

Informally Speaking

A Seasonal Newsletter

Issue No 13 — Fall 2010



ISEA Conference 2011
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and more are announced!
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Houston's WaterWorks is now open!
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www.texasinformalscience.org

A Word From Our President

Your Informal Science Education Association Board of Directors met September 17th through the 19th at McKinney Roughs Nature Park for our Fall Retreat. What a wonderful time of sharing and building creative solutions to challenges facing informal science education in Texas! As we met, I was reminded of just how rewarding it has been to serve as President of this wonderful organization.

Among the many topics on our very full agenda, we discussed upcoming vacancies on the ISEA Board of Directors. If you would like to serve, or know someone who would, don't hesitate to contact our Past President, Linda Kunze, who is the chair of our nominations committee.

In addition, we further explored opportunities to create regional professional development workshops or meetings. These get-togethers would be focused on sharing best practices and solutions to commonly experienced problems related to delivering informal science education. We realized that our institutions commonly face similar challenges related to everything from

exhibit design, training and retaining staff, reaching targeted populations, to the generation and frugal use of funds. If you would like your staff to benefit from this type of opportunity or would like for your site to serve as a regional host, please contact any of your board members for more information!

Johnnie E. Smith
Middle School Science Teacher
Eden Park Academy
President, ISEA

CAST is Coming!



Don't miss it! The Conference for the Advancement of Science Teaching (CAST) - the annual conference of the Science Teachers Association of Texas (STAT) - is upon us! From November 11-13, 2010, over 6000 teachers from all over the state will be there to learn about resources, best practices, and good science. Great speakers and sessions cover everything from how to teach to what is on the horizon in science. The exhibit hall overflows with materials and representatives, and the energy and enthusiasm of this gathering just can't be beat. This is a perfect opportunity to showcase what we informals have to offer classroom educators and to find out what they really need.

As members of ISEA, we are fortunate to have a portal into CAST. ISEA is an affiliate of STAT and has a long history of having a strong presence at CAST. While our conference serves the professional development needs of informals, CAST is how we serve the needs of the formal educators. ISEA has a strand and an exhibit booth, and this is where our presence is strongest – where our members can volunteer their time.

The exhibit booth is an opportunity to meet the teachers one on one, to introduce them to ISEA and to learn more about their needs. It's also the best way to learn about CAST and meet other informals. If you are attending this year's conference, or if you are curious and near the metro-Houston area, consider volunteering for two hours at the ISEA Booth (#3). We will be located near the entrance of the Exhibit Hall and can be found with other Affiliate members' exhibits.

While at CAST, you can also check out our ISEA strand, where we'll present a series of workshops, short courses, and field trips. The ISEA presentations have been selected to demonstrate the excellence and diversity of informal offerings both in subject and grade levels. Last year, Kiki Corry served as the STAT affiliate representative for ISEA and had the pleasure of introducing the ISEA speakers and being wowed again by the professionalism of our peers. This year she has assembled another impressive program. Even if you can only

attend one session, you should see what our friends are up to, or, even better, volunteer to introduce a speaker!

If you would like to volunteer for a few hours, contact Carol at kneppster@gmail.com, by November 8. The open booth times are from 2:30pm-7:00pm Thursday, Nov. 11; 9:00am-6:00pm Friday, Nov. 12; and 8:00am to 2:00pm Saturday, Nov. 13.

*Carol Knepp
Consultant*

WORKSHOPS:

ISEA Presents: Scale Models In Astronomy	Dr. Judit Ries, McDonald Observatory
ISEA Presents: Invaders Of Texas: A Citizen Science Program For Your Classroom	Travis Gallo, Lady Bird Johnson Wildflower Center
ISEA Presents: Kids & Nature.....Why We Need To Teach Science Outside	Lari Jo Wallace-Johnston, Coastal Bend Bays & Estuaries Program
ISEA Presents: From Candy Bridges To Game Design... Free Online Stem Activity Classroom Resources	Tricia Berry, The University Of Texas At Austin, Women In Engineering Program
ISEA Presents: We Do Science, Too! : Experiencing Science At A History Institution	Cassie Dieterich, Fulton Mansion State Historic Site
ISEA Presents: The Leopold Education Project: Lessons In A Land Ethic	Terry Bedford, TPWD, Texas Freshwater Fisheries Center
ISEA Presents: Earth Science Medley: An Assortment Of Activities For Grades 4-8	Sandy Cherniss, Texas State Aquarium
ISEA Presents: Shake, Rattle, And Roll	Terri Hebert, University Of Central Arkansas

