Nebraska Science News





Nebraska Academy of Sciences

Nebraska Association of Teachers of Science

Serving Scientists and Science Educators Across the State of Nebraska

Summer, 2013-2014 Volume 17, No.4

Published by the Nebraska Academy of Sciences

FROM THE NAS PRESIDENTS' DESK

This past March and April was a showcase for science in the state of Nebraska: the second annual Nebraska Science Festival expanded from Omaha to include sites in Bellevue, Lincoln, Ashland, and Wayne; and the Strategic Air and Space Museum wrapped up their "60 Days of Science" with their first-ever "Discovery Challenge" to showcase top science projects from middle school and high school students. The list continues with events that have traditionally filled the early spring: Chemistry Field Day with UNO at Creighton University; Physics Field Day at Creighton University, the 27th annual Nebraska Science Olympiad at UNL-East Campus; the UNMC Health Science meet; Greater Nebraska Science & Engineering Fair in Nebraska City; Regional Science Fairs in North Platte, Curtis, Omaha, Lincoln, and Wayne; and, of course the Nebraska Academy of Sciences annual meeting and Nebraska Junior Academy of Sciences state science fair competition. I will admit that this is not a comprehensive list from a seven week period, since there are so many ways to celebrate and stimulate science in our state.

To address the Academy's objective to foster interaction amongst business, industry, government, education and academic scientific community, my goal as President of the Academy is to promote each of these events across the state for K-12 teachers, college students and professors, as well as businesses and museums. For example, K-12 teachers can currently visit the Science Literacy page at http://www.unmc.edu/outreach/educational-programs/science-teachers/index.html. My hope is to continue to expand this page and to link it to multiple sources, including our own web pages. In addition, together with Past-President David Peitz, NJAS Director

Aurietha Hoesing, and NATS leadership, we will continue

to seek to increase the involvement of Nebraska businesses. Dr. Peitz led the production of the colorful and informational tri-fold that was distributed at the annual meeting and SciFest. In it, one can see the goals of NAS, NATS, and NJAS, as well as the benefits of membership, such as grants and electronic journal access. The flyer is one aspect of a package of information that has been assembled to share with potential partners. In addition, NATS President-Elect Joe Myers helped connect NAS with NUCOR and our Maiben Lecturer. As an organization founded 134 years ago with the support of a major industry, we are continuing the legacy of fostering interaction within Nebraska.

I greatly appreciate all of those who have sustained and grown our organization over the years. A special "thank you" to Dr. Peitz for his leadership over the past year. I look forward to his insights, and contributions of the Executive Committee and membership over the next year. Finally, thank you to our entire membership for contributing to the Nebraska science community. As Dr. Michael Voorhies noted when accepting his Friend of Science Award this year, it was at the NAS Annual Meeting that he first announced his findings at Ashfall. While few of us will be featured on Nova and in journals for our research, we each play a role in celebrating and stimulating science in our state.

Dan Sitzman, NAS President

GREETINGS FROM THE NATS PRESIDENT

"You must get involved to have an impact. No one is impressed with the win-loss record of the referee." Napolean Hill, American author

Happy Summer! I hope that you all will find the time this summer to rest, relax, play, and recharge. You have

earned every moment of a well-deserved summer vacation. Before you know it, the school bells will be ringing again and it will be back to the non-stop, high octane, action adventure we call science teaching! As you read this article, please take note of the above quote. We need you. We are asking that you take an active role in this organization. Besides getting the opportunity to learn and grow professionally, you can feel good about your involvement in keeping science teaching in Nebraska at its best. Furthermore, you will get the chance to hang out with some pretty amazing people! To reiterate my message from the spring newsletter, here are some ways in which you can get involved. If you are looking for a leadership role, email Mary Moser, mailto:mmoser@pawneecityschool.net, me, mailto:kramsey@gips.org, and help us fill the ballot for the next round of NATS officers and board members. Another way to demonstrate leadership at the state level is to answer the call for presenters for the 2014 NATS Fall Joe Myers is busy putting together an Conference. awesome conference agenda and would love for you to be a part of it. If you feel like a supporting role is more your style, we could always use help with planning and carrying out the many aspects of the conference. Although it may not seem like it, simply "liking us" on Facebook and visiting the webpage is another way to be active. The more we can get the word out about NATS, the more likely we will be to increase our membership. Communicating your ideas and wishes will help the board better serve you through the NATS organization.

