

Nebraska Science News



Nebraska Academy of Sciences



Nebraska Association of Teachers of Science

Serving Scientists and Science Educators Across the State of Nebraska

Summer, 2014-2015

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FROM THE NAS PRESIDENTS' DESK

As a scientist and educator, I sometimes find periodic reports of the state of science and science education alarming. The cover story of the March issue of the *National Geographic*, for example, describes "The War on Science," a current state of skepticism about the ability of science and that difficult discipline, the scientific method, to find the truth. In the current legislative sessions of other states, bills have been introduced to increase the teaching effectiveness or efficiency of public university professors, intentionally or unintentionally devaluing scholarly research. Thank goodness for our annual meeting, where I heard a clear message that friends of science across the state are working to promote the objectives of our Academy: To further the work of scientists, to facilitate their cooperation, to improve the effectiveness of science in the promotion of human welfare, to increase public understanding of the importance and promise of science in human progress and to stimulate science education. John Quincy Adams, who in his 1825 first Annual Message to Congress said that ". . . perhaps the very first instrument for the improvement of the condition of men, is knowledge; and to the acquisition of much of the knowledge adapted to the wants, the comforts, and enjoyments of human life, public institutions and seminaries of learning are essential," would be proud.

Our Annual meeting aside, it is not hard to find the lively nature of science in Nebraska this spring. April's [Nebraska Science Festival](#) continued to expand, with activities hosted at multiple locations in 10 cities. The Chadron State College Graves Lecture Series, available on the [Chadron State College YouTube channel](#), presented a wide range of interesting subjects, including botany, rangeland

management, and Nebraska-born psychologists. The University of Nebraska Medical Center's [Science Café](#) continues to offer the interested public in-person conversations with scientists about science. The Hastings College chapter of the American Chemical Society and the Hastings Museum held the College's inaugural Science Day Camp. Coming up: the [Science Olympiad's](#) 2015 National Tournament, which will be held on May 15-16 in Lincoln; your Academy is an important, early sponsor of this event.

Nebraska is fortunate to be alive with leaders in science. To single out a few, Judy Diamond, professor and curator at the University of Nebraska State Museum and AAAS fellow, has joined the membership of the AAAS Committee on Science and Technology Engagement with the Public; among my chemistry colleagues, Mark Griep, associate professor of chemistry at the University of Nebraska-Lincoln, is the 2015 Outreach Volunteer of the Year by the Nebraska section of the American Chemical Society, and Julie Soukup, professor of chemistry at Creighton University, has been named director of Creighton's new Center for Undergraduate Research and Scholarship. Undergraduate research is a mainstay of Academy proceedings, with students contributing presentations in both collegiate and regular sections of annual meetings, sharing the excitement and pleasure of new knowledge that motivates us as scientists.

People power the events that stimulate science and science education in our state. This includes significant recent and continuing private, corporate, and public investment in bricks and mortar: Witness the state-of-the-art Morrison-Reeves Science Center on the campus of Hastings College, opened in 2009, Black Hills Energy's gift to Northeast Community College to purchase equipment for a new 9.1 million dollar applied technology building, opening in 2016, and construction of the Fred and Pamela Buffett Cancer Center at the University of Nebraska

Medical Center. The 10-floor Cancer Research Tower of this facility will house 98 new research laboratories.

As goes our annual meeting, so goes the state: Science and science education is alive, well, and growing. Thank you to the members and leaders that have sustained science and the Academy, Nebraska's flagship for the sciences. Thank you especially to Past President Dan Sitzman for his leadership and continuing service as Counselor, and to Executive Secretary and Newsletter Editor Cecelia Dorn. By their examples we can continue to promote an appreciation of science through education, communication and cooperation.

Martin Hulce, NAS President
Creighton University

GREETINGS FROM THE NATS PRESIDENT

I just love spring! It's a time of new beginning. The frozen earth comes alive. New babies are hatched from their nests and begin their innate behaviors of learning to sing and calling for food. Everything begins to blossom, grow, and breathe again. The greys and browns of winter are replaced with vivid purples, oranges, yellows, and multiple hues of green. The darkness and cold is replaced with sunshine and warmth. Its a time for doing; planting, seeding, cleaning, building, and sorting. The cycle of life continues.

