



# ROSARIAN

Volume 23, Issue 3

Summer, 2020

## Director' Message

Howdy,

My greeting reflects the Texas State Fair, which I will miss due to its cancellation. I am also missing all the Fall Rose Shows and getting together with my rosey friends. It looks like a wonderful year for our fall blooms. It's a shame we won't have any shows. To step into the gap, the Houston and Dallas Rose Societies will host virtual rose shows. They have graciously invited all to participate. While these show are not ARS shows, they will showcase our beautiful blooms. I urge you to participate in both.

During the summer, the National Consulting Rosarian Chairs, Gerry and Dave Mahoney, conducted training via GoToMeeting and GoToWebinar primarily to train new CRs, but the sessions were open to all. This was a totally new venture on the ARS's part. I applaud all who participated and were open to testing a previously untried process. I attended the Chemical Safety Session conducted by Bob Martin. It was terrific! And I have one-hour credit towards recertification.

Congratulations to the following who attended all 5 one-hour sessions and passed the CR test with flying colors:

Andy Black	Dallas Rose Society
Maureen O'Hanahan	Dallas Rose Society
Pam Smith	Dallas Rose Society
Maggie Zamora	Houston Rose Society

We are proud and grateful to have four new Consulting Rosarians within the South Central District! Please offer your congratulations when you see them.

We will have the annual South Central District meeting on Saturday, October 17 at 2:00 pm. The meeting will occur via GoToMeeting. See page 3 for the meeting invitation and detailed instructions. What I can share with you from personal experience is that it's easy. If I can do it, you can do it!

It's almost time to elect new officers for the SCD. ARS officer elections are on a three-year cycle. In June 2021, ARS members will vote for a Vice President, Regional Directors and District Directors. We will vote for the SCD officer slate in October, 2021. It seems like a long way off, and yet there are some processes that need to be

completed in January, 2021.

I have appointed Ilene Cook of the Dallas Rose Society as the Nominating Chair for the SCD. She will be approaching various SCD members in Arkansas, Oklahoma and Texas to join her as members of the Nominating Committee. Their work will be completed in spring. If you are considering running for Regional Director or District Director, let me know and I will forward the paperwork to you, which must be completed by January, 2021. I am told at this point no one has stepped forward to run for ARS Vice President. Why is this important? The Vice President serves a term of 3 years and then becomes the President for the next 3 years. If you have aspirations to become the Vice President and then President, I urge you to complete the paperwork pronto. If you are interested in one of the SCD Officer positions, please contact Ilene Cook ([cook2100@verizon.net](mailto:cook2100@verizon.net)). Throw you hat in the ring! It will be fun to serve!

Finally, Jim Herbison, Master Consulting Rosarian, and an extraordinary hybridizer, invites you to visit his rose garden this fall. Jim has over one thousand roses of which he hybridized. If you are looking for a nice safe, outdoor activity, take a road trip to Dallas. Jim's garden is beautiful! And you are welcome any time.

Gemini Peach and Rose Farm  
1301 Haggard Lane  
Denton, TX  
940-230-5422

After you finish in Denton, continue to Farmer's Branch to see their lovely David Austin garden and the four trial gardens. End your trip at the Dallas Arboretum to see the fabulous pumpkin village! If you have an ARS membership, your trip to the Dallas Arboretum is free under the reciprocal garden program. (Tip: bring your membership card and when asked about the ARS headquarters – it's Shreveport, Louisiana.)

Feel free to contact me if you any questions or concerns.

Yours in roses,

Debra

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# SCD Annual Membership Meeting

By Debra Bagley

Dear SCD Members,

The Covid-19 Pandemic has eliminated so many activities this year including our annual Rose Show and Convention. I think we will have great roses this year and it is such a shame we can't get together in person to enjoy them.

While we can't convene in person due to current restrictions, we will host an SCD Membership Meeting via a video conferencing application called GoToMeeting on October 17 at 2:00 pm CDT. At the meeting, the Board will update you about the SCD, honor SCD individuals, and hear about the latest from the ARS. You will also have the opportunity to ask questions and raise any issues.

Many of you may be familiar with GoToMeeting because the ARS has provided this tool. This tool has been used for local society Board Meetings, Member Meetings, and training provided by the ARS. We have a license that was donated to the SCD for our use.

If you have not had the opportunity to use GoToMeeting, it's easy! If I can do it; you can do it! Below are detailed instructions:

- Using your smart phone, tablet, laptop or desktop computer, download the GoToMeeting App. To make it easy for you, the download link is the last sentence in the invitation below these instructions. Do not sign up for the 30-day free trial or set up an account. You only need the app.
- Sign in approximately 5-minutes prior to the meeting start time. To sign in simply click the first link in the invitation. In the odd instance that you are prompted for an access code, it is: 939020772. (you can see it in the invitation below)
- Once you sign in, there is a preview screen. On the preview screen, you will turn on your mic and camera. These are two buttons either on the top or bottom of your screen. They look like a microphone and a video camera.
- Once you turn on your mic and camera, you are ready. Click the "Enter the Meeting" button.

If you do not have a smart phone, tablet, laptop or desk top computer, there is a phone in option within the invitation.

That's it! More instructions that you most likely need. I know you can do it because it's not hard. We promise to take no more than an hour of your time. So please join us. We are looking forward to seeing you!

## **Go To Meeting Invitation:**

SCD Annual Membership Meeting

Sat, Oct 17, 2020 2:00 PM - 3:00 PM (CDT)

Please join the meeting from your computer, tablet or smartphone.

<https://global.gotomeeting.com/join/939020773>

You can also dial in using your phone.

(For supported devices, tap a one-touch number below to join instantly.)

United States: +1 (408) 650-3123

- One-touch: <tel:+14086503123,,939020773#>

Access Code: 939-020-773

New to GoToMeeting? Get the app now and be ready when your first meeting starts:

<https://global.gotomeeting.com/install/939020773>

## The Dallas Rose Society

All the members of the South Central District are invited to join our virtual rose show this fall in lieu of the rose show we were to hold in conjunction with the South Central District. Our show is called *Time in the Garden*. It is open to everyone in your society and all are welcome to participate. Entries will be accepted from October 17 through October 31, 2020. Results will be published November 21, 2020.

Show rules are provided on the next page and entries will be entered at [dallasrosesociety.com](http://dallasrosesociety.com).

