



Feb-11-2022 | Issue 423

Nature's Way Resources is proud to produce & email you this free weekly newsletter. We have no ads, but sponsors do graciously help support this project as a public service. Please note their names below & show your gratitude for this free service by patronizing their businesses! To become a sponsor, call (936) 273-1200

Nature's Way Resources owner John Ferguson, "The Lazy Gardener" Brenda Beust Smith and Pablo Hernandez welcome your feedback and are so grateful to the many horticulturists who contribute their expertise

[Click here to join our email list](#)

[CLICK HERE for PDFs OF PAST LG&F NEWSLETTERS](#)



'WHY TRY TO EXPLAIN MIRACLES TO YOUR CHILDREN WHEN YOU CAN HAVE THEM PLANT A GARDEN?'

-- Janet Kilburn Phillips, *garden coach*, [Plant Harmony](#),

By BRENDA BEUST SMITH

Even though we can't use children's garden events in our calendar below (sheer volume prohibits), we strongly advocate introducing even infants to flowers, soil, etc.

Below, Houston Botanic Garden's Erin Mills gives suggestions that triggered my own wonderful "gardening" memories — two in particular. First one dates back to age 7 or 8 with a lady on Palm St., about four houses down from our house on Sauer St. (*between Southmore & Rosedale*) in Riverside Terrace. Her front yard was full of color. We children were invited help plant, pull weeds, etc. Wish I could remember her name. (*She lived on the SE side of Palm in the late '50s & early '60s, only one with so many front yard flowers, in case someone knows.*)

Fast-forward to pre/early-teens. Strong memory #2: prolonged watering at same Sauer home, literally drowning Mother's & (grandmother) Mimi's gorgeous, tall, blue larkspur alongside (*the original*) Sutton Elementary schoolyard's fence while I hoped a certain cute guy would ride by. They were gorgeous, long-lived and easily reseeded in spite of my monsoon soakings! I

have tried for decades with no luck to grow larkspur. Anyone know what variety was most popular in mid-50's? *(file photo).*



One never knows what memories will stay with one forever. Starting children as young as possible to love gardening is the best way, advises Erin Mills, who now works with Director of Education Dany Millikin at Houston Botanic Garden (HBG).

Erin, formerly with Cockrell Butterfly Center, has had plenty of experience getting children interested in nature. She'll share her expertise at [HBG's Spring Break BotaniCamp](#) March 14-17.



Erin approaches her children's & adult gardening classes pretty much the same, pointing out it's mostly a matter of:

1. tailoring your language to the age group
2. using tools designed for small hands. *(pictured here & above: children at HBG)*

"Adults love gardening because it speaks to the inner child inside of all of us," Erin says. Many adults, when reacquainted with gardening (as many have past couple of years!) become absolutely "hooked."

How early should you start with children? *"Even infants can take part in this activity safely. Children love to dig in dirt, find living creatures, study and nurture seeds and witness plants growing, changing, and thriving."*

Any children in your neighborhood who could use a little nudge to connect with our living Earth? Reach out!

For more on Houston Botanic Garden's BotaniCamp: hbg.org/learn/summercamp/

WHY NOW? FROST FLOWERS (ice flowers, ice ribbons) pictures have been shared on the 'net recently. Why didn't we see them last year when it was so cold for so much longer? Retired longtime horticulturist Leon Macha photographed these on his firecracker plant (*Russellia*) while out checking his El Campo garden in 27° temps. First time in 78 years he's seen any frost flowers, adding his *"look more like giant white mealy bugs than like flowers!"*



Why didn't we see these last year? Maybe it was TOO cold for too long, Leon guesses. *"This phenomenon needs the right temp, right water content (soaking rain 3 days prior), right plant in right growth stage, right sign of the moon, AND (maybe) the appearance of the groundhog."* [\(See last week's issue. pdf download\)](#)

What triggers ice flowers? Sap in stems expands when frozen, causing long thin cracks. Capillary action draws water into cracks which freezes on contact with air. Thin



ice layers extruding from long-stemmed plants can even curl into "petals," such as in this file photo.

* * *

WHY RED ROSES FOR VALENTINE'S DAY?

