



Rainwater News Around the World

[Texas rainwater harvesting at a crossroads](#)

statesman.com

[Booksigning & Evening Talk with Brad Lancaster](#)

Santa Barbara
Independent

[Rainwater harvesting gains ground](#)

eKantipur.com

[Gurgaon is staring at a water crisis](#)

Business Standard

[Rainwater Harvesting Gains Ground in City](#)

The Times of India

[Rainwater Harvesting: A Growing Industry with Some Challenges Ahead](#)

Water Efficiency

[Drought trigger Senate](#)

American Rainwater Catchment Systems Association

.. June 2013 E-News ..

ARCSA Survey Winners!

Steve Barnick and Larry Fancher, both won their choice of a one year membership or a free registration for the ARCSA 2013 Annual Conference!

Thank you everyone for participating. The survey will remain open until the end of June. Results will be provided as soon as they are collected.

Call for New ARCSA Board Members

Ever thought about serving on the ARCSA Board of Directors? Now's your opportunity! If interested, please email your bio to info@arcsa.org

Flagstaff Water Harvesting Demonstration Garden

By Pieter Schaafsma, Schaafsma Design

[support for rainwater harvesting](#)

Jamaica Observer

[University of Arizona students installing new rainwater harvesting systems](#)

Arizona Daily Star

Find us online!



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Try out ARCSA membership with a **FREE 30 Day Trial Membership!**

[Join ARCSA](#)

Welcome
New Members!

Arizona

Tony Adamson

California

Mark Booth
Mick Merrell

Canada

Devin Cumming

Colorado

Beorn Courtney
Ed Franz

Delaware

Hugh Callahan

Florida

Phillip Tate

Indiana



Before running water was available to most urban homes in western communities, it was common practice to include a cistern in the construction of a new home. Today most homeowners are not aware of the amount of water that their households use, let alone how much water is being used to water their landscapes. With recent droughts plaguing many regions around the arid Southwest people are recognizing the importance of conserving water, and using it wisely throughout their landscapes in the form of turf grass reduction, and the use of low water use plants.

Several years ago I decided that if a landscape was going to be installed for a new home or commercial business, the only way plants should grow in that landscape would be through the use of water generated from the house, with no importation of water from external sources, such as city water sources. Developing this idea would increase the use of gray water systems, rain water harvesting tanks and swales. By collecting this water and calculating the amount of water required to irrigate planting; the landscape could be designed to match the water production from these sources.

Mo Convery

Kenya

Fredrick Mango

Massachusetts

Bob Barbati

Joel Frisch

Robert Jordan

Minnesota

Peter Handke

North Carolina

Brian Higgins

Ohio

Alec Janda

Oklahoma

James Martin

Oregon

Larry Wimber

Tennessee

James Vance

Texas

Todd Doolittle

Brad Greenwald

Kathryn Hitt

Rick Ramsey

David Sawtelle

Utah

Chao-Hsien Liaw

Washington

Joseph Smith



When I started implementing these ideas into my landscape designs I found that it was difficult to create economical rain water harvesting tanks and had to build one using a stock tank with a special steel roof. Fortunately times have changed and rain water harvesting tanks are available to most homeowners today.



After designing the Flagstaff Xeriscape Demonstration Garden, and recognizing the community support for the garden, I decided that it was time to develop a Water Harvesting Demonstration Garden within the community. It would be an important addition to the community to demonstrate how water harvesting systems could work on their own

homes as well as the importance and ease of the availability for these pre-designed systems. I teamed up with Probuild (www.probuild.com) the local supplier for Bushman Tanks and water harvesting systems, to help me develop this concept. A critical link in this whole idea is providing a visitor with a local source for installing rain water harvesting systems with ease. I am also working closely with the Arizona Chapter of the American Society of Landscape Architects (AzASLA) who is helping to sponsor this garden for Northern Arizona.

The location for this garden is yet to be selected but consideration is being given to two locations, one within the City of Flagstaff and the other at Ft. Tuthill at the Coconino County Fair Grounds.