Although this is not an American Rose Society sanctioned event we will strive to uphold the quality and standards of such an event. Unmentioned criteria should still align with an ARS sanctioned show. If you have questions, feel free to reach out to our Show Chair, Andy Black, [wa.black@sbcglobal.net](mailto:wa.black@sbcglobal.net).

We are excited to have you join us and are looking forward to a wonderful virtual show.

We have purchased gift cards to the national rose suppliers listed below and they will be awarded by drawing from among the submitted entries (you just have to enter for a chance at winning).

### Gift Certificates:

David Austin

Rosemania

Rose Petals Nursery

Antique Rose Emporium

1 more nationally known supplier pending response

*Thank you in advance for your support!*

# DFW Virtual Rose Show

## *"Time in the Garden"*

Entries accepted (Sat, 10/17/20 to Sat, 10/31/20)

Results (Sat, 11/21/20)

### Show Rules:

1. All rose growing enthusiasts are encouraged to participate.
2. Although this is not an American Rose Society (ARS) sanctioned event we will strive to uphold the quality and standards of such event. Unmentioned criteria should still align with an ARS sanctioned show. For example, horticultural specimens should all have been grown by you in an outdoor garden. If you have questions feel free to reach out to our Show Chair, Andy Black, [wa.black@sbcglobal.net](mailto:wa.black@sbcglobal.net).
3. This is a rose show and not a photography contest. The quality of the rose is tantamount and the photography is the mode of presentation (The lone photography class #16 is an exception). Judging will be applied accordingly.
4. Entries will be accepted from Saturday, October 17 to Saturday, October 31.
5. Up to three entries will be allowed per class for the Horticulture Section (Classes 1-15) and the Photography Section (Class 1). Two entries will be allowed per class for the Arrangement Section (Classes 17-22), but must be substantially different (For example, mass arrangement versus a line arrangement in a traditional class.)
6. Entries
  - A. Entries need to be submitted by email with one entry class per email. Please use the provided email link on our website: [dal-lasrosesociety.com](http://dal-lasrosesociety.com)
  - B. Horticulture classes (1-15) please submit two photos, portrait format.
  - C. Photography Class (16) please submit one photo, landscape format
  - D. Arrangement Classes (17-22) please submit three photos, horizontal or vertical format.
  - E. The subject line of the email entry should include the class number and the name of the rose/s.
  - F. Each entry should include your name, address, and phone number
  - G. Entries should be from roses blooming during October 2020
  - H. More detail about photography requirements are below with the show schedule.
7. All rights to the submitted photographs are retained by the owners of the photographs. However, by submitting a photograph to the Dallas Rose Society, the exhibitor (1) warrants that he or she owns the copyright of the submitted photograph and is not legally prohibited from submitting it to the contest, and (2) agrees to allow the Dallas Rose Society to display your picture and use an image of it in its publications and on Facebook, etc.
8. Prizes. First Place winners in each class will receive a complimentary bingo card at our annual fundraiser, Rose Bingo. It is scheduled for Saturday, February 26, 2021. Also, gift cards to national rose suppliers will be given by drawing from the submitted entries (**you just have to enter for a chance at winning**).

## **Show Schedule and Photography Requirements**

### Horticulture

#### Photography Requirements:

- a. Submit 2 photos in portrait format
- b. First photo: image of the inflorescence from above to show the center or middle
- c. Second photo: image of the inflorescence from the side including the entire stem and foliage.
- d. Include the class number and variety name.

Class 1- Traditional Hybrid Tea or Grandiflora, One Bloom per stem

Class 2- Decorative Hybrid Tea or Grandiflora, One Bloom per Stem

Class 3- Hybrid Tea or Grandiflora Spray

Class 4- Floribunda Spray

Class 5- Hybrid Tea, Grandiflora, or Floribunda Fully Open

Class 6- Polyantha Spray

Class 7- Climbing Roses

Class 8- Classic Shrubs: Hybrid Musk, Hybrid Rugosa, Hybrid Moyesii, or Hybrid Kordeii

Class 9- Modern Shrubs

Class 10- Old Garden Roses

Class 11- Miniflora, One Bloom per stem

Class 12- Miniature , One Bloom per stem

Class 13- Miniflora or Miniature Fully Open, One Bloom per Stem

Class 14- Miniflora or Miniature Spray

Class 15- Seedling or Sport

#### **Photography**

##### Photography Requirements:

- a. Submit one photo in landscape format.
- b. The garden should be your personal rose garden.
- c. Please include class number. Rose varieties are not required for this class.

Class 16- Your Rose Garden View

#### **Arrangements**

##### Photography Requirements:

- a. Submit 3 photos
- b. First photo should include the entire arrangement in best applicable orientation format.
- c. Second photo should highlight one of more of the dominant roses (portrait format).
- d. Third photo should include an additional point of interest or detail (portrait format).
- e. Please include the class number and all rose varieties names.
- f. Also, in the email please indicate the arrangement style.

Class 17- Standard Size Traditional Design “A bountiful display”

Class 18- A Standard Size Modern Design “Thorns aplenty”

Class 19- A Standard Size East Asian Design “Water: the life blood of the garden”

Class 20- A Miniature Size Traditional Design “Dawn in the rose garden”

Class 21- A Miniature Size Modern Design “Weeding again, and again, and again”

Class 22- A Miniature Size East Asian Design “Solitude”

## Photography Tips

1. When taking the photos use high resolution for best image reproduction.
2. Most of the entered photos will be in the portrait (vertical format). Cropping into a 10:8 ratio before sending will aid our upload since it is the format ratio we will be using. Any landscape (horizontal format) would be 8:10 ratio.
3. In the horticultural classes use a clear or plain bud vase. All parts of the bloom stem should be in the photos, but minimal container appearance should be present.
4. Use of a neutral backdrop and table covering are encouraged to give the best representation of the specimen.
5. Be sure specimens are well lit for photography.
6. Minor editing of the photo is allowed such as corrective rotation or cropping. Any major photo editing is discouraged and will be penalized if egregious. The goal is a photo which accurately displays the real-life attributes of the specimens as if they were being seen in person.
7. For some additional photography tips, please feel free to view a slide show on Virtual Rose Show Photography by Starla Willis, Dallas County Master Gardener. A tab for viewing is located on our website under Virtual Rose Show. [Dallasrosesociety.com](http://Dallasrosesociety.com)

## Some Photography Examples



Horticulture specimen from side  
(needs better background)



Arrangement showing the entire piece



Arrangement showing close up of roses



## SCD Patron Program Dale Dardeau, SCD Deputy Director

The Patron Program is an integral part of the South Central District. The money generated from local members and local rose societies allows activities all over the district to happen. The yearly South Central District Convention and Rose Show receives seed money from the Patron fund as well as Horticultural and Arrangement Judging Schools and the SCD Consulting Rosarian School. These funds help with furnishing the trophies for the district show each year. With a contribution to the Patron program you also receive a quarterly district newsletter. With your initial payment, you will receive a beautiful Patron pin. Your contribution is tax deductible.