On another note, I would like to take this opportunity to thank you for allowing me to represent you at the NSTA National Conference in Boston, MA. It was an incredible learning experience and a great way to network with other science leaders across the country. As you might guess, Next Generation Science Standards (NGSS) had a strong presence throughout the conference program. While Nebraska is not one of the states adopting the new set of standards, as the leader of NATS I feel I need to stay informed and learn as much as I can about this shift in science teaching, and then share with you the many resources available to answer your questions. Understanding that each of us has the responsibility to teach according to Nebraska state science standards, and that our students will be assessed accordingly, we also will be challenged with issues connected to NGSS at the national level. For instance, as I walked through the vendor hall, every booth related to curriculum resources claimed to be NGSS aligned. If your district will be adopting a new resource, you will need to know enough about NGSS to find where and how Nebraska standards align. This is simply one example. I believe that the spirit of the Nebraska standards is the same as NGSS. While not

all Nebraska students will pursue careers in science, they still need to have the skills that will allow them to read, interpret, and evaluate information in order to make informed decisions related to health, energy use, and the environment. A Framework for K-12 Science Education: Practices, Crosscutting Concepts, and Core Ideas (2012) served as the basis for the development of NGSS and identifies several guiding principles drawn from what is known about the nature of learning science. These principles include young children's capacity to learn science, a focus on core ideas, the development of true understanding over time, the consideration both of knowledge and practice, the linkage of science education to students' interests and experiences, and the promotion of equity, again, all of which embody the spirit of Nebraska's standards. If you haven't taken the time to familiarize yourself with the Framework, you might add it to your list of summer reading. For more information, NSTA has a number of resources focused on NGSS and the Framework for K-12 Science Education, including a series of interactive web seminars, articles from peerreviewed journals, NSTA Press books by NGSS writers, online short courses and face-to-face conference lectures and workshops, all designed to build an understanding of the standards and provide a pathway for putting the best practices of the standards into action in the classroom.

In addition to the resources, NSTA released a new position statement, which expresses NSTA's strong support of NGSS and provides a series of recommendations to ensure successful implementation. To access this information, go to http://ngss.nsta.org/.

Katie Ramsey, NATS President



Junior Academy State Competition, April 11, 2014

The Nebraska Junior Academy of Sciences state science fair was held Friday, April 11, 2014, at Nebraska Wesleyan University. A total of 49 students from 6 regions across the state of Nebraska competed on the junior and senior high school levels. The goals of the competition are to encourage scientific research and promote interest in careers associated with Science, Technology, Engineering, and Mathematics (STEM).

The students with projects ranking in the top ten of the Senior Division have been selected as Nebraska delegates to attend the American Junior Academy of Science (AJAS). AJAS will hold its annual meeting in conjunction with the

National Association of Academy of Sciences (NAAS) and American Association for the Advancement of Science (AAAS) meetings during February of 2015. These student delegates will present their scientific research, meet with internationally renowned scientists, and collaborate with other young scientists. The February, 2015 meeting will convene in San Jose, CA.

The Senior Division (Grades 9-12) top ten winning projects include:

Isabella Gomez, Central City High School

- *Merritt Polomsky, Papillion-La Vista HS-Zoo Academy
- *Holly Irmer, Beatrice High School

Jacob Wagner, Beatrice High School

*Alex Foster, Beatrice High School Jamie Knight, Central City High School

Brittany Boyd, Papillion- La Vista High School-Zoo Academy Michayla Goedeken, Madison Public Schools

- *Jameson Collier, Wayne High School
- **Brooke Pieke, Newman Grove Public Schools (not pictured)
- *Selected as the Senior Division top five winning projects.
- **Selected as the Senior Division top project.



Top ten senior high winners, Brooke Pieke not pictured.