In the classroom, it's a time of transitioning as well. Students who are getting ready for graduation will move on. Other students will take their place. My kindergartner will graduate and begin his journey down the path of education. My second grader prepares himself for the "rigors" of third grade. The cycle of education continues.

Spring can be beautiful and refreshing but it can also be stressful and very busy. Just as the birds work tirelessly to prepare their nests for their offspring, science teachers across the state put in extra hours to prepare students to be ready for their future as well. I know because I see it every day. Nebraska's science educators know that learning is not just for a test but for lifelong success. We know that if the students have a good "nest" and plenty of "nourishment," they will probably do just fine. Yet, the future is still uncertain. Good parenting by mommy and daddy bird does not guarantee the chick's survival. Great teaching does not guarantee a child's success. Eventually, both will fly away to begin their own life and choose their own path.

The future is hard to predict. For the bird family, all they know is today. Find food, avoid predators, seek shelter

from storms, and do the best they can. For the science teacher, it can often feel much the same. Will there be funding? Will I have a job? Will the students have the skills to navigate the foreseeable and unforeseeable future? What will technology be like next year? Five years? Twenty? What about our society? Will there be clean air for my grandchildren to breathe? Will the land be taken care of? Can science meet the global demands for clean water and food? What about our safety and security?

I often wonder about these challenges as well as the future of the NATS organization. Just like many other associations, there are many unknowns. In general, membership numbers are down. The board members have been asking hard questions. How can we maintain and even increase our membership? How do we keep science educators active in our association? Who will be the future leaders? How can our association stay relevant in these changing times?

The new generation of science teachers has different expectations and needs. They need to be engaged, but how? Experienced science teachers took me "under their wings" and made me a part of the NATS family. Thanks Ed and Lee! What if each of us took the time to do that for one other science educator. Imagine the impact!

Summer. Fall. Winter. Spring. The cycles of life. Sadly, the natural cycle of life often means the passing on of loved ones and with it the loss of dear NATS members. Many of us knew Jim Rynearson, who died after a tough fight with cancer. Jim was serving his third term on the NATS board and was also a past-president of the organization. He will be dearly missed, along with the other members of our science family who are no longer with us.

Jim was an inspiration to many students, colleagues, and fellow science educators across the state. He will never be replaced. However, someone is needed to pick up the "battle flag" and continue on with the work of the NATS board. Humbly and often without much thanks, Jim, along with other board members, both past and current, did the work of serving the science community across the great state of Nebraska. This year, it might be your turn to pick up where Jim left off. If you know you should be part of the board, please contact past-president Katie Ramsey at kramsey@gips.org.

It has been an honor to serve as your NATS president these past seven months. Looking down the road, I know I will leave this organization in good hands. Your next president, Lee Brogie, is already hard at work organizing another great [Fall Conference September 24-26!](#) Check in on Facebook for updates on this along with the National Science Olympiad (Lincoln), the National Conference on

Science Education (Omaha), and the NSTA Regional Conference (Kansas City). Good luck on finishing out the school year and don't forget to stop and smell the flowers, listen to the birds, and enjoy an Earth renewed. And, get your students to smell them too!

Joe Myers, NATS President



2015 NEBRASKA JUNIOR ACADEMY OF SCIENCES SCIENCE FAIR RESULTS

The Nebraska Junior Academy of Sciences (NJAS) state science fair was held Friday, April 17, 2015, at Nebraska Wesleyan University. A total of 56 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 next 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 2016. These student delegates will present their scientific research, meet with internationally renowned scientists, and collaborate with other young scientists. The February, 2015 meeting was held in San Jose, CA.

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

- Tyler Djernes, Central City High School
- Hanna Fleischer and Rachel Kort, Adams Central Jr./Sr. High School
- Jill Gathje, Central City High School
- Daenen Jones and Anna Kay Sitzman, Omaha North High School
- Marcella Jurotich, Wayne Jr./Sr. High School
- Coleman Kneifl, Allen Consolidated Schools
- Jonah Peterson, Central City High School
- Courtney Smith, Bellevue West High School
- Levi Woodward, Consolidated Schools
- Brooke Mott, Zoo Academy/Omaha Burke High School