I would like to strongly encourage you to become a contributing Patron to help the South Central District to continue to be the leader in the ARS.

- Individual Patron \$25
- Family Patrons \$40
- Society Patron \$50

*We need you!*

**Mail dues to the District Treasurer, JoAnn Bradley, 8108 Quebec Drive, San Antonio, TX, 78239.**

### SOCIETY

- |                |                 |
|----------------|-----------------|
| Collin County  | Golden Triangle |
| Corpus Christi | Houston         |
| Dallas         | Red River       |
| Ft. Worth      | San Antonio     |

### FAMILY

- |                               |                          |
|-------------------------------|--------------------------|
| Ed & Jo Ann Bradley           | Dan Hertzler             |
| Donald Burger & Maria Trevino | Randy & Holly Hodgins    |
| Joe & Emilia Collins          | Vince & Dana Huerta      |
| Ken & Threasa Cotter          | David & Marion Koch      |
| Ralph & Gail Cooper           | James & Debbie Laperouse |
| Manning & Franka Correia      | Ron & Jan Shannon        |
| Clyde & Becky Davis           | Murray & Donna Warner    |
| Eddie & Minnie Garcia         |                          |
| John & Suzanne Gilbert        |                          |

### INDIVIDUAL

- |                   |                  |                |                   |
|-------------------|------------------|----------------|-------------------|
| Debra Bagley      | Jaime Elliott    | Linda McGhee   | Dennis Voss       |
| Randolph Blakeman | Katherine Harris | Allen Owings   | Meg Ware          |
| Sheryl Broussard  | Syble Jeffcoat   | Vanessa Sam    | Norma Whitehead   |
| Jackie Clark      | Janet Magee      | Jimmy Sanford  | Gerald Williamson |
| Dale Dardeau      | Anna Martinez    | Carol Shockley | Maggie Zamora     |





## **COVID-19 and Roses**

by Baxter Williams, ARS Director, Region 7

This pandemic is a terrible thing. It has compromised our health, our family members' health, our work schedules, our church services, our general day-to-day activities --- and we can't see smiles under those masks! The businesses are struggling, the hospitals are anxious, as are the teaching staff in our schools. What can we do? The easiest thing is to (a) wear masks, (b) stay distanced from others, and (c) wash hands.

But look at those roses! If they have been properly cared for, you should be seeing some good blooms in a few weeks. What is "proper care"? (a) Put "masks" on your roses by using good preventive and corrective fungicides --- for a rose to succeed it must have healthy foliage. When planting roses (b) give them the right "distance" from others, e.g., about 36 inches for hybrid teas. And (c) "wash their hands" with about an inch of water a day to keep them growing.

And how about your local rose society? If you aren't meeting in person these days, it is relatively simple to (a) conduct meetings using "GoToMeeting" or some other appropriate program (e.g., "ZOOM") to have everyone involved as a program is given --- we had almost 50 in the virtual group in August. For in-person meetings (b) insist that masks be worn and hands be cleansed upon entry to the meetings place; and please allow the proper distance between participants. And (c) teach attendees good rose horticulture so they can be happy with the results of their efforts in the rose beds.

Make plans! With the situation being what it is, now is the best time to reflect on what needs to be done. Not only for your own garden, but for your local society. Think of what could be done to improve both, i.e., new beds and varieties, new activities with respect to next year's events such as rose shows, garden tours, membership gains, product sales, nursery assistance days, hosting District events, encouraging rosarians to become Consulting Rosarians and Judges. Aim high, and plan to make significant gains. And have a great autumn!

## Around the District

Here is what has been going on around the District. Send me news and photos as you have them and I will include in the next issue. *Editor*

### Ft. Smith Rose Society, David Nichols, President



*Roses in Reiko Cothran garden.  
Don Juan and Clothilde Soupert  
climbers*



*Jim and Shoron Winn shared these pictures of roses from their garden. The Peace rose bush is 42 years old and it still blooms in stunning form!*



**Ft. Smith Rose Society**  
**David Nichols, President**

Due to the virus, our usual meeting place was shut down and unavailable for use by anyone. We have a lot of senior membership and trying to find suitable ways to meet were limited. However, as soon as I received the information for the district virtual rose displays and rose judging recently, it was forwarded to all members. I am hoping members will take this opportunity to enter the virtual show.

**Other news from us-**

Our member, Bud Cooksey, passed away. I am including this photo of the only time I had the pleasure of meeting and talking with Bud. This picture was from our 2019 Christmas dinner meeting and installation of officers he directed. He was indeed a wonderful, kind man who did so much more than I was aware of- for the Fort Smith community, our rose society, as well as in other towns where he was a resident. He also served our country in the Korean War. He loved gardening and was a ARS consulting rosarian. He was a very active person, even in retirement, always helping others. An example that made me smile was that Bud would drive Santa (on the fender) of his antique tractor in the Christmas parade, while Bud himself was also throwing candy to the kids. A huge heart that will be missed by Many. *Susan Padilla, Editor*





## Houston Rose Society Happenings

### Suzanne Gilbert, President

### October 2020

The advent of COVID-19 has changed the way the Houston Rose Society meets for board meetings, membership meetings and rose shows. The HRS purchased a GoToMeeting license through the American Rose Society and has been using it ever since. Our first virtual meeting in June was with Debra Bagley on cell phone photography. The attendance at our virtual meetings has grown monthly. At our September meeting, featuring Robbie Tucker and Gaye Hammond, we had fifty attendees from all over the country! Gaye will be back on October 8th presenting “The Fabulous Fragrant Roses of David Austin.” The HRS Board has also enjoyed the benefits of GoToMeeting. Instead of fighting Houston traffic to attend a board meeting, it is a short walk to the computer to log in.