And why Feb. 14? And who was Valentine? Answers depend on whom you ask. Some tales date A.D. 496! Stories about men, some martyrs, named Valentine are found throughout history. A Roman soldier named Valentine was executed for secretly marrying a Christian woman, violating Emperor Claudius II's rule that soldiers should "love only Rome"! Before his execution on Feb. 14, the condemned man sent his wife a love letter, signed "*from your Valentine*." Folks liked, started sharing, that phrase!



Why red roses? Red was seen as a symbol of life (blood), energy. etc., from beginning of time. Love goddesses Aphrodite (Greek) and Venus (Roman) favored red roses, perhaps starting the floral trend. Charles II officially decreed "meanings" to flowers, including "Love" to red roses. Robert Burns compared his love to "*a red, red rose*." Florists' eyes filled with \$\$\$ and rest is history!

LAWN SERVICES: I've gotten complaints from readers who have come home one day to find yardmen have cut back every "dead" thing in the garden. If you have this service and don't want this done, remember, they do it automatically. If you don't tell them not to, don't complain. I love this cartoon making the rounds on Facebook. Wish I knew who created it so I could credit them.

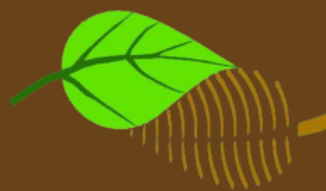


*Brenda Beust Smith's column in the
LAZY GARDENER & FRIENDS HOUSTON GARDEN NEWSLETTER
is based on her 40+ years as Houston Chronicle's Lazy Gardener
Email: lazygardenerbrenda@gmail.com*

* * *



John's Corner



NEWS FROM THE WONDERFUL WORLD OF SOIL AND PLANTS # 183

MINERALS - The Elements and What They Do

Today we continue with our study of all the minerals (elements) in the human body, what they do. See previous newsletters (9/17/21 and 9/24/21) for a list of references and introduction to the Periodic Table.

This week we will conclude our study of the elements found in plants and animals including humans. Today we look at elements 75-83 which are rhenium, osmium, iridium, platinum, gold, mercury, thallium, lead, and Bismuth.

75) Rhenium (Re) - Found in igneous rocks at 0.005 ppm, marine plants at 0.014 ppm, and land plants 0.014 ppm. Land animals have very little rhenium where it is found in the thyroid tissue.

Rhenium is a silvery metal with a high melting point and similar chemical properties to manganese (Mn). The electrical or oxidation states range from -1 to +7. Rhenium diboride (ReB_2) is so hard it will scratch diamonds. It is used in nickel-iron super alloys to make turbine blades in fighter jets.

No known biological role and appears to be non-toxic.

Gardening and Landscaping Problems Associated with Rhenium (Re)

None

Sources: mineral sands of igneous rocks, re-mineralizer.

76) Osmium (Os) - Found in igneous rocks at 0.0015 ppm. It is oxidized by organic matter to osmium oxide (OsO_4) where it is later reduced to osmium (Os).

Osmium is a silvery metal with a bluish tint that slowly oxidizes and is the densest of any element. Osmium is the hardest metal and was used in fountain pen tips, and phonograph needle tips.

Some compounds of osmium have shown anti-cancer effects. No confirmed biological role and it appears to be non-toxic in pure form. However, some compounds are highly toxic.

Gardening and Landscaping Problems Associated with Osmium (Os)

None

Sources: mineral sands of igneous rocks, re-mineralizer.

77) Iridium (Ir) - Found in igneous rocks at 0.001 ppm, land animals at 0.00002 ppm and land plants at 0.62 ppm.

Iridium is the second densest element but only by a little bit (one tenth of one percent). It is the most corrosion resistant metal known. High grade automobile spark plugs with iridium tips will last far longer than conventional plugs.

Iridium is relatively rare in the earth's crust as compared to other elements but is common in asteroids and comets. Iridium found at archeological or geological sites is used to help date them.

No known biological role and appears to be non-toxic.

Gardening and Landscaping Problems Associated with Iridium (Ir)

None

Sources: mineral sands of igneous rocks, remineralizer

78) Platinum (Pt) - Platinum is a dense malleable transition metal and is considered a noble metal due to its resistance to corrosion.

Platinum is the premium element in society and more costly than gold since demand is so high, even though it is the 75th most abundant element on earth. Rocks collected on the moon tend to be higher in platinum than those on earth. Platinum is found in igneous rocks at 0.005 ppm and land animals at 0.002 ppm.