SHORT COURSES:

ISEA Presents: Project E ³ -Expanding Energy Education	Doris Tomas, Offshore Energy Center
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FIELD TRIP:

ISEA Presents: The WaterWorks Education Center, Leave from the Brown Convention Center by bus to City of Houston WaterWorks Education Center,	Jerrel Geisler, WaterWorks Education Center
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DETAILS:

Science in the City
CAST 2010, Houston,
George R. Brown Convention Center
1001 Avenida De Las Americas
Conference Information: www.statweb.org/cast

ISEA's Annual Conference

February 23-25, 2011

The Retreat at Balcones Springs Marble Falls, Texas

Mark your calendars now. This year's conference, *Science For All: Engaging Family Science* builds on last year's conference strand of increasing diversity in our audience and in the lives we touch through our work. Our conference keynote speaker, Dr. Maureen Callanan has looked deeply into the nature of family conversations about science in informal settings. Her research at the University of California, Santa Cruz will challenge our assumptions about the role that our family culture plays in the way we approach science.

We need your help. The ISEA annual conference depends on members like you to recruit new members and to share their work. ISEA programs keep us current in the best practices and research into informal science teaching and learning, program evaluation strategies and innovative ways to fund and underwrite our efforts. New members or renewing former members bring new ideas and connections to the Association. That is a benefit to all. Look amongst your teammates and ask them if they would like to join ISEA. If you have a colleague that is interested in attending the Annual Conference, encourage them to apply for a new member scholarship to defray their cost of their first time.

ISEA is a remarkable organization. Nationally there are no other professional informal science associations like it. In the months ahead, keep this in mind as you hear of grant proposals that require a dissemination component. For instance, the conference this year will have a presentation by the Houston Children's Museum partners of SMILE (Science and Mathematics Informal Learning Educator Pathway). This National Science Foundation funded project of the Lawrence Hall of Science is creating a national library of best practices to share. The ISEA is a great platform to reach a large number of their target audience – and we benefit from that!

Do you have a special program that you are proud of? Have you an expertise in programs for non-traditional audiences? Does your institution have an unique staff training component? Consider proposing a session for the conference about your work. Submitting a session proposal is easy. You will be getting a call for proposal e-mail soon. Please consider submitting a session this year.

Chip Lindsey
ISEA President-Elect



Keynote Address: Maureen Callanan, Ph.D.

Maureen Callanan is a Professor in Developmental Psychology at the University of California, Santa Cruz. Her research focuses on cognitive and language development in young children, exploring how children come to understand the world through everyday conversations with their parents. Professor Callanan was a member of the National Research Council committee who wrote the report: *Learning Science in Informal Environments: People, Places, and Pursuits*. She has been involved in research partnerships with museums for over 15 years, most notably in her NSF-funded work with Children's Discovery Museum of San Jose.

Science Learning in Family Visits to Museums

Recent research has focused on how family visits to museums and other informal environments can be contexts for learning about science. Parent-child conversations, in particular, can guide children in learning scientific facts and ways of reasoning about science, and can influence children's developing sense of themselves as scientific thinkers. These conversations vary depending on the interests, backgrounds, and cultural communities of the visitors. Research into family conversations reveals important differences in the way families approach science in informal settings. We can better understand potential outcomes of informal science experiences by examining how parents talk differently to girls and boys and how conversation style varies related to the families' science background, attitude about science, and culture.



Day at the Museum

By Debbie Junk

A small group of education specialists were tightly gathered in the Insect Zoo Containment Room, where they were enjoying a behind-the-scenes tour with Erin Mills, an entomologist at the Houston Museum of Natural History (HMNH). Erin was telling them all about the giant insects there that are used for school visits. She delicately removed one of the seemingly prehistoric arthropods, perched it on her hand, and talked about long-legged katydids, walking leaf insects, and prickly sticks (scorpion mimics!).

During this demonstration, some of the math educators noticed a bin of hissing cockroaches. They said that this tub of hissing cockroaches would make an interesting context for exploring estimation. They wondered, "How many of those things are in there? Hmm, maybe 50 or 60? So, Erin, how many are in there?" Erin answered, "Oh at least 200!" She added, much to the relief of the educators, that hissing cockroaches cannot fly.



These fifty math and science education professional development specialists visited the HMNH to learn how to better utilize informal sites and their resources to enhance teacher professional development programs. These specialists are members of the Texas Regional Collaboratives (TRC) and consist of Project Directors and Instructional Team Leaders involved in the Math Science Partnership (MSP) projects.