Top five senior high winners, Brooke Pieke is not pictured.

The top ten winning projects for the Junior High Division (Grades 6-8) are as follows:

Kelvin Wertz, Lux Middle School, Lincoln Thomas Clare and Alexander Petty, team project,

Lux Middle School, Lincoln
Ina Bhoopalam, Lux Middle School, Lincoln
Ellie Messerschmidt, Lifegate Christian School, Omaha
Anna Kay Sitzman, McMillan Magnet, Omaha
Enya Zhu, Lux Middle School, Lincoln
Cole Kalkowski, St. Bernard, Omaha
Marcella Jurotich, Wayne Jr/Sr High School
Callie Brown, Wayne Jr/Sr High School
Mara Franssen, Hastings Middle School



The following Special Awards included a \$3000 University of Nebraska at Kearney scholarship presented to Isabella Gomez from Central City High and a \$100 scholarship from Wards Laboratories of Kearney was presented to Brooke Pieke from Newman Grove. Gabriel Runyon, Jacob Wagner, Brooke Pieke, Ina Bhoopalam and Brooke Pieke received \$50 awards from Midwest Laboratories of Omaha.

More information about the NJAS program can be found on our website: http://nebraskaacademyofsciences.wildapricot.org/NJAS or by emailing NJAS Director Aurietha M. Hoesing at beton@cox.net

Aurietha M. Hoesing, President/State Director Nebraska Junior Academy of Sciences beton@cox.net

2014 NAS ANNUAL MEETING REPORT

The Nebraska Academy of Sciences was established in 1880 and this year held its 124th Annual Meeting on April 11 and commemorated its 134th Anniversary on the campus of Nebraska Wesleyan University. There were 360

registrants at the collegiate academy and about 140 (students, teachers, parents and judges) total attended the State NJAS Science Fair competition and awards reception. Please read elsewhere in this newsletter about the results of the state science fair.

This year's Friend of Science Award Recipients were Daniel Sullivan and Michael Voorhies.

Dan Sullivan is a Professor Emeritus of Biochemistry at the University of Nebraska at Omaha, active in teaching and science outreach. He received his B.S. in Secondary Education from the University of Missouri, M.S. in Science from Omaha University, and the Ph.D. in Biochemistry and Nutrition from the University of Nebraska. With experience in education from the horse and buggy days to space exploration, he has taught at both secondary and university levels and served in many positions of leadership with organizations such as the American Chemical Society and the University of Nebraska.



Dr. Sullivan has received numerous awards including the Chancellor's Medal at the University of Nebraska at Omaha, the Excellence in Teaching Award at the University of Nebraska at Omaha, the Alumni Outstanding Teaching Award of the College of Arts and Sciences, the Nebraska Professor of the Year award, and the Carnegie Foundation Award for Advancement of Teaching. He was the 1960 Honor Graduate of the United States Army Noncommissioned Officers' Academy of the First Infantry Division at Fort Riley, Kansas.

Dr. Sullivan's research interests include studies of enzymes involved in mental retardation and aggression as well as development of new techniques for demonstrations of scientific principles. He has published many papers on topics relevant to science education and was a leading member of the team that designed and built the first successful water barometer. He has presented papers to organizations such as the American Chemical Society and the Nebraska Academy of Sciences, and he chaired the

Committee on Chemistry for the Health Professions for the American Chemical Society. Following retirement, he has continued to teach pre-medical and pre-dental students as part of the Summer Medical and Dental Education Program at the University of Nebraska Medical Center. Dr. Sullivan presents traveling science programs to children and the public, with a total attendance nearing one million at science shows given at locations from coast to coast and from Canada to Florida.

Mike Voorhies was born in Orchard, NE in 1941. He entered the University of Nebraska in 1958 hoping to become a pharmacist like his beloved grandfather and great grandfather. However, an introductory geology course taught by Sam Treves so completely enthralled him that he switched his major to geology and never looked back. Four summers spent collecting fossils in western Nebraska as a member of the University Museum's field crews fully determined the focus of his later career. Facetiously (but accurately) described by Dr. Treves (a confirmed hard rock geologist) as "a big pile of dirt" Nebraska's Cenozoic sedimentary deposits comprise an inexhaustible archive of our planet's last 35 million years of evolutionary change.

