucky University Elementary Education Department (for grades K-6th). The appointment of a recent graduate (instead of a full-time classroom teacher) came from the recommendation of the 2007 GeoScience Teacher Interns. They felt that training an individual *before* they became overwhelmed with classroom responsibilities would be of more benefit to both the park and the program. With that recommendation in mind, Allisa Pack was granted one of the internship positions. The park will continue to monitor Mrs. Pack's progress into the classroom and the education field.

A determination on the feasibility of awarding one of the Internship positions to a recent graduate will be monitored over the next two school years. A determination has already been made by the park to limit such awards to no more than one new graduate per year.

We are utilizing informal tools to assess the current program and to improve the program for future teachers.

- We have noted the level of engagement of the teacher interns throughout their summer of work (i.e., did they come to the park at their assigned times; did they complete their assignments; was their level of participation enthusiastic or negative; did the teacher interns look forward to the next challenge or appear to dread their up-coming assignment/project, etc.)
- We have used summer exit interviews of each teacher to discover what excited them about the program and to ask what they feel should be changed, added, deleted
- We have asked each teacher to list ways they plan to use material and knowledge obtained during their internship with their classes
- We will continue to monitor the progress of recent graduates. This year we noted that the limited classroom experience does restrict and make more difficult their approach in formulating new educational programs for their potential students. We also made note of the obvious benefit to the recent graduate in being mentored so closely during this process by a veteran classroom teacher
- By staying in contact with each of our teacher interns, we hope to determine if the investment of National Park time and resources made a difference in teaching techniques and in the expansion of GeoScience opportunities by these teachers (and their colleagues) over multiple years.
- We will determine if each teachers took advantage of the continuing education portion of their internship, how this funding was used (i.e., a preference of conference attendance, formal college coursework, or other continuing education opportunities), and if not used, what might have been more beneficial for them (i.e., a supply list or other assistance).
- We will maintain a list of teachers who begin using Mammoth Cave National Park as a resource and/or who express interest in the Geoscience-Teacher-in-the-Park program as a result of coming in contact with current or former teacher interns
- We will continue to solicit suggestions and lists of projects which will both engage teacher interns and will benefit Mammoth Cave National Park

2008 Interns' Perspective

Once again, this year's teacher interns appear very pleased with the program.

- One of the 2008 teacher interns thought the program was so valuable, that she has already volunteered to come back next summer and help the new teacher interns learn more about the park and what to expect during their internship.
- Based on their intense use of GPS units this summer and their detailed knowledge of the park's surface features, both interns have volunteered to return and assist the Mammoth Cave Environmental Education Office with a new public questing initiative.
- Another 2008 intern stated, "I truly feel that every teacher who has a passion for science should be given this opportunity."

- Both teachers reported that they gained a tremendous amount of knowledge and believe the internship was extremely beneficial.
- Both teachers also reported that they enjoyed being able to participate in a variety of projects and interact one-on-one with the researchers.
- Each of our 2008 teacher interns has offered valuable suggestions for changes in the initial park training for future interns. Their suggestions will be incorporated into the 2009 program.

MACA / MCICSL Perspective

For Mammoth Cave National Park this has been a positive experience that we look forward to repeating next year. From this program we are pleased to see a network of local teachers that continues to grow.

- We were pleased that one of our 2007 GeoScience teacher interns was able to return to Mammoth Cave National Park to lead the specialty tour for our 2008 GeoScience Intern's two 6th grade science classes.
- We have already RECEIVED one application for the 2009 internships and several other teachers have expressed an interest in applying for next year's internship. This is largely due to the enthusiastic endorsement of the project by the teachers from 2006, 2007, and 2008.
- All the teachers have continued to promote the GTIP program after their internships are completed.
- In addition to building a network of teachers who have participated directly in the program, we have been able to develop an even broader network.
- Participating teachers have brought their experiences back to their schools and brought their colleagues into the network.
- See the 2007 GTIP report for an evaluation of the 2006 and 2007 programs.

We feel these developments indicate the program is successfully creating a network of educators in the area who work with the park and who will be available to assist new educators as they begin to work with the park. As always, we continue to learn and develop new ideas for future years.

Recommendations

- Pairing the Geoscience Teacher interns with the Geoscientist-in-the-Park proved to be a great benefit to both programs. We would encourage that whenever possible for at least one year of a park's program.
- Mammoth Cave National Park has hosted three Geoscience Teacher Interns each summer for the past three years. During that time we have sometimes struggled to ensure that each project had at least two interns working together for both safety and practical considerations (i.e., movement of heavy equipment, work involving remote sites in the park, etc.) While a very few projects could be accomplished by one person, this desire to have people working in pairs has been quite a challenge for park personnel, with the park and/or the Mammoth Cave

Learning Center occasionally being required to supply a permanent staff member to accompany one of the interns to ensure their safety and/or to provide assistance with equipment/materials.

Due to extenuating circumstances, we were reduced to only two teacher interns for the summer of 2008. We discovered that scheduling a *pair* of interns was much easier than trying to rotate schedules to pair *three* people over the course of the internship. Not only was the logistics easier, but this was the first year that both summer teacher interns were able to complete their required hours before the beginning of the 2008-2009 school year **

Therefore, we would recommend that the GeoScience Teacher-in-the-Park Internships be awarded to parks in pairs ... granting two, four, or six interns per year to any one park.

[** Kentucky schools begin their new school year the first of August]

Mammoth Cave National Park Request

Four Geoscience Teacher-in-the-Park Interns for Summer 2009

Justification: Due to extenuating circumstances, one of our 2008 teacher interns was unable to participate in the program. We would like to move that one 2008 position into the summer 2009 program. This would give us two pairs of teachers (see above). Since we only received \$4,000 of the budgeted \$6,000 for the program in FY08, there would be no increase to the overall five-year budget.

Teaching in the Field

Cathy Manduca

This project was funded by a grant to SERC for NAGT activities that expired in July 2008.

The goals of the project were to

- 1) Develop the technical infrastructure needed for individual NAGT members to contribute single pages to the NAGT website that share the look and feel of the NAGT site, are fully integrated into the site architecture and are hosted and maintained at SERC
- 2) Use this tool to develop collections of resources that share NAGT expertise in geoscience education both within the society and beyond. This work was to be initiated with a collection of field trips that will
 - Enable NAGT sections to learn from one another in order to elevate the quality of their field offerings around the country,
 - Promote models for effective educational fieldtrips to geoscientists around the world,
 - Provide an archive of field guides furthering the ability of K-12 teachers, faculty, community groups, and others to lead scientifically accurate, pedagogically effective field trips.

Technical Infrastructure

To support the community contribution and authoring of field trip descriptions the web authoring system underpinning the nagt.org site, the SERC content management system (CMS), was reengineered to more explicitly support direct contribution and maintenance of the web materials by community members. This year, the interface was overhauled (with other funding) to simplify editing using menu driven formatting.

Development of Field Trip Collection

An open solicitation for examples was conducted this year with minimal response. To further bolster the collection, we solicited contributions from individuals who presented at GSA or AGU on teaching in the field. We also cross-tagged resources from other parts of Teach the Earth that were appropriate for this collection. The current collection contains 36 examples.



NAGT Sponsored Program Reports

On the Cutting Edge: Professional Development for Current and Future Geoscience Faculty

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

Heather Macdonald, Cathryn Manduca, David Mogk, and Barbara Tewksbury

The overall goal of the *Cutting Edge* project is to improve the quality of geoscience education for undergraduate students through the dissemination of exemplary practices and materials to current and future faculty through an integrated, synergistic set of workshops and a variety of web resources. We aim to bring advances in pedagogy and geoscience research to the broader community of those who teach geoscience to undergraduates. With the support of the second national dissemination grant from the NSF Division of Undergraduate Education, we are initiating a more structured program of leadership development that will enable us to expand the dissemination of our program (e.g., the pre-GSA workshop for early career faculty at this GSA meeting, the pre-AGU workshop on Teaching Introductory Geoscience in the 21st Century, focused expansion of some of the websites, and call for proposals for regional workshops and other venues).

We have changed the funding model of some of the workshops so that some of the food and lodging costs are covered by participants. This past year, we charged participants \$250 towards food and lodging costs for the Early Career workshop. We did not observe a decline in the number of applicants for the Early Career Workshop, so think this demonstrates that the benefits apparently justify the costs to at least this group of faculty. We are also exploring the use of electronic workshops and will discuss sustainability at a meeting later this fall.

We are grateful to NAGT for the advertising and publicity that NAGT provides and for its co-sponsorship of sessions at professional meetings. In addition, the opportunity to include *JGE* articles on the *Cutting Edge* website provides high-quality material to the website and increases the visibility of *JGE*. Both NAGT and Cutting Edge are contributors to the Geoscience Education Social at GSA. We encourage NAGT members to suggest workshop topics for the 2009/2010 workshop series.

2008 - 2009 Workshops (more details are given on brochure)

- The Hurricane-Climate Change Connection: Bringing Cutting Edge Research Into the Classroom (an electronic workshop)
- The Role of Metacognition in Teaching Geoscience
- Teaching About Energy in Geoscience Courses: Current Research and Pedagogy
- Early Career Geoscience Faculty: Teaching, Research, and Managing Your Career
- Preparing for an Academic Career in the Geosciences
- Teaching Paleontology in the 21st Century
- Regional Course Design workshops

2008-2009 Related Activities include sessions at both the 2008 GSA and AGU meetings.

Web Resources

The thematic collections typically link fundamental scientific research, pedagogical approaches, examples and activities, data and tools, images, and supporting services. We continue to use a range of approaches to providing resources derived from workshops to a broader audience via the web-site. We have added new collections associated with workshops in the 2007-2008 workshop series, and have added considerable material to the web resources for career management. The website front page shows the range of topical resources:

Managing Your Career

- Preparing for an Academic Career
- Early Career Faculty

Enhancing Your Teaching

- Affective Domain
- Assessment of Learning
- Course Design
- Data, Simulations, and Models
- Introductory Courses
- Teaching in the Field
- Urban Students and Urban Issues
- Visualizations
- Web Design

Geoscience Topics and Themes

- Biocomplexity
- Climate Change
- Discoveries from Mars
- Early Earth
- Geology and Human Health
- Geochemistry
- Geophysics
- Hydrogeology
- Mineralogy
- Ocean Systems
- Petrology
- Public Policy
- Rates and Time
- Sedimentary Geology
- Structural Geology

Starting Point: Teaching Introductory Geoscience

<http://serc.carleton.edu/introgeo>

Cathy Manduca

This website, sponsored by NAGT, brings together information about teaching methods with examples of their use in introductory geoscience courses. While the initial grant for developing the site expired in 2005, ongoing development is taking place as part of the On the Cutting Edge project (serc.carleton.edu/NAGTWorkshops) and the Pedagogies in Action project (serc.carleton.edu/sp).

The site now contains information on 26 different teaching methods or approaches, as well as a section on assessment of learning in introductory classes and a section on Earth system science. Each method includes information on what it is, when/why it is useful (with full referencing from the literature), how to implement it, and examples of its use in introductory geoscience. Approximately six new modules are under development following the Cutting Edge Teaching Introductory Geoscience workshop. In addition, new modules developed by the Pedagogies in Action project are replicated here when there are introductory geoscience examples (see for example the Spread Sheets Across the Curriculum module).

Many geoscience faculty enter the site looking for examples of the ways in which other faculty have taught a particular geoscience topic. There are currently 541 examples in the site. Each is linked to a particular teaching method so that faculty can find not only the example but the information they need to adapt it effectively for their own teaching. There are also descriptions of more than 200 introductory courses.

In 2007, the Starting Point site was visited by 5,301 users who returned six or more times during the year. Total visitors to the site were 294,434. Evaluation studies show that users move between examples and information on their use suggesting that they are both learning about methods and finding examples that facilitate their adoption in their teaching (Manduca et al, 2005).

Manduca, C.A., Iverson, E.R., Fox, S.P., McMartin, F. (2005). Influencing User Behavior through Digital Library Design: An Example from the Geosciences, *D-Lib*, vol 11(5).

Earth Exploration Toolbook Annual Report

Tamara Shapiro Ledley

The Earth Exploration Toolbook (EET, <http://serc.carleton.edu/eet>) is a collection of educational resources called chapters that feature Earth science datasets and data analysis tools. The EET provides step-by-step instructions for using Earth science datasets and software tools in educational settings. Each chapter in the EET is written to the educator with the purpose of making them familiar enough with the tools and data to customize it for their own students and curriculum needs. Thus while the analysis described in an individual chapter may directly address the high school level, the educator can see how to adapt use of the data and tools in for students at the middle school and undergraduate levels.

EET chapters walk users through an example—a case study in which the user accesses data and uses analysis tools to explore issues or concepts in Earth system science. In the course of completing a chapter, users produce and analyze maps, graphs, images, or other data products. The ultimate goal of each activity is to build user's skills and confidence so they can use data to conduct their own investigations of the Earth system. There are currently 22 live EET chapters and on the order of 15 more in development.

Each EET Chapter Includes...

- Chapter Description: An overview of the data analysis techniques and science content of the chapter
- Teaching Notes: An example of the data product, suggested grade/age level, learning goals, teaching standards addressed, and time required
- Case Study: A compelling storyline that provides context for the technology procedures
- Step-by-Step Instructions: Text and images that guide the users through the process of accessing data and analysis tools, then manipulating them to draw conclusions and report results
- About the Tool and Data: Background information on the analysis tool and sources of data
- Going Further: Ideas for exploring different aspects the data or using the tool in new situations

Development of New EET Chapters

New EET chapters are developed through a number of avenues – ranging from individuals to partnerships with large research programs. Data providers, tool developers, and data-using educators can contribute chapters to the EET in collaboration with the EET team. Using a template, authors enter instructions and images into clearly described fields to generate chapters in the EET format. Support documents, including the *EET Chapter Author's Guide* and the *EET Chapter Template Field Descriptions*, are available to guide the EET chapter development.