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

- Katie Bathke, Allen Consolidated Schools
- Ina Bhoopalam, Lincoln Lux Middle School
- Treyton Blecke, Wayne Elementary Middle School
- Bria Gilmore, Omaha Buffett Magnet Middle School
- Sarah Greenwald, Wayne Junior High School
- Kaitlyn Harrison, Gothenburg Public Schools
- Christopher Lin, Omaha Brownell Talbot
- Meera Nair, Omaha Brownell Talbot
- Alexander Petty, Lincoln Lux Middle School
- Enya Zhu, from Lincoln Lux Middle School



More information about the NJAS program can be found on the website:

www.nebraskajunioracademyofsciences.org or emailing NJAS Director Aurietha Hoelsing at beton@cox.net

Aurietha M. Hoelsing, President/State Coordinator
Nebraska Junior Academy of Sciences

ACADEMY WEB SITE UPDATES

The NAS/NATS/NJAS web site is adding new content all the time.

Our newsletter is available to members and can be downloaded saving money and resources. The Transactions and the Program and Proceedings 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). Proceedings articles will continue to be submitted through section chairs. Don't forget to "friend" the NATS Facebook as well.

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.
NAS President: Martin Hulce
NATS President: Joe Myers
NJAS President: Aurietha Hoising
NAS Executive Secretary: Cecelia Dorn
Nebr. Sci. News Editor: Cecelia Dorn
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E-mail: nebacad@unl.edu Telephone: (402) 472-2644
Website: www.neacadsci.org Donations are tax deductible.



New on the Space Place Web Site: Airmoss Experiment

Space Place is pleased to announce a new way to spice up your classroom or after-school experience—the Space Place Experiment Center! Loaded with two classic bean-sprout experiments, this web app brings the excitement of the scientific method into the digital age with a framework for students to input observations and record daily changes—all online. How much water does a bean need to sprout? What happens if you try to grow a bean plant without light? Start your investigation today!<http://spaceplace.nasa.gov/experiment>. *The Space Place is a NASA educational website about space and*

earth sciences and technologies. It targets upper-elementary-aged-children.

PIE GRANTS UPDATE

The Nebraska Academy of Sciences (NAS) received eight applications for the first quarter 2015 PIE minigrant program. Applications were received from: Elkhorn Valley Museum, Exploring Vegas Park; Upper Elkhorn NRD, Bazile GWMA Storm Water Conservation; Audubon Nebraska, Audubon's Nebraska Crane Festival; The Nature Conservancy, The Central Nebraska Prairie Reader; WasteCap Nebraska, Lincoln Community Soil Rebuilders-Advance Composter Training; Community Crops, Sustainable Agriculture Education Program; Loup Basin Resource Conservation and Development, 2015 Loup Basin Recycling Guide; and Bryan College of Health Sciences, Environmental Pollutants As A source of Endocrine Disruptors.

Six were awarded grants: Elkhorn Valley Museum, Exploring Vegas Park; Audubon Nebraska, Audubon's Nebraska Crane Festival; The Nature Conservancy, The Central Nebraska Prairie Reader; WasteCap Nebraska, Lincoln Community Soil Rebuilders-Advance Composter Training; Community Crops, Sustainable Agriculture Education Program; and Loup Basin Resource Conservation and Development, 2015 Loup Basin Recycling Guide.

During the first quarter a number of PIE grants were completed. Reports were received from 11 grant recipients. Grant monies were used to support speakers at conferences, improve website design, design and distribute promotional materials for environmental projects and in general improve Nebraska citizens' knowledge and relationship to the environment. Here are just a few highlights. The Nature Conservancy sponsored the Platte River Field Day in June and August of 2014. Over 100 people attended who learned more about grassland habitat, identification of birds, wetland plants, grasses, and general management of habitat. Spring Creek Prairie Audubon Center used their grant funding to develop a Spanish Language Discovery Pack to help inform visitors about Nebraska's tallgrass prairie. The Middle Niobrara Natural Resources District presented demonstrations on nitrate testing at a number of county fairs, and a ranch expo. With their in house testing machine they can test for nitrate on site. Since nitrate contamination in water wells has become a concern the ability to "test your well" is very important.

The Academy received nine applications for the second quarter of 2015. The review process is ongoing and recipients will be announced in early June.

