



2012 Annual Conference

**ISEA 2012: An Oasis for
Science Education**

**February 15-17, 2012
Sky Ranch
Van, Texas**

Preliminary Program

Informal Science Education Association
February 15-17, 2012
Sky Ranch
Van, Texas

Wednesday, February 15

- | | |
|---------------|--|
| 12:00-5:00 pm | Conference Registration |
| 1:00-4:00 pm | Preconference Workshop: SciGirls Resources |
| 4:00-6:00 pm | Preconference Workshop: Evaluation Made Easy |
| 5:00-6:00 pm | Network & Greeting |
| 6:00 pm | Dinner & Night at the Livery (Meet at the Kiosk) |

Thursday, February 16

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|--------------|---|
| 7:30 am | Breakfast |
| 8:00-8:30 am | Conference Registration |
| 8:30 am | Welcome & Introductions |
| 9:15 am | Keynote Address |
| 10:30 am | Concurrent Sessions |
| 11:30 am | Lunch |
| 12:30 pm | Concurrent Sessions |
| 1:30 pm | Free Time Activities |
| 3:30 pm | Concurrent Sessions |
| 5:30 pm | Dinner |
| 6:30 pm | Silent Auction & Photo Contest |
| 7:30 pm | Interest Based Discussion Groups & Networking |
| 8:30 pm | Bonfire & Nighttime Geocaching |

Friday, February 17

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|----------|-------------------------------|
| 7:30 am | Breakfast |
| 8:30 am | Concurrent Sessions |
| 9:30 am | Concurrent Sessions |
| 10:30 am | Closing Session |
| 11:00 am | Room/Cabin Checkout |
| 11:30 am | Lunch & ISEA Business Meeting |
| 1:30 pm | Post Conference Field Trip |

**Pre-Conference Workshop:
SciGirls Resources**

Lisa Regalla, SciGirls

SciGirls resources provide an energetic model of inquiry-based science, appealing to tweens, parents and educators alike. SciGirls activities link real-world experiences with investigations designed to promote questioning and an eagerness to understand how tweens can impact their the world. While the activities engage boys as well, SciGirls resources are designed to appeal to the unique interests of girls.

**Pre-Conference Workshop:
Evaluation Made Easy**

Cheryl Boyette, Boyette Consulting

3 hr Pre-conference workshop introducing the steps to designing a program evaluation plan with discussion of simple techniques for collecting data. Each attendee will schedule a private session to ask question and receive assistance with their individual evaluation needs. Private sessions will be either during open time during the conference or post-conference at Sky Ranch.

Keynote Address

Formal education moves towards informal: new developments in the K-12 standards movement have huge implications for informal science education

Martin Storsdieck

*Director of the Board on Science Education at the
National Academy of Sciences/National Research Council*

We are pleased to welcome Martin Storsdieck as the Keynote to the 2012 ISEA Conference. He is the director of the Board on Science Education at the National Academy of Sciences/National Research Council where he oversees studies that address a wide range of issues related to science education (e.g., climate change education, science learning from games and simulations, developing a conceptual framework for new science education standards, discipline-based education research). Martin also serves as a research fellow at the not-for-profit Institute for Learning Innovation, where he is involved in research on science learning in immersive environments; models of involving researchers and scientists in science museums and science centers; and understanding the impact of science hobbyists, such as amateur astronomers, on the public understanding of science. He holds a Masters in Biology from the Albert-Ludwigs University (Freiburg, Germany), a Masters in Public Administration from Harvard University, and a Ph.D. in education from Leuphana University (Lüneburg, Germany).

**Post Conference Field Trip: Caldwell Zoo in Tyler, TX
Friday, February 17, 1:30 pm**

Nestled on 85 acres of beautifully landscaped woodlands, the Caldwell Zoo is home to more than 2,000 animals. From tree frogs to white tigers, the zoo showcases wildlife from around the world within naturalistic multi-species exhibits. Caldwell Zoo Teachers will be happy to give you a special tour of the zoo or you are welcome to just come and enjoy all the magnificent creatures. Just show your ISEA conference badge for free admission.

Registration: Taken at conference check-in.

