

Nebraska Science News



Nebraska Academy of Sciences



Nebraska Association of Teachers of Science

Serving Scientists and Science Educators Across the State of Nebraska

Winter, 2013-2014

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FROM THE NAS PRESIDENTS' DESK

"What does the Nebraska Academy of Sciences (NAS) do?" I have heard this question several times over the last year as President of NAS. I feel many NAS members, scientists outside of NAS, and the general public, do not have a clear picture of the many benefits and opportunities that are available through NAS. So with this two part letter, I will try to impart to you what NAS can provide its members and what NAS does to fulfill its objectives to further the work of and to facilitate cooperation among scientists.

One specific NAS objective is to stimulate science education and to encourage young people to become involved in science. Two events that meet this objective are the NAS Annual Spring meeting and the Nebraska Junior Academy of Science (NJAS) competitions. If you were an undergraduate or graduate student in Nebraska, you probably remember the NAS spring meeting as one of your first professional presentation experiences. The Academy is known for providing students with a welcoming and friendly environment to present their research to peers and faculty from other institutions; in 2013 we had 436 registrants at the meeting! I know I look forward to offering this opportunity to the students with whom I work and seeing them stress out and succeed in their presentations!

Secondly, the Academy affords the opportunity to meet fellow scientists from other Nebraska institutions at this meeting, allowing for professional presentations, and professional development. So if you have not had the opportunity to attend our annual spring meeting (next one is April 11, 2014, Nebraska Wesleyan University) please do so!

NAS also works with NJAS to promote scientific interest in the youth of Nebraska. NJAS sponsors annual competitions for students in grades 7-12 to present their scientific research results before a team of judges. In 2013 we had 171 (46 students, 22 teachers, 68 parents, 35 judges) total attended the State NJAS Science Fair competition and awards reception. Winners of this competition receive awards at the Academy's annual awards reception. The top 10 senior high winners are eligible to attend the American Junior Academy of Sciences meeting which is held in conjunction with the American Association of Academies of Sciences (AAAS) Conference; this year's winners are all heading to Chicago, Feb 12-16, 2014. NAS and its affiliates coordinate and financially support each of these events, thus allowing them to be the successful.

Another objective of NAS is to foster the interaction of business, industry, government, education, and the academic scientific community. NAS provides you the opportunity to be a part of a group which recognizes exemplary Nebraska scientists and communicators of science. The Maiben Lecturer each year at the NAS spring meeting and the NATS fall meeting are excellent examples in fostering this type of interaction. Lecturers for education and industry make this an exemplary lecture series. NAS also recognizes the efforts of other individuals/organizations with the Friend of Science Award and administers several scholarships for students demonstrating outstanding potential and/or performance in the sciences. Items such as these acknowledge NAS's objective to disseminate scientific knowledge, and to recognize high achievements in attaining the Academy's objectives.

Along these lines, you may not know that NAS provides quick and timely peer reviewed publication through The Transactions of the Nebraska Academy of Sciences (TNAS), an electronic journal disseminated through the Digital Commons at UNL. The TNAS publishes peer-reviewed

results of original research by members of the Nebraska Academy of Sciences in good standing, letters commenting on material previously published in the TNAS, and reviews or historical perspectives on topics relevant to the objectives of the Academy. The TNAS especially welcomes submissions of manuscripts from members of the Academy that reflect original, previously unpublished research. These can be on any aspect of the basic or applied sciences or science education, or be related to the broader objectives of the mission of the Academy. The TNAS is indexed in Biological Abstracts, Cambridge Scientific Abstracts, Fish and Fisheries Worldwide, and EBSCO. It is freely accessible through Digital Commons at <http://digitalcommons.unl.edu/tnas/>, which is hosted by the University of Nebraska at Lincoln. Starting with Volume 33, the TNAS is no longer published in print form and is only published on-line at this site. This allows for timely, peer reviewed, cost effective on-line publication of accepted manuscripts. The editor of the TNAS is selected by the Executive Committee of the Nebraska Academy of Sciences. The current editor is Dr. Bruce A. Chase, Department of Biology, University of Nebraska at Omaha, 6001 Dodge Street, AH 114, Omaha, NE 68182; <mailto:bchase@unomaha.edu>; 402-554-2586.

