

# The Blooming Bell

**November 2016**



**Bell County  
Master Gardener  
Association**



Sphinx Moth Caterpillar  
taken by Karen Colwick.  
See story on  
page 4.

Page 2 photo by  
Randy Brown at  
the Dallas Arbo-  
retum.

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Sun	Mon	Tue	Wed	Thu	Fri	Sat
		<b>1</b>	<b>2 Work Day 8 am*</b> <b>Burger</b> <b>Wednesday 10:30 am</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>6</b>	<b>7</b>  	<b>8</b>	<b>9 Work Day 8 am*</b> <b>General Meeting at 9:30 am</b>  <b>Social time is at 9 am</b>  <b>Education time at Homestead Farm leaving Extension at 10:30</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>13</b>	<b>14</b>	<b>15</b>	<b>16 Work Day 8 am*</b> <b>Water Symposium</b>	<b>17</b>	<b>18</b>	<b>19</b>
<b>20</b>	<b>21</b>	<b>22</b>	<b>23 Work Day 8 am*</b>	<b>24</b> 	<b>25</b>	<b>26</b>
<b>27</b>	<b>28</b>	<b>29</b>	<b>30 BOD Meeting 9 am for Nov. and Dec. State Awards Meeting to follow</b>			

**Upcoming events:** Blackland Income Growth Conference, December 13-14, 2016, Waco, to include Horticulture information for gardeners. December 2, Christmas Party

\* in the event of rain, there will be NO Workday. 2 Remember to record volunteer/education hours.

# The President's Corner

Well another month is gone and we are moving into the fall season, though you would not know it from the weather. Several things going on this month, first the General membership meeting will be at 9:30 one hour earlier with social gathering at 9 AM. The earlier time is so that we can carpool to Elm Mott to visit the Heritage Farm complex for our education portion of the meeting. Next is the water symposium on the 16<sup>th</sup> at the A&M campus in Killeen. Call the Clearwater Underground Water Conservation District to let them know you are going to attend. We are also trying to schedule a visit to the Prairie Haynes Boys and Girls Ranch to see what they are planning for a garden. Jan George should be sending out an e-mail with the details. And lastly remember the combined Nov./Dec. Board of Directors meeting is at 9 AM on the 30<sup>th</sup>.

Thanks to all for your hard work for the organization.

- Gary

## Superstar Training

- Walter Ponder

I attended the Texas Superstar Training held at the San Antonio Botanical Garden in September. The photo is of Master Gardeners from several different counties.



**CHECK OUT BCMGA FACEBOOK  
PAGE! GO TO**

<https://www.facebook.com/BCMGA>

# Caterpillars Everywhere!

## Poisonous Caterpillars

- Karen Colwick

I found an Io moth caterpillar (*Automeris io*) on my roses (right photo). They are poisonous, but pretty. I barely touched the edge and burned for more than 5 minutes. Can cause severe reaction.

I also found the most poisonous caterpillar in this area which is the Puss Moth caterpillar, also called the Southern Flannel Moth caterpillar, (*Megalopyge opercularis*). I found it on a walk through my yard on the Texas Star Hibiscus. According to Michael Merchant, Ph.D., Professor and Extension Urban Entomologist at TAMU, "when a puss moth caterpillar rubs or is pressed against skin, venomous hairs stick into the skin causing a severe burning sensation and rash. An ice pack should be applied to the site of the sting, and oral antihistamines can be administered to help relieve the itching and burning sensations. For caterpillars with stout spines (such as Io moth and saddle-back caterpillar), try carefully applying cellophane tape to, and stripping it from, the sting site. This helps remove the irritating spines. For allergic reactions, such as generalized itching or difficulty breathing, see

a physician immediately. For severe pain physicians sometimes administer meperidine HCl, morphine, or codeine; aspirin is reportedly not effective. Eye injuries should also be referred to a specialist immediately."



Friendly but hungry sphinx moth caterpillar (*Eumorpha*) on Penta's.

These caterpillars go through 5 instars where they morph slowly into a different looking caterpillar. This caterpillar is probably in it's 5th and last instar.