WEDNESDAY, FEBRUARY 15

12:00-5:00 pm	Conference Registration	Legacy Room 2a
1:00-4:00 pm	Preconference Workshop: SciGirls Resources	Legacy Room 1a
4:00-6:00 pm	Preconference Workshop: Evaluation Made Easy	Legacy Room 1b
5:00-6:00 pm	Network & Greeting	Legacy Room 2a
6:00-8:00 pm	Dinner & Night at the Livery	Meet at the Kiosk



Not too late to Register! Conference is awesome this year!
February 15th-17th in Van, Tx.
www.texasinformalscience.org

Informal Science Education Association of Texas

Silent Auction 2012

Join the Fun at the Conference!

***Send in or Bring in
your Gift Shop Cast-offs,
your Hard to Sell Items, your
Too Cool for Anybody Else but ISEA-ers**

Special Project:
Photography Contest and Auction

Bring your Photo
and Win the "Best Damn Photo 2012" Award

chosen by popular vote at the Annual Conference
do not have to be present to win
photos become property of ISEA and are auctioned

*Questions? Call Melissa Cigarroa at 956-206-7590,
or you can email photo to melissacigarroa@utexas.edu

AND DON'T FORGET YOUR BOOTS FOR THE COW RUSTLIN'!
(SCHOLARSHIPS MAKE A DIFFERENCE; YOU CAN TOO!)

THURSDAY, FEBRUARY 16

7:30 am	Breakfast	Oak Haven Dining Hall
8:30 am	Welcome & Introductions	Pogue Ballroom
9:15 am	Keynote Address: Martin Storsdieck	Pogue Ballroom

CONCURRENT SESSIONS

10:30 am	Jose Perez <i>Informal Science Learning Associates</i>	Lego Robotics for Elementary-Aged Kids Robotics is the newest "coolest" STEM program. Learn about Lego "WeDo" robotics and how you can create a museum program to hook even the youngest visitors into the fascinating world of robotics, and draw that STEM pipeline down to a younger audience! (TEKS-aligned as well)	Legacy Room 1a
10:30 am	Tricia Berry <i>Texas Girls Collaborative Project</i>	Paper Tower Engineering: A Hands-On Introduction to the Grand Challenges of Engineering in the 21st Century Get innovative and imaginative and create the tallest paper tower possible. Through this easy and inexpensive hands-on team activity, explore engineering principles and the Grand Challenges for Engineering in the 21st Century and how you can incorporate these into your own programs. Participants will be introduced to both the National Academy of Engineering's (NAE) 14 Grand Challenges as well as the NAE's Changing the Conversation research on effective STEM messaging.	Legacy Room 1b
10:30 am	John De Fillipo <i>John Bunker Sands Wetland Center</i>	Wetlands for Water Learn about the newest nature center near Dallas Texas that is located in the middle of a 2000 acre manmade wetland that recycles and supplements the water supply for over 1.5 million people. This hands on presentation will engage the participants in determining the quality of water in their watershed and show the importance of wetland habitat.	Legacy Room 1c

THURSDAY, FEBRUARY 16 (continued)

11:30 am	Lunch		Oak Haven Dining Hall
CONCURRENT SESSIONS			
12:30 pm	<p>Lisa Chappa & Melissa Cigarroa</p> <p><i>Informal Science Learning Associates</i></p>	<p>X-Factor National Girls Collaborative Find out how to host a “Meet a STEM Professional” event at your facility, and why you should. Resources from the National Girls Collaborative Project will be shared as well as hands-on activities from “Girls at the Center” – Franklin Institute designed</p>	Legacy Room 1a
12:30 pm	<p>Marcela Ramos</p> <p><i>Austin Children’s Museum</i></p>	<p>Internships: Effective Management and Mentorship The goal of the Austin Children’s Museum Intern Program is to provide meaningful work experiences and career development for young professions who are pursuing a variety of careers. Our interns are given a high level of responsibility and are engaged in bringing a fresh perspective to our work. This session will review the development of our intern program and how it extends our mission to equip and inspire the next generation of creative problem solvers to the young professional audience. Topics will include how to effectively manage an intern program, logistics and considerations, evaluation and tips for effective mentorship. Each participant will leave with the ACM supervisor manual, Intern manual, evaluation tools, sample learning contracts, and sample job descriptions.</p>	Legacy Room 1b
12:30 pm	Stacy Reynolds	2012 – Year of the Bat, An Invitation to Celebrate	Legacy Room 1c
1:30 pm	<p>FREE TIME ACTIVITIES: <i>(pre-purchase required at Corner Store for Zip Lines and Cattle Drive)</i> Zip Lines Cattle Drive (Meet at Kiosk) Zones1-4</p>		Locations Vary, See Map