As you can see NAS provides its members a great many opportunities! In the next quarterly letter I will outline more details regarding NAS commitment to science and member benefits with discussion on grants, the NE Environmental Trust, scholarships and fellowships, and the Science Olympiad. So in conclusion: Be excellent to each other, and... Science-on dudes!

David Peitz, NAS President
Wayne State College

NATS PRESIDENTS REPORT

If Johnny's teacher told you at parent-teacher conferences that he was doing great because he knew none of the answers but all of the questions, you more than likely would fall off your chair. Questions rather than answers? Seriously? Answers are the foundation of good grades, high test scores, a prestigious college. They make us right, measure what we know, add up to something. Not according to Stuart Firestein, chairman of the Biological Sciences Department at Columbia University. He argues that "ignorance is far more important to discovery than knowledge. The purpose of knowing a lot of stuff isn't to know a lot of stuff. It's to be able to frame thoughtful, interesting questions."

The above is the introduction to an article written by my friend, George Ayoub, for his column in the [Grand Island Independent](#). The piece goes on to say that Firestein worries that we are so infatuated with testing, that

education in general has turned head over heels for spitting out facts at the expense of asking good questions.

After reading this, it has caused me to do some heavy thinking about my own science teaching practices related to testing. (I would encourage each of you to read the column in its entirety.) <http://www.omaha.com/article/20131008/NEWS08/131008969/1677>

As I sat here wondering about what to write for this newsletter, I was asking myself lots of questions. "What should I say?" "Where do I start?" "What will our members want to read?" "Where can Nebraska science teachers go for help?" "How can we keep up to date and find the latest information on state and national science topics?" Let's begin right here with NATS.

Starting with this organization, NATS has a website with links to helpful information and important sites, statewide competitions, grants for teachers and many more professional resources. We have begun talking about making changes to our homepage to include more ways to inform and assist teachers. Have you "liked us" on Facebook? If not, please take a moment to do so, and while you are at it, post a comment that might provide support to our "followers".

Were you able to attend our fall conference? Nearly 400 teachers from across the state gathered in September for a wonderful professional development opportunity. From our keynote to our social, and our workshops to our sessions, the learning and networking was invaluable. We even included a new strand this year to begin bridging together the "Informal/Out of School Teaching" world with formal science education.

Next, did you notice the NSTA website has been undergoing some updates? The many professional learning opportunities are incredible! Not sure where to start? Try "Books and Resources" (<http://www.nsta.org/publications/#journals>). This one page alone has everything from links to professional journals, social networking, teacher freebies, and supply guides, to in-depth resources for special topics, (including everything from evolution and climate to new teachers and parents). Wow, and as I said before this is all on just one page of the NSTA site.

Finally, NGSS, need I say more? My district leaders have decided that we will be adopting NGSS. As the science team leader, I would be lost if I did not have NGSS @ NSTA. Besides the journal articles and recommended NGSS books, there are free webinars, short courses, and a blog that have become my "go to" source for my guide through this new territory. The fall conference had

several presentations with NGSS information and the regional and national conferences will be a warehouse of NGSS learning. But most importantly, as our district moves towards NGSS, we are charged with the challenge of continuing to promote mastery of the Nebraska Science Standards. The networking and connections that I have made through being active in the NATS organization will be critical for accomplishing this. I have people to turn to when I face the challenges and ask the questions.

In Ayoub's article, we read that Firestein does not refer to "ignorance" as the general meaning we equate with stupidity. His "ignorance" is the embracing of doubt from which insightful questions follow, that lead to more questions, and eventually awesome discoveries. What we don't know is critical. What I do know is that when I have questions, I can turn to this organization to help me with my discoveries. Have a great fall semester!

Katie Ramsey, NATS President

AJAS CONFERENCE UPDATE

The Nebraska Junior Academy of Sciences (NJAS) has ten student researchers attending the annual American Junior Academy of Sciences (AJAS) and National Association of Academies of Science (NAAS). The conference will take place in Chicago during the annual meeting of the American Association for the Advancement of Science (AAAS) in mid-February.