The Academy also received notification that we have been approved for the second year of grant 14-101 from the Nebraska Environmental Trust. This means we have authorization to continue the PIE grant program for another year.

The Nebraska Environmental Public Information and Education MiniGrant Program awards 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 grant expands dialogue on important current conservation topics and provides information on emerging or highly useful conservation methods. All Nebraska individuals, private organizations, and public entities are eligible to apply for these funds.

The Nebraska Legislature created the Nebraska Environmental Trust in 1992. Using revenue from the Nebraska Lottery, the Trust has provided over \$225 million in grants to over 1,700 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. <http://www.environmentaltrust.org/>

Third quarter 2015 applications are due July 10, 2015.

Grant forms and information can be found on our website, www.neacadsci.org. Click on NAS and then click on Grants and Scholarships.



**2015 SCIENCE OLYMPIAD
NATIONAL TOURNAMENT
MAY 15 – 18, 2015
UNIVERSITY OF NEBRASKA-
LINCOLN**

The 2015 Science Olympiad National Tournament committee is seeking volunteers to help with over 3000 guests expected to attend May 15 – 18. To volunteer go to the Science Olympiad web page: <http://www.scienceolympiad2015.com/>

Under “Recent News” (lower left of the web page) click on the “Volunteer for Nationals!” link. Your time and skills are needed to make this a success and showcase Nebraska to the rest of the country. Teams from around the nation will represent their states at the highest level of academic achievement in science, technology, engineering, and math. If you have questions please contact Sara Cooper sara.cooper@nebraska.gov

**135TH ANNIVERSARY YEAR
125TH ANNUAL MEETING OF THE
NEBRASKA ACADEMY
OF SCIENCES
APRIL 17, 2015 AT NEBRASKA
WESLEYAN UNIVERSITY**

The 125th Annual Meeting of the Nebraska Academy of Sciences was a big success. Over 360 people attended this year and 228 abstracts were presented in 10 different sections. 185 people attended our awards reception. Highlights of the meeting included the Maiben Lecture by Shawn Gibbs, a Professor with the University of Nebraska Medical Center's Department of Environmental, Agricultural & Occupational Health in the College of Public Health. He also serves as the Associate Dean for Student Affairs, Director of Prevention/Intervention Core for the Central States Center for Agricultural Safety and Health, and Director of Research for the Nebraska Biocontainment Unit. Shawn's topic concerned Ebola treatment protocol at UNMC.

Two Friend of Science awards were presented to Jim Woodland and David Dow of Omaha.

Dave Dow was born and raised in Lincoln, graduated from Lincoln Southeast High School and received his B.S. in chemistry from Nebraska Wesleyan University. He attended Iowa State University before and after serving in the Army, including a tour in Viet Nam. After publishing a paper at ISU and deciding to become a chemistry teacher, he studied at and received a Master of Science in Teaching from American University (Washington, DC).

Dave taught at Ashland-Greenwood High School for three years, starting a science fair, science club, and recycling program there. He started teaching at Omaha Creighton Prep in 1977, teaching chemistry, honors chemistry, college (which became Advanced Placement ®) chemistry, other science courses and directed students doing science fair projects at local, regional, state and international levels. Dave has sponsored students at Science Bowl and TEAMS (Tests of Engineering Aptitude, Mathematics and Science) competitions starting in 1983 resulting in 54 state

championships and four national team championships and dozens of individual champions. Other competitions have included the Nebraska State Fair science and science display competitions, CU/UNO Chemistry Field Day, Metro Regional and Nebraska Envirothon, and Nebraska Science Olympiad.



Dave was the founder/director of the Metropolitan Omaha Regional Science Fair, starting at Creighton Prep, now the Metropolitan Science and Engineering Fair, including multiple terms as President. The first recycling program in Omaha was started at Creighton Prep in 1977, still accepting recyclables from across the metro area and surpassing the 1.4 million pounds of materials collected mark. He is a member and former secretary of the Omaha section of the American Chemical Society, member of the National Science Teachers Association, charter member of the American Association of Chemistry Teachers and former member of the American Association for the Advancement of Science.

