

Water: A Living Lesson

June 25th-27th, 2014

The University of Texas at San Antonio, Downtown
Campus, San Antonio, Texas



Conference Schedule

Wednesday, June 25, 2014

7:30 a.m. – 8:45 a.m.	Check-In/ Field Trip Registration/Continental Breakfast
8:45 a.m. – 9:00 a.m.	The Story of Water in South/Central Texas
9:00 a.m. – 10:00 a.m.	The Great Water Debate (Presented by the Edwards Aquifer Authority)
10:00 a.m. – 10:15 a.m.	Break
10:15 a.m. – 11:15 a.m.	News Flash: You are living on a watershed! (Presented by the San Antonio River Authority)
11:15 a.m. – 12:45 p.m.	Boxed Lunch/Share Fair
12:45 p.m. – 1:45 p.m.	A Journey from Rain to Drain (Presented by the San Antonio Water System)
1:45 p.m. – 2:00 p.m.	Break
2:00 p.m. – 3:00 p.m.	Educators bringing H₂Ope to Classrooms and Communities across the Globe (Presented by The University of Texas at San Antonio)
3:00 p.m. – 4:00 pm.	Teacher Panel Discussion

Thursday, June 26, 2014

8:00 a.m. – 9:00 a.m.	Continental Breakfast
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Primary Educator's Track (PK-5th grades)-The University of Texas at San Antonio, Downtown Campus

9:00 a.m. – 10:20 p.m.	Workshops-Session 1 (Please choose one) • Aquifer Adaptations (Presented by EAA) • Tri-cycles: What water, life, and a bike have in common (Presented by SARA) • A Teacher's H₂Ope (Presented by UTSA) • Water Cycle Recycle (Presented by SAWS)
10:30 a.m. – 11:50 a.m.	Workshops-Session 2 (Please choose one) • Aquifer Adaptations (Presented by EAA) • Tri-cycles: What water, life, and a bike have in common (Presented by SARA) • A Teacher's H₂Ope (Presented by UTSA) • Water Cycle Recycle (Presented by SAWS)

Aquifer Adaptations (Presented by the Edwards Aquifer Authority)

Learn about the endangered species of the Edwards Aquifer. Explore watery habitats, create your own aquatic species and share your creation! Attendees will receive copies of the book *Endangered and Threatened Species of the Edwards Aquifer Region* as well as their own "Kritter Kit".

Tri-cycles: What water, life, and a bike have in common (Presented by the San Antonio River Authority)

Whether it is the water cycle or riding bicycles, there are great activities for students to tie these important concepts together that allow students to make informed decisions about living sustainably.

A Teacher's H₂Ope (Presented by The University of Texas at San Antonio)

Learn how to relationally engage your students in community and global service. What happens when relationships are built? When students build relationships with people who are very different from them—will they find them really so different after all?

Water Cycle Recycle (Presented by the San Antonio Water System)

Explore the water cycle from condensation to evaporation.... in your recycle bin?? Yep that's right, learn how to make the workings of the water cycle fun and applicable for your students through interactive activities and demonstrations that you can make from material straight from your recycle bin!

12:00 p.m. – 12:45 p.m. Lunch

1:00 p.m. – 2:20 Workshops-Session 3 (Please choose one)

- **Discover the Edwards Aquifer** (Presented by EAA)
- **Cool Tools: The everyday equipment you can use to learn about water** (Presented by SARA)
- **The cultural heritage of water: connecting students to history and culture through an understanding of waterways** (Presented by UTSA)
- **The Water Cycle EXPERIENCE!** (Presented by SAWS)

2:30 p.m. – 4:00 Workshops-Session 4 (Please choose one)

- **Discover the Edwards Aquifer** (Presented by EAA)
- **Cool Tools: The everyday equipment you can use to learn about water** (Presented by SARA)
- **The cultural heritage of water: connecting students to history and culture through an understanding of waterways** (Presented by UTSA)
- **The Water Cycle EXPERIENCE!** (Presented by SAWS)

Discover the Edwards Aquifer (Presented by the Edwards Aquifer Authority)

Join the Edwards Aquifer Authority on an artistic journey to the Comal and San Marcos Rivers. Express yourself and embrace your natural affinity for water using paints, pictures and other creative mediums. Attendees will receive copies of *Discover the Edwards Aquifer: A Comal Springs & River Workbook* and *Discover the Edwards Aquifer: A San Marcos Springs & River Workbook*.