After receiving a BS in geology in 1962 Mike attended the University of Wyoming where he finished a PhD in geology (1966) working under the supervision of Paul McGrew who encouraged his lifelong interest in the origin of fossil beds (taphonomy). After teaching geology and paleontology at the University of Georgia (1966-1975) he returned to the University of Nebraska where he was professor of geology and curator of vertebrate paleontology before retiring in 2007.



Mike had hoped to do field and laboratory studies on rocks and fossils from all 93 Nebraska counties and all 35 million-year time slices in our state but only got about half way to this goal before a change of plans was dictated by chance events. What first appeared to be just another nice bonebed turned out to be not only surpassingly interesting

Scientifically; but also intriguing to the general public. An article, published in the National Geographic magazine (Jan. 1981), about the Ashfall site eventually led to the development of a state park where paleontology students continue to uncover new skeletons each summer. Ashfall Fossil Beds has attracted more than half a million visitors since the park opened in 1991.

Mike is grateful to the Academy for providing a forum for many generations of established scientists and promising students to present their research. He takes pride in the fact that the first public announcement of the discovery of skeletons in the volcanic ash bed was presented to the Academy during its annual meeting in 1978.

Two students, Danielle Desa, Creighton University; and Jessica Powell, University of Nebraska–Lincoln each received the Schultz Collegiate Scholarship for \$3000. Danielle plans to pursue a career in biophysics. Jessica is pursuing a career in aquatic resources, hoping to either do academic research with a university or work for an environmental agency.



Jessica Powell receives C. B. Schultz Collegiate Scholarship from James Wood, UNO and past-president of NAS.

Five students received memorial scholarships this spring which are administered through the Nebraska Academy of Sciences. Winners were as follows: Elizabeth Hoffman, Lincoln East High School, Lincoln, NE Loren Eiseley Memorial Scholarship; Julie Slama, Auburn High School, Auburn, Robert S. Kubicek Memorial Scholarship; Sarah Wollenburg, Tri-County Public Schools, Beatrice, Marian Schultz Memorial Environmental Scholarship; Rachel Phinney, North West High School, Grand Island, Lincoln Gem and Mineral Memorial Scholarship; and Nicole Smith, Skutt Catholic High School, Omaha, Taylor Memorial Scholarship.



Elizabeth Hoffman receives Loren Eiseley Scholarship from Dan Sitzman, incoming President of NAS.



Sarah Wollenburg receives the Marian Schultz Memorial Environmental Scholarship from Dan Sitzman.



Rachel Phinney, North West High School, Grand Island receives the Lincoln Gem and Mineral Scholarship from Dan Sitzman.

UNMC Outstanding Undergraduate Research in Biomedical or Biological Sciences Award

In recognition of the important contributions made by emerging scientists in the State of Nebraska, the University of Nebraska Medical Center (UNMC) is pleased to provide two awards for research presented at the 2014 Nebraska Academy of Sciences meeting. Each award comes with a plaque and a \$500 cash prize.

The award for Outstanding Undergraduate Research in Biomedical Sciences is sponsored by UNMC's MD/PhD Scholars Program and is being presented to Ms. Lyandysha Zholudeva from Creighton University for the project "Metabolic Profiling of Cochlear Dysfunction via Two-Photon Fluorescence Lifetime Microscopy of NADH". This work was performed under the supervision of Dr. Heather Jensen Smith and in collaboration with Ms. Kristina Ward and Dr. Michael Nichols at Creighton University.

The award for Outstanding Undergraduate Research in Biological Sciences is sponsored by UNMC's Biomedical Research Training Program and is being presented to Mr. Michael Visenio for the project "Pseudomonas Syringae Triggered Reduction of Host Histone H3-K9 Acetylation in Arabidopsis is Type III Effector Driven and May Involve Histone Deacetylase HDA5". This work was performed under the supervision of Dr. Karin van Dijk and in collaboration with Ms. Gloria Larson and Ms. Hayley Geisterfer at Creighton University and Dr. James Alfano at the University of Nebraska - Lincoln.