Dave has taught chemistry to over 4000 students. For his teaching efforts, Creighton Prep has named him Nebraska Teacher Recognition Day awardee, Outstanding Faculty Member of the Year and a member of the Creighton Prep Hall of Fame. State honors have included the Presidential Award of Excellence in Science & Mathematics state finalist and the Christa McAuliffe prize. He was faculty sponsor of the National Outstanding Junior Engineering Technical Society (JETS) Chapter and National Outstanding JETS Chapter Program. He received the Nebraska Recycling Teacher award from the Nebraska State Recycling Association, Outstanding Volunteer award and Litter Reduction and Recycling awards from Keep Omaha Beautiful, WOWT Six Who Share Award, and the Woodmen of the World Conservation Award.

Jim Woodland grew up in Omaha, Nebraska. He received his B.S. in Education from the University of Nebraska–

Lincoln in 1971, and M.S. in Educational Administration from the University of Nebraska at Omaha in 1982. For thirteen years he taught secondary science in Fremont, Nebraska. In addition, he developed and organized summer science field trips, was a class sponsor, head boys tennis coach, assistant swimming coach, and was the science Ecomeet coach. His team won the event in 1979.



Following his tenure at Fremont, he was an instructor in secondary science education at the University of Nebraska–Lincoln from 1984–1986. His duties included supervision of secondary pre-service teachers and teaching science education courses. He was recognized for Excellence in Secondary School Teacher Education by the National Science Teachers Association in 1987.

From November of 1986 until he retired in 2013, Jim was Director of Science for the Nebraska Department of Education. His duties included coordination, development, and implementation of Nebraska Science Standards and state science assessments; consulting with Nebraska K-12 school districts about science standards, assessment, and curriculum; chairing ad hoc committee for Nebraska science teaching endorsements; assisting with accreditation of K-12 school districts; State Coordinator for D. D. Eisenhower Mathematics and Science Education Program; state coordination of various teacher and student recognition programs; facilitating dissemination of science classroom safety procedures; providing professional development on effective science education.

Throughout his career, he has made numerous presentations on science education at the local, state, and national level. He has served as President of the Council of State Science Supervisors, Director of Supervision and Executive Board Member for the National Science Teachers Association. He is currently serving on the Science Olympiad Executive Board.

Jim has received recognition for his leadership in science education by the Nebraska Academy of Sciences, National Science Teachers Association, and Science Olympiad. In 2013, NATS named him the first J.A. Woodland Lifetime Achievement in Science Education Leadership recipient. He was inducted into the Westside Alumni Association Hall of Fame in 2014. He is a Past President of NATS and served as advisor to the Nebraska Academy of Sciences and Nebraska Association of Teachers of Science for over 27 years.

Eight scholarships were presented at the 2015 Awards Reception, six to high school seniors and two to collegiate recipients.

High School Scholarships:

Loren Eiseley Memorial Scholarship: Loren Steinman, Nebraska City High School, Nebraska City



Robert S. Kubicek Memorial Scholarship: Brock Mueller, Crofton High School, Crofton

Marian Othmer Schultz Memorial Environmental Scholarship: Daniel Mitchell, Milford High School

M.O. and Bertrand Schultz Memorial Scholarship: Cody Willnerd, Grand Island Central Catholic, Grand Island



Lincoln Gem and Mineral Memorial Scholarship: Samantha Teten, Johnson-Brock High School, Johnson

Taylor Memorial Scholarship, Addison Krebs, Millard South High School, Omaha.

Danielle Desa, Creighton University, Omaha and Celeste Labedz, University of Nebraska–Lincoln received C. Bertrand and Marian Othmer Schulz Collegiate Scholarships for \$3000 each.



Danielle is majoring in biophysics and is planning a career in research. Celeste is also planning a career in research in the area of geophysics, particularly in either seismology or planetary science.

Numerous Nebraska Junior Academy awards were also presented. Those details are in the NJAS article on page 3.

MS. MELANIE FEHRINGER AND MS. DANIELLE DESA RECEIVE UNMC'S AWARDS FOR OUTSTANDING UNDERGRADUATE RESEARCH IN BIOMEDICAL OR BIOLOGICAL SCIENCES

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 2015 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. Danielle Desa from Creighton University for the project "Otototoxic aminoglycosides increase reactive oxygen species while decreasing NADH reduction capacity at complex I". This work was performed under the supervision of Dr. Heather Jensen Smith and in collaboration with 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 Ms. Melanie Fehringer from Nebraska Wesleyan University for the project "Analysis of common bean (*Phaseolus vulgaris* Linneus) with isolated Nebraska root pathogens using molecular processing, colony characteristics, and pathogenicity testing". This work was performed under the supervision of Dr. James Steadman 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.