Currently the main avenue for new EET chapter development is through the efforts of the AccessData project (<http://serc.carleton.edu/usingdata/accessdata>). The AccessData program facilitates a workshop which brings together ~10 teams per year, each focused around different datasets. Each team has the expertise of a data provider (who know the data in a specific data archive and how to get it), a tools specialist (who knows how to use an analysis tools that works with that data, a scientist (who knows the scientific context of the data), a curriculum developer (who will complete the EET chapter after the workshop), and an educator (who will provide the educational expertise to focus the chapter). There have been five of these workshops and there is funding for one more in the spring of 2009. We are working to develop a sustainable model for this activity.

Teacher Professional Development

We currently have two avenues of teacher professional development for use of the EET; the EET Workshops (<http://serc.carleton.edu/eet/workshops.html>) and the DataTools program (<http://serc.carleton.edu/eet/msdatatools>).

The EET Workshops teleconference-online workshops. Science and technology teachers participate in a pair of two-hour distance-learning workshops. Participants must have an Internet-connected computer and the ability to talk on the phone at the same time. We use a web conferencing tool, Elluminate, to facilitate these workshops. During the first workshop participants work through an EET chapter to produce a data product, and discuss ways to teach and learn using Earth science datasets and analysis tools. Participants come back to a second workshop after implementing the activities with students to discuss successes, obstacles and how to overcome them. The schedule of these workshops and the registration information is available on the front page of the EET website.

The DataTools program is our second avenue of professional development. This is a year-long program which utilizes the EET chapters to help teachers learn how to use various data analysis tools and integrate the use of those tools with data relevant to their curriculum with their students.

Building Strong Geoscience Departments Annual Report

Cathy Manduca, Heather Macdonald, Geoff Feiss, Randy Richardson

This project is focused on helping geoscience departments adapt and prosper in a changing and challenging environment. Through workshops, a website, and sessions at professional meetings, this project aims to stimulate discussions and disseminate community expertise on specific topics that challenge geoscience departments today.

Activities of note in the past year included

- Reorganization of the website to enable easier access to resources addressing common departmental challenges
- Discussion of accreditation proposals in GSA survey
- Meeting of Advisory Board to review program and recommend next steps
- Submission of a funding proposal to NSF with support from NAGT, GSA, AGU and AGI

The funding proposal was successful in obtaining a grant for two workshops in the upcoming year, enhancements to the website, and funds for a traveling workshop program that will be integrated with the NAGT Distinguished Speaker program.

Assessing Geoscience Programs: Theory and Practice

February 22-24, 2009; Carleton College, Northfield, MN

Departments are increasingly called upon to assess the impact of their programs on students and to measure the degree to which they meet stated goals. This workshop will showcase the methods and instruments that geoscience departments are using for this assessment, as well as providing opportunities to learn more about evaluation theory and practice from experts in the field.

Strengthening Your Geoscience Program: A Practical Workshop with Ideas and Examples

June 2-4, 2009; College of William and Mary, Williamsburg, VA

This workshop will focus on areas of high interest to participants, such as curriculum, assessment, programming, recruitment, or management. We will draw on strategies and examples from past workshops to develop practical solutions to the challenges facing participants' departments. Teams of participants are strongly encouraged, particularly from departments in the Mid-Atlantic States.

Earthlearningidea Annual Report

Chris King

“I know it’s Monday when a new Earthlearningidea appears” – quote from a supporter in India.

Earthlearningidea was set up for the International Year of Planet Earth with the intention of reaching as many children throughout the world as possible, particularly those who suffer from lack of resources and from lack of thought-provoking teaching. Our aim is to foster a better knowledge of our natural world and how it works, encouraging the joy of knowledge about the Earth in those who may not otherwise have the opportunity to receive it.

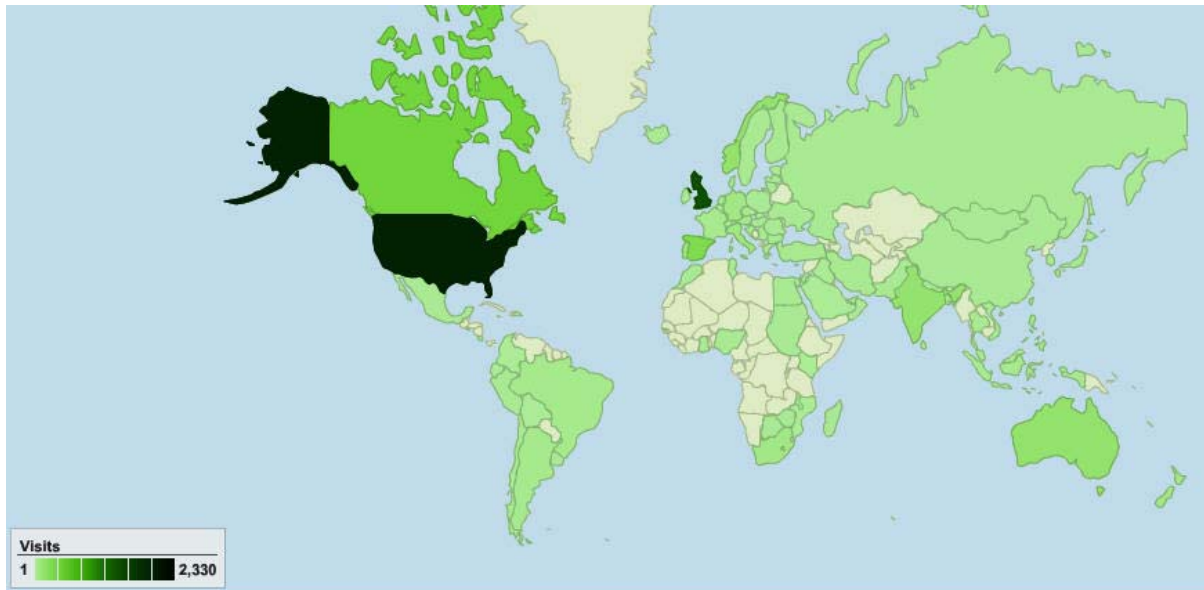
How can this be done? We have developed a website for the use of teacher trainers and teachers of Earth science/geography across the globe – www.earthlearningidea.com. This provides educational resources to promote interactive teaching and the development of investigational and thinking skills, whilst provoking educational debate. All the activities assume minimal equipment and resources. Further details of our objectives may be found on - <http://earthlearningidea.pbwiki.com/About%20Us>

Earth-related activities are published every Monday evening in both English and Spanish. They are being translated into Italian (16 activities so far) and Norwegian (13 activities). Some activities have video demonstrations and, where the activity has resulted in comments from teachers, these have been published as ‘extension’ ideas. Our first sample activity was published last June followed by four more in 2007. Since the beginning of 2008, we have been publishing an activity every Monday and will continue to do so until the end of December this year. So far (mid-August) we have published 37 activities ranging from ‘The Himalayas in 30 seconds’, ‘A tsunami through the window’, ‘Why does soil get washed away?’ to ‘How to weigh a dinosaur’. We have 21 other activities ‘in the pipeline’ that will take us to the end of 2008. After that we will post an invitation to anybody who would like to submit an Earthlearningidea. If it:

- is based on simple ideas (ie. little abstract thinking involved);
- uses simple apparatus or no apparatus at all;
- is written to the Earthlearningidea format (using Earthlearningidea headings, on just 2 pages);

...Please send us your idea for consideration. All published Earthlearningidea activities are free to download from our website.

As we have minimal funding for this project, we are using free internet software, blogger, wiki and, more recently, squidoo. The blog, <http://earthlearningidea.blogspot.com>, by mid-August had recorded 6429 visits and reached 102 countries. The darker the shading on the map, the more visits to the site.



Given the political and economic situations in many of the countries we have yet to reach, we are probably unlikely to do so, but we should like to increase the numbers of people using our activities in all countries, especially those shown in pale green on the map.

You can also see below our ‘most popular’ cities across the globe:



Please help us by sending us contact details of any teacher trainer establishments that you know and details of any schools in which you think our activities would be useful. Our email address is info@earthlearningidea.com. In this way, we can spread Earthlearningideas across the globe.

The Earthlearningidea team

Chris King, Professor of Earth Science Education, Keele University

Peter Kennett, Earth Science Education Unit, Keele University

Elizabeth Devon, Earth Science Education Unit, Keele University

NAGT Annual Meeting Materials 2008

This is a full set of all meeting materials, including those that will be provided at the meeting itself.

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Fostering improvement in the teaching of earth sciences at all levels since 1938

Saturday, October, 4, 2008

Agenda

Executive Committee Meeting 8:30 am to 9:30 am

G R Brown Convention Center Room 352C

8:30 - 8:45 Welcome, President's Comments, Approve Draft 2008 Mid-year Meeting minutes

8:45 - 9:30 Preparation for Council Meeting (agenda below)

- * Discussion of Council Meeting Agenda

- * Additions to Council Meeting Agenda

9:30 - 9:45 Break

Executive Committee and Council Meeting 9:45 am to 12:30 pm

G R Brown Convention Center Room 352C

9:45 - 10:45 Constitutional Revision

- * Q&A Regarding Proposed Changes Constitution/Bylaw changes (David Steer)

- * Next Steps in Adoption Process

10:45 -11:45 Journal of Geoscience Education

- * Introduction of New Editors and Overview of Proposed Changes - (David Steer)

- * Discussion of JGE On-line

11:45 -12:30 Section/Societal Collaborations

- * Sponsorship of workshop request (Scott Eaton)

- * Comments from the Floor on the current state of section/societal collaborations

- * Brainstorming Session on where we might want to go with these collaborations (joint projects, communications etc) - one possible focus here might be education policy work

12:30-1:30 Lunch

Executive Committee Meeting 1:30 pm to 4:30 pm

G R Brown Convention Center Room 352C

1:30 -2:15 Financial Report

- * Operating Budget

- o Budget Report
- * Oakmark Account
- * Contribution Mechanics
- * Audit Report (motion to accept needed) Draft report
- 2:15 -3:10 Misc Business
- * Committee and Position Appointments (Eric Riggs)
 - o Section Liaisons Current Assignments
 - o GIP
 - o Field Camp Scholarships
 - o OEST
 - o AGI Environmental Science Advisory Comm Rep.
 - o NSTA/NESTA
 - o GSA Allied Societies
 - o Outstanding Teaching Assistant Awards (to assist Bob Christman with publicity)
- * Distinguished Speaker Program: budget & committee structure questions (Cathy Manduca)
- * Distinguished Service Award (Gene Pearson)
- * Awards Process (David Steer)
- * Membership Committee (Mike Taber)
- * Climate Change Statement and Working Group (Mike Taber)
- * Sponsorship Requests (Eric Riggs)
- 3:10 -3:20 Break
- 3:20- 4:30 Discussion Items
- * Next steps for publication projects
 - o Promoting Living Earth - what is our stance? How can we both promote this NAGT product and support the work of our members who author texts?
 - o NAGT Lab Manual - Existing publication and new project - scope, timeline, publisher, partners?
- * Collaborations with AGI - how can we best capitalize on being a member society and support our joint interest in Geoscience Education?
 - o Education Science Policy Collaboration
 - o Earth Science Week
 - o others?

Sunday, October 5, 2008

Executive Committee Meeting 9:00 am to 11:00 am

G R Brown Convention Center Room 352C

9:00 -10:00 JGE - Julie will attend meeting on Sunday only -

- * next steps in Editor transition
- * JGE on-line -- next steps in understanding member needs/desires
- * Best Paper Award

10:00 -11:00 Other unfinished business

11:00 - Break & adjourn to NAGT/GSA Luncheon, 11:30-1:00 - Hilton Americas
Lanier Grand Ballroom D

Items supporting follow up

Draft letter to Larson Allen to be signed by an officer (Gene Pearson?) &
executive director.

**National Association of Geoscience Teachers
Mid-Year Executive Committee Meeting
April 26th and 27th, 2008 ~ Evansville, Indiana
Minutes – DRAFT – Revised 15 May 08**

Members Present: Carl Drummond [via telephone] Jeff Knott, Cathy Manduca, Gene Pearson, Eric Riggs, David Steer, Jeff Ryan, Mike Taber [via telephone]

Staff Present: Bill Bruihler, Wanitta Thompson

SATURDAY, APRIL 26

President Eric Riggs called the meeting to order at 8:30am.

Approval of Minutes

Members of the Executive Committee reviewed the minutes of the October, 2007 meetings of the Council and Executive Committee. **Motion by David Steer/seconded by Jeff Knott to approve the minutes. Motion passed unanimously.**

I. NAGT BUDGET AND ENDOWMENT

1. 2007-08 Budget and Management

Executive Director Cathy Manduca distributed a budget spreadsheet showing the current status of year's budget. The projected revenues appear to be consistent with the budget. Membership dues and subscriptions should meet targets. Areas of uncertainty include revenue from JGE page costs and royalty income.

Executive Director Manduca reported that expenditures will be over budget on the following items:

- 1) An approximate \$10K overrun in the amount budgeted for executive director staff. These overages result from unexpected one-time challenges in transferring the Oakmark account, setting up the audit and obtaining insurance.
- 2) AIP membership costs were \$10K greater than expected when the budget was set last year.
- 3) Additional website costs resulting from the transition and improvements to the site.
- 4) Shipping costs for booth set-up at AGU, GSA and NSTA were greater than anticipated.

