



Volume 12.1

Winter 2001

### **Money Watch – Where is Science Funding Going?**

President's Message – Judi Heitz

I don't know how many of you receive the legislative updates from NSTA, the latest bore news both good and bad. The bad news is, that as things now stand in our legislature, that Eisenhower funds as we know it are going away. The good thing is there will still be money set aside for Math and Science teacher training and professional development. The bad news is that money will be available only through Math and Science partnerships, which will be awarded via competitive grants.

What entity will award the grants depends upon the money appropriated, but whether they are awarded by the national Secretary of Education or by State Education Agencies, we will need to compete for federal dollars that we now share as Eisenhower money.

The grants would be awarded for three years. Allowable activities under the Math and Science Partnerships program include:

- Developing curriculum aligned with standards
- Creating professional development opportunities for teachers
- Promoting strong teaching skills, including the integration of sound research-based teaching methods into the curriculum
- Establishing and operating math and science summer workshops or institutions that include follow up training.
- Recruiting math, engineering, and science majors to teaching through the use of signing and incentive bonuses, stipends for certification through alternative routes, and scholarships for teachers to pursue advanced course work.
- Developing and providing distance learning programs
- Establishing mentoring programs
- Developing programs that bring scientists, engineers, and mathematicians together with teachers
- Creating programs to identify and develop exemplary math and science teachers in K-8 classrooms.
- Developing programs to encourage young women and other underrepresented individuals to pursue careers in science, math, and technology.

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**SDSEA Board Positions 2001 -2002****Executive Board**

President	Judi Heitz
Vice President	Virginia Madigan
Secretary	Penny Wilson
Treasurer	Kathy Hepler
Past-President	Steve Mull

**Content Area Representatives**

Biology	Barton Hays
Biotechnology	
Chemistry	Paul Loozen
Earth Science	Debbie Brice
Oceanography	
Physics	Martin Teachworth
Technology	Tanya MacMartin

**Grade Level Representatives**

Elementary K-2	Holly Schneidewind
Elementary 3-5	Cris Ferguson
MS/JH	Virginia Madigan
Senior High	Jerry Case
College/University	Penny Wilson

**Informal Ed. Representatives**

Museums	Carol Radford
Reuben H. Fleet	Lynne Kennedy
San Diego Zoo	Victoria Garrison
Sea World	Mile Brosas

**Student Organizations**

Elementary Science Field Day	Steve Mull
Inventors Showcase	JoAnne Schaper
Science Fair	Steve Rodecker
Science Olympiad	Martin Teachworth
Sand Castle	Martin Teachworth

**Other Representative Positions**

Industrial Relations	Pat Winter
Newsletter	Martin Teachworth
Pre-Service Teachers	
Member-at-Large	Fran Sloweicek
Member-at-Large	Joyce Hackworth
Member-at-Large	Garry Rollins
Member-at-Large	Cris Ferguson
Member-at-Large	Chuck Abel
Member-at-Large	Bob Van Zant

**Non-Representational Positions**

Advisor - SDCOE	Nancy Taylor
Advisor - SDCS	
Liaison - CSTA	Bonnie Styles
Liaison - NSTA	Willa Ramsey
Newsletter Production Assistant	Bette Teachworth

**NSTA National Convention**

The National Science Teacher Association 2002 National Convention will be held in San Diego. SDSEA members will receive a discount when registering for this conference. Stay tuned for more details. The annual SDSEA Conference will not be held as the convention organizers will be helping organize the national convention. Be sure when you register to attend the NSTA Convention to mark that YOU are a member of SDSEA. Part of the conference fees will go to your local science teachers' organization to help continue to bring educational and useful workshops, in-services and science competitions to the San Diego community.

**SDSEA Membership**

If you did not register for the SDSEA Conference in March this may be the last newsletter you receive. Be sure to renew your membership with the application in the back of this newsletter.

**SDSEA Discount**

Be sure to read the information about the ordering discount available to SDSEA members from Fisher Scientific.

**Free Student Membership**

All student teachers are entitled to *Free* membership to SDSEA. The names and addresses must be supplied in list form by student teacher supervisors from the school of Education (i.e. National, SDSU, USIU, Christian Heritage, Point Loma, UCSD).

**New Members**

Membership in SDSEA runs from March to March. However, membership can be acquired at ANY time during the year. Use the membership application in the back of the newsletter to join SDSEA.

**Contact a Board Member**

Need to contact a board member to leave a message, get help, or make suggestions?