The ten student delegates are as follows:

- Selene Knobel from Beatrice, NE
- Brooke Pike from Newman Grove, NE
- Elena Thornhill from Omaha, NE
- Amanda Dale from Central City, NE
- Andrew Fanning from Hastings, NE
- Michael Roe from Columbus, NE
- Isaiah Friesen from Filley, NE
- Jake Kasik from Schuyler, NE
- Mackenzie James from Beatrice, NE
- Coleman Kneifl from Allen, NE

Conference attendees will have the opportunity to tour the Argonne Nat'l Laboratory, Brookfield Zoo – Chicago Zoological Society, Fermilab, Field Museum of Natural History, along with other tour sites. Other highlights include a "Breakfast with Scientists" and lectures by AAAS world class scientist.

The students have submitted their abstracts for a poster and for oral presentations. These abstracts will be published in the AAAS program. We are honored that these students will be representative of the talent in Nebraska.

Aurietha Hoelsing, NJAS President/State Director

NATS FALL CONFERENCE HIGHLIGHTS

Almost 400 attended the 53rd annual NATS Fall Conference. The keynote address Friday morning was presented by Victoria and Dennis Molfese, UNL Developmental Brain Lab, Child, Youth, and Family Studies. Their presentation was entitled, "The Brain's Role in Learning: A True Story with a Happy Ending!" They had some amazing insights on the importance of the quantity and quality of sleep especially for children.



2013 PAWS Recipients – Front Row: State winners Teresa Bender, Omaha Norris Middle School and Angela Bergman, Omaha Westside High School. Second Row: Honorable Mention to Mary Herrington, Culler Middle School/LPS and State winner Sean Putman, Lincoln High School/LPS. Each state winner received a \$500 honorarium from the Nebraska Academy of Sciences in recognition of their award.



30 Year PAEMST Reunion (PAWS)

The Fall Conference for NATS served as a great occasion for a 30 year reunion of the science recipients of Presidential Awards of Excellence in Math and Science Teaching. We had almost half of the 41 former winners in attendance. Enjoy the pictures and brief bios from many former winners here:

http://www.education.ne.gov/science/PAEMST/30yr_PAEMST.htm



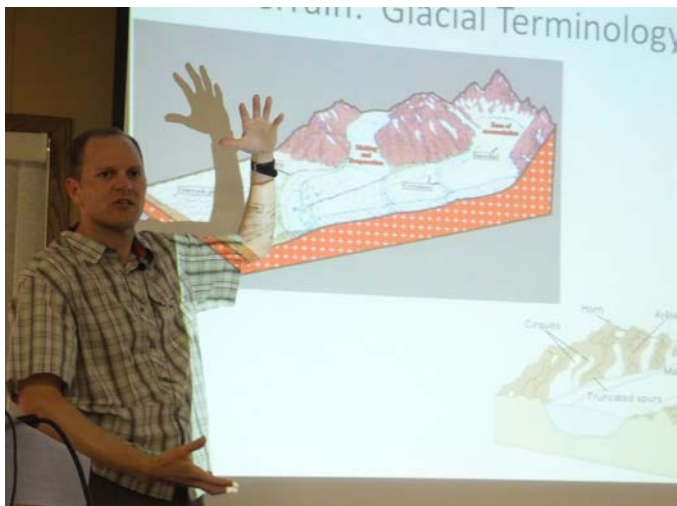
The Pinnacle Award was presented to Sally Harms by Gary Brown. Gary Brown has been a member and supporter of NATS for over 22 years. Sally is a Professor of Natural Sciences and Science Education at Wayne State College and NSTA District XI Director.



A new award was conceived this year to recognize exceptional leadership in Nebraska Education, "The Woodland Lifetime Achievement in Science Education Leadership Award" was presented for the first time this year to Jim Woodland. NAS, NATS, and NJAS have been honored to have Jim Woodland serve as our science advisor and we wish him all the best in his retirement.



Jim Woodland retired as the State Department of Education Science Director and James Blake has taken over as the new NDE Science Director.