As soon as the over runs were identified Executive Director Manduca discussed them with President Riggs and Treasurer Pearson for guidance. The Executive Committee agreed that this was the appropriate way to handle budget questions. The President may always include others in the discussion, if appropriate.

ED Manduca reported that the auditors still have a few questions before submitting a final report, but as yet have not reported any irregularities.

Bill Bruihler reported on the status of NAGT insurance. He is currently working with an insurance agent that specializes in non-profit insurance. The new policy will cover general liability for the National Office and will also cover NAGT sections and field trips. It will not include publishing insurance for JGE. It was recommended that once the policy is in place, information be placed on the NAGT website so that sections will know what requirements they must meet in order to ensure coverage. Motion by Gene

Pearson/seconded by David Steer to authorize the Executive Director to finalize the proposed insurance policy. Motion carried unanimously.

The Executive Committee discussed the AIP overrun. What had thought to have been a set-up fee in last years budget was actually just the ongoing costs of the AIP services. Bill Bruihler reported that for each \$45 member dues, AIP services cost \$18. Executive Director Manduca is exploring ways to maximize AIP services to both the sections and national office. The Executive Committee will continue to monitor AIP services and costs.

2. Preliminary Discussion of the 2008-09 Budget

Executive Director Manduca distributed copies of the proposed 2008-2009 Budget. She indicated that amounts of income from endowed funds included in the budget are based on the NAGT Endowment Policy approved at the October 2007 meeting. The budget item for the staff of the Executive Director will be maintained at \$39K in the 2008-09 budget. This amount should cover existing responsibilities. If the Executive Committee assigns additional responsibilities to the Executive Director, additional budget support will be needed.

3. Donation and Endowment Issues

Gene Pearson reviewed the following three recommendations regarding donation procedures.

- 1) The NAGT home page should have a “Support NAGT Programs” link and a page which provides details about the various NAGT restricted and non-restricted funds
- 2) The four donation options [Field Course Scholarship; Minority Support; Dottie Stout; NAGT Programs] available on the AIP/NAGT website should be continued but that the Executive Director should explore with AIP the option of an “Other” category where an individual can specify a particular purpose for the donation.
- 3) The Executive Director should explore with AIP the possibility of immediate email confirmation of dues and donations similar to the email “receipt” sent by GSA.

Motion by Jeff Ryan/seconded by Jeff Knott that these three recommendations be approved. Motion carried unanimously.

Gene Pearson outlined recommendations regarding NAGT endowed funds. David Steer recommended that donations made to NAGT Programs be used to offset annual expenses and not placed in an endowed account. The Executive Committee agreed to continue the discussion of the recommendations on Sunday.

II. JOURNAL OF GEOSCIENCE EDUCATION

1. JGE Report

Carl Drummond joined the meeting by speaker phone at 10:30am. He reported that the March issue had been delivered to the printers in mid-February and it had taken them a long time to print and distribute it. He reported that the number of submissions and manuscript flow is on track. The apparent high acceptance rate resulted from the number of invited papers for the Diversity issue. The drop in page charge revenues was raised. Carl Drummond suggested that a number of the papers in the Diversity issue came from individuals not supported by institutional or external funding.

2. Recommendation from the JGE Editor Search Committee

David Steer, chair of the search committee [Mike Taber, Eric Riggs and David Steer], reviewed the two proposals that had been submitted. Both proposals included significant institutional support, met budget requirements, and addressed all items requested by the search committee. He reported that both were excellent proposals. One would continue current editorial and delivery practices while expanding the K-12 component of the Journal. The second called for co-editors and proposed migration of the publication from a printed to an online journal with greater online functionality [video/dynamic review], and

subdivision of the journal into sections on pedagogy, research, and commentary. The search committee recommended that the Executive Committee accept the second proposal.

Advantages and challenges of both proposals were discussed at length. Discussion focused on potential impacts on both membership and budget.

Member issues centered on the potential impact on both content and delivery mode change. Would members accept or reject an on-line approach to the journal? Should there be a transition period or ongoing option for a member to receive print copies? Should content changes be made before membership marketing plans are developed? Should there be greater emphasis on classroom pedagogies or research? It was suggested that member input could be obtained through an email survey and open house discussion at the October GSA meeting.

At the October 2007 meeting, the Executive Board had approved implementation of an online manuscript review system using the services of AIP which would remove one of the time consuming aspects of the current editor's position. It was assumed that the costs would be at least partially offset by a reduction of current clerical costs. Carl Drummond reported that currently the printing and distribution costs are about \$10K per issue. Outsourcing digital layout and handling would save time but the cost is not known. An online journal might reduce or largely eliminate the costs of printing and distribution. Would these cost savings be partially or fully offset by layout, handling and housing [server] costs of online publication? Concerns were raised that the Executive Committee does not know the actual costs of a move to online publication this time.

Motion by Gene Pearson/seconded by Jeff Knott to approve the recommendation of the search committee. Motion carried unanimously.

David Steer will contact the two individuals who submitted the second proposal and express Executive Committee concerns about budget issues and the challenges of transitioning to an online JGE. He will work with Carl Drummond and the new editors to enable a smooth editorship transition. Carl Drummond signed off.

3. JGE Best Paper Award

It was agreed that David Steer will work with Carl Drummond and the new editors of JGE to implement the Best JGE Paper Award instituted at the October 2007 meeting.

IV. NAGT/AGI JOINT AGREEMENT OF UNDERSTANDING

Executive Director Cathy Manduca reported that NAGT will receive 15% of the after cost profits of the *Living with the Earth* text. Eric Riggs reported that editing has now been completed on Chapter 10 [of 15 chapters] but that publication may not come in time for promoting the text at the fall GSA meeting.

Executive Director Cathy Manduca distributed the most recent version of the Memorandum of Understanding regarding NAGT/AGI joint publication projects. Questions were raised about the purpose of such an agreement now that the royalty distribution for the environmental text has been set. By consensus agreement, the Executive Committee decided not to go forward with any further development of the document.

Eric Riggs reported that he has held preliminary discussions with Pearson Higher Education regarding publication of a lab manual that could be adopted by instructors using *Living with the Earth*. Work will not start on the Lab Manual until the text is completed and the lab manual will be designed to work with

other environmental textbooks in addition to *Living with the Earth*. The lab manual, may or may not, be developed as a joint project.

Eric Riggs reconvened the meeting at 1:05pm.

V. MEMBERSHIP ISSUES

1. Current Membership

Executive Director Cathy Manduca distributed NAGT membership records for the period 1998 to 2008. Over that period membership numbers have varied from a high of 1887 in 2001 to a low of 1445 in 2005. On December 31, 2007 the membership was 1618, 10 less than on December 31, 2006. The concern that the change to AIP services might result in a loss of members has not yet materialized. The Executive Committee reviewed a report prepared by Lori Carlin of AIP. At the end of December, 2007: NAGT membership included 1242 Regular members; 122 K-12 teachers; 123 retired members; 112 students members and 17 life members. At this point in 2008, JGE subscriptions stand at 524 compared to 556 in December, 2007 and 544 in December, 2006. It was noted that we have 77 foreign members. Eric Riggs will be attending an international conference this summer and suggested increasing the number of foreign members of NAGT might be one aspect of a membership growth plan.

2. Membership Committee

Mike Taber, chair of the ad hoc Membership Committee [Bruce Rueger, Cathy Manduca, Karen Havholm], asked for a clarification of the charge to the committee.

It was agreed that one of the first task of the committee would be to analyze current AIP demographic data. The committee should also make recommendations regarding changes/additions of demographic categories currently employed on the AIP website. For example instead of just four year college, the choices might refer to the highest degree offered by the department. It was requested that the membership committee present a report on these items at the October meeting.

The Executive Committee was concerned who are members are, are we serving their needs and how might we better serve them? As we consider membership growth, NAGT should address the following questions: what should be the makeup of our membership? Which of the current membership groups should we target for growth? What services/programming should NAGT be ready to provide? It was suggested that answers to these questions would also have an impact on new directions for JGE.

[Note: Mike Taber who was prevented from attending the meeting because of delayed/canceled flights on Friday joined the meeting at 2:55pm via cell phone. Eric reviewed the steps raised by the Executive Committee regarding the charge to the membership committee: 1) analyze existing data and 2) determine what other types of data should be collected.]

VI. AWARDS AND AWARDS CEREMONIES

1. Proposal for a NAGT Distinguished Service Award

Gene Pearson described the proposal that an award be established recognizing distinguished service to NAGT at the national and/or section level. The award would be presented at the discretion of the Executive Committee. It is not to be considered an annual award.

Motion by David Steer/seconded by Jeff Knott that the Robert Christman Distinguished Service Award be established. Motion carried unanimously.

Motion by David Steer/seconded by Gene Pearson that Robert Christman be the first recipient of the Robert Christman Distinguished Service Award. Motion carried unanimously.

The Executive Committee asked that Gene Pearson make recommendations on procedures to institutionalize the award at the October meeting.

2. Other Awards

David Steer was asked to present recommendations to streamline the nomination process for the James Shea and Neil Miner Awards. He will contact Carl Drummond regarding the Shea Award.

3. GSA Luncheon and Other Award Ceremonies

The length of the NAGT/GSA Luncheon Award presentation was discussed. It was suggested that the person presenting the award recipient provide a brief executive summary and not restate any of the information that is mentioned in the citation printed in the program. The presenters might be reminded that the response from the award recipient is the focus of the program. It was suggested that the outgoing NAGT president mention some of the exciting things that had happened in the previous year.

A discussion followed regarding whether it would be more appropriate to present the Robert Christman Distinguished Service Award at the NAGT/GSA luncheon or at an afternoon reception like the one which honored Ian MacGregor last year. One possibility would be to mention the recipient of the Christman Award at the luncheon but reserve the reading of the citation, the presentation of the award, and the response at an afternoon reception.

VII. 2008 OFFICER ELECTIONS

Cathy Manduca reported that this year's nominations include Janice Treworgy ~ candidate for Second Vice-president, Aida Awad ~ candidate for Councilor-at-Large, and Bob Blodgett ~ candidate for Councilor-at-Large. Online voting will begin shortly. Since new officers take their place at the October meeting, they should be added to the email list prior to the GSA meeting so that they are prepared to be active participants at the meeting and be aware of other responsibilities in addition to attendance at the Executive Committee and Council meetings during the GSA meeting. Karen Halvholm and Jeff Knott were assigned the responsibility of updating officer responsibility list on the NAGT website. A concern was raised that some members of the Executive Committee may not have been aware that attendance at the mid-year Executive Committee meeting was one of the responsibilities.

VIII. REVISED NAGT CONSTITUTION AND BYLAWS

David Steer presented the revised version of the Constitution and Bylaws.

A question was raised concerning Article VIII Publications. It was suggested that wording be changed to indicate that NAGT News and the NAGT website are official publications of the Association and that the JGE is the primary scholarly publication of the Association.

The following changes in the Bylaws were recommended:

- 1) Elimination of Bylaw IV, Section 5 – Executive Representative ~ the responsibilities of the Executive Representative are now distributed to members of the Executive Committee.
- 2) Elimination of the following sections from Bylaw VI ~ Section 1: Outreach Committee, Section 5: Committee on Committees and Section 7: Fundraising Committee
- 3) Rephrasing the third sentence of Bylaw IV, Section 4: Secretary/treasurer to read “The Secretary/treasurer will assist the Executive Director in the preparation and presentation of budgets and other financial reports.” Elimination of the fourth sentence which makes reference to fundraising.
- 4) Elimination of Bylaw III, Section 4: Honorary Members

It was suggested that the revised constitution be reviewed by the consortium of attorneys that provide low-cost legal advice to non-profit organizations.

IX. NAGT POSITION STATEMENT ON TEACHING CLIMATE CHANGE

The members of the Executive Committee discussed the DRAFT Position Statement on Teaching Climate Change submitted by the drafting committee of Andy Buddington [chair], George Stone, Mark Chandler and Scott Linneman.

There was a consensus that the committee had provided an excellent statement, but that the tone of the first paragraph was a bit too provocative. It was suggested that the statement begin with the second paragraph and that the last sentence of the first paragraph be added to the second paragraph. It was suggested that the words “emission of greenhouse gases” in the last sentence of the third paragraph be changed to “human impact on climate change.”

It was suggested that there be fewer bulleted recommendations and that the NAGT action strategies be contained in a separate document addressed to the Executive Committee. Eric Riggs will send an email to Andy Buddington with the Executive Committee suggestions and ask that the Committee submit a revised document to the Executive Committee by August 1 for posting on the NAGT website for member comments by August 7.

X. SECTION ISSUES

Eric Riggs reported that the April 24-25 Central section meeting in conjunction with the GSA North-Central section had gone very well. Several NAGT sections regularly have joint meetings with GSA sections. It was suggested that joint meetings with GSA sections might be a way to strengthen NAGT sections that are currently inactive or struggling.

Gene Pearson reported that the Far Western section had held a very successful field conference on March 14-16 that was jointly hosted by Palomar College, Mira Costa College and California State University at San Marcos. Most of the FWS officers are community college instructors.

Cathy Manduca will convene the ad hoc committee [David Steer, chair, Ian Macgregor, Pam Gore, Cathy Manduca] which is working with section liaisons to determine how AIP services can be most effectively used.

SUNDAY, APRIL 27

Eric Riggs reconvened the meeting at 8:35am.

XI. ENDOWMENT AND RESTRICTED FUND RECOMMENDATIONS

Gene Pearson presented the following motions regarding NAGT restricted funds.