Call (619) 491 - 2368

**President’s Message (continued from page 1)**

Before eligible partners can apply for a Math/Science Partnership competitive grant, they must first complete an assessment of the teacher quality and professional development needs of partnership participants. Partnerships must also develop an evaluation and accountability plan that will measure the impact of the proposed activities.

Who can apply for these grants? Primary partners for the Math and Science Partnerships include the State Education Agencies; the math, science, or engineering department of higher education; and a high need Local Education Agency (LEA). Partners that may be included are another engineering, science, math or teacher training department from higher education; additional LEAs, charter schools, public or private schools, or a consortium of such schools; a business; and nonprofit and for-profit groups of demonstrated effectiveness.

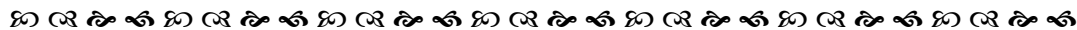
Are these partnerships a good thing? I think they can be – I believe the interaction between K-12 educators, community college, and four-year college educators can along bring about relationships that will enrich us as educators and open up new possibilities for our students.

What does this all mean? It means with within a year we will be competing with each other for money and our schools and districts will need to be working more closely with institutions of higher learning. We need to start developing these relationships now. Nancy Taylor, our San Diego County Science Resource Teacher will help match K-12 schools with college partners. Teachers need to talk with their administrators and resource teachers now and begin to set up the relationships we will need to successfully compete for the Math and Science Partnerships. Science education is not a high priority in many districts. Unless science educators push, applications for the Math and Science Partnerships will not be written. We will be competing with educators across the state. We need to start working now to get the money we need in the next few years.

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*SDSEA wants to support out members.*

*Please let me know if you would like SDSEA provide grant writing classes or other types of professional development.*



SDSEA members will soon be receiving a postcard that shows their membership number. This membership number will allow members to register for the NSTA conference and receive the \$60 members discount and to receive the \$10 discount on the SDSEA breakfast banquet. Early bird discount is due in January.



**NSTA Updated Website**

Kathy Hepler

Science and Children Advisory Board

In September NSTA revealed an updated website that includes more science and education news and more interactive features, such as discussion boards. A few teachers are asking questions on the elementary level, but not many teachers are posting answers. We really want the elementary site to be a forum for communication about elementary science issues. Are there any issues/threads that you notice in your environments that you would like to post? Your comments/discussions may be the catalyst that gets the elementary website rolling. The website address is <<http://www.nsta.org/elementary>. Scroll down to the section titled, "Teacher Interaction" and you will find the discussion board. This website will only be a success if elementary teachers participate. Check it out.



**Federal Resources for Educational Excellence**

Several new resources for science have been added to the Federal Resources for Educational Excellence (FREE) website at [www.ed.gov/free](http://www.ed.gov/free). FREE makes it easy for teachers, parents, students, and others to find teaching and learning resources from more than 40 federal organizations.

### Junior Science & Humanities Symposium

The Junior Science & Humanities Symposium (JSHS) invites all students who will be in 9th through 12th grade during the 2001-2002 school year to submit applications for the 2002 Southern California Regional program.

The Junior Science & Humanities Symposium provides an opportunity for talented students to conduct significant scientific research and present their findings in a professional arena. Students present results of their original science research projects in the form of a research paper and a formal presentation in a judged competition.

First place winners in the 2001 Regional competition received a \$4,000 college scholarship and an opportunity to compete for up to \$16,000 in additional college scholarships at the National JSHS. In addition, 1st through 5th place recipients in the Regional program received all expense paid trips to attend the National JSHS.

The JSHS is open to all 9th through 12th grade students in the 2001-2002 academic year who conduct an original research project and are a citizen or permanent resident of the United States. The project must be conducted by an individual and sponsored by the student's teacher; no group projects are accepted. The National program is sponsored by the United States Military and administered by the Academy of Applied Science.

The organizing committee for the Southern California Regional Junior Science & Humanities Symposium will send announcements about the 2002 program to all high schools in September 2001. Please check the resources listed below during the summer for updates on next year's events.

#### Southern California JSHS Counties

Imperial, Kern, Los Angeles, Orange, Riverside, San Bernardino, San Diego,  
San Luis Obispo, Santa Barbara, Ventura

#### Symposium Dates

March 22 - 23, 2002

University of California, Irvine

[www.cfep.uci.edu/jshs](http://www.cfep.uci.edu/jshs)

Note: The 2001 SCJSHS was very successful. The first place winner, Francis Song from La Jolla High School, received first place in Mathematics at the National JSHS last April and received a total of \$20,000 in scholarships from the sponsors.