Our members and exhibitors always look forward to the annual HRS Fall Rose Show. This year it is virtual and entitled *Rose Show from the Garden*. It is open to members and non-members of the Houston Rose Society and will be a non-ARS sanctioned rose show. Photos entered in the show should be taken in the exhibitor’s garden between October 18 and November 1, 2020. The show will roll out for public viewing on November 14, 2020. Please see the HRS website [www.houstonrose.org](http://www.houstonrose.org) for more details. Mary Fulgham, Master Rosarian and HRS exhibitor, has provided examples from her garden to illustrate rose show entries. Please join us for our first virtual show!



## Waco Rose Society, Joyce Jones, President

We don't really have any great news. The Waco Rose Society met on my patio in June and then did not meet during July or August. We had our first meeting of this season on Thursday, September 24 at one of Waco's historic homes, the McCulloch House, where we had built beds and planted roses in 2019. We had ordered a marble marker to state that the roses were planted by the Waco Rose Society in memory of Shirley Curtis, who was a charter member of the Society. It was a legacy from her estate which provided the funds for this. This was the first time for members to see the marker which was delivered during the summer. Due to the pandemic, we met on the porch rather than in the house, with 17 present.

## Book Review

by Maria Trevino



### Vintage Roses

By Jane Easter photography by Georgianna Lane

This book is a beautiful coffee table book of 239 pages. Don't be misled: this book is not about "vintage" as in old garden roses but a mix of old garden, David Austin and some modern roses. It is not a how-to book but eye-candy of great rose photographs. Typically you will find a photo of the rose on one page and information about the rose on the other page including an enlightening story.

There are five chapters. The first four deal with Classic Blooms, Dramatic Flowers, Romantic Beauties and Fragrant Delights. The last chapter is devoted to Pruning and Basic Care.

It is a delightful book to page through, and see and read about the roses covered. I find myself leafing through it often. Give it a try.

# A Ros-E-IQ

By Robert B. Martin, Jr.

The Rose is the most beautiful flower in the environment and rose bushes have diverse uses in the green landscape. But the public's interest in rose gardening is changing. Americans continue to love roses, but many now want to grow them in an environmentally responsible manner. This changing attitude has led to a growing interest in sustainable rose gardening.

Sustainable rose gardening is managing our gardens with minimal effects on the environment. A sustainable rose garden is one that is adapted to and managed without extraordinary demand for chemicals and care while maintaining a healthy balance and emphasis on healthy soil. It is somewhat different than what has become known as “organic gardening,” with its emphasis on natural approaches to feeding and pest control. This emphasis is good, but we have also learned that “natural” does not necessarily mean “safe” and that nature itself produces many highly dangerous chemicals. A healthy balance also implies that we scientifically weigh the environmental risks and benefits of any gardening practice without regard to whether it is “natural.”

## “The Truth About Organic Gardening”

This latter point is emphasized in a recent and interesting book by Jeff Gillman, titled *The Truth About Organic Gardening*. Dr. Gillman is an associate professor of horticultural science at the University of Minnesota and holds a doctorate in horticulture as well as a master's degree in entomology. Although he is largely in favor of organic gardening, he believes that organic gardening should be about making safe and smart choices such as reducing the use of pesticides and increasing the use of mulches and compost. He is also concerned that it has come to mean making “natural” choices, including the acceptance of natural pesticides with significant problems. In this book, he considers over 100 gardening products and practices – organic and synthetic – and examines each to determine whether it is safe and effective.

## The EIQ

In evaluating pesticides, Dr. Gillman considers it useful to examine its EIQ – the environmental impact quotient. The EIQ is an idea pioneered by Joseph Kovach and his colleagues at Cornell University in the early 1990s. Seeking to establish a standardized way to look at pesticides to determine their relative dangers to humans and the environment, they calculated a number that estimates the environmental impact of a pesticide by taking into account toxicity to natural enemies, wildlife and humans, degree of exposure, aquatic and terrestrial effects as well as soil chemistry. The numbers range roughly from 10 to 100. The higher the number – the greater the negative environmental impact.

Dr. Gillman observes: “EIQs aren't perfect, but they're the only way I know of to provide a single coherent value that summarizes the potential risk a chemical application poses to both the environment and us.” He therefore cites the EIQ in assessing various chemicals and prefers those with an EIQ of less than 25.

## EIQ and Roses

The original published article on the EIQ titled, “A Method to Measure the Environmental Impact of Pesticides” is available on the Internet along with a downloadable Excel file showing the current calculation and EIQ of numerous pesticides and other chemicals. Being impressed with Dr. Gillman's book, I had thought it might be useful to segregate those chemicals commonly used in rose gardening into tables that rank their EIQ for the benefit of rose gardeners seeking to reduce the environmental impact of chemicals used in their gardens.

The result of my study is set forth in Tables 1 and 2. There, I show the overall EIQ of common insecticides, miticides and fungicides, both natural and synthetic, used in rose gardening, including the three separate elements from which the EIQ is calculated. The chemicals are then sorted by increasing overall EIQ. I have also added the Signal Word contained on the label of the representative chemical as well as the words “OMRI” and “Organic” where applicable. OMRI refers to the Organic Materials Review Institute, which provides an independent review of products intended for use in certified organic production. Acceptable products are OMRI Listed® and appear on the OMRI Products List. The word “Organic” is used in the case of products not found on the OMRI list but typically provided by suppliers of organic products and considered “natural.”