Pieter Schaafsma, ASLA of Schaafsma Design has been designing landscapes in the Southwest for the past 20 years. More information is available at www.schaafsmadesign.com

2013 ARCOSA National Conference Registration Opens June 24th! Preliminary Schedule Now Online!

ARCOSA is teaming up with the [Irrigation Association](#) for the
**2013 ARCOSA Annual
Conference and Tradeshow**
at the Austin Convention Center.

When

November 5-7, 2013

(Education offerings on 11/4 and 11/8, must register separately)

[View preliminary conference schedule here](#)

Where

Austin Convention Center

500 E Cesar Chavez St, Austin, TX 78701

TEL: 1-919-828-0811

Hotel reservations will be available from May 1, 2013

[Download the Individual Housing Form here](#)

About the Conference

This year's conference is the first of its kind for ARCOSA. ARCOSA is excited co-conference with the Irrigation Association (IA) national conference and tradeshow. The ARCOSA/IA conference collaboration promises to bring the highest quality speakers and seminars to our members, as well as more exposure for our exhibitors than any other ARCOSA National Conference and Tradeshow to date.

[View additional conference information here](#)

Registration

Opens June 24th

Make sure to indicate if you are an ARCSA Member upon registering to receive your discount!

Registration Fees for 2013 ARCSA Conference:

ARCSA Member	Non-Member
* early (before Oct 4): \$265.00	* early (before Oct 4): \$390.00
* regular/on-site: \$320.00	* regular/on-site: \$445.00

Call for Exhibitors

[2013 Exhibitor Prospectus](#)

[2013 Irrigation Show Exhibitor Contract](#)

Want to Help Out?

We are looking for ARCSA Members to serve on the Conference Committee to help with planning. Contact Russ Jackson at russ@rainharvest.com if you would like to join!

[View our Conference webpage for additional information](#)

EPA Awards \$2 Million for Small Business Innovation Research: Promoting Green Jobs



WASHINGTON - The U.S. Environmental Protection Agency (EPA) today announced more than \$2 million to 25 small businesses nationwide to develop new environmental technologies that will help protect people's health and the environment.

EPA's Small Business Innovation Research (SBIR) program funds innovative research resulting in new commercial products, processes and services that protect the environment, benefit the public, and promote the growth of small businesses. This year's projects focus on drinking water, wastewater, manufacturing, green building, waste monitoring and management, air quality, sustainable use of biomass and homeland security.

"Over the past 30 years, EPA's SBIR program has funded over 900 small businesses that develop unique environmental technologies," said Lek Kadeli, principal deputy assistant administrator for EPA's Office of Research and Development. "This funding opportunity allows these companies to help protect public health and the environment through innovative technology and more sustainable solutions while creating jobs and increasing economic competitiveness."

Each of the 25 companies will receive an SBIR Phase I contract of up to \$80,000 to further develop their technology over the next six months.

Once the project has been demonstrated to be commercially viable, then companies are eligible to compete for a Phase II award of up to \$300,000 to commercialize their technology. To be eligible to participate in the SBIR program, a company must be an organized for-profit U.S. business, and have fewer than 500 employees.

More information on the SBIR Phase I recipients:

<http://epa.gov/ncer/sbir/13awards>

More information on EPA's SBIR program: www.epa.gov/ncer/sbir

More information on the SBIR program: <http://www.sbir.gov/>

ARCSEA Congratulates the Newest Professional Designation Recipients!