NEBRASKA Science Olympiad ANNOUNCES 2015 COMPETITION WINNERS

Nebraska Science Olympiad, a Nebraska Department of Education student organization, recently held its 27th annual state competition on Saturday, April 25th on UNL's city campus.

657 registered competitors representing 33 high schools (C division) and 30 middle schools (B division) from across the state competed in various science events. The top team from the C division and top two teams from the B division will advance to the National competition also being held in Lincoln on May 16th.

B Division Juniors Top 6 Team Awards

Bellevue Mission
Bellevue Logan Fontenelle
Omaha McMillan
Lincoln Lux
Lincoln Scott
Aquinas Catholic

C Division-High School Top 6 Team Awards

Lincoln Southwest
Bellevue West
Lincoln East
Bellevue East
Omaha North
Lincoln Science Focus

Other Award Winners:

Spirit of Science Award

B division—Aquinas Catholic Middle School
C division—Norris High School

Shooting Star Award

B division—Paxton Middle School
C division—Ogallala High School

Coaching Award

John Huber of Omaha McMillan Magnet Middle School



Norris – Spirit of Science Award

NATS PRESENTER PROPOSALS

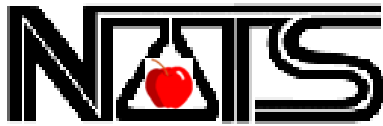
Now is the time to consider presenting at the NATS Fall Conference in September. You can present as an individual or team and we strongly encourage you to consider especially if you have never done so before. Presentations are needed in varying subject areas and grade levels. Presenters do need to complete a registration form and pay the registration fee as well. Please click on the following link to submit your proposal. The deadline for submissions is August 1st, any proposal submitted after that time will be accepted as space allows.

[NATS Fall Conference Presenter Proposal Form](#)

NATS FALL CONFERENCE GENERAL REGISTRATION

Consider registering early for the NATS Fall Conference. We will be at Camp Calvin Crest in Fremont again this year from September 24 – September 26. You can register several different ways, use the form included in this newsletter and mail your payment in or include your billing information. Use your credit card and mail or fax (402-472-8899) your form. You can also register on line on our Events page and pay using PayPal or indicate that you would like to have your school invoiced.

[NATS Fall Conference On-Line Registration](#)



NATS PROGRAM PROPOSAL

2015 Fall Conference
September 24-September 26, 2015

www.neacadsci.org

FOR OFFICE USE ONLY
Session Type
Day
Time Length

NOTE: All Presenters are asked to register for the Conference. Registration fee is \$125, 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, Dept., School/Business, Preferred Mail Address, City, State Zip(+4), Phone: Work, Cell, Fax, 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. Title: 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:
 3 hour Thursday only
 Friday Only
 Saturday Only
 Friday or Saturday

Science Area: (Check only one for listing in final Program.)

- | | | | |
|---|---|-------------------------------------|---|
| <input type="checkbox"/> Biology/Life Science | <input type="checkbox"/> Physics/Physical Science | <input type="checkbox"/> Integrated | <input type="checkbox"/> Elementary Science |
| <input type="checkbox"/> Chemistry | <input type="checkbox"/> Environmental Science | <input type="checkbox"/> Inquiry | <input type="checkbox"/> Technology |
| <input type="checkbox"/> Earth/Space Science | <input type="checkbox"/> General | <input type="checkbox"/> Assessment | <input type="checkbox"/> Science/Technology/Society |

Intended Audience:

- K-3 4-6 Middle/Junior High Senior High Post Secondary All

Maximum number of participants for your session? (Room assignments based on space availability)

- 15 or fewer 16 - 30 31 - 50 No Preference

AV Equipment: (NOTE: Equipment not listed below is to be provided/arranged by the presenter.)

- Screen

Fees may be charged for the cost of materials only. Presenter(s) are responsible for collecting fees for the session.

- The fee for this session is \$_____.
- There is no session fee.