The Biomedical Research Training Program and the MD/PhD Scholars Program at UNMC provide PhD and MD/PhD training opportunities in the Biological/Biomedical Sciences in more than 130 research laboratories at UNMC.

The Nebraska Science News is a publication of the Nebraska Academy of Sciences, a private foundation associated with the American Association for the Advancement of Science.

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E-mail: nebacad@unl.edu Telephone: (402) 472-2644 Website: www.neacadsci.org Donations are tax deductible.

PUBLIC INFORMATION AND EDUCATION MINI-GRANTS UPDATE

A large number of applications were received for the April 4th, Public Information and Education Mini-grant 2014 deadline. Applications were received from Keep Omaha Beautiful, INC. - Rain Barrels for Community Gardens; Nebraska Game and Parks Commission - Park Naturalist Program Expansion in Western NE; Omaha Schools Foundation - Growing Flora of Nebraska Pollinators; Bancroft Elementary Zoo/Omaha HDZoo- Bancroft Pocket Garden Project; A Jewell Schock Museum of Natural History, WSC - Habitat and Stream Monitoring of Dog Creek; Board of Regents/UNL - Running Rain; Keep it Clean! Slow it Down! Soak it In!; No More Empty Pots -2014 food Waste Summit; Managing Organics; Ed George - Soil Project for Nebraska Science Teachers; Lincoln Community Foundation - Southern Heights Food Forest Pollinator Garden; Omaha's Henry Doorly Zoo - Growing Young Naturalists: Developing Environmental Stewardship Through Nature Exploration, Discovery, and Play; WasteCap Nebraska, INC. - 2014 Sustainability Summit: Zero Waste Roadmap; Groundwater Foundation -Educating the Next Generation of Water1ders; Trinity Infant & Child Care Center - Advancing Conservation Education through Outdoor Classroom Expansion; Kregel Windmill Factory Museum - Wind Energy: Understanding the Past, Envisioning the Future; The Nature Conservancy in Nebraska - The Prairie Ecologist Blog; Arian Olivera -Natural Nebraska; Board of Regents/UNL – Campus Green Team Pilot Program; WasteCap Nebraska, INC. - Online Recycling Guide; Fontenelle Forest - Technology, Communities, and Conservation; Board of Regents/UNL -NaturePalooza; Children and Nature in Our Parks - Place Based Habitat and Water Conservation Through Education; Riverside Discovery Center – Recycle!; Tri-Basin NRD, et. al. - Water Jamboree; and PRIDE Weed Management Area -Yellow Flag Iris Research and Education Project.

The Public Education and Minigrant program awards up to \$3000 to support the presentation and dissemination of information and perspectives that will stimulate enhanced environmental stewardship in any category eligible for Nebraska Environmental Trust (NET) funding. These categories are habitat, surface and ground water, waste management, air quality, and soil management.

Third quarter PIE grant applications are due July 11, 2014. Grant forms and information can be found on our website, www.neacadsci.org. Click on NAS and then click on Grants and Scholarships.

2014 NEBRASKA SCIENCE OLYMPIAD

The 27th Nebraska Science Olympiad tournament was held on March 29 at the University of Nebraska-Lincoln East Campus with the largest field ever as our tournament continues to grow. We had 32 middle schools and 32 senior high school teams participating. Bellevue Mission Middle school, coached by Suzanne Nolte, won for the 10th consecutive year. Lincoln Southwest, coached by Mark Shearer, Greg Cooper, and Jason Thomsen won for the fourth year in a row. Both of these teams will represent Nebraska at the National tournament in Orlando, Florida. Students competed in all 23 events offered at the National Level.

The state planning team is appreciative of these sponsoring organizations. Regional Tournaments: ESU 10, 16, Lincoln East, and Omaha's Henry Doorly Zoo and Aquarium. State Tournament: University of Nebraska–Lincoln (College of Agriculture and Natural Resources, Institute of Agriculture and Natural Resources, Center for Science Mathematics and Computer Education), Nebraska Association of Teachers of Science, and the Nebraska Department of Education.