## Environmental Impact Quotient (EIQ) of Common Rose Care Chemicals

**Table 1 - Insecticides & Miticides**

Common Name	Representative Trade Name	EIQ total	Farm Worker	Consumer + Leaching	Ecology	Toxicity	Organic
<b>Insecticides</b>							
Bacillus thuringiensis	DiPel DF	7.9	6.0	2.0	15.8	III - Caution	OMRI
azadirachtin	Azatrol	12.8	6.0	2.0	30.3	III - Caution	OMRI
spinosad	Conserve SC	17.7	6.0	2.0	45.2	III - Caution	OMRI
pyrethrum	Pyganic EC 1/4	18.0	6.0	3.0	45.0	III - Caution	OMRI
potassium soap	Safer insecticidal soap	19.5	11.4	5.1	41.8	III - Caution	OMRI
carbaryl	Sevin 50WP	20.9	12.0	3.0	47.7	III - Caution	
acephate	Orthene 97%WP	23.4	12.0	11.0	47.2	III - Caution	
malathion	Malathion	23.8	9.0	4.5	58.0	III - Caution	
petroleum oil	Saf-T-Side	27.5	8.0	3.7	71.0	III - Caution	OMRI
rotenone	Bonide Rotenone 1% Dust	33.0	54.0	4.0	41.0	III - Caution	Organic
imidacloprid	Merit 75WP	34.9	6.9	10.4	87.5	III - Caution	
sabadilla	Veratran D	35.6	39.3	6.0	61.6	III - Caution	Organic
cyfluthrin	Bayer Powerforce Multi Insect Killer	39.6	6.9	3.5	108.4	III - Caution	
esfenvalerate	Ortho Bug B Gone MAX	39.6	6.9	3.5	108.4	III - Caution	
fluvalinate	Mavrik	46.4	65.6	3.8	69.8	III - Caution	
dimethoate	Cygon 2-E	74.0	72.0	9.0	140.9	II - Warning	
cyfluthin + imidacloprid	Bayer Advanced Garden Rose & Flower	74.5	13.8	13.8	195.8	III - Caution	
bifenthrin	Talstar One	87.8	15.0	8.5	240.0	III - Caution	
permethrin	Bonide Total Pest Control	88.7	20.0	9.0	237.0	II - Warning	
disulfoton	Bayer 2-in-1 Systemic	104.5	100.0	23.5	190.0	II - Warning	
<b>Miticides</b>							
etoxazole	TetraSan 5 WDG	13.4	6.9	2.5	30.9	III - Caution	
bifenazate	Floramite SC	14.8	6.0	2.0	36.3	III - Caution	
fenpyroximate	Akari	19.3	6.0	3.0	49.0	II - Warning	
avermectin	Avid	22.7	12.0	1.0	55.1	II - Warning	
fenbutatin-oxide	Vendex	27.5	11.5	6.8	64.1	I - Danger	
dicofol	Kelthane T/O	29.9	36.0	5.0	48.6	II - Warning	
hexythiazox	Hexygon 50 WP	33.0	15.0	7.0	77.0	III - Caution	



## Environmental Impact Quotient (EIQ) of Common Rose Care Chemicals

Table 2 - Fungicides

Common Name	Representative Trade Name	EIQ total	Farm Worker	Consumer + Leaching	Ecology	Toxicity	Organic
Bacillus subtilis	Serenade Biofungicide	7.6	6.0	2.0	14.9	III - Caution	Organic
potassium bicarbonate	GreenCure	8.0	6.0	2.0	16.0	III - Caution	OMRI
iprodione	Chipco 26019	11.0	9.0	2.5	21.5	III - Caution	
fosetyl-AL	Aliette WDG	11.3	6.0	6.0	22.0	III - Caution	
fenhexamid	Decree	11.7	6.0	2.0	27.2	III - Caution	
mancozeb	Dithane D-45	14.6	12.0	3.0	28.9	II - Warning	
azoxystrobin:	Heritage 50W	15.2	6.0	5.0	34.7	III - Caution	
captan	Captan 50WP	15.8	12.0	5.0	30.3	I - Danger	
thiophanate-methyl	Clearys 3336F	22.4	16.2	5.1	46.0	IV - Caution	
fenarimol	Rubigan EC	22.4	12.0	19.0	36.3	III - Caution	
dimethomorph	Stature DM	24.0	8.1	12.2	51.8	III - Caution	
propiconazole	Banner Maxx/Honor Guard	27.5	8.1	15.2	59.3	II - Warning	
mefenoxam	Subdue MAXX	29.4	8.1	12.2	68.0	III - Caution	
triadimefon	Bayleton	30.7	16.2	21.3	54.6	III - Caution	
trifloxystrobin	Compass	30.9	12.2	10.2	70.4	III - Caution	
myclobutanil	Immunox Plus	33.0	12.2	16.7	70.1	II - Warning	
copper hydroxide	CuPro/Kocide 2000 DF	33.3	12.2	5.1	82.7	II - Warning	Organic
chlorothalinal	Daconil Ultrex	40.1	20.0	9.0	91.3	I - Danger	
tebuconazole	Bayer Disease Control	40.3	20.0	31.0	70.0	III - Caution	
triforine	Funginex	41.2	24.3	25.9	73.4	I - Danger	
sulfur	Safer Brand Garden fungicide	45.5	10.0	6.0	120.6	III - Caution	OMRI
copper sulfate+lime	Bordeaux	67.7	108.0	19.0	76.0	II - Warning	Organic

An analysis of the values in these tables reveals several interesting points:

### 1. There are no products with an EIQ of zero.

This is very important. *All* products used in our gardens have an impact on the environment. Insecticides, miticides and fungicides are all “cides” which means they are intended to kill the target organism. The best pesticide – or at least the one with the least environmental impact – is no pesticide at all. Dr. Gillman emphasizes this in his discussion of environmentally-friendly cultural practices such as soil enrichment and organic fertilization to grow strong healthy plants, the maintenance of cleanliness and good air circulation, the selection of disease-resistant cultivars, the use of mechanical approaches to pest control such as water and hand-picking, and the encouragement of beneficial organisms. Good horticulture is the first line of defense and must be practiced before selecting any chemical for use in the sustainable rose garden.

### 2. The EIQ does not consider the effectiveness of the chemical.

Some pesticides are more effective than others. The EIQ treats them all as having the same effectiveness. Those who have gardened for many years know the effectiveness of a chemical often depends on many factors, including, for example, the build-up of resistance. The sustainable rose gardener will have to consider the EIQ in light of his own experience, remembering that an ineffective chemical still has a negative effect on the environment but without any corresponding benefit.

### 3. The Signal Words have little correlation to the EIQ.

As can be seen from the chart, nearly every chemical commonly used on roses has a Signal Word of “Caution.” That is the lowest – or “safest” of the three words. There are a few marked “Warning” or “Danger” which as a general rule have higher EIQs than those marked Caution. The toxicity of a chemical and its danger to its applicator is one of the factors considered in the calculation of the EIQ. But as can be seen, there is little correlation between these toxicity indicators and the overall EIQ.



#### 4. **“Organic” products may or may not have less impact on the environment.**

In the case of the insecticides, it will be seen that the five with the lowest EIQs all have OMRI listings. Of the fungicides, the one with lowest EIQ is generally considered organic, while the one with the second-lowest EIQ has an OMRI listing. And so it initially appears that the OMRI listing and organic products have lower EIQs and are less harmful to the environment.

But there are exceptions. We find rotenone, a natural pesticide that Dr. Gillman particularly dislikes, having a higher EIQ than Sevin, Orthene or Malathion, all synthetic chemicals unfavored by organic gardeners. We also find the OMRI-listed sulfur as having the next to highest EIQ among fungicides, exceeded only by the supposedly natural, but toxic brew called Bordeaux mixture, which has been around for many years.