What is the TRC?

The TRC supports 67 MSP projects from regions across the state. These specialists

provide professional development (PD) for math and science teachers using an extended model, where they agree to support, at minimum, 25 teachers (called Mentors) for 85-105 hours of PD in math or science in one grant year.

The TRC Mentor teachers are then expected to share their knowledge with other teachers in their areas. Recent TRC projects served over 1500 math and science Mentor Teachers statewide, and typically reaches around 7500 additional teachers each year through mentoring activities. For more information on the TRC, check out www.thetric.org.

Who Am I?

I am not only the TRC Coordinator of Mathematics Initiatives, I am also a former ISEA board member, past president, and co-developer of the Out of the Classroom! project with Christy Youker. For a number of years now, I have been enthusiastic about getting students and their teachers to view informal sites as a key component to meeting their education goals. At the Houston Museum visit, I was very excited to have had the opportunity to teach the specialists what I had learned about education and informal sites. I was equally excited to have a museum partner, Claire Scoggin, Director of Weiss Energy Hall Programming, involved in our visit. Claire has developed a multitude of integrated educational resources for teachers as a supplement to a museum field trip.

To prepare for the day, Claire and I spent time in the museum to build a mutual understanding of what we wanted our participants to learn. We sequenced the museum experiences in such a way that the specialists would gradually take on more responsibility for making connections between educational goals and the museum resources.

Throughout the day, participants were treated to behind-the-scene tours of the Butterfly Center and the Weiss Energy Hall, where they were responsible for developing and presenting activities that science and math teachers might do when visiting these museum areas. Claire spoke



about the countless hours she spends in each hall studying the exhibits to look for educational connections for each grade level, including Texas Essential Knowledge and Skills (TEKS) alignment with these connections.

Where Do We Go From Here?

Formal educators should make connections with museum educators in their regions. Many times the museum educator is pleasantly surprised at the creativity that formal educators show. Claire Scoggin added, "The variety of science opportunities presented at HMNS made it possible for the educators to observe many different types of applications. Hopefully, they will use their experience to guide their teachers to create lessons that will open the eyes of their students to the fact that math and science is everywhere, not just in school or a museum."

I am pleased that museums do such a good job creating interesting interactions for people to learn exciting new information. However, the connections to school learning, outside of a once a year field trip, are not as strong as they could be. These connections could be fortified with strong relationships between both formals and informals. Ideally, science and math teachers might realize that their curriculum is incomplete without the support of informal sites!

*Debbie Junk, PhD.
Coordinator of
Mathematics Initiatives
Texas Regional Collaboratives*


 TEXAS
Children

Texas Children in Nature Conference

 December 3, 8:00am - December 4, 2:30pm, \$50
 

Texas Children in Nature Statewide Summit & Conference

LBJ Auditorium and Thompson Conference Center

University of Texas at Austin

Mark your calendars for December 3-4, 2010

Come participate in the first statewide summit and conference regarding Children in Nature in Texas.

The purpose of the Texas Children in Nature Summit and Conference is to present a state strategic plan to educators, conservationists, sportsmen, policymakers and other Texans who care about and who can work to implement a plan in their communities to increase opportunities for Texas children to play, learn and explore in nature. The conference will include panel discussions, workshops, a networking reception, a film screening and more.

The strategic plan was developed over the last year by the Texas Partnership for Children in Nature. This group is

composed of a bipartisan group of Texas legislators, Texas leaders and experts in many areas concerned with connecting children and the outdoors. Panel discussions and workshops will address four focus areas of the strategic plan which include: Health, Education, Community and Access.

The summit and conference will feature informative and inspiring speakers like Carter Smith, Executive Director of Texas Parks and Wildlife Department; Dr. Joe Frost, Professor Emeritus at the University of Texas at Austin; Kevin Coyle, Vice President of Education at National Wildlife Federation; Dr. Elizabeth Goodenough, creator of the PBS documentary, "Where Do the Children Play?"; and Dr. Eduardo Sanchez, Vice President and Chief Medical Officer of Blue Cross Blue Shield of Texas.

Friday sessions will be held in the LBJ Auditorium on the campus of the University of Texas at Austin. Friday afternoon and Saturday workshops will be held next door at the Thompson Conference Center.

Thanks to a generous sponsorship from the EPA and the Family Foundation, registration for the 2 day event is only \$50, including meals. Seating is limited; please register soon to reserve your seat at the table.