The Friday afternoon Maiben Lecture was titled: "From Plains to Peaks: The art and science of climbing the world's tallest mountains." Norfolk Nebraska native Joseph Brus shared stories of his trek to the summit of Mt. Everest, as well as other expeditions, and of his work with the military as a science advisor. "I've been at Camp Pendleton, CA, since June 2011 (just over 2 years), as the Science Advisor for I Marine Expeditionary Force (I MEF) and Marine Corps Forces Central Command (MARCENT). In addition to the Everest summit in May 2011, I completed the "Seven Summits" (climbing the tallest peak on each of the 7 continents) in December 2012."



Catalyst Award recipient Jon Pedersen, University of Nebraska–Lincoln.

The NATS Board welcomes its new board members, Jodi Bahr, Harvard Jr/Sr High School and Shauna Roberson, Garden County Schools; Joe Myers, Norfolk High School who is the new President-Elect, and Stephanie Kurz, Cather Elementary, Millard Public Schools will be our new Treasurer. Joe will be planning next years' fall conference. The 2014 Fall Conference will be September 25-27th. Thank you to the NATS board, Presenters, Vendors and Camp Calvin Crest staff for your assistance in making the 2013 Fall Conference a success.

NAS TRANSACTIONS REPORT

Dr. Bruce Chase, Editor of the Transactions of the Nebraska Academy of Sciences would like to remind the Academy membership that all future Transactions articles are being published digitally on the University of Nebraska–Lincoln Digital Commons. Papers will be submitted for review digitally and as the articles are reviewed and approved they will be published on the Digital Commons as well. In order to submit articles or read Transactions articles please use the link below.
<http://digitalcommons.unl.edu/tnas/>

The NAS Executive Committee would like to encourage all types of submissions, not just full research papers in the basic sciences. In the past, teaching, philosophy, history, chemistry, etc. were also represented in the publications. This is an excellent forum for the publication of



Catalyst Award recipient Tyler Berzina, Millard West High Schools receives his plaque from Sheree Person-Pandil.

undergraduate research, master's theses, as well as all types of historical research or pedagogical research focusing on Nebraska. The peer review process adds real value to what we publish, and the more variety of publications TNAS has, the more impact it will have now and in the future.

2013 PUBLIC INFORMATION AND EDUCATION GRANT REPORT

The Nebraska Academy of Sciences (NAS) received nine applications for the second quarter 2013 PIE minigrant program. Applications were received from King Science and Technology Center, Introduction to Zoology; Five Rivers Resource, Conservation and Development, Weed Pocket ID Guide; Southeast Flagship Initiative-Northern Prairies Land Trust, Restoration of Nebraska's Oak Woodlands; Conestoga High School, Switching to Sustainable; Nebraska Alliance for Conservation and Environment Education, Nebraska Environmental Literacy Youth Assessment; Pheasants Forever, Train the Trainer Prescribed Fire Program; University of Nebraska-Lincoln, NaturePalooza; Nebraska Game and Parks Commission, Sensory Safari: Inclusive Science Education for all Learners; and Northeast Nebraska Juvenile Services, INC., Garden Project.

Four grants were awarded to: Five Rivers Resource, Conservation and Development, Weed Pocket ID Guide; Conestoga High School, Switching to Sustainable; Pheasants Forever, Train the Trainer Prescribed Fire Program; and the University of Nebraska-Lincoln, NaturePalooza.

Two PIE mini-grant applications were submitted for the third quarter. The Prescribed Burn Task Force submitted an application to "Deliver Effective Prescribed Burning Education in Central Nebraska; and WasteCap Nebraska submitted an application to help fund their 2013 Sustainability Summit. Both grant applications were approved.

Eight fourth quarter applications were received and recipients will be announced in December 2014. Applicants were Nebraska Farmers Union, Vermi-Composting Education; Groundwater Foundation, Groundwater Restoration Through Education; Nebraska State Fair, Recycle Informational Signage; Middle Niobrara Natural Resources District, Monitoring Nitrate Levels in Groundwater; Craft LifeStyle Management, The Cultivating Leaders and Mentors Farm Going Green Collaboration Project; Creighton University Energy Technology Program, Omaha Youth's Path to Passive Solar; Rainwater Basin Joint Venture, Rainwater Basin Joint Venture Informational

Seminar; and the Big Game Conservation Association, Lake Wanahoo Wildlife Habitat Enhancement.