#### 5. **Field comparisons should not be made with these data!**

But this is not all – folks – there is something else about these figures that I discovered in reading the article – **THE EIQS NEED TO BE ADJUSTED IN ORDER TO COMPARE THEM!**

The original article on the EIQ contains the following statement– with the bold letters in the original: **“Field comparisons should not be made with these data.”** What this means in its simplest terms is that you *cannot* use the total EIQ numbers to compare chemicals. Dr. Gillman’s emphasis on selecting chemicals with an EIQ of less than 25 is intentionally oversimplified. In fact, tabulating the data as I have done is wrong.

#### **The EIQ Field Use Rating**

What is missing are the adjustments the authors of the original EIQ article specify as necessary to produce the “EIQ Field Use Rating”. This is the only rating that can be used to compare the environmental impact of one chemical with another. As stated in the article:

Once an EIQ value has been established for the active ingredient of each pesticide, field use calculations can begin. To accurately compare pesticides and pest management strategies, the dose, the formulation or percent active ingredient of the product, and the frequency of application of each pesticide need to be determined. To account for different formulations of the same active ingredient and different use patterns, a simple equation called the EIQ Field Use Rating was developed. This rating is calculated by multiplying the EIQ value for the specific chemical obtained in the tables by the percent active ingredient in the formulation by the rate ... used....

This makes sense if you think about it for a moment. The environmental impact of a chemical *must* depend on *how much* of it you put in your garden. Chemicals have different percentages of active ingredient, different rates of application and different recommended frequencies of application. The EIQ Field Use Rating adjusts for these factors thus permitting real comparisons of the environmental impact between pesticides.

#### **A Ros-E-IQ**

The EIQ Field Use Rating of commonly used rose chemicals is set forth in Tables 3 and 4 below. There, I have adjusted the EIQ by the percentage of active ingredient (ai), the dosage (based on ounces/gallon) and the frequency of application. The latter simply assumes a standard of 16 applications in a season for those chemicals applied weekly, with corresponding adjustments for those that are applied every 14 or 21 days. This provides an accurate relative comparison that should remain roughly the same, no matter how long the growing season.

I have referred to the EIQ Field Use Rating thus obtained as the “Ros-E-IQ” – though unlike the measure of intelligence, a lower Ros-E-IQ is better. These values contain a number of surprises.

## EQ Field Use Rating of Common Rose Care Chemicals (Ros-E-IQ)

### Table 3 - Insecticides & Miticides

Common Name	Representative Trade Name	EQ total	ai	dose	freq	RosEQ	Toxicity	Organic
<b>Insecticides</b>								
azadirachtin	Azatrol	12.8	0.01	0.125	16	0.31	III - Caution	OMRI
pyrethrum	Pyganic EC 1/4	18.0	0.01	0.333	16	1.34	III - Caution	OMRI
spinosad	Conserve SC	17.7	0.12	0.056	16	1.83	III - Caution	OMRI
cyfluthrin	Bayer Powerforce Multi Insect Killer	39.6	0.01	0.500	16	2.37	III - Caution	
cyfluthin + imidacloprid	Bayer Advanced Garden Rose & Flower	74.5	0.01	0.500	16	4.29	III - Caution	
fluvalinate	Mavrik	46.4	0.22	0.042	16	6.89	III - Caution	
imidacloprid	Merit 75WP	34.9	0.75	0.021	16	8.73	III - Caution	
bifenthrin	Talstar One	87.8	0.08	0.167	16	18.50	III - Caution	
Bacillus thuringiensis	DiPel DF	7.9	0.54	0.333	16	22.80	III - Caution	OMRI
permethrin	Bonide Total Pest Control	88.7	0.13	0.167	16	31.45	II - Warning	
rotenone	Bonide Rotenone 1% Dust	33.0	0.01	6.000	16	31.68	III - Caution	Organic
acephate	Orthene 97%WP	23.4	0.97	0.125	16	45.36	III - Caution	
disulfoton	Bayer 2-in-1 Systemic	104.5	0.01	4.000	16	66.88	II - Warning	
carbaryl	Sevin 50WP	20.9	0.50	0.500	16	83.60	III - Caution	
dimethoate	Cygon 2-E	74.0	0.23	0.333	16	92.31	II - Warning	
malathion	Malathion	23.8	0.50	0.500	16	95.33	III - Caution	
sabadilla	Veratran D	35.6	1.00	0.200	16	114.03	III - Caution	Organic
esfenvalerate	Ortho Bug B Gone MAX	39.6	1.00	0.330	16	208.91	III - Caution	
petroleum oil	Saf-T-Side	27.5	0.80	1.000	16	352.43	III - Caution	OMRI
potassium soap	Safer insecticidal soap	19.5	0.50	2.500	16	385.11	III - Caution	OMRI
<b>Miticides</b>								
avermectin	Avid	22.7	0.02	0.042	16	0.29	II - Warning	
etoxazole	TetraSan 5 WDG	13.4	0.05	0.042	16	0.45	III - Caution	
fenpyroximate	Akari	19.3	0.05	0.333	8	2.58	II - Warning	
bifenazate	Floramite SC	14.8	0.50	0.083	5	3.28	III - Caution	
hexythiazox	Hexygon 50 WP	33.0	0.50	0.083	8	11.00	III - Caution	
dicofol	Kelthane T/O	29.9	0.50	0.167	16	39.80	II - Warning	
fenbutatin-oxide	Vendex	27.5	0.50	0.250	16	54.92	I - Danger	