Go to <http://txcinc.wordpress.com/> for more information and to register for the conference.

*Prepared by Janice Sturrock,
Austin Nature and Science Center,
City of Austin Park and Recreation
Department*



In response to young visitors asking about the effects of the oil spill on animals, Audubon Zoo created an exhibit that teaches visitors how to care for the endangered sea creatures



A Large-Scale Experiment

By Tara Schultz
Director of Education
Texas State Aquarium

Six months have passed, and the Deepwater Horizon oil spill continues to impact the Gulf of Mexico. Coastal residents of the northern Gulf have borne most of the immediate and short-term effects; but this tragedy has touched us all, and has focused attention on how much we rely on a healthy Gulf of Mexico.

Beyond the oiled animals and shorelines, the larger and long-term impacts of the oil and dispersants on the Gulf of Mexico are difficult to predict. While much attention has been placed on surface waters and sensitive coastlines, scientists are also concerned about the entire Gulf of Mexico system. Much of the Gulf's rich biodiversity is found deep in the water column and on the ocean floor. The long-term effects of the oil and dispersants on

these animals and deepwater environments are unknown.

We do know that the Gulf of Mexico is rich in energy resources. We need to use our ingenuity and skills to operate safely within this important ecosystem while research and development of alternative energy sources continues. Developing new energy sources and implementing safe techniques requires an innovative workforce, highly trained in science, math, engineering, and technology. Informal science education institutions play a key role in facilitating these learning opportunities.

This unfortunate event has provided abundant real-life examples of how natural and social sciences have relevance in our lives, even for those living far inland, and numerous applications for teaching. Online resources include lesson plans on oil spills, clean-up, ocean circulation, mapping, buoyancy, marine careers, and more. The Gulf of Mexico Alliance (GOMA) regularly updates a comprehensive on-line resource; http://www.gulfallianceeducation.org/announcements/OilSpillResourceList_9.17.10.pdf

Section XI of the guide (pages 15-19) offer a compilation of teacher and student resources. Other resources are available on the GOMA education website. http://www.gulfallianceeducation.org/educatorresources_bytopic.php#OilIndustrySpills For general information on the oil spill including volunteer and claim information, FAQs, and fact sheets, go the official site of the Unified Command at www.restorethegulf.gov.



The WaterWorks Ribbon Cutting Complete for Houston Water Education Center

By Jerrel Geisler

A one-of-a-kind regional facility, the WaterWorks Education Center, officially opened its doors with a ribbon cutting by Houston Mayor, Annise Parker, on Tuesday, October 12. The WaterWorks is an additional resource for the City of Houston Drinking Water Operation's Education and Outreach Programs (a branch of the Public Utilities Division of Houston's Department of Public Works & Engineering). The Center was created to promote water education, conservation and stewardship in the community to protect our most precious resource, water.

The WaterWorks, one of two Centers in Texas that wholly addresses water issues on a regional level, takes visitors through an interactive and innovative journey to learn how lake and river water is transformed into drinking water. The other is El Paso's TechH2O Center. Mayor Parker was joined by about 90 other persons, including city, county and other local and state officials and sponsors, to open the Center. Guests made their way through the exhibits and learned how the Center formed, from vision to reality. The WaterWorks' hands-on exhibits and engaging lectures, to be given by center educators, focus on water-related educational themes ranging from water purification and distribution, methods of source water protection and a historical perspective of Houston's Public Water Supply.

Carol Baker, Executive Director of the Texas Water Foundation is a sponsor and promoter and was on hand to share encouragement for the WaterWorks. She described it as an outstanding tool for water awareness in Texas. Mayor Parker also mentioned the 30+ school districts in the WaterWorks' region and the vast number of students who will gain knowledge from the center.



The Center's overall concept and design was implemented by Alan Krathaus of CORE Design Studio. Krathaus, a local designer, has worked on a variety of projects and some of his clients include the Museum of Fine Arts Houston, Houston Museum of Natural Science and the Houston Medical Museum. He has also designed art and kiosk pieces for Houston's Light Rail Stations.

The WaterWorks Education Center is located in the administration building of the Houston's Northeast Water Purification Plant. Tours and field trips for groups must be arranged in advance and there is no admission charge. Individual tours by educators and others can be arranged with the Center's educators.

For tours and information, please call 832-395-3791, or visit the website at www.houstonwaterworks.org.