THURSDAY, FEBRUARY 16 (continued)**CONCURRENT SESSIONS**

3:30-5:30 pm	Barbara Peterson & Cait McCann <i>Austin Nature and Science Center</i>	Insective Detective: A Program and a Partnership The Austin Nature and Science Center (ANSC) partnered up with the Austin Independent School District to provide a science field trip experience for all second graders. Insective Detective is a fun program based on experiential learning. ISEA participants will enjoy the hands-on activities included in the program and learn how ANSC develops and nurtures their long standing relationships with schools.	Legacy Room 1a
3:30-5:30 pm	Dr. Pamela Owen <i>Texas Natural Science Center, University of Texas at Austin</i>	Deep Time Explorations Life Through Time is an IMLS-funded teacher training program integrating earth and life sciences. Come learn why the program works so well and explore fossils, fossilization and the timing of important evolutionary events. We'll discuss common misconceptions about the fossil record and share ideas on how to develop a better sense of deep time.	Legacy Room 1b
3:30-4:30 pm	Katelyn Wamsted & Ange Atkinson <i>Girlstart</i>	Engineering the Earth: Exploring Wind Energy Discover how incorporating renewable energy in an after school program can be meaningful and fun. Learn ways to increase girls' participation in informal science and take home a wind energy hands-on activity.	Legacy Room 1c
5:30 pm	Dinner		Oak Haven Dining Hall
6:30	Silent Auction and Photo Contest		Pogue Ballroom
7:30	Silent Auction and Photo Contest Close ISEA Mascot Name Announcement		Pogue Ballroom
7:30-8:30 pm	Interest Based Discussion Groups & Networking		Pogue Ballroom
8:30 pm	Auction & Photo Contest Winners Announced		Pogue Ballroom
8:30 pm	Bonfire & Nighttime Geocaching		See Map

FRIDAY, FEBRUARY 17

7:30 am	Breakfast	Oak Haven Dining Hall
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CONCURRENT SESSIONS

8:30 am	Dr. Bob Williams & Dr. Mary Hobbs <i>University of Texas at Austin</i>	Life Science for Pre-School The hands-on workshop will share ideas for teaching the Big Ideas of Life science using found natural found materials. Several activities for each of the Big Ideas of Characteristics of Organisms, Life Cycles of Organisms, and Organisms and their environments. Participants will collect some of the organisms and objects from the site.	Legacy Room 1a
8:30 am	Martin Hagne <i>Valley Nature Center</i>	Nature Videography to Rescue Science Education in a Drought Learn about VNC's effort to create a series of educational and entertaining DVD's in collaboration with a local and well know nature videographer. In a hostile financial Using grant funding it is a win win for all involved! environment see how these tools can be an oasis for funding and educational opportunity.	Legacy Room 1b
8:30 am	Aaron Guerrero <i>Children's Museum of Houston</i>	Nanotechnology: Small Science, Big Deal Staff will deliver an hour long session about nanotechnology. The beginning of the session will be a presentation on what nanoscale science is and the influence it is having on technologies and the impact it could have on other areas and fields. There will then be a showcase of a few of the NISE Network hands-on activities that participants will be able to interact with. To conclude, staff will let attendees know what the NISE Network is, as well as the opportunities that are available for partners, and how they can join if they're interested.	Legacy Room 1c