- 1) To honor the intent of the original donors, the “NAGT Restricted Endowment” will be designated the Field Course Scholarship Endowed Fund.
- 2) Income from the Horberg, Rosalsky and Field Course Scholarship Endowed Funds will be used to support the annual NAGT field course scholarship program in accordance with the NAGT Endowment Policy.
- 3) The Executive Committee shall establish the NAGT Endowment. Income from the NAGT Endowment will be used to support the annual operating budget in accordance with the NAGT Endowment Policy

- 4) The Executive Committee shall establish the NAGT Reserve Fund. Upon authorization from the Executive Committee, monies from the NAGT Reserve Fund may be used to support any NAGT programs including the ongoing operations of the Association.

Gene Pearson moved/Jeff Knott seconded approval of each of the four motions. Carried unanimously.

Gene Pearson presented the following motion.

- 5) The Executive Committee authorize \$90,000 from the “Unrestricted Endowment” be used to fund the NAGT Reserve Fund and that the remaining monies in the “Unrestricted Endowment” be used to establish the NAGT Endowment.

It was agreed to postpone action on the motion until Mike Taber had joined the meeting via cell phone.

XII. GSA MEETING, OCTOBER 2008 ~ PLANNING

There was general agreement that the “Matrix of Responsibilities” distributed before last year’s GSA meeting had been very helpful. Jeff Ryan reminded the Executive Committee that once again there is a conflict between workshops and the Executive Committee and Council meetings and wondered if the location of the Executive Committee/Council meeting could be relocated. Cathy Manduca stated that GSA schedules rooms for meetings and that they had already been scheduled.

The AGI/NAGT leadership meeting will take place on Tuesday October 7 from 1-3pm. Mike Taber, Eric Riggs, David Steer and Cathy Manduca will attend. Possible topics include collaborations on “Earth Science Week”, workforce issues and assessment of curricula. David Steer will convene 5-7 key NAGT members from the Texas section for a working dinner to discuss ways to reinvigorate their section. Cathy Manduca will work with Julie Libarkin on a joint NAGT/GSA Education Division reception for geoscience education researchers.

Eric Riggs asked that Executive Committee members submit agenda items for the Executive Committee/Council meetings.

XIII. FUTURE MEETINGS AND INITIATIVES

David Steer announced that the 2009 mid-year meeting be tentatively held in conjunction with the Southeastern section meeting on March 7th and 8th in St Petersburg, Florida.

Future NAGT action initiatives might include:

- finalizing the teaching climate change position statement
- work on the climate, ocean, atmosphere and earth science literacy initiatives jointly with NSF
- initiating a teaching sustainability initiative and position statement
- encouraging schools to adopt AP environmental science courses

It was suggested that NAGT work with Jill Karsten at NSF to explore potential collaborations, possibly in the area of geoscience education and the NSF literacy initiative. It was suggested that Cathy Manduca and Jeff Ryan meet with Jill Karsten this June in conjunction with the Early Career workshop.

XIV. 2008-09 BUDGET

Mike Taber joined the meeting via speaker phone.

Gene Pearson explained the rationale for creating both an endowment and a reserve fund. Members of the Executive Committee concurred that with the Executive Director transition and the JGE editor transition it would be good to have a reserve fund until final costs can be determined.

Gene Pearson moved/seconded by David Steer that the Executive Committee authorize \$90,000 from the “Unrestricted Endowment” be used to fund the NAGT Reserve Fund and that the remaining monies in the “Unrestricted Endowment” be used to establish the NAGT Endowment. Motion carried unanimously.

Cathy Manduca reviewed the proposed 2008-09 budget that had been presented to the Executive Committee on Saturday.

David Steer moved/seconded by Jeff Knott that the Executive Committee approve the 2008-09 Budget as presented and that up to \$23,200 from the NAGT Reserve Fund be used to offset 2008-09 expenditures, if needed. Motion passed unanimously.

XV. JGE EDITOR TRANSITION

Several issues regarding the change in the JGE Editor position need to be clarified. These include budget items, clarification of the contract with Angel Publishing, and transfer of duties. Cathy Manduca stated that having a transition team was very helpful when she became the Executive Director.

David Steer moved/seconded by Gene Pearson that a transition team be established that would include Carly Drummond, Cathy Manduca and the members of the search committee [David Steer, Mike Taber, and Eric Riggs]. Motion carried unanimously.

XVI. NAGT REPRESENTATION WITH OTHER PROFESSIONAL SOCIETIES AND ORGANIZATIONS

The following Executive Committee members will represent NAGT.

- GSA Allied Societies: Eric Riggs
- NSTA and NESTA: will likely be Janice Treworgy or Aida Awad
- CUR: Jeff Ryan
- AGU: Jeff Ryan
- AMS: Mike Taber
- AAAS: Cathy Manduca
- AGI: David Steer
- JTPC [GSA 2008 Program Committee]: Mike Taber

Mike Taber agreed to be the NAGT representative to the American Meteorological Society. He will represent us at the AMS meeting in February of 2009. It was suggested that NAGT form a working group to address climate issues and to recommend actions and collaborations. The members of this working group should include Mike Taber and the members of the drafting committee for the Position Statement on Teaching Climate Change.

XVII. STRATEGIC PLANNING

Mike Taber stated that one of his goals for next year is to actively develop collaborations with professional associations and organizations involved with the Earth Sciences. He suggested that it might be possible for NAGT to sponsor joint sessions at the American Meteorological Society meetings. He pointed out that about half of the AP Environmental Sciences covers the biological sciences and that NAGT may wish to partner with professional societies involved with pedagogical issues in the biological sciences. A second goal is to increase NAGT collaborations and contacts with international organizations involved with the teaching of earth sciences and possibly expanding the Cutting Edge Early Career workshops to include individuals beyond the geosciences.

Jeff Ryan informed the Executive Committee of the NSF [Division of Undergraduate Education] Advanced Technical Education [Division of Undergraduate Education] grants that address workshop issues at the Community College level. These grants can support a variety of initiatives including course and curricular articulation efforts between 2-year and 4-year colleges, in-service teacher training, and faculty professional development. He reported that the Council on Undergraduate Research was the

recipient of an ATE grant. Jeff Knott suggested that CSU Fullerton might apply for a grant in connection with educational opportunities to support teacher workshops at their ZZYZX desert research station. Executive Director Cathy Manduca suggested that NAGT's web site could serve as the online forum for the distribution of materials.

Motion by David Steer/seconded by Jeff Knott that the Executive Committee mid-year meeting be adjourned. Motion passed unanimously.

Respectfully submitted,

Gene Pearson
Secretary/treasurer

NAGT Constitution

Approved XXXX, 2009

As amended April 1, 1953; March 28, 1955; October 28, 1958; December 1962; April 1, 1966; November 1968; November 1969; November 1971, November 1976; November 1978; September 1982; August 196[8]3; November 1987; October 1990; October 1991; October 1993, October 1995, October 1998; and XXXX 2009.

Article I - Name

The name of the organization shall be the *National Association of Geoscience Teachers, Inc.**, hereinafter referred to as the Association.

*Prior to October 1995, known as National Association of Geology Teachers.

Article II - Purposes

The purposes of this Association shall be 1) to foster improvements in the teaching of the earth sciences at all levels of formal and informal instruction, 2) to emphasize the relevance and cultural significance of the earth sciences and 3) to disseminate knowledge in this field to educators and the general public.

Article III - Organization

Section 1 - General

The affairs of the Association shall be carried out by elected officers who shall have the authority to hold general meetings, to issue publications, to collect dues, and to take other action as may fulfill the general purposes of the Association. No part of the net earnings of the Association shall inure to the benefit of any individual including, without limitation, the directors, officers, or members of the Association, except as reasonable compensation for services actually rendered to the Association in effecting one or more of its purposes. The Association shall not participate in, or intervene in any political campaign on behalf of any candidate for public office (including the publishing or distributing of statements).

Section 2 – National Officers

The National *Officers* of the Association shall be President, Vice-President, Second Vice-President, Secretary/treasurer, Editor, Executive Director and six Councilors-at-Large. Duties, rights and responsibilities of the Officers are set forth in the Bylaws.

1. Elections shall be held annually by ballot at least forty (40) days prior to the Annual Meeting with elections lasting no less than 30 days. At least sixty (60) days prior to the beginning of the election, the Nominating Committee shall present to the Executive Director a list of nominations to be sent to the membership of the Association. The ballots shall indicate one nomination for President (incumbent Vice-President), Vice-President (incumbent Second Vice-President), Second Vice-President, Secretary/treasurer (every third year), and Councilors-at-Large. There will be write-in privileges for all offices except President and Vice-President. The Executive Director shall serve as teller and report the results of the ballots at the Annual Meeting.
2. The President and Vice-President shall serve one-year terms. A person that serves a full term as President, or Vice-President, or Second Vice-President, may not succeed himself/herself in that office. Upon expiration of the term of the President, or in the event the President were

CONSTITUTION/BYLAWS

unable to complete his/her term, the Vice-President shall become the President and the Second Vice-President shall become the Vice-President. If necessary, an Acting Second Vice-President may be appointed by the President with the consent of the Executive Committee.

3. The Secretary/treasurer shall be elected for a three-year term, and may be re-elected to one additional consecutive three-year term. If necessary, the President, with the consent of the Executive Committee, may appoint an Acting Secretary/treasurer.
4. The Councilors-at-Large shall be elected for one-time renewable, three-year staggered terms. Two of the six Councilors-at-Large shall be elected each year, with concern for providing balanced representation of the membership. In the event that a position is vacated during the term, the President may appoint a member in good standing to fill it until the next annual election.
5. Elected Officers shall serve from the Annual Meeting following their election to the beginning of the Annual Meeting occurring at the end of their elected term of Office.
6. The Executive Director and Editor(s) are non-voting National Officers of the Association and are appointed by the Executive Committee.

Section 3 – Executive Committee

The National Officers of the Association and the immediate Past-President of the Association shall constitute the *Executive Committee*. The Executive Committee shall have authority to expend funds and take other fiscal actions on behalf of the Association membership provided that no financial obligations are incurred that exceed the resources of the Association available during the current fiscal year. The Executive Committee will be responsible for such other actions as are delegated to it under the Articles of the Constitution and the Bylaws of the Association. The Executive Committee shall meet at least once a year. Decisions will be made by a vote of a quorum consisting of at least six members of the Executive Committee.

Section 4 - Council

The National Officers of the Association and the immediate Past-President (i.e. the Executive Committee), the President (or his/her representative) from each regional section, Official Representatives to other geoscience associations shall constitute the Council of the Association. The Council is advisory in function. It shall make recommendations regarding policy, and shall review activities of the Association at least once a year.

Section 5 – Committees of the Association

The Association shall have standing and ad-hoc committees as needed to conduct activities of the organization as set forth in the Constitution, Bylaws and as established by the Executive Committee. Procedures governing the establishment and activities of committees are set forth in the Bylaws.

Section 5 - Regional Sections

The units of the Association are Regional Sections. Association members may propose to organize a Regional Section to represent a specific geographic area in which they reside. Procedures governing the establishment and conduct of the Regional Sections and for affiliation of active members there within are set forth in the Constitution and the Bylaws.

Section 6 – The Corporation

The management of the property, affairs and businesses of the Association is vested in a corporation known as the National Association of Geoscience Teachers Incorporated, hereafter and in the Bylaws referred to as the Corporation. The Board of Directors of said Corporation is the Executive Committee of the National Association of Geoscience Teachers.

Article IV - Membership

Members shall be persons who are or have been engaged in some aspect of geoscience education or who are or have been engaged in the gathering and dissemination of geoscience information. Membership in good standing is established through application and payment of current dues as specified by the Executive Committee. Categories, rights and privileges of membership categories are in accordance with the Constitution and Bylaws.

Article V - Amendments

Amendments to this Constitution may be proposed by the Executive Committee or submitted to the Executive Director in writing by at least 25 association members in good standing. In either case, the Executive Committee shall submit such proposed amendments to the members, in writing, within one year of the date of the original petition, together with a ballot which must indicate the closing date for voting. The results of the vote shall be tabulated and announced to the membership. An amendment shall be considered adopted if favored by the majority of those voting, provided that such majority constitutes at least 1/5 of the entire membership of the Association.

Article VI - Bylaws

Section 1 - General

The Executive Committee shall establish such Bylaws and Amendments to the Bylaws as may be needed to accomplish the purposes set forth in this Constitution.

Section 2 – Procedures

Bylaws as necessary for the proper governance of the Association may be enacted or modified by the vote of two-thirds of the members of the Executive Committee entitled to vote. Such changes become operative not less than 90 days after adoption provided that such Bylaws do not in any way modify or conflict with this Constitution and that each section shall have been advised of the amendment to the Bylaws within 30 days after its adoption. If more than one section objects in writing to the Executive Director within 90 days after its adoption, said amendment shall be held in abeyance until the next Annual Election, at which time a majority vote of the eligible members shall be required for its adoption and for it to become immediately operational. Bylaws or amendments to existing Bylaws that are required as a consequence of changes in the Constitution may be enacted by a majority vote of the Executive Committee at the time that the change in the Constitution is approved by the Association. The proposed changes in the Bylaws shall have received prior consideration by the Executive Committee and shall be presented to the sections with the relevant proposed amendment to the Constitution.

Article VII - Meetings

There shall be at least one Business Meeting of the Association each year, called the *Annual Meeting*. The Annual Meeting is open to all members in good standing, but must include a quorum from the Executive Committee. The agenda of the Annual Meeting shall include current business of the Association, matters of association policy, reports of committees, and the announcement of the ballot count on the election of officers. The President or a Vice-President shall serve as the presiding officer of the Annual Meeting. The presiding officer may limit debate for the purpose of maintaining the time schedule. Other meetings shall be held by direction of the President.