Accredited Professionals

Matt Crawford
Brent Helm
Edward Lichner
Jacques Rochat
Mike Sutton

Inspection Specialist

Brent Helm

Accredited Associate

Michael Alberson
Sherry Lee Bryan
Kevin Dugan

Quality Control Steel Donates Rainwater Harvesting System to Africa

In many places, water conservation is becoming one of the most important environmental issues of the 21st century. As a part of our commitment to the environment, Quality Control Steel has donated a 1 million gallon corrugated steel rainwater harvesting system in Africa. The Quality Control Steel donated tank uses 37,000 square feet of roof that can collect about 30,200 gallons of water for every inch of rain. A

variety of cisterns are now commercially available from Quality Control Steel that are perfectly suited for residential or commercial use. Kit packages start at 5,000 - 65,000 gallons.

www.qualitycontrolsteel.com

The design of your rainwater harvesting system should take into account how much water you will use. Take advantage of low flow plumbing fixtures and water-wise irrigation practices to extend your rainwater holdings. One inch of rain on one square foot of catchment area yields 0.62 gallons. To calculate how much rainwater you can catch each year, multiply the square footage of your roof catchment area by 0.62 gallons by the average rainfall. If your system is not 100 percent efficient at catching the rain, you may want to take this into account in your equation. To determine your daily allotment, divide this figure by 365 days per year. When considering the possibility of drought conditions, cut this figure in half.

Quality Control Steel will help educate you during, before and after your project to ensure you are harvesting the rain properly. For more educational, promotional and product information please contact Quality Control Steel anytime.

.. Professional Development ..

Missed an ARCSA Webinar?

Purchase Archived Webinars in the ARCSA Store

ARCSA has archived past webinars in our online store for your convenience. These are available at a cost of \$20 each.

[View and purchase webinars here>>](#)

ARCSA Workshop

ARCSA Accredited Professional (AP) Workshop



ARCSA's "Accredited Professional" Workshop is a two-day, in-depth rainwater harvesting course required for those seeking ARCSA Accredited Professional (AP) status.

This course provides attendees with knowledge for rainwater harvesting design and installation for both outdoor and in-home rainwater use;

sanitation for potable uses; rules and regulations, guidelines and restrictions; business management; project planning; site and installation safety; and system construction and maintenance.

The course will follow the Texas A&M University "Rainwater Harvesting Planning" manual, which is included in the cost. Morning Coffee and Lunch provided.

June 24, 2013 - June 25, 2013

8:30 AM CST - 5:00 PM CST

**Texas A&M AgriLife Research and Extension Center at Dallas
Building C Classroom 17360 Coit Road Dallas, Texas 75252**

For more information and to register, please click [here](#).

ARCSA Workshop

ARCSA RWHDC Rainwater Harvesting Design & Construction Workshop



ARCSA's Rainwater Harvesting Design and Construction Workshops (RWHDCW) are open to the public, or any industry professional looking to learn more about rainwater harvesting. For anyone seeking the ARCSA Masters Professional designation, this course is a requirement.

The RWHDCWs are two day courses designed to give attendees a chance to put their knowledge into practice in designing and constructing an active rainwater collection system.

Participants will develop a design plan, site plan, calculate sizing and material to use, and then following through with the step-by-step construction of one or more complete systems by the end of the 2 days.

June 26 - 27, 2013

8:30 AM CST - 5:00 PM CST

**Texas A&M AgriLife Research and Extension Center at Dallas
Building C Classroom 17360 Coit Road Dallas, Texas 75252**

For more information and to register, please click [here](#).

ARCSA Workshop

ARCSA IS Inspector Specialist Workshop



This class is intended to give AP (Accredited Professionals) additional training to be able to confidently inspect Rainfall Catchment systems for integrity, Safety, and use of best practices as taught in the AP curriculum.

June 28, 2013

8:30 AM CST - 5:00 PM CST

**Texas A&M AgriLife Research and Extension Center at Dallas
Building C Classroom 17360 Coit Road Dallas, Texas 75252**

For more information and to register, please click [here](#).

RWH Workshops and Accreditation Courses 2013 Workshop Schedule

CITY	COURSES	DATES
Dallas, TX	AP, RWHDC, IS	June 24 - 28
San Diego, CA	AP	June 22 - 23
Honolulu, HI	AP	Aug 19 - 20
Austin, TX	Annual Conference	Nov 5 - 7

*IRC - Intro to Rainwater Catchment, CA - Certified Associate,
AP - Accredited Professional, RWHDC - Rainwater Harvesting Design & Construction,
IS - Inspector Specialist, RWHM - Rainwater Harvesting Master*

If you are interested in hosting or sponsoring an ARCSA workshop, please contact the ARCSA Education Coordinator at education@arcsa.org

.. ARCSA on the Move ..