Nebraska is gearing up to host the National Science Olympiad Tournament at UNL May 15-16 of 2015. We will be hosting our 2015 Nebraska Science Olympiad on the University of Nebraska-Lincoln City Campus on April 25, 2015. If you would like to be involved in next year's state tournament or the 2015 national competition contact James Blake (james.blake@nebraska.gov).

ACADEMY WEB SITE UPDATES

The NAS/NATS/NJAS web site is adding new content all the time. NATS Fall conference attendees and presenters can register on line. Give it a try.

Our newsletter is available to members and can be downloaded saving money and resources. The Transactions has been converted to on-line digital copy available through UNL Digital Commons as well as EBSCO Publishing. Publishing digitally allows us to upload research articles as they are submitted resulting in more timely distribution of research information. For information about accessing or submitting Transactions articles go to our website: www.neacadsci.org. Click on NEWS; then click on Publications (found on the left side bar).

KICKS₃ SUMMER INSTITUTES

Summer 2014 marks the third round of the Math Science Partnership Nebraska Science KICKS₃ project. The "look" of the institutes will be changed somewhat. Two content specific K-12 institutes will be hosted at various locations across the state each summer (2014, 2015, and 2016). Teacher participants would be expected to be in attendance for 8 days of summer institute, 3 days at the NATS Fall Conference, and 12 hours of follow-up peer coaching.

East Institute: Culler Middle School, Lincoln https://sites.google.com/a/esusixteen.org/sciencekicks/h ome/life-science-2014

West Institute: Cedar Point Biological Station, Chadron https://sites.google.com/a/esusixteen.org/sciencekicks/h ome/earth-space-science-2014

Contact Deb Paulman for more info. mailto:dpaulman@esusixteen.org

REMINDERS

- 1) Register to attend the 2014 NATS Fall Conference. You can register using the form in this newsletter or you can also register on line from the Events tab on our website: www.neacadsci.org. There will be sessions in all the different science disciplines as well as numerous sessions for elementary teachers. NATS will NOT be making hotel reservations this year. If you wish to stay at Camp Calvin Crest please return your registration early. Hotel reservations are on your own this year!!!
- 2) Presenters at Fall Conference need to send in their proposal by August 1st. Don't delay. Late submissions are accepted on a case by case basis. Proposals must be accompanied by payment. Mail, email, or fax (402-472-8899) your proposal. The proposal form is included in this newsletter. You can also submit your proposal on line using the NAS website. Click on events.
- 3) The next Public Information and Education minigrant deadline is July 11th. Grants are awarded in any amount up to \$3000.00. Fourth quarter deadline is October 3, 2014.

NAS RECEIVES NEBRASKA ENVIRONMENTAL TRUST GRANT

On April 5, 2014 The Nebraska Academy of Sciences, Inc., announced that it will receive \$57,200.00 from the Nebraska Environmental Trust for the "Nebraska Environmental Public Information and Education MiniGrant Program" project. The Trust Board announced funding for the project at its meeting on April 3, 2014 in Lincoln. This is the first year of award with a potential for 2nd and 3rd year funding totaling \$ 57,200.00 and \$ 57,200.00 respectively. The project is one of the 132 projects receiving \$21,750,000 in grant awards from the Nebraska Environmental Trust this year. Of these, 56 were new applications and 76 are carry-over projects.

The Nebraska Environmental Public Information and Education MiniGrant Program will award a total of \$51,000 each year for the next three years, in MiniGrants of up to \$3,000 each, to support the presentation and dissemination of information and perspectives that will stimulate enhanced environmental stewardship in any category eligible for Nebraska Environmental Trust (NET) funding. These categories are habitat, surface and ground water, waste management, air quality, and soil management. The grants seek to expand dialogue on important current conservation topics and to provide information on emerging or highly useful conservation methods. All Nebraska individuals, private organizations, and public entities are eligible to apply for these funds. This program will be administered by the Nebraska Academy of Sciences.