### Greater San Diego Science and Engineering Fair Newsletter

The September issue of NewsNote, the newsletter of the Greater San Diego Science and Engineering Fair is now online. You may use the following link to view it: <http://www.gsdsef.org/NewsNote/newsnote.shtml>



#### SDSA Teacher Hotline

Would you like access to scientists who can answer questions, provide information about new discoveries and new areas of science, and enthuse students about scientific professions.

In San Diego County, we are fortunate to have a wealth of people resources from science-related businesses, institutions of research and higher education, museums, health networks, and scientific professional societies.

The Teachers' Hotline is a tool that can lead you to an appropriate scientist who lives and works in San Diego County, and who is eager to share scientific knowledge

HOW DO I ASK A QUESTION?

IT'S A SIMPLE PROCEDURE. ALL YOU NEED IS ACCESS TO THE INTERNET.

Go to the Science Alliance home page ([www.sdsa.org](http://www.sdsa.org)).

Click on the blue Ask A Scientist window, and then on ASK A QUESTION.

## EXPANDING YOUR HORIZONS CONFERENCE COMES TO SAN DIEGO

San Diego's long awaited opportunity to host an Expanding Your Horizons in Science and Mathematics conference for 6-12<sup>th</sup> grade girls will come to fruition on October 12, 2002 and will be hosted at the University of California, San Diego. Like the other Expanding Your Horizons (EYH) conferences happening across the nation this year, the EYH conference in San Diego will continue a twenty-five year commitment of nurturing girls' interests in math and science courses and encouraging them to explore and consider math and science based careers. The goal is to increase the participation of underserved populations in the math and sciences by conducting extensive outreach to girls of all backgrounds and by giving them an opportunity to network with women in math and science based professions.

The EYH conference at UC San Diego has received the generous support of federal and several local public and private sponsors. A planning committee composed of women representing a variety of local educational and professional associations is organizing the conference. The EYH conference will be an all day event with 600 girls and 200 parents anticipated to be in attendance. A keynote address will be given and girls will attend hands-on workshops on various aspects of excelling in the math and sciences to career options. Parents will be attending a separate program designed to facilitate their support of their daughters' academic excellence, pursuance of higher education, and career aspirations. Registration for this event will open beginning in April or May. For more information about the exciting EYH conference to be held at UC San Diego on October 12, 2002, please visit the website for this event at: [www.sdsa.org/EYH](http://www.sdsa.org/EYH).



### The San Diego Natural History Museum (SDNHM) presents:

Dinosaurs for Teachers

Lecture with Michael Brett-Surman, Ph.D.

Dr. Brett-Surman of the Smithsonian Institution will describe the valuable contribution dinosaurs can make to science and education, and in overcoming "science phobia." Uncover the best and worst sources of dinosaur information, and common misconceptions.

Saturday, February 23, 2002; 10 a.m.–noon

Prices: \$5-7

Held in the San Diego Natural History Museum's Chairman and Maurice Kaplan Theater. Call (619) 232-3821 ext. 203 for reservations.

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### Biological Control A Guide to Natural Enemies in North America

this is a great site that your biology people should enjoy....

<http://www.nysaes.cornell.edu/ent/biocontrol/>



### Help Fight The Fight Against Breast Cancer!

Let this be your good deed for today... it only takes a second. Go to the site below. Click the button and a free mammogram is donated to someone at no cost to you. It is paid for by corporate sponsors (who gain advertising in the process because you see their logo). All you do is go to the site and click on the "donate" button. It takes just a few seconds. However, you're only allowed one donation, so please pass this on: <http://www.thebreastcancersite.com>.

This is a great cause in the fight against breast cancer!

## ***SEE NSTA CONFERENCE REGISTRATION FORM ON PAGE 18!***

### **NSTA'S GOLDEN ANNIVERSARY**

#### **To Be Held in the GOLDEN STATE**

John W. Fedors Local Publicity Chr. For NSTA 2002 Phone 858-679-4655

Come on UP, OVER, OR DOWN, whichever, but arrive for the 50<sup>th</sup> NSTA Annual Convention. The previous 49 are history. You may have attended any number of the past annual conventions, however if this is your FIRST, you have selected a GREAT one.