Photos of caterpillars by Karen Colwick. Photos of moths from: [entnemdept.ufl.edu/Creatures/MISC/MOTHS/puss.htm](http://entnemdept.ufl.edu/Creatures/MISC/MOTHS/puss.htm)

Caterpillars Everywhere continued on next page...



# Caterpillars Everywhere!

## A Little Help From Our Friends

- Terrie Hahn

I found this photo posted by Patricia Sauve on the face book page, *Gardening 101 in Central Texas*.

“Meet the Braconidae, a wasp family that is a friend to the home gardener. The female wasp uses her ovipositor to lay eggs just under the skin of an unlucky hornworm. As the eggs hatch, the larvae feed on the hornworm’s viscera, literally eating a hornworm alive. Larvae chew their way out through the host’s skin when they mature. Individual species tend to be specialized to a particular host. A good example is the *Cotesia congregatus* (older name, *Apanteles congregatus*). Less than 1/8 inch long, black with yellowish legs and clear wings, this tiny wasp considers the tobacco hornworm (*Manduca sexta*) and the tomato hornworm (*Manduca quinquemaculata*) meals on wheels. So, if you see a bright green hornworm carrying what looks like a clutch of white-colored insect eggs on its back, leave it there! The hornworm is not only feeding its own destruction, it is also carrying potential destroyers of hornworm brothers, sisters and descendants. That means we get those wonderful, luscious tomatoes right off the vine, the braconids get a meal and a future, and the hornworms get GONE!” according to Galveston MG, Betty Gray on the website: [http://aggie-horticulture.tamu.edu/galveston/beneficial/beneficial-04\\_braconid\\_wasp\\_on\\_hornworm.htm](http://aggie-horticulture.tamu.edu/galveston/beneficial/beneficial-04_braconid_wasp_on_hornworm.htm)



## You Won't Rue the Day

- Elaine Passman

Black Swallowtail caterpillars feast on the Rue plant in my backyard. They'll eat the Rue down, but it will come back, and I'll have lots of Swallowtail butterflies.



# Speaking of Caterpillars...

...Mary Lew Quesinberry found this Monarch Butterfly on her White Mist Flower (Wright's Boneset), and Betty Nejtek sent a photo of a Gulf Fritillary Butterfly on the Passionflower Vine off her deck.



Photos by Mary Lew Quesinberry and Betty Nejtek.

## Q & A

- Carol Runyan

Can someone help identify the white flowers? They are bulbs that bloom at this time of year (Sept-Oct). During the hot summer, they disappear. Years ago a member brought some bulbs to class to give away and I took some.

Photo by Carol Runyan



# The Veggie Guy

- Wayne Schirner

## Veggies

Cooler temperatures arrive this month and we will probably have the first frost of the year by the end of the month. There are lots of web sites that list the first frost date for various cities. The Farmer's Almanac says that there is a 50% probability that our first frost will be on November 22. Another site gave ranges that may be useful: Each winter, on average, our risk of frost is from November 21 through March 11. Almost certainly, however, we will receive frost from December 13 through February 18. We are almost guaranteed that we will not get frost from March 31 through October 31. Looking at ranges is better for crops that are especially frost sensitive, rather than counting on a specific date. When looking for this information in printed books or frost maps, pay attention to the date of publication. I am more inclined to pay attention to something published in the last decade than something published three decades ago. I do believe in climate change, I just don't believe it is influenced much by man. Whatever you decide to use, use that information to help plan when you need to harvest any remaining warm season crops or plant cool season crops. If you want to push the envelope on your warm season crops, make sure you have some frost cloth that you can place around your crops on short notice. Row covers come in a variety of choices and ranges of temperature protection. Plastic covers can be used, but they tend to be heavy so they must have a support system to avoid crushing the plants. Floating row covers are lighter and can simply be draped across the plants but they don't provide as many degrees of protection. Having said that, even 2-3 degrees of protection for a day or two may make the difference in trying to keep a crop going another 2-3 weeks.