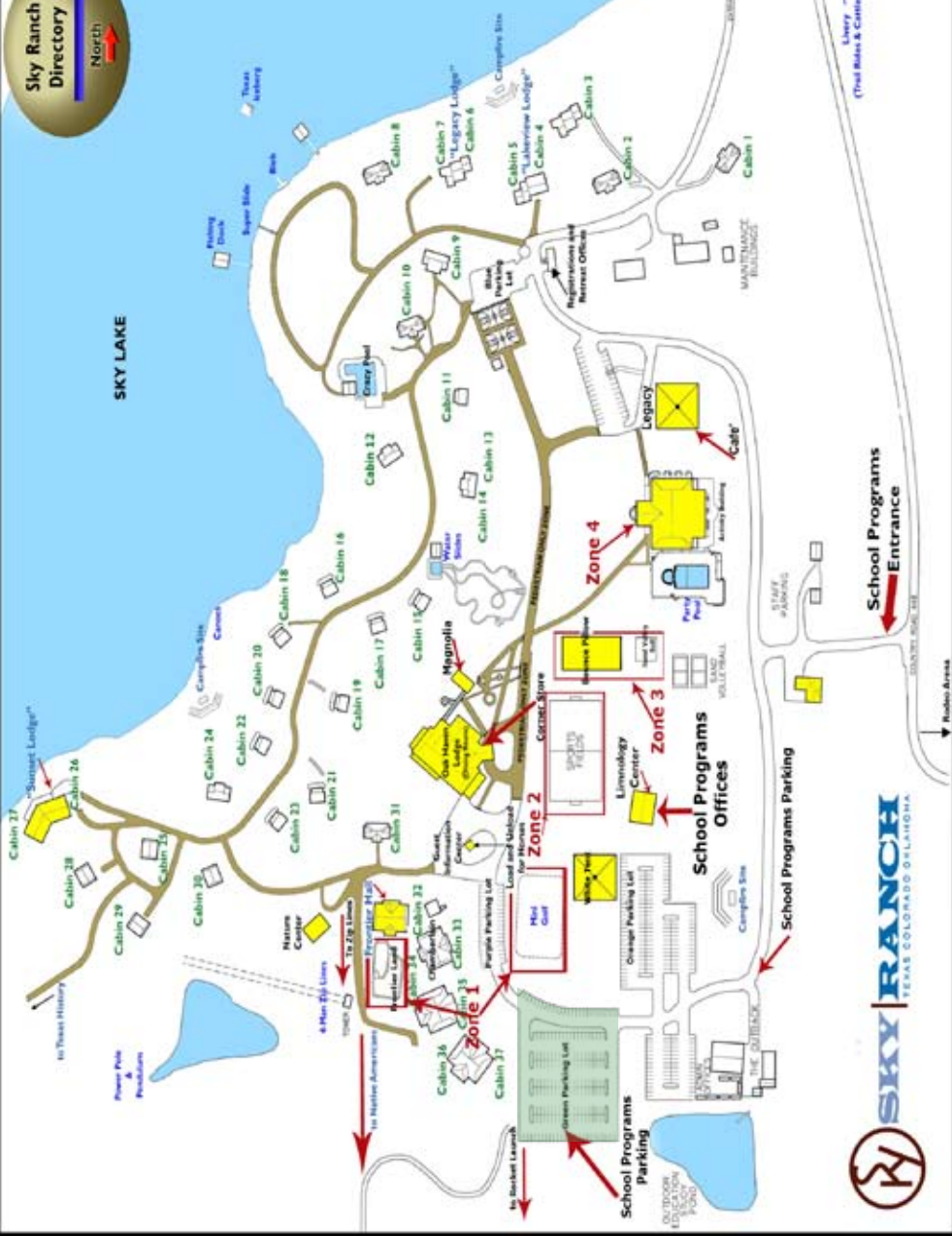
FRIDAY, FEBRUARY 17 (continued)**CONCURRENT SESSIONS**

9:30 am	Dr. Bob Williams & Dr. Mary Hobbs <i>University of Texas at Austin</i>	Physical Science for Pre-school The hands-on workshop will share ideas for teaching the Big Ideas of physical science using found natural materials. Several activities for each of the Big Ideas of Properties of Matter, Force and Motion, and Measurement will be accomplished.	Legacy Room 1a
9:30 am	Adriana Reza <i>Texas State Aquarium</i>	Texas State Aquarium Aquavision Distance Learning As informal educators we strive to educate students about the importance of protecting our environment. It is vital that students learn about other places and how they too have an impact even if they don't live nearby. Please join me as I demonstrate how distance learning aids students from all over the United States realize that their conservation efforts help protect the Gulf of Mexico.	Legacy Room 1b
9:30 am	Christy Youker & Rebekah Coleman <i>Upper Colorado River Authority and San Angelo Museum of Fine Arts</i>	Camp Odyssey: Art & Science of Water through a Community Learn about our first year of Camp Odyssey where kids ages 9 to 13 immersed themselves in the journey of water through their community and then used art and design to communicate to the public. This is a collaborative effort by an art museum, an environmental agency and a school district funded through a 3 year IMLS Leadership Grant.	Legacy Room 1c
10:30 am	Closing Session		Oak Haven Dining Hall
11:00 am	Room/Cabin Checkout		
11:30 am	Lunch & ISEA Business Meeting		Oak Haven Dining Hall

Sky Ranch Directory

North

SKY LAKE



School Programs Entrance

SKY RANCH
TEXAS COLORADO OKLAHOMA