Section 1 – Rules of Order

Meetings of the Executive Committee and Association shall be conducted in accordance with the current edition of Robert's Rules of Order Newly Revised, except when in conflict with the Constitution or Bylaws, in which case the Constitution or Bylaws shall prevail.

Article VIII- Publications

The NAGT website and NAGT News are official publications of the Association. The *Journal of Geoscience Education** is the primary scholarly publication of the Association. The Journal shall be managed by an Editor(s) in accordance with guidelines set forth in the Bylaws. The Association may sponsor other publications in the field of teaching of geosciences as circumstances and resources justify and permit.

* Prior to October 1995, known as *Journal of Geological Education*.

Article IX- Dissolution

Upon dissolution or termination of the existence of the Association, all of its property and assets shall, after payment of the lawful debts of the Association and the expenses of its dissolution or termination, be delivered, conveyed, and paid over to the American Geological Institute provided it exists and is, at the time, exempt under the provisions of Section 501(c)(3) of the Internal Revenue Code. Should the American Geological Institute be ineligible to receive such assets, those remaining assets will be distributed to a 501 (c)(3) qualifying organization as determined by majority vote of the Executive Committee.

Bylaws

Bylaw I - Fiscal Year

The fiscal year of the Association shall extend from September 1 to August 31.

Bylaw II - Dues and Subscriptions

Section 1.

The dues of the Association shall be established by Executive Committee action, according to the needs of the Association, with appropriate notice to be published in the *Journal of Geoscience Education*. For each paid member of a section which has been designated by the Executive Committee as active and which has filed an annual financial report with the Executive Director, the Association will remit a sum of money to the section for carrying out its functions. For purposes of this remission, a Section shall be declared "active" if it has a full slate of elected officers and the Section has done at least one of the following during the previous year:

- * conducted a section conference and/or field trip;
- * selected an OEST awardee;
- * distributed a newsletter to the members of their section; or
- * conducted a planning meeting, attended by at least three of the section officers. The amount to be remitted per member will be determined by the Executive Committee annually. Sections have the option of assessing additional dues.

Section 2.

Dues are to be paid by December 31 and cover the succeeding year; they become delinquent January 1 with suspension of the *Journal* beginning with the next issue. All members of the Association, whether affiliated or unaffiliated with a regional section, will pay the annual dues using procedures approved by the executive committee.

Section 3.

The Executive Committee may, in response to an appeal from a new or small section, authorize small grants to such section to supplement section dues.

Section 4.

The subscription price for the *Journal of Geoscience Education* for non-members shall be established by the Executive Committee, according to the needs of the Association.

Bylaw III - Membership Categories and Privileges

Section 1 - Active Members

Active Members are those persons who meet the provisions of Article IV of the Constitution. Active members will automatically be affiliated with the regional section in which they reside unless they request transfer to another section or request not to affiliate with any section. Active members participate in the governance of the Association in the manner and to the extent set forth in the Constitution and Bylaws.

Section 2 - Student Members

Student Members shall be persons who meet provisions of Article IV, but whose primary enterprise is studying toward any degree in the geosciences, or those whose primary employment is as a teaching assistant or fellow in a graduate geoscience program. Student members have all the benefits, privileges and rights of other active members.

Section 3 – K-12 Teacher

K-12 Teacher Members shall be persons who meet provisions of Article IV, but are or have been engaged in some aspect of teaching of the geosciences at the K-12 levels. K-12 members have all the benefits, privileges and rights of other active members.

Section 4 - Honorary Members

Honorary Members shall be members of long standing in the Association or other distinguished individuals whom the Association wishes to honor who meet provisions of Article IV. Honorary members may be nominated by any active or honorary member, and are elected for life by unanimous vote by of the Executive Committee. Honorary members are not required to pay dues and shall have all the rights and privileges of active members, except that they shall not vote nor hold office in the Association. The total number of honorary members shall not normally exceed 1% of the total membership.

Section 5 - Retired Members

Members in good standing who meet provisions of Article IV, but have retired from their primary career shall be, upon their request to the Secretary/Treasurer, entitled to all the rights and privileges of active members, and these (retired) members shall pay dues at a reduced rate set by the Executive Committee. Retired members have all the benefits, privileges and rights of other active members.

Bylaw IV – Officer and Editor Responsibilities

Section 1 - President

The *President* shall be the Chief Executive Officer of the Association and shall preside at all business meetings of the Association and the Executive Committee. He, or she, shall be an *ex officio* member of all committees.

Section 2 - Vice-President

The *Vice-President* shall be the President-Elect, the succession to President being automatic. The Vice-President shall assume the duties of the President in the event of the absence or disability of the President. The Vice-President shall also be an *ex officio* member of all committees.

Section 3 - Second Vice-President

The *Second Vice-President* shall be Vice-President Elect and shall assist the Vice-President. The Second Vice-President shall assume the duties of the Vice-President in the event of absence or disability of the Vice-President, and shall assume the duties of the President in the event both the President and Vice-President are absent or disabled. The Second Vice-President shall also be an *ex officio* member of all committees.

Section 4 - Secretary/Treasurer

The *Secretary/treasurer* will be entrusted with the financial welfare of the association. The Executive Director will send periodic reports to the Secretary/treasurer. The Secretary/treasurer will assist the Executive Director in the preparation and presentation of financial reports and the proposed budgets. With the assistance of the Executive Director, the secretary/treasurer will prepare and present the financial report and the proposed budget for the following year at the annual meeting. The Secretary/treasurer is also responsible for taking and distributing minutes for all regularly scheduled meetings of the NAGT Council and Executive Committee. The Treasurer shall have the authority to expend funds in accordance with the adopted annual budget or for other business of the Corporation by direction of the Executive Committee.

Section 5 - Executive Director

The Executive Director works closely with the Executive Committee to promote and serve the mission of the NAGT and coordinates its major programs and functions for essential annual operations. With the assistance of the Secretary/treasurer, the Executive Director prepares and presents the financial report and the proposed budget for the following year to the Executive Committee for approval prior to the start of the fiscal year. The Executive Director shall have the authority to expend funds in accordance with the adopted annual budget or for other business of the Corporation by direction of the Executive Committee.

Section 6 - Councilors-At-Large

Six *Councilors-at-Large* normally bring a variety of expertise and professional backgrounds to the Executive Committee. Councilors shall attend all Executive Committee meetings and be responsible for specific administrative tasks mutually agreed upon in the Executive Committee.

Section 7 – Editor, Journal of Geoscience Education

The *Editor(s)* shall be appointed by the Executive Committee for a five-year term coinciding with the editing of five complete volumes of the *Journal of Geoscience Education*. He/she may be re-appointed for additional terms without limit. The Editor shall be responsible for all formal publications sponsored by the Association. An associate editor and/or editorial board may be nominated by the Editor and confirmed by the Executive Committee to assist the Editor in carrying out the duties of this office.

Bylaw V- Organizational Representation

Section 1.

All the Association's organizational representatives shall be appointed by the Executive Representative, subject to approval by the Executive Committee. No terms of office shall be designated except those specified by the reciprocal organization.

Bylaw VI - Standing Committees

Section 1. Robert Christman Award Committee

The Executive Committee administers the selection of the Robert Christman Award to recognize individuals who have provided exceptional service to the Association over a significant period of time. The service may have been at the national and/or section level. Awardees are selected by the Executive Committee with the concurrence of the Council. The frequency of award presentations is left to the discretion of the Executive Committee.

Section 2. Neil Miner Award Committee

This Committee administers the selection of the recipient of the annual Neil Miner Award for "exceptional contributions to the stimulation of interest in the geosciences". The Committee is composed of the President of the Association, who serves as Chair, the immediate Past-President; the Secretary/treasurer; and two members recommended by the Executive Committee. No one may serve as an appointed member for more than two years in succession. The Committee shall select the recipient of the Neil Miner Award.

Section 3. Outstanding Earth Science Teacher Award Committee

This is a Committee to administer the annual Outstanding Earth Science Teacher Awards for "exceptional contributions to the stimulation of interest in the earth sciences at the secondary school level", and for excellence in teaching at the secondary level. Candidates for this award are nominated in each section annually. Nominations will be made to the President of each section who will arrange for the Section Selection Committee. This Committee shall then select the recipient of the Award for the particular section. The presentation of the awards to each section recipient will ordinarily be made at a section meeting and/or before an appropriate audience by one of the section officers. In addition, sections may hold individual state competitions to select OEST State Winners. The Chair of the Outstanding Earth Science Teachers Awards Committee shall see to the preparation of all awards. The Chair is appointed by the Executive Committee. Two other members are recommended by the Executive Committee. Their term of office is two years. The remainder of the Committee consists of one representative from each section which participates in the OEST program. Section Representatives shall be selected by their section and their term of office shall be specified by their section.

Section 4. Nominating Committee

This Committee shall present to the Executive Director a list of nominations to be sent to the membership of the Association. There shall be at least one nomination for President (incumbent Vice-President), Vice-President (incumbent Second Vice-President), Second Vice-President, Secretary/treasurer (every third year), and Councilors-at-Large. The Committee shall be composed each year of the five most recent available Past-Presidents of the Association, the immediate Past-President serving as Chair. Tenure will begin each year following the Annual Meeting. Should it become necessary to depart from this committee composition because of emergency or other difficulty, the current President of the Association shall make necessary appointments from the membership.

Section 6. James H. Shea Award Committee

The James H. Shea award is given annually by the Association for exceptional contributions in the form of writing and/or editing of geoscience materials (broadly construed) that are of interest to the general public and/or teachers of geoscience. It is given only for outstanding work. The Committee consists of five members, four of whom are appointed by the Executive Committee for staggered four-year terms (one new member is appointed each year for a four-year term. The Editor of the *Journal of Geoscience Education* is an *ex officio*, voting member of the committee. The senior member of the Committee (that member who is in the last year of his/her term) serves as the Chair of the Committee. The Committee is responsible for reviewing nominations, selecting the recipient and arranging for appropriate recognition.

Section 8. Investment Committee

The Investment Committee is responsible for reviewing the performance of investments and recommending changes to the Executive Committee in accordance with the National Association of Geoscience Teachers endowment policy. The Committee is composed of a chair and three other members as directed by the Executive Committee. The membership of the Investment Committee will include the Second Vice President and two NAGT at-large members appointed by the Executive Committee to 3-year staggered terms.

Section 9. Ad Hoc Committees

The Executive Committee shall establish such Ad Hoc Committees, and appoint their Chair, as may be in the interests of the Association. The specific purpose, number of members, and terms of office shall be specified at the time of the creation of the Ad Hoc Committee. Such stated conditions may be altered only by direct action of the Executive Committee.

Bylaw VII - Conflict of Interest

The purpose of the conflict of interest policy is to protect this tax-exempt association's (Association) interest when it is contemplating entering into a transaction or arrangement that might benefit the private interest of an Officer or Director of the Association or might result in a possible excess benefit transaction. This policy is intended to supplement but not replace any applicable state and federal laws governing conflict of interest applicable to nonprofit and charitable organizations.

a) Definitions. An interested person, for purposes of this conflict of interest policy is any director, principal officer, or member of a committee with governing board delegated powers, who has a direct or indirect financial interest, as defined below:

- 1) A person has a financial interest if the person has, directly or indirectly, through business, investment, or family:
 - a. An ownership or investment interest in any entity with which the Association has a transaction or arrangement,
 - b. A compensation arrangement with the Association or with any entity or individual with which the Association has a transaction or arrangement, or
 - c. A potential ownership or investment interest in, or compensation arrangement with, any entity or individual with which the Association is negotiating a transaction or arrangement.

Compensation includes direct and indirect remuneration as well as gifts or favors that are not insubstantial.

The fact that one of the interests described above has occurred does not necessarily mean that a conflict exists, or that the conflict, if it exists, is material enough to be of practical importance, or if material, that upon full disclosure of all relevant facts and circumstances that a conflict exists precludes board action. The Executive Committee shall determine whether a conflict exists.

b) The Executive Committee shall not enter into any contract or transaction with (a) one or more of its officers, (b) a director of a related organization or (c) an organization in or of which an

officer of the Association is a director, officer or legal representative, or in some other way has a material financial interest unless:

1) Duty to Disclose

In connection with any actual or possible conflict of interest, an interested person must disclose the existence of the financial interest and be given the opportunity to disclose all material facts to the directors and members of committees with governing board delegated powers considering the proposed transaction or arrangement.

2) Determining Whether a Conflict of Interest Exists

After disclosure of the financial interest and all material facts, and after any discussion with the interested person, he/she shall leave the governing board or committee meeting while the determination of a conflict of interest is discussed and voted upon. The remaining board or committee members shall decide if a conflict of interest exists.

3) Procedures for Addressing the Conflict of Interest

a. An interested person may make a presentation at the governing board or committee meeting, but after the presentation, he/she shall leave the meeting during the discussion of, and the vote on, the transaction or arrangement involving the possible conflict of interest.

b. If a more advantageous transaction or arrangement is not reasonably possible under circumstances not producing a conflict of interest, the governing board or committee shall determine by a majority vote of the disinterested directors whether the transaction or arrangement is in the Association's best interest, for its own benefit, and whether it is fair and reasonable. In conformity with the above determination it shall make its decision as to whether to enter into the transaction or arrangement.

4) Violations of the Conflicts of Interest Policy

a. If the governing board or committee has reasonable cause to believe a member has failed to disclose actual or possible conflicts of interest, it shall inform the member of the basis for such belief and afford the member an opportunity to explain the alleged failure to disclose.

b. If, after hearing the member's response and after making further investigation as warranted by the circumstances, the governing board or committee determines the member has failed to disclose an actual or possible conflict of interest, it shall take appropriate disciplinary and corrective action.