The local committee has spent productive hours in arranging:

- Unique local science tours.
- Numerous sessions to fulfill a variety of science discipline standards.
- Exciting and fun Hands-on workshop.
- A great selection of featured speakers.
- Hospitality like no other convention participants have had presented.

**WE EVEN HAVE NATURE ON OUR SIDE, PROVIDING THE MOST IDEAL WEATHER AVAILABLE. PRE-REGISTRATION is REQUIRED FOR RIBBON CUTTING SPECIAL DRAWINGS**

- 2 round trip tickets to anywhere Southwest Flies.
- Day passes for family of 4 at Sea World
- Day Passes for family of 4 at Legoland
- Day passes for family of 4 at World Famous SD Zoo.
- Day passes for family of 4 at the SD Wild Animal Park
- Passes for family of 4 at Reuben R. Fleet Science Center and Imax Theater
- Passes for family of 4 at SD Museum of Natural History
- Passes for family of 4 at SD Museum of Man.
- Dinners for 2 at local restaurants

### **Special Opportunities**

The advent of the NSTA National Convention in San Diego, March 27 - 30, 2002, is being eagerly awaited by many. Quite a few of us have attended these national conventions across the country and know that one of the special treats offered are the social events that take place in the evenings of the convention. These events offer a unique sampling of the host city.

The Local Arrangements committee is offering two such evenings for San Diego's first NSTA National Convention. On Wednesday, March 27, **SeaWorld San Diego** will be offering a special evening of shows at special prices for NSTA participants.

On Thursday, March 28, San Diego also has the unique opportunity to showcase the science institutes of Balboa Park. Planned as an evening social function **Science Educators' Night in Balboa Park**. This ticketed event will offer an opportunity for science teachers and their families to come and spend the evening learning from expert science demonstrations while partaking in a delicious taste of fabulous area restaurants of the Cohn Restaurant Group in four of San Diego's very innovative educational museums. This will be an event that will linger in people's minds for years to come.

Ticket holders will follow an itinerary that will rotate them through all four museums between 7:00 p.m. and 11:00 p.m. The **San Diego Aerospace Museum, Reuben H. Fleet Science Center, San Diego Museum of Man, San Diego Natural History Museum** will be offering science information and educational ideas that you can use in your classroom on Monday.

Please make plans to attend and bring your family to one or both of the social evenings planned during the NSTA 2002 National Convention in San Diego.



### **Snorkel In Belize For Credit Again Next Summer**

The course, Caribbean Coastal Oceanography, will be offered through the SDSU Open University. The estimated cost will be about \$2,000 and will include airfare, room, board, boat costs and university credit. For further information go to

<http://edweb.sdsu.edu/STE/caribbeancoastaloceanography.htm>  
or [ingmanso@mail.sdsu.edu](mailto:ingmanso@mail.sdsu.edu)



### Teacher Exchange An Extraordinary Cultural Exchange Opportunity for San Diego



Science Teachers, it's not too early to plan for March 2002. As you may already know, the NSTA National Convention will be held in our beautiful city from Wednesday, March 27 - Saturday, March 30, 2002. There will be approximately 16,000 science teachers in attendance and a great opportunity to network with others in your profession. The San Diego Science Teachers Association is particularly well positioned geographically to take advantage of this conference, so we hope you're all going. **BUT THERE'S MORE!**

This year, San Diego science teachers will be invited to open their homes to colleagues from overseas with similar interests and attend conference with their guests. This will cut down on costs for visiting teachers, while providing us locals the opportunity to reach out across the globe to another class in another land. What better way to tie the world together?

**HELP!** We need teachers in San Diego who want to host teachers from overseas while they are here attending the NSTA Convention in March. Our list of requests is beginning to grow and we are concerned about not being able to fill them. If you, or a teacher you know, would like to host an overseas teacher, March 26 - 31, please send an email to [nstasandiegohousing@yahoo.com](mailto:nstasandiegohousing@yahoo.com) or [Lynda@Sing-Smart.com](mailto:Lynda@Sing-Smart.com).

In exchange for accommodation during the National Convention, each hosted teacher, if possible, will spend one day teaching in the hosting teacher's classroom, having prepared a special and appropriate science lesson just for the occasion. After this, teachers and students may choose to stay in contact with each other, exchanging ideas and information through email and over the internet.

This unique opportunity will bring increased cultural richness and awareness to both hosting and visiting teachers, as well as to our students. To be part of this great vision for San Diego, it is necessary to act quickly and plan ahead. Each hosting teacher must expect to attend the National Convention, so that it will be easy for our visitors to attend as well.