*Jerrel Geisler
ISEA board member,
WaterWorks educator
Call to set up a visit with Jerrel at the
Center: 832-395-3780.*

*Drinking Water Operations is a
branch of the Public Utilities Division
of Houston's Department of Public
Works & Engineering.*

Website Does the “Sifting” For You

By Cappy Smith

I admit it; I am a science education idea junkie. I love to learn about the newest science education methods and ideas. My problem is that with the copious amount of material available on the internet, I simply don't have the time to “sift” through the web to find the treasures. So, I was delighted to find SIFT (Science Information for Teachers.) SIFT is a free subscription service to science teachers to help in that time consuming process of finding information they need for the classroom or professional development. Email messages with suggested websites can be received daily or in a weekly digest. In addition, postings are archived online. Internet sites can be categorized by topic, recommended educational site visits, professional development workshops or grant opportunities.

SIFT is sponsored by the University of Florida's Center for Precollegiate Education and Training and can be found at <http://www.cpet.ufl.edu/sift/> I highly recommend that you sign up for the subscription service and leave the “sifting” to SIFT. But, beware; you will receive a plethora of great ideas!



Coastal Bend Informal Educators

By Tara Schultz

The Coastal Bend Informal Educators (CBIE) hosted the 10th annual **Coastal Bend Teacher Resource Extravaganza** on September 28th at the Corpus Christi Museum of Science & History. Thirty informal education organizations showcased their programs and resources for 200 educators from South Texas. The event was sponsored by the Corpus Christi Museum of Science & History, Coastal Bend Bays & Estuaries Program, and San Patricio Municipal Water District, and coordinated by the Texas State Aquarium.

CBIE's “Resource Guide of Environmental Organizations and Education Opportunities” is now on-line at www.cbinformaleducators.org! The guide includes over 40 informal education organizations and descriptions of their programs and resources available to educators, along with the history and goals of ISEA. The website is sponsored by the Coastal Bend Bays & Estuaries Program.

For more information about CBIE, please email contactus@cbinformaleducators.org or Tara Schultz, Texas State Aquarium at tschultz@txstateaq.org.



TEA's Science TEKS Transition Analysis Resources

By Amy Moreland

The State Board of Education (SBOE) adopted new K-12 science Texas Essential Knowledge and Skills (TEKS) in March 2009. The implementation date for these new science TEKS is the 2010-11 school year. These new curriculum standards are rigorous and include more specificity than previous standards. The new curriculum standards in grades 6-12 are also closely aligned with the College and Career Readiness Standards (CCRS).

The TEA hopes that these TEKS transition analysis resources will help educators prepare for the implementation of the new science TEKS in 2010-2011.

www.tea.state.tx.us/WorkArea/linkit.aspx?LinkIdentifier=id&ItemID=2147486149&libID=2147486148

Meet the New ISEA Board Members!



Cheryl Potemkin

I grew up near Fort Worth's Cultural District, and spent my childhood visiting the area museums. Those early experiences began my love for informal learning. While in college, I spent many years running the UNT Union Art Gallery and was convinced that an art gallery somewhere was in my future. After working a few years as a graphic designer, I unexpectedly found myself in Laredo, TX, interviewing for a position at the Imaginarium of South Texas. Little did I know then that I would never want to leave the world of Informal Education.

In 2008, I attended my first ISEA conference on the "first-time attendees scholarship" as a representative for the Imaginarium of South Texas. The conference opened my eyes to what ISEA meant to Texas, the important role informal educators have in the future of our youth, and what these organizations meant for their respective communities. I went back to Laredo with a new passion for what we were doing within the community, and a heartfelt purpose for my designs. The conference lit a fire in me, and I continue to attend each year to keep that fire burning. I have met, and continue to meet, amazing people who are implementing the most inspiring programs and practices in their organizations. Every year I leave excited about what is happening in communities and organizations all over the state.

Today, I no longer directly represent an Informal organization, but I continue my design work. My passion for informal education extends through my business, Pollen Path Design (www.pollenpathdesign.com). I am excited to be involved with ISEA and am very proud to serve on the board of this organization.



Carol Knepp

Informal science education providers across Texas recognize the value of strengthening science education for children and their parents. These individual organizations play vital roles in making meaningful experiences accessible to all Texans, regardless of income. ISEA members form a uniquely diverse association for science education in Texas. As a board member of ISEA I hope my background can play a role in helping build a stronger network.

ISEA is an alliance that includes science-rich informal institutions; my background is a blend of many years of facilitating education at science-rich informal institutions. Over the past 25 years I have overseen education at a wilderness preserve nature center, children's science museum, outdoor field school, botanic garden, and arboretum. I've been involved with Projects Wild and Learning Tree since the early 1980s and most recently Growing Up Wild. I currently participate as a volunteer and consultant in the Houston area for Better Just Better.