When that first frost arrives, most warm season plants will be finished. Hopefully you picked any remaining tomatoes and green beans before that date. After harvest, pull out the plants and then add compost to your soil and work it in the top 1-2 inches to prepare for planting next spring (January for zone 8.) If the pulled plants are disease free, put them in your com-

post pile. If you were plagued with end of season diseases or insects, those plants are probably better left out of your compost pile. In November, we should also begin harvesting the cool season crops we planted in October. Don't forget that without rain, the vegetable garden still needs water this time of year. It is also recommended to fertilize now. As the soil cools down, microbial activity slows, and so does the release of nutrients from the organic matter in the soil.

Harvest broccoli when the heads are full sized and still tight, but don't pull up the plants, as they will make more side shoots for an extended harvest. You can cut lettuce plants a few inches above the soil and leave them to re-sprout new foliage for another harvest. Watch for caterpillars and aphids on tender new growth, and be ready to treat with Bt (caterpillars) or insecticidal soap (aphids.)

There is still time to plant perennial herbs early in the month, giving them time to establish roots and prepare for colder weather ahead. If you have been dreaming about a new herb garden, now is the time to get it started.

Even if you aren't going to plant anything in your garden now, January is the beginning of the spring planting season for our growing zone. Look through those seed catalogs you have been collecting and plan to grow something new next year.

One last thing, leaf season is here. Those leaves contain about 75% of the nutrients that the trees took up during the season. Now they are just lying around, waiting to be picked up and stockpiled for mulching or composting. Think of them as free, organic, slow-release fertilizer. Don't let them leave your property!! Or, do what I do. I let the leaves on my property stay in place to decompose and simply pick up the bags of leaves placed curbside by many neighbors. They have done the hard work and I get the rewards.

# Wizzie's Wonderful World of Insects

## Monarchs & OE

- Wizzie Brown, Travis County AgriLife Extension Entomologist

The protozoan parasite *Ophryocystis elektroscirrha* (OE) infects monarch and queen butterflies. It is an obligate parasite and requires a host to live within and to grow and multiply. It was first discovered in the 1960's infecting monarchs in Florida. Since then, it's been found in monarch populations across the world. It is thought that the parasite has co-evolved with monarchs.



There are three major populations of monarchs in the United States- one east of the Rocky Mountains that winters in Central Mexico and migrate north into the US and Canada; another west of

the Rocky mountains that overwinters on the coast of California; the third population are non-migratory and can breed year round in areas such as Florida, Texas and Hawaii. All three populations are infected with OE.

Monarchs infected with OE will have spores wedged between the scales on their body, with the greatest concentration usually occurring on the abdomen. The spores are very small and require a microscope to see. The spores are lemon shaped and are brown to black in color. To check for spores, rub a piece of clear tape on the tip of the abdomen of the monarch and then look for spores under a microscope.

Female monarchs pass OE spores onto their offspring when they lay eggs. When the caterpillars emerge from the egg, they eat the egg shell and ingest the spores. When the spores reach the midgut of the insect, they break open and release the protozoan parasite. The protozoans move through the gut lining to the epidermis where they reproduce asexually (divides multiple times increasing the number of protozoans). In the butterfly chrysalis stage, the protozo-

ans go through sexual reproduction (again increasing the number of protozoans). Spores form so the emerging butterfly will be covered in spores. Spores can also be scattered onto milkweed from butterflies laying eggs or feeding on nectar and then consumed by caterpillars as they eat foliage.

Once the butterflies are infected, they do not recover. OE does not grow or reproduce on the adults. The spores remain dormant until they are ingested by a caterpillar.

Infected pupae have dark blotches 2-3 days before emergence. Adults that are heavily infected often have problems emerging from the chrysalis. Some may even die before emerging. Others that do emerge may fall to the ground before their wings are expanded and die quickly. Mildly infected adults may be smaller than healthy adults. The parasites can damage the cuticle of the insect and cause the insect to lose weight faster. Many infected monarchs look healthy, so the only way to determine infection is by looking for spores.