The interested Officer may be present for discussion to answer questions, but may not advocate for the action to be taken, cannot be included to establish a quorum for the meeting, and must leave the room while a vote is taken. The minutes of all actions taken on such matters shall clearly reflect that these requirements have been met.

c) Compensation. This subsection shall govern when compensation from this Organization is being determined.

1) A voting member of the governing board who receives compensation, directly or indirectly, from the Association for services is precluded from voting on matters pertaining to that member's compensation.

2) A voting member of any committee whose jurisdiction includes compensation matters and who receives compensation, directly or indirectly, from the Organization for services is precluded from voting on matters pertaining to that member's compensation.

3) No voting member of the governing board or any committee whose jurisdiction includes compensation matters and who receives compensation, directly or indirectly, from the Organization, either individually or collectively, is prohibited from providing information to any committee regarding compensation.

Bylaw VIII - Regional Sections

Section 1- Procedures

A Regional Section shall be organized upon petition of 20% of membership of the proposed section, and affirmative action by the Executive Committee. Each section shall operate under the Constitution of the Association, but may adopt its own bylaws so long as they are compatible with the Constitution and Bylaws of the Association. Section officers, chosen by vote of the members of the section, are President and Treasurer and other appropriate officers, such as Vice-President, Secretary and Editor, according to the individual needs of each section. Section meetings and other activities are arranged independently of the national organization. Section dues, as provided in the Association Bylaws (Bylaw II, Section I) are retained by the Section Treasurer. The National President of the Association may appoint an Acting Section President, if for any reason the office becomes vacant, until an election can be held and a new president elected.

Sections shall normally meet at least one time each year to conduct current business and elect officers. Sections are encouraged to hold additional meetings, field trips, symposia, and other events each year.

Section 2.- Regional Section Areas

- * Central Section: Wisconsin, Minnesota, Indiana, Iowa, Illinois, Ohio, Kentucky, Michigan, southern/western Ontario
- * Eastern Section: New York, New Jersey, Pennsylvania, Maryland, Delaware, District of Columbia, Virginia, West Virginia, eastern Ontario
- * New England Section: Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island, Quebec, New Brunswick, Nova Scotia, Newfoundland, Labrador, Prince Edward Island
- * Far Western Section: California, Nevada, Hawaii
- * Southeastern Section: Louisiana, Mississippi, Alabama, Georgia, Florida, Tennessee, South Carolina, North Carolina
- * Pacific Northwest Section: Oregon, Washington, Idaho, British Columbia, Alaska, Yukon
- * Southwest Section: New Mexico, Utah, Colorado, Arizona
- * Texas Section: Texas
- * North-Central Section: North Dakota, South Dakota, Nebraska, Wyoming, Montana, Alberta, Saskatchewan, Manitoba, Northwest Territories, Nunavut
- * Midcontinent Section: Kansas, Oklahoma, Missouri, Arkansas

Bylaw IX - Amendments to Bylaws

See Constitution, Article IX, Section 2, and Article XI, Section 2.

This document is the **XXXX** 2009 version, which was approved by the NAGT Executive Committee and submitted to the membership for ratification with the **YYYY** 2009 ballot. The document is based on the 1998 version with the addition of the revisions passed by the membership on the ballots of 1986, 1987, 1990, 1991, 1993 and 1995. It was prepared **XXXX**, 2009 by David Steer, President NAGT.

**NATIONAL ASSOCIATION OF GEOSCIENCE TEACHERS
BALANCE SHEET
AUGUST 31, 2007**

INDEPENDENT AUDITORS' REPORT

Board of Directors
National Association of Geoscience Teachers
Northfield, Minnesota

We have audited the accompanying balance sheet – cash basis of the National Association of Geoscience Teachers as of August 31, 2007. This balance sheet is the responsibility of the Organization's management. Our responsibility is to express an opinion on this balance sheet based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the balance sheet is free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the balance sheet. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion. In our opinion, the balance sheet referred to above presents fairly, in all material respects, the assets and net assets of the National Association of Geoscience Teachers as of August 31, 2007 in conformity with the cash basis of accounting.

LarsonAllen LLP
Minneapolis, Minnesota
September 2008

**NATIONAL ASSOCIATION OF GEOSCIENCE TEACHERS
BALANCE SHEET – CASH BASIS
AUGUST 31, 2007**

See accompanying Notes to Balance Sheet.

2007

ASSETS

Cash and Cash Equivalents

\$ 11,447

Investments

\$748,196

Total Assets

\$ 759,643

NET ASSETS

Unrestricted - Undesignated

\$ 11,447

Unrestricted - Board Designated

\$559,839

Temporarily Restricted

\$20,462

Permanently Restricted

\$167,895

Total Net Assets

\$ 759,643

**NATIONAL ASSOCIATION OF GEOSCIENCE TEACHERS
NOTES TO BALANCE SHEET
AUGUST 31, 2007**

NOTE 1

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Organization

The National Association of Geoscience Teachers works to raise the quality of and emphasis on teaching the geosciences at all levels. We count among our members K-12 teachers and college and university faculty as well as educators working with the general public through outlets such as museums and science centers. NAGT's purpose is to foster improvement in the teaching of the earth sciences at all levels of formal and informal instruction, to emphasize the cultural significance of the earth sciences and to disseminate knowledge in this field to the general public.

Basis of Accounting

The Organization prepared its financial statement on the cash basis of accounting, which is a comprehensive basis of accounting other than U.S. generally accepted accounting principles. The Organization records investments at fair market value. All other income and expense items are recorded on a cash basis.

Financial Statement Presentation

Net assets and revenues, gains, and losses are classified based on donor imposed restrictions. Accordingly, net assets of the Organization and changes therein are classified and reported as follows:

Unrestricted

Resources over which the Organization has discretionary control.

Designated amounts represent those revenues which Trustees have set aside for a particular purpose.

Temporarily Restricted

– Those resources subject to donor imposed restrictions which will be satisfied by actions of the Organization or passage of time.

Permanently Restricted

– Those resources subject to a donor imposed restriction that they be maintained permanently by the Organization.

Cash

The Organization considers cash and cash equivalents to be money in the Organization's checking and savings accounts. At times, cash deposits may be in excess of the Federal Deposit Insurance Corporation (FDIC) insurance limit.

Investments

Investments of the Organization are recorded at fair market value. At August 31, 2007, the investments of the Organizations are made up of a single mutual fund investment.

Tax-Exempt Status

The Organization is exempt from federal income taxes under Section 501(c)(3) of the Internal Revenue Service Code. In addition, The Organization has been determined by the Internal Revenue Service not to be a private foundation within the meaning of Section 509(a) of the Code. Therefore, charitable contributions are tax deductible.

**NATIONAL ASSOCIATION OF GEOSCIENCE TEACHERS
NOTES TO BALANCE SHEET
AUGUST 31, 2007**

NOTE 2

NET ASSETS

Unrestricted – Board Designated Net Assets

The Board of Directors has designated \$559,839 for the year ended August 31, 2007 to be used for scholarships and operations.

Temporarily Restricted Net Assets

Net assets temporarily restricted of \$20,462 as of August 31, 2007 consist of donor gifts to be used to support scholarships.

Permanently Restricted Net Assets

Net assets permanently restricted of \$167,895 as of August 31, 2007 consist of donor gifts, the income of which can primarily be used to support scholarships and operations.

			FY05	FY06	FY07	FY08	FY08	FY09	FY09
			2004-2005 Actual (unaudited)	2005-2006 Actual (unaudited)	2006-2007 Actual (unaudited)	2007-2008 Budget (as amended at 10/07 annual mtg and as amended by G. Pearson's 3/08 Endowment Spending calculations)	2007-2008 ACTUAL (fm Bill's 10/1/2008 calculations)	2008-2009 Approved at Spring meeting 4/08)	2008-2009 Modifications to be proposed at 10/08 Annual Mtg)
A. Annual Operations Revenues									
	Membership Dues		\$ 57,051.00	\$ 53,365.20	\$ 50,112.10	\$ 50,000.00	\$ 53,321.00	\$ 50,000.00	
	NAGT/AGI Lab Manual royalties		\$ 56,170.00	\$ 69,724.36	\$ 72,871.49	\$ 60,000.00	\$ 63,529.77	\$ 60,000.00	
	Sales and Services		\$ 668.00	\$ 1,454.51		\$ -	\$ 800.00		
	JGE								
	Advertisements		\$ 300.00		\$ 150.00	\$ -	\$ 1,040.00		
	Back Issues				\$ -		\$ 178.00		
	Page charges		\$ 9,555.00		\$ 14,820.69	\$ 15,000.00	\$ 8,175.00	\$ 15,000.00	
	Royalties				\$ -		\$ 1,567.44	\$ 500.00	
	Subscriptions		\$ 44,496.00	\$ 42,371.04	\$ 78,273.00	\$ 75,000.00	\$ 78,896.00	\$ 80,000.00	
	Reimbursements						\$ 23,707.31		
	Interest		\$ 3,875.00	\$ 4,279.24	\$ 155.67	\$ -	\$ 1.16		
	Other Reimbursements								
	Summer Field Camp (reimbursements)				\$ 1,630.00				
	USGS/NAST Internship (reimbursement for program expenses)						\$ 2,000.00		
	Dist. Speaker (reimbursements for program expenses)						\$ 1,409.16		\$ 1,000.00
	Misc./Other		\$ 1,500.00	\$ 4,000.00	\$ 10,653.27	\$ 1,000.00	\$ 241.00		
	A. Sub-Total Annual Operations Revenues		\$173,615.00	\$175,194.35	\$228,666.22	\$201,000.00	\$ 234,865.84	\$205,500.00	\$ 1,000.00
B. Annual Non-Operations Revenues									
	New Permanently Donor Restricted Contributions		\$ 4,791.00	\$ 4,573.00		\$ 5,000.00		\$ 5,000.00	
	Horberg Fund				\$ 100.00				
	Rosalsky Fund				\$ -				
	Field Course Scholarship Endowed Fund				\$ 771.00		\$ 3,113.00		
	NAGT Endowment						\$ 1,425.00		
	Sub-Total		\$ 4,791.00	\$ 4,573.00	\$ 871.00	\$ 5,000.00	\$ 4,538.00	\$ 5,000.00	\$ -
	Hold Over Category from Ian's records								
	Other Unrestricted		\$ 4,000.00	\$ 3,293.00	\$ 35.00				
	Flow Through Revenue								
	CE WKSP Registration Revenue						\$ 31,845.00		
	B. Sub-Total Annual Non-Operations Revenues		\$ 8,791.00	\$ 7,866.00	\$ 906.00	\$ 5,000.00	\$ 36,383.00	\$ 5,000.00	\$ -
C. Other Funding for Operations									
	Unrestricted - Undesignated		\$ 1,500.00					\$ 9,000.00	
	- Cash								
	- Reserve Fund			\$ 38,614.68	\$ 70,893.45			\$ 23,200.00	
	Unrestricted - Ex Comm Designated								
	- Endowment Unrestricted					\$ 43,000.00	\$ 43,000.00		
	- NAGT Endowment (ExComm Designated)							\$ 20,000.00	
	Temporarily Donor Restricted Funding								
	Honors New Donations								

			FY05	FY06	FY07	FY08	FY08	FY09	FY09
			2004-2005 Actual (unaudited)	2005-2006 Actual (unaudited)	2006-2007 Actual (unaudited)	2007-2008 Budget (as amended at 10/07 annual mtg and as amended by G. Pearson's 3/08 Endowment Spending calculations)	2007-2008 ACTUAL (fm Bill's 10/1/2008 calculations)	2008-2009 Approved at Spring meeting 4/08)	2008-2009 Modifications to be proposed at 10/08 Annual Mtg)
		Honors Fund Balance Spending				\$ 147.12	\$ 147.12		
		Minority New Donations			\$ 525.00		\$ 895.00		
		Minority Fund Balance Spending				\$ 45.41			
		Stout New Donations			\$ 1,220.00	\$ 1,700.00	\$ 550.00		
		Stout Fund Balance Spending					\$ 1,700.00		
		Permanently Donor Restricted							
		Horberg Fund Fund Balance Spending			\$ 100.00	\$ 2,658.50	\$ 2,658.50		\$ 2,457.74
		Rosalsky Fund Fund Balance Spending				\$ 755.31	\$ 755.31		\$ 696.54
		Field Course Scholarship Endowed Fund Fund Balance Spending			\$ 771.00	\$ 4,304.60	\$ 4,304.60		\$ 3,972.90
		NAGT Endowment (Donor Designated) Fund Balance Spending							
		C. Sub-Total Additional Funding for Operations	\$ 1,500.00	\$ 38,614.68	\$ 73,509.45	\$ 52,610.94	\$ 54,010.53	\$ 52,200.00	\$ 7,127.18
		D. TOTAL ANNUAL REVENUE (A + B)	\$182,406.00	\$183,060.35	\$229,572.22	\$206,000.00	\$ 271,248.84	\$210,500.00	\$ 1,000.00
		E. TOTAL SPENDING AUTHORIZATION FOR OPERATIONS (A + C)	\$175,115.00	\$213,809.03	\$302,175.67	\$253,610.94	\$ 288,876.37	\$257,700.00	\$ 8,127.18
		F. Operation Expenses:							
		Director's Office							
		General Office Expenses							
		Office expenses	\$ 5,722.00	\$ 6,963.02	\$ 2,572.92	\$ 2,000.00	\$ 629.97	\$ 2,000.00	
		Postage & Delivery			\$ 1,366.17		\$ 543.09	\$ 1,000.00	
		Management costs			\$ 945.45				
		Travel	\$ 4,814.00	\$ 4,215.09	\$ 6,362.19	\$ 8,000.00	\$ 4,497.40	\$ 5,000.00	
		Liability insurance		\$ 1,500.00	\$ -	\$ 3,500.00	\$ 3,443.00	\$ 2,500.00	
		Sub-Total			\$ 11,246.73	\$ 13,500.00	\$ 9,113.46	\$ 10,500.00	\$ -
		Promotion & Advertising	\$ 2,263.00	\$ 6,321.36				\$ 9,000.00	
		Printing				\$ 1,000.00			
		Shipping				\$ 3,000.00			
		Booth Space				\$ 2,000.00			
		Booth Materials							
		Other					\$ 10,682.77		
		Sub-Total			\$ 5,594.96	\$ 6,000.00	\$ 10,682.77	\$ 9,000.00	\$ -
		Contracted Services							
		AIP Membership Services		\$ 2,675.88	\$ 28,599.80	\$ 15,000.00	\$ 24,170.48	\$ 25,000.00	
		SERC Website Management	\$ 8,871.00		\$ 17,287.50	\$ 8,500.00	\$ 10,329.51	\$ 8,500.00	
		SERC ExDir Office Staff				\$ 39,000.00	\$ 55,080.00	\$ 39,000.00	
		Clerical	\$ 1,980.00	\$ 6,600.00	\$ 5,280.00				
		Bookkeeping		\$ 1,237.50	\$ 848.75	\$ 2,000.00	\$ 1,885.00	\$ 2,000.00	
		Audit				\$ 8,500.00	\$ 4,947.75		\$ 5,052.25
		Other Professional Services	\$ 4,606.00				\$ 300.00		
		Sub-Total			\$ 52,016.05	\$ 73,000.00	\$ 96,712.74	\$ 74,500.00	