Cool Tools: The everyday equipment you can use to learn about water (Presented by the San Antonio River Authority)

This rather surprising workshop will give educators both tangible tools and fun strategies to help educators teach their students about the most important liquid on earth.

The cultural heritage of water (Presented by The University of Texas at San Antonio) This session will tell the story of San Antonio's historical connections to water and unveil an interdisciplinary curriculum about the ecological, technological, cultural and economic implications of historical San Antonio's last remaining *acequia* in operation.

The Water Cycle EXPERIENCE! (Presented by the San Antonio Water System)

Sit in a cloud, play in the snow, conduct a rain storm symphony and never leave your classroom!

Secondary Educator's Track (6th-12th grades)

9:00 a.m. – 9:30 a.m. Travel to Workshop Destination (San Antonio River Authority/Edwards Aquifer Authority)

9:30 a.m. – 12:00 p.m. Workshop-Session 1

- **Super Models; Effective Use of Physical Models to Engage Visual Learners** (Presented by Edwards Aquifer Authority)
- **Cyber Sights: Creating Your Own Virtual Field Experience** (Presented by Edwards Aquifer Authority)
- **Patterns, Patterns Everywhere! Collecting and analyzing *real* water data** (Presented by the San Antonio River Authority)

12:00 p.m. – 12:45 p.m. Lunch

12:45 p.m. – 1:15 p.m. Travel to 2nd Workshop Destination (San Antonio River Authority/Edwards Aquifer Authority)

1:15 p.m. – 3:45 p.m. Workshop-Session 2

- **Super Models; Effective Use of Physical Models to Engage Visual Learners** (Presented by Edwards Aquifer Authority)
- **Cyber Sights: Creating Your Own Virtual Field Experience** (Presented by Edwards Aquifer Authority)
- **Patterns, Patterns Everywhere! Collecting and analyzing *real* water data** (Presented by the San Antonio River Authority)

3:45 p.m. – 4:15 p.m. Return to UTSA

Super Models: Effective Use of Physical Models to Engage Visual Learners (Presented by the Edwards Aquifer Authority)

Learn the best methods with using physical models to teach particular concepts. Discuss the limitations and advantages of models. Construct your own aquifer model to take back to the classroom. Learn about the Edwards Aquifer Authority's models and presentations.

Cyber Sights: Creating Your Own Virtual Field Experience (Presented by the Edwards Aquifer Authority)

Learn how to create and incorporate your own virtual field experience (VFE) into your class. Participants will be taken through a simple step by step process to create an interactive virtual trip to any location of their choosing without special software, or a degree in computer engineering. See how VFEs can correlate to the TEKS and NGSS standards.

Patterns, Patterns Everywhere! Collecting and analyzing *real* water data (Presented by the San Antonio River Authority)-Learn how to take your students through the scientific process with real questions, real experiments, and real results that experts use every day. This half-day session will teach participants how to inspire their students to ask questions, design experiments, and collect data. The focus of the experiment designs in this lesson will surround water quality.

5:00 p.m. – 7:30 p.m. An Evening on the River (On-line *Field trip Registration required-FULL*)

Friday, June 27, 2014

(On-site *Field trip registration required*) (Please choose one)

8:00 a.m. –12:00 p.m. **Field Trip- Sustaining and Enriching Life in South Texas: The San Antonio River Story** (Presented by the San Antonio River Authority)
(50)

8:00 a.m. –12:00 p.m. **Field Trip- Karst Connections** (Presented by the Edwards Aquifer Authority-50)

8:00 a.m. –12:00 p.m. **Field Trip-Telling the Stories of Water: Past, Present, and Future** (Presented by The University of Texas at San Antonio)

8:00 a.m. –12:30 p.m. **Field Trip- Today and Tomorrow** (Presented by the San Antonio Water System- 50)

Sustaining and Enriching Life in South Texas: The San Antonio River Story- (Presented by the San Antonio River Authority)

Take a trip through time while exploring the history of a region through the lens of a river. The San Antonio River provides life to South Texas, and it has for more the 10,000 years. This field trip will take participants on a journey through those 10,000 years while exploring the river from its headwaters to the historic missions. Participants will get to explore the newest extension of the River Walk, the recently completed Mission Reach Ecosystem Restoration and Recreation Project.