What can you do? Check monarchs for spores and destroy any you find that are infected. I know this seems harsh, but infected monarchs further spread the protozoa and kill more butterflies in later generations. Cut down milkweed several times per year to get rid of any possible spores that may be on the plants and to encourage new, healthy growth.

For more information or help with identification, contact Wizzie Brown, Texas A&M AgriLife Extension Service Program Specialist at 512.854.9600. Check out my blog at [www.urban-ipm.blogspot.com](http://www.urban-ipm.blogspot.com)

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# A Visit to the Dallas Botanical Garden

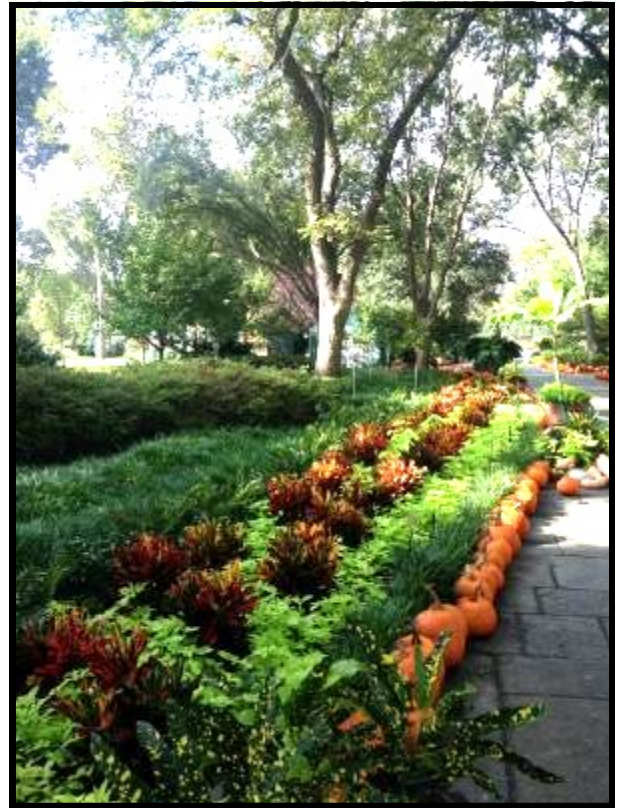
- Randy Brown

We visited the Dallas Botanical Garden's Fall Pumpkin Festival in early October. The test beds were particularly interesting. And they've used corn cobs and husks in some of their pumpkin displays this year.



Continued on next page...

# Botanical Gardens...continued



Photos by Randy Brown



# MG's Participate in Fundraiser

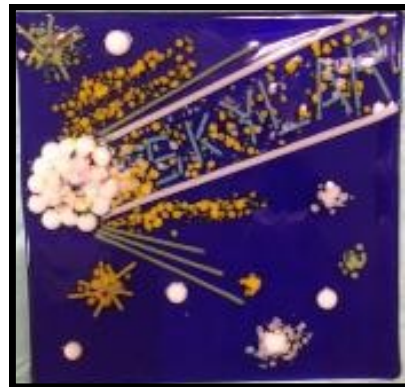
- Terrie Hahn

Nearly a dozen Bell County Master Gardeners and former Master Gardeners participated in a fund raiser at That Art Place in Belton for the Luekemia and Lymphoma Society. MG, Diane Calderwood organized the event in memory of her niece, Jennifer. The event raised \$2,500. That Art Place is a come and go art creation studio where the whole family can come and create fused glass pieces or ceramic pieces. We made fused glass tiles or bowls.

Photos by Gail Christian, Karen Colwick, Jeanne Richard and Terrie Hahn



Above: Karen Col-



wick's bluebonnet tile and Gail Christian's sunflower tile; left, Terrie Hahn's comet in space tile and left below, Jeanne Richard's sunflower bowl.