The Nebraska Legislature created the Nebraska Environmental Trust in 1992. Using revenue from the Nebraska Lottery, the Trust has provided over \$213 million in grants to over 1,600 projects across the state. Anyone – citizens, organizations, communities, farmers and businesses – can apply for funding to protect habitat,

improve water quality and establish recycling programs in Nebraska. The Nebraska Environmental Trust works to preserve, protect and restore our natural resources for future generations.





SOIL CONSERVATION WORKSHOPS ANNOUNCED

A new series of workshops has been announced, "Educating the Next Generation of Nebraskans About Soil Conservation." Dr. Lesli Rawlings, Wayne State College will be presenting. Topics will include soil conservation practices, story mapping: http://storymaps.esri.com/home, GPS data Collection, a free GIS site license for your school (\$80,000 value), and two-day stipend of \$120. These workshops are available to K-12 teachers and lunch is provided. The workshops will be held in four locations: Omaha (June 25-26), Scottsbluff (June 30 – July 1), Wakefield (July 17 – 18) and North Platte (July 24-25).

You can register online at: $\underline{\text{Soil Conservation Workshops}}$. Sponsored by:











NATS PROGRAM PROPOSAL

2014 Fall Conference September 25-September 27, 2014

FOR OFFICE USE ONLY					
Session Type					
Day					
TimeLength					

www.neacadsci.org

NOTE: All Presenters are asked to register for the Conference. Registration fee is \$105, includes membership.

Please complete a registration form and include with your program proposal.

CAMP CALVIN CREST DOES NOT HAVE INTERNET ACCESS. PLEASE PLAN ACCORDINGLY FOR YOUR PRESENTATION

Please Type or Print (legibly in black) Information as You Wish It to Appear in Convention Program **Principal Presenter Second Presenter** Name______Name____ School/Business School/Business _____ Preferred Mail Address Preferred Mail Address City State Zip(+4)______ State Zip(+4)Phone: Work_____ Home: ____ Phone: Work_____ Home: ____ Email Email NOTE: For any additional presenters, please include the information requested above on an additional page. **Session Data** Session Title Brief Description (50 words or less) State Standard(s) Address in Presentation Please list Standards in the following form: 4.7.4 or 8.2.1 or 12.3.2. It is recommended that in your presentation you include assessment ideas for the standards you address. This is absolutely necessary! NATS Bookstore Item The NATS bookstore can arrange to sell publications from the NSTA catalog. If appropriate, provide the Title and Author of an NSTA catalog item that closely links to your presentation. Presenters may also sell publications during their presentation time. I have a publication suggestion for the NATS bookstore that is linked to my presentation. _____ Author(s): _____ **Description of Session Types (Check One that describes your presentation): Demonstration:** Presenter demonstrates a series of experiments, scientific phenomenon or an apparatus used in science. Limited audience participation. Theater-style setup. Hands-On Workshop: Presenter involves audience with materials. Classroom-style setup. Make It Take It: Hands on activities where participants leave with product to take back to classroom. Classroom-style setup. Field Trip: Can be at Camp Calvin Crest or transported to another site. (Minimum of 2 hours). Include transportation plans. **Contributed Paper:** Presenter shares results of research or shares a creative teaching strategy. Theater-style setup. **Short Course:** A 2-3 hour session/workshop that may include in depth information on a topic or hands-on experience that requires more than a single session.