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 \$191 million in grants to over 1,400 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/>

First quarter 2014 applications are due January 10th, 2014. Grant forms and information can be found on our website, www.neacadsci.org. Click on NAS and then click on Grants and Scholarships.



RENEW YOUR MEMBERSHIP FOR 2014

Email membership renewal reminders are being sent as memberships come due. If you believe you have received a reminder when your dues are already paid up please call Cecelia at 402-472-2644. As of last summer NAS has migrated the membership renewals, newsletters, grant reports, etc. to the new website. Some emails are sent out automatically and if there is an error in the database I won't know unless you call me. You can still renew membership and register for meetings by mail if you wish. Just download the membership form from the website or electronic newsletter and mail it in with your check. www.neacadsci.org

SCHOLARSHIP DUE DATES APPROACHING

The Nebraska Academy of Sciences offers five scholarships for high school seniors in amounts of \$100 to \$1000. There are two scholarships for college sophomores or juniors. The collegiate scholarships are \$3000, paid in two installments, \$1500 at the beginning of the fall semester following the award and \$1500 for the spring semester. The collegiate application deadline is February 1st, 2014 and the high school application deadline is March 1, 2014. Please check the website for application forms and requirements.

2014 NJAS STATE SCIENCE COMPETITION

Now is the time to prepare for the NJAS regional and state competitions. The state competition will be at Nebraska Wesleyan University in Lincoln, NE on Friday, April 11, 2014. Information on the regional fairs can be found at the URL below.

<http://nebraskaacademyofsciences.wildapricot.org/NJAS>

It is important that as science educators we encourage students to persevere in their scientific interest. The objectives should be to help students enhance their science communication skills and to better understand how to prepare for science careers in a global workforce.

124TH NAS ANNUAL MEETING APRIL 11, 2014

Reserve the date now for the next Nebraska Academy of Sciences annual meeting. This will be the 134th anniversary year of the Academy; it is hard to believe we have only missed holding an annual meeting 10 times in 134 years.

Our representatives at colleges and universities all over the state have received information about presenter registration and we encourage you to register early. Fees have only increased modestly; the due date for your abstract and registration forms is February 7th. Please submit your abstracts on time. Since our meeting is two weeks earlier this year the time between submission and finalizing the Proceedings is compressed.

If you have any questions about forms, fees, schedules etc. please contact Cecelia Dorn at 402-472-2644 or email to nebacad@unl.edu. If you have specific questions about your presentation section, please contact your section

chair. The Call for Papers, Program/Section chair contact list, and abstract instructions and registration forms are all included in this issue. Information can also be downloaded from the website.

<http://nebraskaacademyofsciences.wildapricot.org/Information>



THE DORDT COLLEGE IDEAS ACADEMIC CAMP

June 16 – 20, 2014

IDEAS is a five-day college-level exploration in mathematics and science for high school students who will be juniors or seniors in the fall of 2014. Participants should possess a strong interest and aptitude in mathematics or science and should have the desire and ability to work hard and play hard with a like-minded peer group.

Camps will be offered in the following five areas: agriculture, bio-medical sciences/environmental studies, chemistry, computer science, mathematics/statistics/actuarial science, and physics.

Students will get the opportunity to dive into their field of interest, learn about careers in their field of interest and participate in hands-on research.

Please visit our website at www.dordt.edu/ideas for complete information. We invite you to encourage your students to take advantage of this unique learning experience.

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: David Peitz
NATS President: Katie Ramsey
NJAS President: Aurietha Hoelsing
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.