Karst Connections: A Tour of San Marcos Springs (Presented by the Edwards Aquifer Authority)
Explore the interconnectedness of our aquifer as you tour San Marcos Springs, the second largest spring system in Texas. Take a ride on the glass bottom boats, visit the museum, and tour the boardwalk with our guides from the Meadows Center for Water and the Environment. Learn more at meadowscenter.txstate.edu

Telling the Stories of Water: Past, Present, and Future (Presented by The University of Texas at San Antonio) The University of Texas at San Antonio (UTSA) Institute of Texan Cultures (ITC), an official Smithsonian Institution affiliate, serves as the state's primary center for multicultural education. This field trip will include a tour of the Special Collections Library and writing workshops focused around the topic of Water. Tickets will be provided to participants for an optional tour of the museum after workshop sessions. [Participants meet directly at ITC at 9:00am]

Today and Tomorrow (Presented by the San Antonio Water System)
How is it that San Antonio, the 7th largest city in the U.S. and a city on the edge of a desert, has the reputation of being water's most resourceful city? Join us as we explore an innovative drinking water production facility. Take a tour of one of the most sustainable water recycling plants in the country and find out what role you and your students play in San Antonio's water story, both today and tomorrow.

Where, When, How...

Location

The University of Texas at San Antonio Downtown is located at 501 W. Cesar E. Chavez Blvd., San Antonio, Texas 78207 <https://utsa.edu/dtcamp/>

Parking

Parking is free in the Cattleman's parking lot at the corner of Buena Vista and IH 35 (see attached map). From the parking lot, cross Buena Vista St. and enter the Buena Vista Building. The conference Welcome Center and events are located in and around the Aula Caneria foyer, 1.328.

Scholarships

Thirty (30) \$50 travel scholarships will be available to educators traveling 35 miles or more from outside Bexar County, but residing inside Atascosa, Caldwell, Comal, Goliad, Gonzales, Guadalupe, Hays, Karnes, Kendall, Medina, Uvalde, and Wilson Counties.

Registration

Your registration will ensure your access to the following conference elements:

- All presentations and workshops
- Breakfast and lunch on Wednesday and Thursday
- Share Fair

In addition, your registration includes a conference bag. Registration will be capped at 180 educators. Sorry, walk-in registration is not available.

Field Trip Registration

Field Trip Registration will open at 7:30 a.m. on Wednesday, June 25th at the Welcome Center. Field Trip Registration is REQUIRED for the following Friday field trips:

- **Sustaining and Enriching Life in South Texas: The San Antonio River Story** (Presented by the San Antonio River Authority- Registration capped at 50)
- **Karst Connections** (Presented by the Edwards Aquifer Authority-Registration capped at 50)
- **Telling the Stories of Water: Past, Present, and Future** (Presented by The University of Texas at San Antonio)
- **Today and Tomorrow** (Presented by the San Antonio Water System- Registration capped at 50)

Conference Badges

Badges are required for admission to all presentations, workshops, field trips and social events. Please pick up your conference badge at the Welcome Center upon arriving. The Welcome Center is located on in the Aula Caneria foyer. Please look for the signs that will direct you to this location.

Conference Elements

Educator Professional Credit

SBEC-This conference is an authorized State Board of Education Credit (SBEC) site offering Continuing Professional Education (CPE) hours for those who attend the workshops. Up to 16 hours of credit can be attained by educators who attend.

Share Fair Luncheon

Please come and visit with participants at the Share Fair Luncheon on Wednesday, June 25th from 11:15 a.m. to 12:45 p.m. and discover new ideas, contacts, information, and resources to take back to your classroom. A box lunch will be provided FREE for everyone who registers for the conference.

Field Trips

(Field Trip registration required)

Buses will depart promptly at their scheduled departure time from UTSA (unless otherwise noted). We ask that you please arrive thirty minutes prior to this time. Upon registering, attendees will receive additional field trip information, such as recommended equipment and departure information.

Social Event on the San Antonio River!

Come and meet new friends, network with colleagues, and have a great time enjoying the beauty, art and scenery of the Riverwalk extension of the Museum Reach! On Thursday evening at 4:00pm, a bus will take participants from UTSA to the conference hotel El Tropicano for refreshments and light snacks before we take a barge tour north through the lock and dam to the Pearl Brewery. The oldest VFW post in Texas, Carlos Cortez's "Grotto", and seven foot long luminescent longear sunfish will be explored. Buses will return to UTSA by 8:00pm.

Sorry, this event is currently full

Conference Hotel

Learn about water and stay on the water at the same time! Special guest room rates are now being offered as part of the *Water: A Living Lesson* conference at the El Tropicano Riverwalk Hotel (110 Lexington Avenue). To book a reservation please call 877-736-4311 or use the web link:

<http://booking.ihotelier.com/istay/istay.jsp?groupID=1204727&hotelID=75553>

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