# Announcements

## Grounds Workdays

### - Walter Ponder

Here is the Workday schedule for October:

- 8 a.m. November 2, 2016 Workday
- 10:30 a.m. November 2, 2016 Burger Wednesday
- 8 a.m. November 9, 2016 Workday
- 8 a.m. November 16, 2016 Workday
- 8 a.m. November 23, 2016 Workday

## October Meeting

### - Mary Ann Everett

For November, instead of having an on site speaker, we will travel to Elm Mott, northwest of Waco, and visit Heritage Farm. We'll visit their vegetable garden, orchard and vineyard, aquaponics greenhouse, and herb garden, and any thing else you want to see.

Gathering in the Education Building will begin at 9:00 a.m. **(back to the early time)**. Meeting will begin at 9:30 a.m. Any business items will be discussed. **Time of departure 10:30 a.m.**

We will carpool to Elm Mott. So far there are 20 master gardeners signed up. Anyone who would like to come, please join us. We can eat lunch at the Farm.

This will count as 2 hours of education, if you stay on site for 2 hours.

## Reminder- Elections

### - Louann Hight

Elections for vacant Board and Director positions will be held during the November General Membership Meeting at 9:30 a.m., November 9th. The proposed nominee slate is:

#### 2017/2018 Nominee Slate

Executive Committee and Directors to be elected

TERMS END 12/2018

President	Wayne Schirner
2ND Vice President	Louann Hight
Recording Secretary	Stayce Parry
New Class-membership Chair	Fran Sheppard
Outreach Director/s	Jan Upchurch & Carol Morisset
Land Scape Director/s	Johnnie Jones/Tom Rennels
Killeen Gardens Director	Edie Campbell

#### TERM ENDS 12/2017

\*Corresponding Secretary Pat Allen

\* Board decided to hold over her position for one year, so all the positions are staggered as outlined in the ByLaws.

# Announcements



## Christmas Party Info

Christmas Party...Friday, December 2...in the Special Events Room...Bell County Expo Center. We'll begin gathering at 6:00 pm; dinner will be served at 6:30 pm. We will be collecting items for The Friends in Crisis Homeless Shelter, Families in Crisis, and KISD Community Clothes Closet – the tubs are at the Extension Center, but will also be in the Special Events Room the night of our Christmas Party. Be generous, Master Gardeners, and let's fill up those tubs! See the October Blooming Bell for a list of needed items.

## Silent Auction

### - Mary Ann Everett

The BCMGA Christmas party is right around the corner. We are looking for items for our silent auction. If you have any new or slightly used items that we could use in the auction, please bring them to the November 9 monthly meeting. Thank you for your support.

The silent auction committee:

Mary Ann Everett, Elaine Passman, Betty Nejtek, Jo Carlsen

## Dinner

### - Jan George

Just a reminder: Our Christmas party is just around the corner! For those of you that haven't signed up yet, Joan and I will be at the next general membership meeting to sign you up. The price is \$15 per person until Nov 9. After that the price will go to \$25. If you can't make it to the meeting, you can mail it to me at PO Box 882, Florence, Tx. 76527. Be sure to indicate a turkey meal or ham meal if you are mailing your registration. There will be a silent auction. If you have something to donate, see Mary Ann Everett. Hope to see you at the party!

Thanks,

Jan George, Joan Bumgarner

## Taking Care of Business

- Bernie Hurta

## Emergency Contact Numbers

At the September and October Monthly Meetings, I started a file for emergency contact numbers. If you didn't fill out a card for me, please send me the information and I will make a card for you. If a Master Gardener became ill while at the Extension office, we have no way of contacting family. The information I need is:

- Your Name
- The name of the person or persons to contact
- And phone number(s), preferably cell phone numbers

This information is in a black box on the shelf in our MG office. Thank You!

## New Class Committee Meeting

The New Class Committee Meeting will be **Wednesday, December 7<sup>th</sup> at 9:30.**

The purpose of the meeting is to get ready for the January 4<sup>th</sup> Orientation. Any questions, please contact Mary Ann Everett or Bernie Hurta.