Length of Session: Three Hour Thursday Afternoon Workshop (1:30 – 4:30) One Hour - (the standard length presentation) Two Hour –			Please Mark your choice: [] Friday Only [] Saturday Only [] Friday or Saturday			
	nal Program.) Physical Science mental Science	☐ Integrate ☐ Inquiry ☐ Assessn	ed	☐ Elementary ☐ Technology	hnology/Society	
Intended Audience: ☐ K-3 ☐ 4-6 ☐ Middle/Juni	or High Ser	nior High	Post Sec	condary	☐ All	
Maximum number of participants for your se		gnments base Preference	d on space ava	ailability)		
AV Equipment: (NOTE: Equipment not listed ☐ Screen	d below is to be prov	ided/arrange	d by the prese	nter.)		
Fees may be charged for the cost of materials The fee for this session is \$	<u> </u>	re responsible nere is no sess		g fees for the ses	sion.	
Fee pays for:						
Repeat Session:						
Would you be willing to present your session tw	rice? YES	NO				
Safety Issues As a NATS presenter, you must comply with the must agree to comply with the guidelines during confirmation letter. Special Room Arrangements: Normal arrangement on availability of resources. List any	y your presentation. To	his compliance tables and/or	e form will be	sent when we se	and you the program	
Only the <i>principal presenter</i> will be contacted of principal presenter. The principal presenter must lift you or any member of your team would like please indicate below. Use additional sheets if	t share information wi e an administrator, di	th his/her co-	presenter(s). etc. notified of	your participati	on post-conference	
which presenter if there is more than one presen		to designate	which present	or a definition	i, etc. materies with	
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	one copy of this propoposals will be accep					

Return one copy of this proposal by August 1, 2014: (later proposals will be accepted only as space allows NATS

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Photocopy this form as needed

Amount Enclosed



Please TYPE or Print Legibly in INK

Early Registration, 2014 Conference Dates are Sept 25- Sept 27

Register on line at www.neacadsci.org/ Click on Events Name **ESU** School Home Address School Address City City State Zip State Zip Email School Ph Home Ph Teaching Assignment Elementary Middle/JR High Senior High College Pre-service If you received any science teaching awards between November 2013 and September 2014 please list Would you like a copy of *The Yearly Proceedings of NAS*? Yes No May we use pictures of you taken at Fall Conference in our newsletter, on our website or in publications to promote NATS? Yes We would like to forward you information about science opportunities, grants, conferences, camps via email unless you decline. CONFERENCE REGISTRATION LATE REGISTRATION (Postmarked by September 5) (On-site or after September 5) \$105 Includes conference & NAS/NATS Memberships \$130 Includes conference & NAS/NATS Memberships \$60 Saturday only conference & NAS/NATS Membership \$70 Saturday only conference & NAS/NATS Membership \$55 Pre-Service Teacher, Student or Non-teaching spouse \$45 Pre-Service Teacher, Student, or Non-teaching spouse WORKSHOP REGISTRATION FOR THURSDAY, SEPTEMBER 25th to be posted in August ACCOMMODATIONS - NATS is only providing lodging at Camp Calvin Crest. Hotel arrangements are on your own!!! Roommates must submit together! For Lodging Assignment Purposes Only Camp space is limited, so register early. Camp space is assigned on first come, first reserved basis. Female Male LODGE: Bedding and towels provided. CABINS: Bring your own bedding and towels. Special accommodations required, handicapped, etc. Hotel arrangements by NATS are no longer an option; you must make your own Specify payment and reservations for a hotel. Staying 2 nights? The BEST DEAL One-night LODGING ONLY INCLUDES ALL LODGING AND MEALS (CHECK THE LODGING YOU WILL NEED) ☐ Lodge \$135 (Bedding and Towels Included) ☐ Thursday Night Lodge \$ 45 ☐Friday Night Lodge \$ 45 Cabin \$ 115 (Bring Your Bedding And Towels) ☐Thursday Night Cabin \$ 30 Friday Night Cabin \$ 30 MEALS ONLY (CHECK THE MEALS YOU WILL NEED) ☐ Thursday Steak Fry \$14.00 Friday Breakfast \$7.00 Friday Lunch \$8.00 Friday Dinner \$10.00 Saturday Breakfast \$7.00 Saturday Lunch \$8.00 Return forms to: nebacad@unl.edu, or NATS, 302 Morrill Hall, 14th and U Street, Lincoln, NE 68588-0339, fax 402-472-8899, questions 402-472-2644 Checks payable to: NATS CREDIT CARD PAYMENT ☐ Master Card ☐ Visa Registration Total Organization to be Billed □Discover Card Number Lodging and Meals Total \$__ 3 Digit Security Code (on back of card) Expiration Date / TOTAL Do you need a Receipt?

Name on card

Address of cardholder

____Yes ____No