Fee pays for:_____

Repeat Session:

Would you be willing to present your session twice? YES NO

Safety Issues

As a NATS presenter, you must comply with the "Minimum Safety Guidelines to NATS Presenters and Workshop Leaders" and you must agree to comply with the guidelines during your presentation. This compliance form will be sent when we send you the program confirmation letter.

Special Room Arrangements: Normal arrangements will include tables and/or chairs unless otherwise requested. Special set ups dependent on availability of resources. List any special needs you will have:

Only the *principal presenter* will be contacted concerning confirmations. All correspondence will be sent to the email address of the principal presenter. The principal presenter must share information with his/her co-presenter(s).

If you or any member of your team would like an administrator, division chief, etc. notified of your participation post-conference, please indicate below. Use additional sheets if necessary. Be certain to designate which presenter's administrator, etc. matches with which presenter if there is more than one presenter in your group.

Name _____	Name _____
School _____	School _____
Position _____	Position _____
Address _____	Address _____
City _____	City _____
State, Zip (+4) _____	State, Zip (+4) _____

**Return one copy of this proposal by August 1, 2015:
(later proposals will be accepted only as space allows)**

NATS
302 Morrill Hall, 14th and U Streets
Lincoln, NE 68588-0339
nebacad@unl.edu
402/472-2644

Photocopy this form
as needed



Please TYPE or Print
Legibly in INK

This conference is partially supported by NSEA and NSTA
<http://www.neacadsci.org/nats/Conferences>

Early Registration, 2015 Conference Dates are Sept 24- Sept 26

SCIENCE RUNS THROUGH IT

Register on line at www.neacadsci.org/ Click on Events

Name	School	ESU
Home Address	School Address	
City	State	Zip
City	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 2014 and September 2015 please list _____

May we use pictures of you taken at Fall Conference in our newsletter, on our website or in publications to promote NATS? Yes No

We would like to forward you information about science opportunities, grants, conferences, camps via email unless you decline. No

CONFERENCE REGISTRATION (Postmarked or on line/email by September 4)

- \$125 Includes conference & NAS/NATS Memberships
- \$70 Saturday only conference & NAS/NATS Membership
- \$55 Pre-Service Teacher, Student, or Non-teaching spouse

LATE REGISTRATION (On-site or after September 4)

- \$150 Includes conference & NAS/NATS Memberships
- \$80 Saturday only conference & NAS/NATS Membership
- \$65 Pre-Service Teacher, Student or Non-teaching spouse

WORKSHOP REGISTRATION FOR THURSDAY, SEPTEMBER 24th 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!

Camp space is limited, so register early. Camp space is assigned on first come, first reserved basis.

LODGE: Bedding and towels provided.

CABINS: Bring your own bedding and towels.

Hotel arrangements by NATS are no longer an option; you must make your own payment and reservations for a hotel.

**Staying 2 nights? The BEST DEAL
INCLUDES ALL LODGING AND MEALS**

- Lodge \$135 (Bedding and Towels Included)
- Cabin \$ 115 (Bring Your Bedding And Towels)

- Thursday Night Lodge \$ 45
- Thursday Night Cabin \$ 30

**One-night LODGING ONLY
(CHECK THE LODGING YOU WILL NEED)**

- Friday Night Lodge \$ 45
- Friday Night Cabin \$ 30

MEALS ONLY (CHECK THE MEALS YOU WILL NEED)

- Thursday Steak Fry \$14.00
- Friday Dinner \$10.00

- Friday Breakfast \$7.00
- Saturday Breakfast \$7.00

- Friday Lunch \$8.00
- Saturday Lunch \$8.00

Complementary T-Shirts available on site: Small _____ Medium _____ Large _____ Extra Large _____ 2xl _____

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

For Lodging Assignment Purposes Only

- Female Male

Special accommodations required, handicapped, etc.

Specify _____

Registration Total	\$ _____	Organization to be Billed	_____
Lodging and Meals Total	\$ _____		_____
TOTAL	\$ _____	P.O. No. _____	Do you need a Receipt?
Amount Enclosed	\$ _____	Yes _____	No _____

CREDIT CARD PAYMENT Master Card Visa Discover

Card Number _____

3 Digit Security Code (on back of card) _____ Expiration Date ____/____

Name on card _____

Address of cardholder _____