## State Awards Meeting

The State Awards meeting will take place after the Board of Directors meeting on November 30<sup>th</sup>. It will start around 10:30-10:45. The categories are Youth, Project, Educational Program, Written Education, Research, Marva Beck JMG Leader of the Year, Outstanding Individual Master Gardener, and Outstanding Master Gardener Association. ***Anyone interested in completing an entry on any of these categories, please attend the November 30<sup>th</sup> meeting.*** We must decide the entry writers before January 1<sup>st</sup>. Please don't be afraid to complete an entry, we help each other. The deadline for the entry is the end of January. Questions, please contact Bernie Hurta at [bhurta@gmail.com](mailto:bhurta@gmail.com).

# FYI

## 26TH ANNUAL FALL FESTIVAL OF ROSES

The Antique Rose Emporium is having their Fall Festival on **11-04-2016 - 11-06-2016**. This event is FREE and open to the public. No registration required.

**Location: 10,000 FM 50, BRENHAM, TEXAS**

### November 4, 2016

11:00AM "Rooting Made Easy" - Glenn Schroeter will hold a workshop on propagating your own roses. Glenn is the propagation manager for The Antique Rose Emporium.

1:30PM "A Perfect Texas Garden: Choosing the Winning Plant Palette for Gardening Success- Robbi Daves Will details the Perennials, Bulbs, and Roses that give the maximum reward in the Landscape. Robbi is in charge of outside sales for The Antique Rose Emporium.

### November 5, 2016

10:00AM "Lessons from Houston's Green Renaissance"- Molly Glentzer shares some of the best ideas she has observed in writing extensively about Houston's park redesigns for the Houston Chronicle, where she has been on staff since 1988. Molly, who gardens in Brenham, is also the author of Pink Ladies & Crimson Gents: Portraits and Legends of 50 Roses.

11:15AM "Texas Rose Rustlers" - Dr. William Welch, Professor and Landscape Horticulturist at Texas A&M University. He attended Southwestern University at Georgetown Texas for two years prior to going to Louisiana State University where he received an undergraduate degree in Landscape Architecture and later his MS and doctorate in Horticulture and Extension Education. Dr. Welch writes about gardening in Texas and the South.

1:30PM "Hold the Hose! How to Design a Water-Saving Garden that Wows" - Pam Penick shares her top tips for making a water-wise, beautiful garden.

Pam, a designer and gardener in Austin, is the author of two books, The Water-Saving Garden and Lawn Gone!, as well as the popular blog Digging. She'll be signing and selling her books after her talk.

3:00PM "Cutting Edge Roses" -Mike Shoup, Owner of The Antique Rose Emporium and author of "The Empress of the Garden"

3:30PM "My Life as a Rustler" -Greg Grant, horticulturist, naturalist, Garden writer, plant developer and really nice guy. Greg lives and gardens at his great grandparent's home place in East Texas. Greg's plant knowledge marries heirlooms and new varieties seamlessly.

### November 6, 2016

11:00AM Growing Fields Tour with Mike Shoup  
-Fields of Roses  
-Propagation House  
-Aerobic Compost Tea

FREE COME & GO EVENTS

GALLERY OF FRAGRANT ROSES

FOOD TRUCK ON GROUNDS, FRIDAY & SATURDAY

979-836-5548

**Blackland Income Growth Conference  
 Horticulture Program**



**Tuesday, December 13**  
**Waco Convention Center 100 Washington Ave., Waco, TX**  
**3 TDA CEUs—TNLA CEUs—Texas Master Gardener CEUs**

**8:45 a.m. – 9:45 a.m.**  
 Soil Health; Willie Durham; USDA  
**9:45 a.m. – 10 a.m. - Break**  
**10 a.m. – 11 a.m.**  
 Grapes; Justin Scheiner; TAMU  
**11 a.m. – 12 noon**  
 Safer Salads; Sujata Sirsat;  
**12 noon – 1:30 p.m.—Lunch**  
**1:30 p.m. – 2:30 p.m.**  
 Irrigation; Charles Swanson;  
**2:30 p.m. – 2:45 p.m.—Break**  
**2:45 p.m. – 3:45 p.m.**  
 Plant Pathology; Dr. Ong;  
**3:45 p.m. – 4:45 p.m.**  
 Organics vs. traditional fertilizer; Tim Hartmann:  
**5:30 p.m. - 6 p.m.—Light hors d'oeuvre**  
**6 p.m. - 8 p.m. Capstone Speaker**  
 Protecting Pollinators; Jerry Hayes, Monsanto

**Willie Durham**



**What We Know about Soil Health**  
 Durham is the Regional Soil Health Specialist for USDA and will address the new paradigms research has found in soil health.