Our goal is to match 100 foreign visitors with hosting teachers. If you like this idea and want to get involved, please send an email of interest to [Lynda@Sing-Smart.com](mailto:Lynda@Sing-Smart.com), call 760-639-3943 or send your name and contact information

U.S. Mail: Teacher Hosting  
P.O. Box 3531

e-mail: [nstasandiegohousing@yahoo.com](mailto:nstasandiegohousing@yahoo.com)  
760-639-3943  
Vista, CA 92085-3531

### New Teacher Focus Group

The last New Teacher Focus Group was supposed to meet on **Saturday December 1**. An apology is extended to anyone who showed up and found no one there. An email announcing the cancellation was sent out, but some people may not have received the message. The meeting was cancelled due to a conflict between the meeting and the organizer, Martin Teachworth, having to take a SDAIE test.

The next meeting of the New Teacher Focus Group is scheduled for **Saturday February 2** at La Jolla High School. Veteran and new teachers will share lessons and demonstrations. The meeting will start at 9:00 a.m. and end about noon. Come or encourage other teachers to come and learn demonstrations, labs and teaching techniques to help make teaching easier and more fun. This is a grassroots effort to improve science teaching and make the lives of science teachers easier.



### Nutrition Curricula

There is a K-6 Gardening/Nutrition curriculum called TWIGS. It's complete with 30 lessons linking gardening with nutrition and a teacher's manual and poster. Also, we have a high school nutrition curriculum called Jump Start. It includes lessons on fast food, eating healthy, and reading food labels. Another fun curriculum we have available is Kitchen Science, which is available for 1-6th grade. It includes 5 "discoveries" (or experiments) which introduce children to a range of physical and chemical properties of food while keeping the focus on science exploration. The entire curriculum is available through the University of California Cooperative Extension Family Nutrition Program. They can contact me Stella Taylor at (858) 694-2122 or e-mail me at [stetay@ucdavis.edu](mailto:stetay@ucdavis.edu).



**INVENTORS SHOWCASE 2002****JoAnne Schaper**

“All things come to those who wait provided they hustle while they wait.” Thomas Edison

What good is invention in the learning process? Why do we encourage students to solve problems? Could it be that the process leads to thinking, reading, writing, creating, math, art, scientific discovery, understanding our environment, gaining confidence and building self esteem in yourself and others, improving the quality of life and making intelligent decisions about how we live? How about ALL of the above!

‘It was the night of October 21, 1931, and all across the United States the lights were being switched off for two minutes to mark the death of Thomas Edison. Few mortal men had influenced life on earth more positively than Edison. In one lifetime, this prolific inventor had been granted 1,093 patents, one patent for every 10 to 12 days of his adult life. Edison had invented more than 1,093 patented objects. He simply gave away his medical inventions in hopes they would be put into practice far and wide.

Today we can’t turn on an electrical appliance, launch a rocket into space, listen to a recording or see a movie without owing something to Thomas Edison. He had made 1,000 short films before the first film was ever shot in Hollywood. Best known for inventing the light bulb, Edison had to patent more than 300 other inventions before he could install electricity in the Lower East Side of New York City. Before he could put the light bulb to practical use, he had to invent electrical wiring, meters, switches and so on. The birth of a new idea might come slowly, but growing up is fast. Even Alexander Graham Bell couldn’t put his telephone to work because the signal was too weak. Edison invented the carbon transmitter, which finally allowed communities to enjoy the miracle of electronic communications.

Virtually everything worth having in life comes with problems attached. Your progress and personal growth will never come without the need to resolve problems along the way.’ (“Seize the Day” by Cox/Hoover)

The 16th Annual Inventors Showcase information, sponsored by Lloyd Pest Control and the SDSEA, was mailed to all San Diego County school sites, public and private, from grades Kindergarten - High School in mid-December. Or the information may be downloaded on your computer through: <http://www.teachworth.net> or <http://ljs.sdcs.k12.ca.us/departments/science>. The Registration form may be duplicated as needed.

Registration is due and must be postmarked no later than midnight on Friday, April 5, 2001. Set up is **Wednesday, May 15, from 4 to 6 p.m.** at the Scottish Rite Center in Mission Valley. Judging follows from 6:15 to 7:30 p.m. Projects will be on public display **Thursday, May 16**, from 9 to 5 p.m. The Award Ceremony follows at 6 p.m.

Have questions? Call 619-491-1531. Leave your name, school and phone number at the beep. Speak Clearly and Spell out all necessary information.

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