THE NEBRASKA ACADEMY OF SCIENCES, INC.
(Founded January 30, 1880)
123rd ANNUAL MEETING TO BE HELD
at
NEBRASKA WESLEYAN UNIVERSITY
50TH and ST. PAUL, LINCOLN, NEBRASKA

FRIDAY, APRIL 11th, 2014

"Call for Papers"

**ABSTRACTS, FORM, AND FEES ARE DUE TO SECTION CHAIRPERSONS
FEBRUARY 7, 2014**

INDIVIDUALS ARE INVITED TO SUBMIT AN ABSTRACT OF ORIGINAL RESEARCH OR SYNTHESIS OF PRIMARY RESEARCH/LITERATURE FOR CONSIDERATION BY ONE OF THE SECTIONS FOR INCLUSION IN THE PROGRAM OF THE ANNUAL MEETING OF THE NEBRASKA ACADEMY OF SCIENCES. YOU WILL RECEIVE EMAIL NOTIFICATION OF YOUR ABSTRACT'S STATUS.

Annual Meeting Presenters may also want to consider submitting their complete research articles for review and possible publication in the Transactions of the Nebraska Academy of Sciences. Papers from all sections are eligible. Contact the Academy office for publication information.

SECTION CHAIRPERSONS FORWARD ALL DOCUMENTS TO THE ACADEMY, nebacad@unl.edu BY FEBRUARY 21st. A HARD COPY OF THE ABSTRACT MUST BE INCLUDED WITH THE REGISTRATION FORM. FORMATTING INSTRUCTIONS ARE AVAILABLE ONLINE AT <http://www.neacadsci.org>,

Click on NAS, then Information

OR FROM:

THE NEBRASKA ACADEMY OF SCIENCES
302 MORRILL HALL, 14TH AND 'U' STREETS,
LINCOLN, NE 68588-0339
TELEPHONE (402) 472-2644

1. EACH ABSTRACT MUST BE ACCOMPANIED BY A \$65.00 REGISTRATION FEE (\$15.00 FOR STUDENTS—COPY OF VALID STUDENT ID MUST BE ENCLOSED) FOR THE PERSON PRESENTING THE PAPER. PLEASE COMPLETE CONTACT INFORMATION ON THE REGISTRATION FORM ACCURATELY AND LEGIBLY. FORM IS AVAILABLE ON OUR WEBSITE: <http://www.neacadsci.org>
Click on NAS, then Click on Information

2. MAKE CHECKS PAYABLE TO THE NEBRASKA ACADEMY OF SCIENCES.

3. AUTHORS SUBMITTING MORE THAN ONE ABSTRACT SHOULD PAY ONLY ONCE.



2013-2014 NEBRASKA ACADEMY OF SCIENCES PROGRAM COMMITTEE

Area code 402

Section	Chairperson	Address	unless listed
Program Chairman & Proceedings Editor	Jim Carr	NAS, 302 Morrill Hall, Lincoln, NE 68588-0339 nebacad@unl.edu	472-2644 O
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NAS ANNUAL MEETING, APRIL 11, 2014
NEBRASKA ACADEMY OF SCIENCES ABSTRACT INSTRUCTIONS
ABSTRACTS DUE FEBRUARY 7, 2014 TO YOUR SECTION CHAIR

Email or MAIL TO YOUR SECTION CHAIRPERSON

1. *YOUR ABSTRACT, INCLUDE 1 HARD COPY OR WORD AND PDF ELECTRONIC FILES (so editor can proof scientific notation)*
2. *COMPLETED PRESENTERS REGISTRATION FORM &FEE*

GENERAL INSTRUCTIONS

DEADLINES: ABSTRACTS, REGISTRATION FORM AND FEES must be received by the Section Chairperson(s) on or before **FEBRUARY 7, 2014.**

Late submissions may not appear in the printed program.

PREPARING THE ABSTRACT: Abstracts should be informative condensations of the essential parts of the paper; not merely recitation of the subjects to be covered in the presentation. *Since the abstracts receive international distribution by our utilization of abstracting services and a journal exchange program, please proofread your work carefully.*

Please use Times New Roman, 12 pt. Type single-spaced. Margins should be Top 0.5", Bottom 0.5", Left 1.0", and Right 0.5".

Type the TITLE in CAPITAL LETTERS. Type Name, Department, Institution, City and Address on the line immediately below the Title, indenting 5 spaces (one tab). Leave exactly one line between this material and the BODY of the Abstract. (See sample below.)