**Justin Scheiner**



**Grapes in North Texas**  
 Dr. Scheiner is the Extension Viticulture Specialist and is conducting applied research on best management practices for vineyards in areas of Texas affected by Pierce's Disease.

**Sujata Sirsat**



**Farmers Market Food Safety**  
 Dr. Sujata Sirsat is an assistant professor at the University of Houston's Conrad N. Hilton College of Hotel and Restaurant Management. Dr. Sirsat will present her research on farmers market food safety conducted at the University of Houston. She will speak about foodborne illness and ways to prevent illness, specifically from a farmers' market standpoint. She will also cover her work on innovative technologies to improve

**Capstone Speaker**



**Jerry Hayes, is Monsanto's Bio-Direct business unit lead. Before joining Monsanto he was the Chief of the Apiary Section for the Florida Department of Agriculture and Consumer Services. For the past 30 years Jerry has written a monthly column in the American Bee Journal called The Classroom. He will highlight the importance of honey bees in particular to pollinator dependent ag, all ag, the environment and how 'we' being more aware of this importance can craft our business decisions to incorporate pollinators into the decision making process.**

**More information and registration details will be available after September 1 at:**

<http://stephenville.tamu.edu/blackland-income-growth>

**Charles Swanson**



**Trouble Shooting Irrigation Systems**  
 Swanson will share years of experience on trouble shooting issues that home owners can do before they call an irrigation specialist.

**Kevin Ong**



**Plant Pathology**  
 Dr. Ong will share what he is seeing at the plant lab that can help gardeners prepare for issues this spring plus highlight how the plant lab can help diagnose plant and soil issues.

**Tim Hartmann**



**Organic vs Traditional Fertilizer**  
 Hartmann is an Earth-Kind program specialist at AgriLife Extension. He will share the "science" from each camp in the fertilizer business so gardeners can make their own decision on what products to use based on science.

16th Annual  
**Bell County Water Symposium**  
"Showcasing Groundwater Management, Science & Education"  
November 16, 2015  
8:00 a.m.—4:30 p.m.

Location: Texas A&M University Central Texas, 1001 Leadership Place, Killeen

**AGENDA**

- 8:00 a.m. Registration**
- 8:30 a.m. Welcome & Introduction & Theme of the Day**  
*Leland Gersbach, Board President, Clearwater UWCD*
- 8:35 a.m. Understanding Groundwater Issues and Challenges Across the State**  
*Sarah Rountree Schlessinger, Exec. Director, Tx Alliance of Groundwater Conservation Districts*  
*Ty Embrey, Attorney, Lloyd Gosselink Rochelle and Townsend*
- 9:00 a.m. Clearwater UWCD "State of the District"**  
*Leland Gersbach, Board President, Clearwater UWCD*  
*Dirk Aaron, General Manager, Clearwater UWCD*
- 9:30 a.m. "Finding Balance between Regulation, Management and Property Rights in the Central Carrizo-Wilcox" Groundwater Management Showcase**  
*Gary Westbrook, General Manager, Post Oak Savannah Groundwater Conservation District*
- 10:00 a.m. 10 Minute Break**
- 10:20 a.m. "Understanding the Geology of the Aquifers for ASR"**  
*James Beach, P.G. Senior Vice-Pres., LBG-Guyton Associates*
- 10:45 a.m. Aquifer Storage and Recovery "Its State in the STATE"**  
*Matt Webb, Hydrologist, Texas Water Development Board*
- 11:15 a.m. Have You Met My Water Management Friend ASR?**  
*An Introduction to Aquifer Storage and Recovery in Texas*  
*Aaron Collier, Vice President, Collier Consulting Inc.*
- 11:45 a.m. Looking Closely at Aquifer Storage and Recovery for Central Texas**  
*Dr. June Wolfe, Associate Research Scientist, Texas A&M AgriLife Research/Extension*
- 12:15 Lunch Key Note Address "Youth Water Initiative for Texas, 4-H<sub>2</sub>O Ambassador Program"**  
*David Smith, 4-H<sub>2</sub>O Coordinator, Texas AgriLife Extension Service*  
*Sarah Hamm, Executive Director, Texas 4-H Foundation*
- 1:00 p.m. An Evolving Understanding of the Hosston Layer of the Trinity Aquifer**  
*Mike Keester, Senior Hydrogeologist, LBG-Guyton Associates*
- 1:30 p.m. "What We Now Know" Edwards BFZ Aquifer**  
*Dr. Joe Yelderman & Stephanie Wong, Baylor University*
- 2:15 p.m. Status of the Salado Salamander, Pete Diaz, Texas Fish & Wildlife Conservation Office**
- 2:45 p.m. Break**
- 3:00 p.m. Edwards Aquifer Geo-Chemistry Investigation: Chris Braun, US Geological Survey**
- 3:30 p.m. Evaluation: Natural Resource Extension Agent, Texas A&M AgriLife Extension**