Not an ARCSA Member?

Try a FREE 30 Day Trial Membership

Not sure if ARCSA Membership is right for you?
We are now offering a **FREE 30 Day Trial Membership**, allowing you to view our Members Only website and decide for yourself!



[Start your FREE 30 Day Trial Membership today>>](#)

MEMBER BENEFIT: The Discussion Forum is Back! ARCSA Members Can Post Questions & Comments

ARCSA's members-only Discussion Forum is loaded with information, is *the* place to ask a question of the experts, and for the expert members to provide advice. The questions and answers are both monitored to maintain high quality discourse.

How do you access the Discussion Forum?

- 1) ARCSA Members - Log in at arcsa.org
- 2) In the Member Service Menu, click on the "Discussion Forum" tab.

There are currently three Forums and many topics within those forums:

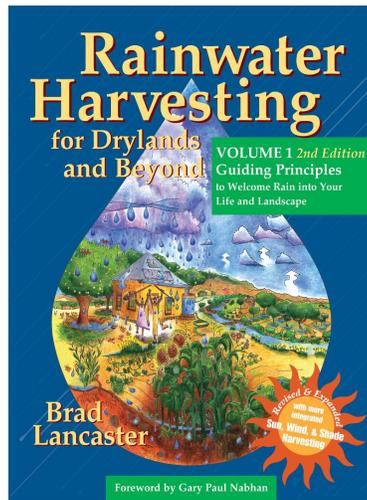
- What's Your Opinion? - *Facts & views on rainwater subjects*
- Rainwater System Design, Products & Services - *Find solutions*
- How Can We Improve ARCSA - *Help to make ARCSA a better organization*

The Discussion Forum is a framework for monitored, professional dialogue and debate. After your entry is posted, the administrator will either respond or find an expert to weigh in on your question or comment.

Make sure to click on the red "RSS" tab if you want to be notified of new posts.

Newly Expanded Edition of Rainwater Harvesting for Drylands and Beyond Just Released

Brad Lancaster, ARCSA member, has released the revised and expanded 2nd edition of Rainwater Harvesting for Drylands and



Beyond, Volume 1.

This new edition includes:

- Over 120 new images, revisions of over 40 illustrations, for a total of over 280 figures
- Over 100 pages of new information
- More tools for integrating the harvest and enhancement of multiple, free on-site resources, such as wind, sun, shade, and soil fertility, in addition to water
- Completely renovated approach to seeing, understanding, and working with combined flows of water and sediment
- An appendix describing the Water-Energy-

Carbon Nexus, the myriad connections between these inputs and outputs, and how you can determine your lowest energy consuming, water consuming, and carbon emitting sources of water, energy and more

- Expanded and updated case studies that will inspire you to plant the rain and grow abundance!

Available at www.HarvestingRainwater.com, Chelsea Green Publishing, and any bookstore.

ARCSA Members Join a Committee!



Interested in joining an ARCSA Committee?

Contact the committee representative for the particular committee you are interested in:

- **Educational Committee** - Contact Tim Pope at water@interisland.net
- **Legislative Committee** - This committee needs leadership.

Contact Heather Kinkade at heather.kinkade@arcsa.org if you are interested

- **Conference Committee** - Contact Russ Jackson at russ@rainharvest.com
- **E-news for Certified & Accredited Professionals** - Contact Eddie Craig at epcraig@msn.com
- **Vendor Webinars** - Contact Jack Holmgreen at jholmgreen@sparkletap.com

If you would like to start a new committee, please contact info@arcsa.org.



**AMERICAN RAINWATER CATCHMENT
SYSTEMS ASSOCIATION**

American Rainwater Catchment Systems Association

Phone (512) 617.6528 Email info@arcsa.org Web www.arcsa.org

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