## EQ Field Use Rating of Common Rose Care Chemicals (Ros-E-IQ)

### Table 4- Fungicides

Common Name	Representative Trade Name	EQ total	ai	dose	freq	RosEQ	Toxicity	Organic
trifloxystrobin	Compass	30.9	0.50	0.021	8	2.58	III - Caution	
Bacillus subtilis	Serenade Biofungicide	7.6	0.01	2.000	16	3.27	III - Caution	Organic
fenarimol	Rubigan EC	22.4	0.12	0.083	16	3.59	III - Caution	
azoxystrobin:	Heritage 50W	15.2	0.50	0.040	16	4.87	III - Caution	
triadimefon	Bayleton	30.7	0.25	0.042	16	5.12	III - Caution	
propiconazole	Banner Maxx/Honor Guard	27.5	0.14	0.111	16	6.99	II - Warning	
triforine	Funginex	41.2	0.07	0.167	16	7.14	I - Danger	
myclobutanil	Immunox Plus	33.0	0.02	1.000	16	8.18	II - Warning	
mefenoxam	Subdue MAXX	29.4	0.22	0.240	8	12.42	III - Caution	
iprodione	Chipco 26019	11.0	0.23	0.333	16	13.65	III - Caution	
tebuconazole	Bayer Disease Control	40.3	0.03	0.750	16	14.04	III - Caution	
fenhexamid	Decree	11.7	0.50	0.333	8	15.62	III - Caution	
mancozeb	Dithane D-45	14.6	0.70	0.125	16	20.46	II - Warning	
thiophanate-methyl	Clearys 3336F	22.4	0.46	0.167	16	27.50	III - Caution	
copper hydroxide	CuPro/Kocide 2000 DF	33.3	0.54	0.167	16	47.77	II - Warning	Organic
potassium bicarbonate	GreenCure	8.0	0.85	0.500	16	54.40	III - Caution	OMRI
captan	Captan 50WP	15.8	0.50	0.500	16	63.07	I - Danger	
dimethomorph	Stature DM	24.0	0.50	0.333	16	64.03	III - Caution	
fosetyl-AL	Aliette WDG	11.3	0.80	0.500	16	72.53	III - Caution	
sulfur	Safer Brand Garden fungicide	45.5	0.12	1.000	16	87.42	III - Caution	OMRI
chlorothalinalol	Daconil Ultrex	40.1	0.83	0.250	16	132.28	I - Danger	
copper sulfate+lime	Bordeaux	67.7	1.00	4.500	16	4872.00	II - Warning	Organic

With respect to the insecticides, the three chemicals with the lowest Ros-E-IQs all have OMRI listings. At the same time, the two chemicals with the highest Ros-E-IQs also have OMRI listings, these being petroleum oil and insecticidal soap. Both have very high rates of application and high percentages of active ingredient, which, as can be seen pushes their ratings very high. A good break point in evaluating the Ros-E-IQ is 25 – the number used by Dr. Gillman – though in this case the number has considerably more relevance. And of interest, we find a number of insecticides that organic gardeners would reject out-of-hand, including Bayer’s Powerforce Multi Insect Killer and its Advanced Garden Rose and Flower Insect Killer. We also find Mavrik and

Talstar both of which have very high EIQs, primarily because of their ecological effects; however, because of their low doses they have low Rose-E-IQs. We also find Merit, which contains imidacloprid, the most widely used insecticide in the world, with a low Ros-E-IQ, primarily because it is typically applied at the very low rate of one teaspoon per ten gallons of spray mix.

In the case of the miticides, we find the very low application rates give Avid, TetraSan, Akari and Floramite extremely low Ros-E-IQs. Hexygon is also well under the 25 level. In fact, we can see that modern miticides have very little negative environmental impact.

Finally, in the case of the fungicides, we find that the product with the lowest Ros-E-IQ is Compass, a product that contains strobilurin, a fungal antibiotic that fights infections of plants. In second position is the new bio-fungicide Serenade. Of particular note is that the fungicides with OMRI listings or based on so-called “organic” formulations of metals and elements are pretty much at the top end of the values. Those under 25 include Heritage, another strobilurin-based chemical, and well-known fungicides such as Banner Maxx, Fun-ginex, Immunox and Bayer Disease Control.

### **Conclusion**

Dr. Gillman’s emphasis on EIQ in his book comes up short because he fails to complete his analysis and examine the EIQ Field Use Rating. But his main point is nevertheless valid. Sustainable rose gardening is about making safe and smart choices such as reducing the use of pesticides and increasing the use of mulches and compost. And, when it becomes necessary to utilize a pesticide, we do have choices and can select those that have a substantially reduced impact on the environment. The EIQ Field Use Rating provides this value, which in the case of roses is the Ros-E-IQ.

My objective in growing roses is and has long been to grow – and show - the best and most beautiful roses. In so doing, I am convinced this can be accomplished without sacrificing the environment. We need to adopt sustainable rose growing practices. Hopefully, this study will contribute to our knowledge of how we can minimize the environmental impact of the chemicals we use on our roses so that our roses are not only beautiful but also contribute to a beautiful environment.

---

*Robert B. (“Bob”) Martin Jr. of Escondido, California, has been growing roses for 40 years. Bob is an ARS Master Rosarian, the author of the book “Showing Good Roses” and over 500 published articles on roses, including widely circulated articles on mulch, earthworms and spraying roses. Bob is also well known as an effective and entertaining speaker, having spoken at numerous national and district conventions, as well as local society presentations, including seminars on organic feeding techniques.*

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Debra Bagley  
1704 Glenwick, Plano, TX 75075  
H 972-422-5058 C: 469-951-5068  
[dlb0319@msn.com](mailto:dlb0319@msn.com)

### Deputy Director

Dale Dardeau  
3015 Kelly Street, Orange, TX 77630-7149  
H: 409-886-4616 C: 409-882-4197  
[ddardeau@gt.rr.com](mailto:ddardeau@gt.rr.com)

### Membership/Data Chair

Jimmy Sanford  
2604 Highgate, Arlington, TX 76016  
H: 817-654-3832 C: 817-614-7285  
[minirose@msn.com](mailto:minirose@msn.com)

### Consulting Rosarians Director

Clyde Davis  
5548 Cross Timber Dr., Orange, TX 77632  
409-988-8661  
[clydedavis@att.net](mailto:clydedavis@att.net)

### Prizes and Awards Chair

Debra Bagley  
1704 Glenwick, Plano, TX 75075  
H: 972-422-5058 C: 469-951-5068  
[dlb0319@msn.com](mailto:dlb0319@msn.com)

### Horticulture Judges Chair

Meg Ware  
28731 Howards Bull, Fair Oaks Ranch, TX 78015  
H: 210-394-5634  
[wmware@swbell.net](mailto:wmware@swbell.net)

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Kathy Harris  
3856 Crest Cove Cir, Dallas, TX 75244  
H: 972-620-1131 C: 214-244-1989  
[Kharris747@yahoo.com](mailto:Kharris747@yahoo.com)

### Secretary

Becky Davis  
5548 Cross Timber Dr, Orange TX 77632-7572  
H 409-745-4253  
[clydedavis@att.net](mailto:clydedavis@att.net)

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Jo Ann Bradley  
8108 Quebec Drive, San Antonio, TX 78239  
H: 210-658-8074 C: 210-219-7271  
[brad9@satx.rr.com](mailto:brad9@satx.rr.com)