You must call to register if you plan to attend. If you attend you can earn education hours. You may leave at any time, and obtain educate hours for the sessions you attend. It is always very interesting. It is at the A&M Campus in Killeen, HWY 190, Warrior Hall building, in the Multipurpose room. - Gail Christian

**Symposium Sponsors**

Clearwater UWCD  
LBG-Guyton Associates  
HALFF Associates  
Texas Well Owner Network

Lloyd Gosselink Attorneys at Law  
Bell County Engineers Office  
Texas A&M AgriLife Extension Service  
Baylor University, Department of Geology

For more information or to RSVP please contact Clearwater at 254-933-0120



# What's Happening in Your Yard

- Carol Runyan

I just wanted to share my "Aggie" iris that were so pretty this spring. I have discovered that my Georgetown Tea Rose is unable to read. The book says it grows to the height of 3 – 5 feet! My schoolhouse lilies or oxblood lilies appeared right on time in late September. The rest of the year you don't even know they are there. My "Taos Annie" road runner enjoys "running" through the golden lantana.



# What's Happening in Your Yard



## Oranges Ripening!

- Walter Ponder

Some of my ripening mandarin oranges. I have had the tree about 4 years. I planted in the ground almost two years ago.

## Blooming in My Yard

- Randy Brown



# *What's Happening in Your Yard*

- Terrie Hahn

Below are some of our Zinnia's with Asters in the background. And a pumpkin I hollowed out and used as a planter as an experimental decoration. The pumpkin started to get soft within a week, but after two weeks is still intact. I'll have to take the plants out and plant them soon. I read that if you plant just one large plant, like a chrysanthemum, into a pumpkin, you can plant the whole thing in the ground when the pumpkin starts to decompose and it will fertilize the plant. The bottom photo shows our Forsythia sage going crazy, kalanchoes are planted on the other side of the pathway.



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## Contributing Writers and Photographers:

Gary Slanga  
Karen Colwick  
Wayne Schirner  
Wizzie Brown  
Randy Brown  
Walter Ponder  
Gail Christian  
Elaine Passman  
Mary Lew Quesinberry  
Betty Nejteck  
Carol Runyan  
Bernie Hurta  
Jan George  
Mary Ann Everett  
Jeanne Richard  
Louann Hight  
Joan Bumgarner  
Terrie Hahn

## Editor:

Terrie Hahn

## Proofreader:

Werner Hahn

*Please submit articles for the Blooming Bell as Word Documents with **photos separate as JPG files** to Terrie Hahn at:*

**moompie45@hotmail.com**  
**Please do not send PDF documents.**

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1605 N. Main St.  
Belton, Texas 76513  
(254) 933-5305



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