I initially joined in 1999 but it wasn't until after moving to Illinois for a few years that I realized how unique ISEA is and that we serve as a model for other states. While other states have dedicated informal science providers none have statewide collaborations that allow sharing of experiences for the purpose of deepening science knowledge.

I'm excited about the potential for helping expand a national trend for identifying science learning opportunities for young children and their parents. I continue to be proud of ISEA and its members and honored to be a part of this process once again. If you're at CAST in Houston look for me at the ISEA booth!



Susan Rowe

I.S.E.A. is G-R-E-A-T..... My first impressions of ISEA were WOW! As a history major I didn't know science could be so cool. I was pleasantly surprised. The idea that even I could be an "informal" science educator was my buy-in to this overabundance of talent, experience, and collaborative atmosphere. I grew up in the "German Belt" of Texas but now teach learners of all ages about the natural and cultural history of the Southern High Plains in Lubbock. There aren't many informal science educators around these parts so, the opportunity to discuss commonalities and vent complaints with great educators from the Piney Woods, along the Coastal Plains, to South Texas, and along the IH 35 corridor, is a fantastic learning experience and great resource.

For me, every conference I have attended has been "the best conference so far", so it was a natural step to anxiously wait my turn as an ISEA board member. I am honored to be part of something that year after year changes the lives of Texas school children and their families. I look forward to working with you in our effort to reach Texas in the name of informal science.

Lubbock or Leave It,
Susan



How Can Members Get Involved?

Call For Isea Board Of Directors Nominations

YOU can join a dedicated group of individuals and contribute your talents to the ISEA leadership! The nominating committee is now accepting nominations for At-large seats. At-large board members will serve a three-year term beginning January 1, 2011.

All nominees are asked to commit to the following if elected:

1. Attend at least two of three regular Board meetings in a calendar year. Meetings for 2011 will be January 8, April 30 and September 30-October 1 (Board retreat). Board meetings are usually held in the Austin area.
2. Fully attend the ISEA annual conference. The 2011 conference will be February 23-25 at The Retreat at Balcones Springs.
3. Actively participate in Board activities including committees and/or special tasks.
4. Actively participate in CAST (Conference for the Advancement of Science Teaching) via assisting the CAST chair with preparations, presenting an ISEA strand workshop or short course and/or helping with the ISEA exhibit booth.

If you are interested in serving on the Board, please submit the nomination form/contact information by mail, email or fax by November 15 to:

Linda Kunze
Caldwell Zoo
P. O. Box 4785
Tyler, TX 75712
lkunze@caldwellzoo.org
phone 903-593-0121 X260
fax 903-595-5083

ISEA rotates Board members and is committed to maintaining diversity in site representation and geographic location.



Want to Submit an Article to Informally Speaking?

Interested in contributing to our wonderful organization? We are seeking article submissions for the next "Informally Speaking" newsletter.

General Article Submission Requirements:

- Please submit and attach your article to: amy_moreland@mail.utexas.edu and Cappy.Smith@tpwd.state.tx.us
- Use Word (.doc or .docx) or a Text editor (.txt) to submit text.
- Word limits: 250 to 400 words; please use a spell checker before submitting.
- If at all possible, please include a high resolution digital photo (about 1 MB - .tiff or .jpg).

STAT Affiliate Journal - The Texas Science Teacher (TST)

The TST is the professional peer reviewed journal of the Science Teacher Association of Texas.

If you have conducted research please consider having it published in the TST. Go to <http://www.statweb.org/publications/guidelines.php>

ISEA Historical Archives

Attention all ISEA members, we want to gather the history of ISEA! If you have pictures, old newsletters, conference brochures or information, CAST info on ISEA - even old files - from the humble beginnings of ISEA to current, please email Jerrel Geisler at jerrelgeisler@sbcglobal.net. If your items are in digital format, that is great. If not, we'll take care of it. Please e-mail Jerrel today and do your part for ISEA history!



ISEA is on

facebook

Friend us at:

<http://www.facebook.com/group.php?gid=176401233408&ref=ts>



2010 - 2011 Executive Officers

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Eunice Pearson-Hefty
Barbara Peterson
Cheryl Potemkin
Susan Rowe
Cappy Smith
Janice Sturrock
Christina Soontornvat
Vanessa Westbrook

Informally Speaking Newsletter

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