### Editor "The Rosarian"/Webmaster

Maria Trevino  
P O Box 70828, Houston, TX 77270  
H: 713-869-3693 C: 713-628-3681  
[maria@burger.com](mailto:maria@burger.com)

### Past Director

Don Adlong  
3 Tanager Trail, Conway, AR 72032  
H: 510-329-6996 C: 501-472-7336  
[dwadlong@gmail.com](mailto:dwadlong@gmail.com)

### Regional Director

Baxter Williams  
2502 Leprechaun Ln, Houston TX 77017-7320  
H: 713-944-3437 C: 281-850-2067  
[bxtwms@att.net](mailto:bxtwms@att.net)

### Roses In Review (RIR)

Carol Shockley  
550 Evening Dr., Conway, AR 72032-4757  
C: 501-514-2194

### AREA CHAIRPERSONS:

#### North Texas

Claude Graves  
2204 Canyon Creek Place, Richardson, TX 75080  
H: 972-234-5184 C: 972-989-5708  
[claudef.graves@att.net](mailto:claudef.graves@att.net)

#### East Texas

Clyde Davis  
5548 Cross Timber Dr., Orange, TX 77632  
409-988-8661  
[clydedavis@att.net](mailto:clydedavis@att.net)

#### South Texas

Eddie Garcia  
6606 Epsom Drive, San Antonio, TX 78239  
H: 210-654-1263 C: 210-260-0242  
[eigconsulting@aol.com](mailto:eigconsulting@aol.com)

#### West Texas OPEN

##### Oklahoma

Jack Dickson  
4904 Cinderella Drive, Oklahoma City, OK 73129  
H: 405-677-6843 C: 405-234-6809  
[dads426hemi@att.net](mailto:dads426hemi@att.net)

##### West Arkansas

Carol Shockley  
550 Evening Drive, Conway, AR 72032  
H: 501-327-4974 C: 501-514-219  
[carol.shockley@conwaycorp.net](mailto:carol.shockley@conwaycorp.net)

## 2020 SCD Local Rose Society Presidents

Society	Name	Address	Phone	Email
Austin	Joe Baiocchi	2400 Mesa Park Drive, Round Rock, TX78644	512-865-7874	jbaiocchi@twc.com www.austinrosesociety.org
Central Arkansas	Carol Shockley	550 Evening Drive, Conway, AR 72032	501-327-4974	<a href="mailto:carol.shockley@conwaycorp.net">carol.shockley@conwaycorp.net</a> www.centralarkansasrosesociety.org
Collin County	Haskell Ellis	1903 Meadow Creek Dr., Plano, TX 75074	972-422-9260	hllellis1@verizon.net www.collincountyrosesociety.org
College Station/ Bryan	Jo Ann Ottis		978-690-2228	jaottis@gmail.com
Corpus Christi	Gaynell Toygerson	4610 Coventry Lane, Corpus Christi, TX 78411	361-244-2326	<a href="mailto:gaynelltorgerson@gmail.com">gaynelltorgerson@gmail.com</a>
Dallas	Ilene Cook	2100 Alto Dr., Carrollton, TX 75007	972-394-6077	cook2100@verizon.net www.dallasrosesociety.org
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Golden Triangle	Tommy Hebert	5240 Avie Lane Beaumont TX	409-899-1149	angtomheb@aol.com
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Oklahoma	Jack Dickson	4904 Cinderella Dr., Oklahoma City, OK 73129	405-234-6809	dads426hemi@att.net
Red River	Phyllis Lawrence	2431 Miller Street, Denison, TX 75020	903-463-5663	Lawre33803@aol.com www.redriverrosesociety.org
San Antonio	Murray Warner	10514 Ballerina Ct San Antonio, TX 78217	210-313-3371	dmwarner@satx.rr.com www.sarosesociety.org
Tulsa	Laura Chalus	2435 South Peoria, Tulsa, OK 74114	918-576-5266	lchalus@tulsagardencenter.com
Waco	Joyce Jones	3525 Carondolet Drive, Waco, TX 76710	254-840-3938	joyce_jones@baylor.edu



# ARS NEWS

The American Rose Center Committee announces VOLUNTEER DAYS on October 23<sup>rd</sup> and 24<sup>th</sup>. It's been a long time since we have gathered as rose friends, and since we have gotten together in support of America's Rose Garden.

We have so much to show you—changes in the gardens, new areas developed, improvements all around! And unless there is rain, these two days in October should be beautiful days in the gardens. We will practice social distancing, and if we come in close proximity to each other, will wear masks to insure the safety of all rosarians.

We hope you will publish news of VOLUNTEER DAYS on the Gulf District website, and in emails to all on your Society and rose friends mailing lists. We do hope for a good turnout and a great show of support by members of our district. Brown-Bag lunches will be provided to all who register.

For more information about Volunteer Days, please contact Kim Merritt at (318) 938-5402 or email [americanrosesociety@rose.org](mailto:americanrosesociety@rose.org).  
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**The *Rosarian*, (Maria Trevino, editor), is published quarterly.**

**Its mission is to inform Rosarians of the activities of the SCD District and the American Rose Society, to keep members abreast of the latest in rose culture, to support and inspire Rosarians in every aspect of their hobby, and to encourage their commitment to the Society.**

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### **FROM YOUR EDITOR...**

**ARTICLES OR PHOTOS SUBMISSION DEADLINE FOR THE FALL ISSUE  
IS NOVEMBER 6.**

**PLEASE CONSIDER SENDING ME ARTICLES, IDEAS, PHOTOS (ESPECIALLY PHOTOS!) AND ANY SUGGESTIONS YOU HAVE TO MAKE THE NEWSLETTER BETTER. I WOULD LOVE TO HEAR FROM THE ROSE SOCIETIES AND YOU!**

**MY CONTACT INFO: MARIA@BURGER.COM**

**c. 713-628-3681**

### **South Central District Patron Program**

We are very fortunate to have a program of this nature to assist local societies within our district to host events. Rosarians and Societies joining the patron program allow the District to provide startup money to local Societies to host a District Convention and rose show, district judging schools, consulting rosarian schools and assisting with the purchase of trophies for the District rose show.

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*Dale Dardeau, Deputy Director*



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Please make your check payable to the **South Central District** (or SCD), and mail to: **Jo Ann Bradley, 8108 Quebec Drive, San Antonio, TX 78239**