CHARACTERIZATION OF THE SITE OF NORA VIRUS REPLICATION IN *DROSOPHILA*
MELANOGASTER

Justin Buchanan, Brad Ericson, Darby Carlson, and Kimberly Carlson, Department of Biology,
University of Nebraska at Kearney, NE 68849

Nora virus is a picorna-like virus that infects *Drosophila melanogaster*, but displays no apparent
pathogenicity. The mode of

Please save your abstract in Microsoft Word and submit it (by email, CD or jump drive), together, with one hard copy of the abstract (or a PDF file), registration form and fee **TO YOUR SECTION CHAIRPERSON.**

PLEASE PROOFREAD YOUR WORK!!

PLEASE NOTE: Each abstract is to be accompanied by a completed registration form and \$70.00 registration fee for the PRIMARY PRESENTER; (includes membership). If there are multiple authors, registration fees are required for only those who attend the Annual Meeting. If the presenter is a student who encloses a copy of his/her current I.D. with the registration, the fee is \$15.00. (If an individual is presenting more than one paper, only one registration form and fee is required.)

PRESENTER'S
REGISTRATION/SECTION FORM
NEBRASKA ACADEMY OF SCIENCES
DUE FEBRUARY 7, 2014 TO SECTION CHAIR
SEND REGISTRATION FORM, PAYMENT AND ABSTRACT TO YOUR SECTION CHAIRPERSON.
REGISTRATION IS REQUIRED OF ALL WHO PRESENT PAPERS OR ATTEND/CHAIR ANY SESSION

REGISTRATION Please print or write legibly

Name _____

Mailing Address _____

Institution _____

E-mail address: _____

Phone Number: _____

Speaker: _____

Time Required: 5-10 min. _____ 10-15 min. _____ 15-20 min. _____

Section in which paper is to be presented (Check one)

___ AERONAUTICS & SPACE SCIENCE – nasa.nebraska@uno.edu

___ ANTHROPOLOGY – mattdouglass@hotmail.com

___ APPLIED SCIENCE & TECHNOLOGY – maettel1@wsc.edu

___ BIOLOGICAL & MEDICAL SCIENCES –

annemarieshibata@creighton.edu

CHEMISTRY & PHYSICS

___ CHEMISTRY SECTION – hzhong@mail.unomaha.edu

___ PHYSICS SECTION – addavis1@wsc.edu

MEMBERSHIP

Student \$10.00 _____
 (with copy of student ID)

REGISTRATION

General & Presenter Registration \$70.00 _____
 (dues included)

Student Presenter Registration \$15.00 _____

Lunch \$ 7.75 _____

Check _____ Cash _____ Credit Card: Visa _____ MC _____ Discover _____

Credit Card Name _____

Credit Card Number _____ 3 digit code _____

Credit Card Address _____ EXP Date _____

TOTAL REGISTRATION + MEMBERSHIP \$ _____

___ EARTH SCIENCE – mleite@csc.edu

___ HISTORY & PHILOSOPHY OF SCIENCE – nebacad@unl.edu

___ TEACHING OF SCIENCE & MATHEMATICS – josef.kren@bryanlgh.org

COLLEGIATE ACADEMY

___ BIOLOGY SECTION – tmcginn@nebrwesleyan.edu

___ CHEMISTRY/PHYSICS SECTION – dat@nebrwesleyan.edu

NE CHPT NATL COUNCIL FOR GEOGRAPHIC EDUCATION -

jarcher1@unl.edu

Plan your AUDIO VISUAL NEEDS carefully and indicate the LENGTH OF TIME REQUIRED for your presentation by circling the appropriate item above. The allotted time is at the discretion of the Section Chairperson, and if a special time slot is needed, be sure to indicate your needs. This is essential for accurate scheduling.

Equipment Provided: PP equipment. Other equipment: Confer w/ your section chair, any special set-up must be completed before the session begins, no additional time between speakers is allotted for set-up.

Questions ??? Contact:
 Nebraska Academy of Sciences
 P.O. Box 880339
 Lincoln, NE 68588-0339
 (402) 472-2644 voice email: nebacad@unl.edu
 (402) 472-8899 fax