		FY05	FY06	FY07	FY08	FY08	FY09	FY09
		2004-2005 Actual (unaudited)	2005-2006 Actual (unaudited)	2006-2007 Actual (unaudited)	2007-2008 Budget (as amended at 10/07 annual mtg and as amended by G. Pearson's 3/08 Endowment Spending calculations)	2007-2008 ACTUAL (fm Bill's 10/1/2008 calculations)	2008-2009 Approved at Spring meeting 4/08)	2008-2009 Modifications to be proposed at 10/08 Annual Mtg)
	Total	\$ 28,256.00	\$ 29,512.85	\$ 68,857.74	\$ 92,500.00	\$ 116,508.97	\$ 94,000.00	\$ -
	NAGT Memberships/Section Rebates							
	Dues to affiliated societies	\$ 3,950.00	\$ 5,780.00	\$ 3,000.00	\$ 7,000.00	\$ 2,872.50	\$ 7,000.00	
	Payments to NAGT sections	\$ 3,575.00	\$ 2,347.50	\$ 2,890.00	\$ 4,500.00	\$ 2,070.00	\$ 4,500.00	\$ 5,297.50
	Total	\$ 7,525.00	\$ 8,127.50	\$ 5,890.00	\$ 11,500.00	\$ 4,942.50	\$ 11,500.00	\$ 5,297.50
	JGE						\$ 80,000.00	
	Clerical	\$ 7,682.00	\$ 19,500.00	\$ 18,492.00	\$ 20,000.00	\$ 23,992.00		
	Publication costs	\$ 45,694.00	\$ 52,668.96	\$ 44,289.00	\$ 55,000.00	\$ 63,495.45		
	Other (special edition)	\$ 7,916.00		\$ 85.00	\$ -	\$ 832.06		
	Total	\$ 61,292.00	\$ 72,168.96	\$ 62,866.00	\$ 75,000.00	\$ 88,319.51	\$ 80,000.00	\$ -
	NAGT Programs							
	Field Camp Scholarships	\$ 7,500.00	\$ 9,000.00	\$ 9,000.00	\$ 8,000.00	\$ 9,000.00	\$ 9,000.00	
	NAGT/USGS Coop Program	\$ 1,559.00	\$ 1,280.92	\$ -	\$ 2,000.00	\$ 1,310.54	\$ 2,000.00	
	Distinguished Speakers Series	\$ 9,207.00	\$ 18,626.94	\$ 12,417.02	\$ 20,000.00	\$ 11,996.36	\$ 20,000.00	
	NPS/Geologist-in-the-Park		\$ 3,000.00	\$ 6,000.00	\$ 6,000.00	\$ 4,000.00	\$ 6,000.00	\$ 8,000.00
	NAGT-sponsored workshops			\$ -	\$ 1,000.00	\$ 87.86	\$ 1,000.00	
	Total	\$ 18,266.00	\$ 31,907.86	\$ 27,417.02	\$ 37,000.00	\$ 26,394.76	\$ 38,000.00	\$ 8,000.00
	Awards	\$ 2,982.51	\$ 2,456.77	\$ 4,211.07				
	Outstanding TA				\$ -			
	OEST				\$ 2,000.00	\$ 1,965.30	\$ 2,000.00	
	Shea				\$ 250.00	\$ 241.88	\$ 600.00	
	Miner				\$ 200.00	\$ 613.22	\$ 600.00	
	Dottie Stout				\$ 3,000.00	\$ 2,250.00	\$ 3,000.00	
	Total	\$ 2,982.51	\$ 2,456.77	\$ 4,211.07	\$ 5,450.00	\$ 5,070.40	\$ 6,200.00	\$ -
	ExComm and Council							
	Events			\$ 203.60	\$ -			
	Travel	\$ 18,778.00	\$ 19,836.99	\$ 19,255.39	\$ 20,000.00	\$ 18,578.57	\$ 20,000.00	
	Section Liaison		\$ 712.69	\$ -	\$ 3,000.00	\$ 777.84	\$ 3,000.00	
	NAGT business meetings	\$ 11,871.00		\$ 784.52	\$ 2,000.00	\$ 2,621.40	\$ 2,000.00	
	President's fund			\$ -	\$ 3,000.00	\$ 2,508.28	\$ 3,000.00	
	Total	\$ 30,649.00	\$ 20,549.68	\$ 20,243.51	\$ 28,000.00	\$ 24,486.09	\$ 28,000.00	\$ -
	Other Expenses							
	F. Sub-Total Operations Expenses	\$148,970.51	\$164,723.62	\$189,485.34	\$249,450.00	\$ 265,722.23	\$257,700.00	\$ 13,297.50
	G. Non-Operational Expenses							
	New Investment Purchases	\$ 3,410.00	\$ 4,573.00		\$ 5,000.00		\$ 5,000.00	

			FY05	FY06	FY07	FY08	FY08	FY09	FY09
			2004-2005 Actual (unaudited)	2005-2006 Actual (unaudited)	2006-2007 Actual (unaudited)	2007-2008 Budget (as amended at 10/07 annual mtg and as amended by G. Pearson's 3/08 Endowment Spending calculations)	2007-2008 ACTUAL (fm Bill's 10/1/2008 calculations)	2008-2009 Approved at Spring meeting 4/08)	2008-2009 Modifications to be proposed at 10/08 Annual Mtg)
		Unrestricted - Undesignated							
		- Reserve Fund							
		Unrestricted - Ex Comm Designated							
		- NAGT Endowment (ExComm Designated)							
		Temporarily Donor Restricted							
		- Honors New Donations							
		- Minority New Donations					\$ 895.00		
		- Stout New Donations							
		Permanently Donor Restricted							
		- Horberg Fund Fund							
		- Rosalsky Fund Fund							
		- Field Course Scholarship Endowed Fund					\$ 3,113.00		
		- NAGT Endowment (Donor Designated)					\$ 1,425.00		
		Total: New Investment Purchases	\$ 3,410.00	\$ 4,573.00	\$ -	\$ 5,000.00	\$ 5,433.00	\$ 5,000.00	\$ -
		Flow Through Expenses							
		Cutting Edge Wksp Paypal Fees					\$ 938.13		
		Cutting Edge Wksp Payouts to sponsoring institutions					\$ 30,781.87		
		Total: Flow Through Expenses	\$ -	\$ -	\$ -	\$ -	\$ 31,720.00	\$ -	\$ -
		G. Total Non-Operational Expenses	\$ 3,410.00	\$ 4,573.00	\$ -	\$ 5,000.00	\$ 37,153.00	\$ 5,000.00	\$ -
		H. Total Annual Expenses							
		F. Operations Expenses	\$ 148,970.51	\$ 164,723.62	\$ 189,485.34	\$ 249,450.00	\$ 265,722.23	\$ 257,700.00	
		G. Non-Operational Expenses	\$ 3,410.00	\$ 4,573.00	\$ -	\$ 5,000.00	\$ 37,153.00	\$ 5,000.00	
		H. Total Annual Expenses	\$152,380.51	\$169,296.62	\$189,485.34	\$254,450.00	\$ 302,875.23	\$262,700.00	\$ -
		I. Annual Spending Authorization - Operations Expenses (E - F)	\$ 26,144.49	\$ 49,085.41	\$112,690.33	\$ 4,160.94	\$ 23,154.14	\$ -	\$ (5,170.32)
		J. Annual Spending Authorization - Total Annual Expenses (E - H)	\$ 22,734.49	\$ 44,512.41	\$112,690.33	\$ (839.06)	\$ (13,998.86)	\$ (5,000.00)	\$ 8,127.18

FY08 Restricted Fund Spending Notes:

Stout Award

Total Expenses	\$	2,250.00	Notes:
Off-setting Revenue			
- New Stout fund donations	\$	550.00	Collected via AIP in FY08
- Stout fund balance spending	\$	1,700.00	
Total Off-setting revenue	\$	2,250.00	

Miner & Shea Awards

Total Expenses	\$	855.10	Notes:
Off-setting Revenue			
- Honors fund balance spending	\$	147.12	4.5% of 3 year fund average
- General Operating Budget	\$	707.98	
Total Off-setting revenue	\$	855.10	

Field Camp Scholarships

Total Expenses	\$	9,000.00	Notes:
Off-setting Revenue			
- Horberg fund balance spending	\$	2,658.50	4.5% of 3 year fund average
- Rosalsky fund balance spending	\$	755.31	4.5% of 3 year fund average
- Field Camp fund balance spending	\$	4,304.60	4.5% of 3 year fund average
- Minority fund balance spending	\$	-	
- General Operating Budget	\$	1,281.59	
Total Off-setting revenue	\$	9,000.00	

Year End Assets by Account:	as of 8/31/07 (audit pending)	as of 8/31/2008 (unaudited)
Investments		
- Oakmark - OAKBX	\$ 748,195.78	\$ 746,299.10
Cash		
- Wells Fargo Checking	\$ -	\$ 26,684.84
- Paypal	\$ -	\$ 14.26
- Napa Accounts	\$ 11,230.19	\$ -
- Bellingham Accounts	\$ 217.30	\$ -
Total	\$ 759,643.27	\$ 772,998.20

Year End Assets by Classification:	as of 8/31/07 (audit pending)	as of 8/31/2008 (unaudited)
Unrestricted - Undesignated		
- Cash	\$ 11,447.49	\$ 26,699.10
- Reserve Fund	\$ -	\$ 87,151.08
- Unspent Annual Authorization	\$ -	\$ 9,841.45
Sub-Total	\$ 11,447.49	\$ 123,691.63
Unrestricted - Ex Comm Designated		
- Endowment Unrestricted	\$ 559,839.21	\$ -
- NAGT Endowment	\$ -	\$ 455,915.81
Sub-Total	\$ 559,839.21	\$ 455,915.81
Temporarily Donor Restricted		
- Honors Fund	\$ 3,122.27	\$ 3,133.60
- Minority Fund	\$ 963.69	\$ 1,907.59
- Stout Fund	\$ 20,461.61	\$ 19,799.96
Sub-Total	\$ 24,547.57	\$ 24,841.15
Permanently Donor Restricted		
- Horberg Fund	\$ 56,421.77	\$ 56,491.56
- Rosalsky Fund	\$ 16,030.01	\$ 16,049.84
- Endowment	\$ -	\$ 1,425.00
- Field Course Sch. End. Fund	\$ 91,357.22	\$ 94,583.22
Sub-Total	\$ 163,809.00	\$ 168,549.62
Total	\$ 759,643.27	\$ 772,998.20

NAGT Committee Assignments

NAGT Committee Assignments			
Name of Committee	Bylaw Statement Regrading Committee Membership (from D Steer's May1, 2008 proposed Bylaws)	2007-2008	2008-2009
Robert Christman Award Committee (Standing Committee)	The Executive Committee administers the selection of the Robert Christman Award.	Executive Committee (Eric Riggs, David Steer, Mike Taber, Karen Havholm & Gene Pearson)	?? Executive Committee (David Stter, Mike Taber, Janis Treworgy, Gene Pearson)
Neil Miner Award Committee (Standing Committee)	The Committee is composed of the President of the Association, who serves as Chair, the immediate Past-President; the Secretary/treasurer; and two members recommended by the Executive Committee. No one may serve as an appointed member for more than two years in succession.		
Outstanding Earth Science Teacher Award Committee (Standing Committee)	The Chair is appointed by the Executive Committee. Two other members are recommended by the Executive Committee. Their term of office is two years. The remainder of the Committee consists of one representative from each section which participates in the OEST program. Section Representatives shall be selected by their section and their term of office shall be specified by their section.		
Nominating Committee (Standing Committee)	The Committee shall be composed each year of the five most recent available Past-Presidents of the Association, the immediate Past-President serving as Chair. Tenure will begin each		

	<p>year following the Annual Meeting. Should it become necessary to depart from this committee composition because of emergency or other difficulty, the current President of the Association shall make necessary appointments from the membership.</p>		
<p>James H. Shea Award Committee (Standing Committee)</p>	<p>The Committee consists of five members, four of whom are appointed by the Executive Committee for staggered four-year terms (one new member is appointed each year for a four-year term. The Editor of the Journal of Geoscience Education is an ex officio, voting member of the committee. The senior member of the Committee (that member who is in the last year of his/her term) serves as the Chair of the Committee.</p>		
<p>Investment Committee (Standing Committee)</p>	<p>The Committee is composed of a chair and three other members as directed by the Executive Committee. The membership of the Investment Committee will include the Second Vice President and two NAGT at-large members appointed by the Executive Committee to 3-year staggered terms.</p>	<p>Geoff Feiss, Greg Wheeler</p>	
<p>Ad Hoc Committees</p>	<p>The Executive Committee shall establish such Ad Hoc Committees, and appoint their Chair, as may be in the interests of the Association.</p>		
<p>Membership (ad hoc)</p>		<p>Mike Taber, chair, Bruce Rueger, Cathy Manduca, Karen Havholm</p>	
<p>JGE Editor Transition (ad hoc)</p>		<p>David Steer, Carl Drummond,</p>	

		Cathy Manduca, Mike Taber, & Eric Riggs	
Section Services (ad hoc)	Formed at 2007 Annual Mtg; CHARGE: to work with section liaisons and sections to determine what services sections might want to use, the costs of those services and make policy and service recommendations to the Executive Committee at the 2008 mid-year meeting	David Steer, chair, Cathy Manduca, Ian Macgregor, Pam Gore	
JGE Best Paper Award (ad hoc)		David Steer	
JGE Editor Search Committee	Formed at 2007 annual meeting; reformed into JGE editor transition committee at 2008 mid-year meeting	David Steer	n/a

NAGT Representatives

NAGT representatives	Responsibilities	2007-2008	2008-2009
AGI Governmental Affairs Program Rep.		Eric Riggs	
AGI Environmental Science Advisory Comm Rep.			
AGI		David Steer	
GSA Allied Societies		Karen Havholm	
CHER		Cathy Manduca	
AAAS		Cathy Manduca	
NSTA		Linda Selvig	Janice Treworgy or Aida Awad
NESTA		Linda Selvig	Janice Treworgy or Aida Awad
JTPC (Joint Technical Planning Committee)		Mike Taber	Mike Taber is willing to serve
AMS		Mike Taber	
AGU		Jeff Ryan	
CUR		Jeff Ryan	

Request for NAGT sponsorship for full-day workshops at Northeast, Southeast, and Cordilleran GSA conferences in 2009

Workshop title

Innovative Geoscience Education using Tools and Models in Google Earth

Workshop Leaders

Southeast GSA (March 12-13):	Steven Whitmeyer	James Madison University
Northeast GSA (March 22-24):	Declan De Paor	Old Dominion University
Cordilleran GSA (May 7-9):	Declan De Paor, Steven Whitmeyer	

Workshop outline

These workshops demonstrate new approaches to using Google Earth for teaching plate tectonics and regional geology. Using the free Google SketchUp application, we have developed methods for imaging the subsurface so that students can drag block diagrams and other models up out of the ground surface to view them in cross section or 3D from any angle. Participants will learn how to create interactive 3D models of plate boundaries, igneous intrusions, structures, paleogeography, ore bodies, etc. for use on Google Earth via simple templates that don't require a knowledge of computer programming.

The target audiences for the workshops are instructors of non-major through upper-level undergraduate geoscience courses. Our broader goal is to test the relative merits of cartoon style plate tectonic sketches versus visualizations that make use of real sub-surface data, and with that in mind, we will invite participants to test our learning objects in their own classrooms.

NAGT Sponsorship

This work is funded, in part, by the NSF CCLI program, so we can cover most of the workshop expenses. Our hope is that by sponsoring these workshops, NAGT can promote the workshops in newsletters, online, etc. If there are funds available to partially subsidize participants' workshop fees, that would be helpful. At present, we haven't received costs from the conference organizers for holding the workshops, so we don't know the fees for individual participants.

Questions for the Executive Committee

1. We inadvertently dropped from 12 to 11 NAGT-supported speakers. Let's review the status and budget briefly to determine what number of speakers to aim for, given the new arrangement with the Ocean Leadership folks.
2. Based on experience, we should probably change the committee structure (consisting of many ExComm members plus at-large members) and canvass former speakers for some who want to be on the committee. The committee is primarily tapped to suggest new speakers each year.

ROBERT CHRISTMAN DISTINGUISHED SERVICE AWARD

The Robert Christman Distinguished Service Award was established by the Executive Committee in April, 2008 to recognize individuals who have provided long, distinguished service to the Association at the national and/or section level.

The Award honors Robert “Bob” Christman who for more than thirty years has provided exceptional service to the Association both at the national level and also to the Pacific Northwest section. Bob has served the Association as a Councilor-at-Large [1983-84], Secretary/treasurer [1989-91], Executive Director [1992-2002], Co-executive Director [2003-2005]. He was also a co-editor of the Journal 1979 until 1987, contributing 26 film reviews and writing a column for secondary school teachers. Bob served as President of the Pacific Northwest section in 1974 and 1975 and has served as the section’s Secretary/treasurer since 1976.

Recipients of the Robert Christman Distinguished Service Award are selected by a majority vote of the Executive Committee at the mid-year business meeting. Any active NAGT member may submit a nomination, in writing, to the Executive Committee. The nomination letter should detail the contributions that the individual has made to the Association at the national and/or section level. Although an awardee may be selected annually, the award was not established as an annual award. Normally, when an awardee has been selected she or he will be recognized at the Annual Meeting of the Association held in conjunction with the Geological Society of America.

National Association of Geoscience Teachers

Position Statement on Teaching Climate Change

Drafting Committee:

Andy Buddington (Committee Chair), George Stone, Mark Chandler, Scott Linneman

PREAMBLE

In 2007, the United Nations Intergovernmental Panel on Climate Change (IPCC) issued its fourth and most comprehensive assessment of Earth's changing climate. Compiled by some 2000 scientists representing 150 countries, the report presents the physical science basis for the assessment of climate change and its impacts, strategies for mitigation and adaptation to vulnerability, and a synthesis review. Many prestigious organizations of scientists, including the National Academies of Science (2005), the American Geophysical Union (2003, 2007), the American Chemical Society (2004), and the Geological Society of America (2006), have affirmed the IPCC conclusions (2001 and 2007) in position statements on climate change that call for intensive public education, increased awareness, and action on this important issue.

STATEMENT

The National Association of Geoscience Teachers (NAGT) recognizes: (1) that Earth's climate is changing, (2) that present warming trends are largely the result of human activities, and (3) that teaching climate change science is a fundamental and integral part of earth science education. The core mission of NAGT is to *"foster improvement in the teaching of the earth sciences at all levels of formal and informal instruction, to emphasize the cultural significance of the earth sciences and to disseminate knowledge in this field to the general public."* The National Science Education Standards call for a populace that understands how scientific knowledge is both generated and verified, and how complex interactions between human activities and the environment can impact the Earth system. Climate is clearly an integral part of the Earth system connecting the physical, chemical and biological components and playing an essential role in how the Earth's environment interacts with human culture and societal development. Thus, climate change science is an essential part of Earth Science education and is fundamental to the mission set forth by NAGT. In recognition of these imperatives, NAGT strongly supports and will work to promote education in the science of climate change, the causes and effects of current global warming, and the immediate need for policies and actions that reduce the emission of greenhouse gases.

NAGT further recognizes that climate, climate systems and climate change are best taught in an interdisciplinary manner, integrating the many relevant sciences into a holistic curriculum approach; that climate-change topics provide exceptional opportunities for students to learn how geoscientists study past, present, and future climate systems, including the essential role of computer models in the assessment of global climate change scenarios; and that a current and comprehensive level of understanding of the science and teaching of climate change is essential to effective education. In support of these goals, NAGT sponsors professional development programs for geoscience educators, including workshops, seminars, and teacher-scientist cooperatives, and disseminates "best teaching" practices for climate change in the Journal of Geoscience Education.



National Association of Geoscience Teachers

NAGT • c/o Carleton College B-SERC • One North College Street • Northfield, MN 55057
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October 28, 2008

LarsonAllen LLP
220 South Sixth Street, Suite 300
Minneapolis, MN 55402

We are providing this letter in connection with your audit of the balance sheet – cash basis of the National Association of Geoscience Teachers as of August 31, 2007 for the purpose of expressing an opinion as to whether the financial statement presents fairly, in all material respects, the assets, liabilities and net assets of the National Association of Geoscience Teachers in conformity with the cash basis of accounting. We confirm that we are responsible for the fair presentation in the financial statement of assets, liabilities and net assets in conformity with the cash basis of accounting. We are also responsible for adopting sound accounting policies, establishing and maintaining effective internal control, and preventing and detecting fraud.

Certain representations in this letter are described as being limited to matters that are material. Items are considered material if they involve an omission or misstatement of accounting information that, in light of surrounding circumstances, makes it probable that the judgment of a reasonable person relying on the information would be changed or influenced by the omission or misstatement. An omission or misstatement that is monetarily small in amount could be considered material as a result of qualitative factors.

We confirm, to the best of our knowledge and belief, as of September __, 2008, the following representations made to you during your audit.

1. The financial statement referred to above is fairly presented in conformity with the cash basis of accounting and include all assets and liabilities under the Organization's control.
2. We have made available to you all:
 - a. Financial records and related data.
 - b. Minutes of the meetings of Board of Directors and Executive Committee or summaries of actions of recent meetings for which minutes have not yet been prepared.
3. There have been no communications from regulatory agencies concerning noncompliance with, or deficiencies in, financial reporting practices.
4. There are no material transactions that have not been properly recorded in the accounting records underlying the financial statement.
5. We have not identified or been notified of any uncorrected financial statement misstatements.
6. We acknowledge our responsibility for the design and implementation of programs and controls to prevent and detect fraud.

7. We have no knowledge of any fraud or suspected fraud affecting the Organization involving:
 - a. Management,
 - b. Employees who have significant roles in internal control, or
 - c. Others where the fraud could have a material effect on the financial statement.
8. We have no knowledge of any allegations of fraud or suspected fraud affecting the Organization received in communications from employees, former employees, grantors, regulators, or others.
9. The Organization has no plans or intentions that may materially affect the carrying value or classification of assets, liabilities, or net asset balances.
10. The following, if any, have been properly recorded or disclosed in the financial statement:
 - a. Related party transactions, including revenues, expenses, loans, transfers, leasing arrangements, and guarantees, and amounts receivable from or payable to related parties.
 - b. Guarantees, whether written or oral, under which the Organization is contingently liable.
 - c. All accounting estimates that could be material to the financial statement, including the key factors and significant assumptions underlying those estimates, and we believe the estimates are reasonable in the circumstances.
11. There are no estimates that may be subject to a material change in the near term that have not been properly disclosed in the financial statement. We understand that *near term* means the period within one year of the date of the financial statement. In addition, we have no knowledge of concentrations existing at the date of the financial statement that make the organization vulnerable to the risk of severe impact that have not been properly disclosed in the financial statement.
12. We are responsible for compliance with the laws, regulations, and provisions of contracts and grant agreements applicable to us; and we have identified and disclosed to you all laws, regulations, and provisions of contracts and grant agreements that we believe have a direct and material effect on the determination of financial statement amounts or other financial data significant to the audit objectives.
13. The National Association of Geoscience Teachers is an exempt organization under Section 501(c)(3) of the Internal Revenue Code. Any activities of which we are aware that would jeopardize the Organization's tax-exempt status, and all activities subject to tax on unrelated business income or excise or other tax, have been disclosed to you. All required filings with tax authorities are up-to-date.
14. There are no:

- a. Violations or possible violations of laws and regulations and provisions of contracts and grant agreements whose effects should be considered for disclosure in the financial statement or as a basis for recording a loss contingency.
 - b. Pending or threatened litigation, claims, or assessments or unasserted claims or assessments that are required to be accrued or disclosed in the financial statement in accordance with *Statement of Financial Accounting Standards No. 5*; and we have not consulted a lawyer concerning litigation, claims, or assessments.
 - c. Other liabilities or gain or loss contingencies that are required to be accrued or disclosed by Statement of Financial Accounting Standards No. 5.
 - d. Designations of net assets disclosed to you that were not properly authorized and approved, or reclassifications of net assets that have not been properly reflected in the financial statement.
15. The Organization has satisfactory title to all owned assets, and there are no liens or encumbrances on such assets nor has any asset been pledged.
16. We have complied with all restrictions on resources (including donor restrictions) and all aspects of contractual and grant agreements that would have a material effect on the financial statement in the event of noncompliance. This includes complying with donor requirements to maintain a specific asset composition necessary to satisfy their restrictions.
17. We understand that you prepared the trial balance for use during the audit and that your preparation of the trial balance was limited to formatting the information in the National Association of Geoscience Teachers’s general ledger into a working trial balance.
18. As part of your audit, you prepared the draft financial statement and related notes from the trial balance. We have designated an individual with suitable skill, knowledge, or experience to oversee your services and have made all management decisions and performed all management functions. We have reviewed, approved, and accepted responsibility for those financial statement and related notes.
19. We have reviewed adjusting journal entries you have proposed and understand the nature of the changes and their impact on the financial statement. We are in agreement with the adjusting journal entries you have recommended, and they have been posted to the Organization’s accounts.

No events have occurred subsequent to date of our balance sheet– cash basis through the date of this letter that would require adjustment to, or disclosure in, the financial statement.

Signature: _____ Title: _____

Signature: _____ Title: _____