Platinum is able to withstand powerful acids and high temperatures and is very stain and corrosion resistant. It is used as a catalyst in many chemical reactions such as refining crude oil into gasoline to usage in catalytic convertors in our cars.

It is used to make medical implants and its compounds are used as anti-cancer drugs.

Platinum is found in the muscles of mammals at a low level of 0.2 ppb even though it has no known biological role and is considered non-toxic in its pure metallic form. Some salts of platinum are highly toxic.

Gardening and Landscaping Problems Associated with Platinum (Pt)

Plants growing on soil derived from platinum bearing rocks can absorb up to 6 ppm where most of it is in the roots. Depending on the platinum chemical compound, proteins can bind some of the forms that are highly toxic. Plants growing near roadways have higher levels of platinum. Radishes have been found that have 530 ppm, and some tobacco plants can accumulate 23,300 ppm.

Sources: mineral sands of igneous rocks, some coals have 230 ppm, sewage sludge where the platinum comes from ingested drugs, re-mineralizer.

79) Gold (Au) - Gold is a member of the group of metals known as "Noble" metals. It derives its name from the Latin, *aurum*, meaning "glow of sunrise" and hence its chemical abbreviation Au. It is a soft yellow metal that is virtually unaffected by air, water, and most acids.

Gold is found in igneous rocks and sedimentary rocks at 0.004 ppm and very little in fresh or seawater.

Gold is probably the most famous and valued metal in history. Gold of all the metals, is the only one that is both golden colored, and keeps its shine and beauty forever. In addition to its beauty, gold is extremely useful. It is an excellent conductor of electricity and it does not tarnish which makes it one of the best materials to use in electrical contacts. It is also the most malleable and ductile of all the elements.

Some microbes can extract gold from the soil (*Thiobacillus ferrooxidans*) and accumulate it. Several plants accumulate gold and their tissue has been used in prospecting to find gold deposits and even veins of gold (*Sedum aceotatum*, *Phacelia sericea*, and *Artemisia sp*).

Gold has a high degree of resistance to colonization by bacteria hence it is used in medical implants.

Gold is not known to provide any essential function in humans. However, recent research has used gold compounds in drugs that reduce the pain and swelling of rheumatoid arthritis and tuberculosis.

Gardening and Landscaping Problems Associated with Gold (Au)

Gold is easily phytoavailable hence many plants can absorb it. Microorganisms often release gold atoms and make them soluble for plants to absorb. Brown algae can accumulate gold. Some plants produce cyanide, which allows the plant to extract gold atoms and absorb them.

Gold accumulator plants like *Artemisia persia*, *Prangos popularia*, and *Pinus laricio* may contain up to 100 ppm of gold. Peat and algal mats near mining areas often accumulate high levels of gold.

Too much gold in plant tissues causes necrosis and wilting due to loss of turgidity in the leaves.

Sources: mineral sands of igneous rocks, coal, sewage sludge, re-mineralizer

80) Mercury (Hg) - Mercury is found in igneous rocks at 0.08 ppm, shale at 0.4 ppm, sandstone, and limestone at 0.03 ppm, and very little in fresh or seawater. Most soils only have 1 ppm of mercury. Soils normally have very little mercury, as it is easily leached or vaporized. Mercury is a shiny silvery metal that is liquid at room temperature.

Raw humus and organic materials have a great capacity to bind mercury and other heavy metals.

The most common electrical or valence state is +2 and in this valence state, it is very mobile in soils. It will then combine readily with chloride, hydroxide, sulfides, and soil organic matter. Soils that are acidic in nature have mercury in a form that is more available. Some coals have 10 ppm of mercury, which is released when it is burned.

Mercury is easily combined with other metals and is used in many applications. One of the most common is in dental amalgams. It is used in electrical devices from thermostats to light switches. When used in batteries it created a very stable voltage output good for sensitive or scientific applications.

Vermillion paint used mercury sulfide (HgS) as a pigment, and the mineral cinnabar is composed of mercury sulfide. Mercury vapor lights are highly efficient and produce a pleasant light.

Mercury accumulates in the fatty tissue of animals especially fish.

Mercury is found in Thimerosal a chemical that is used in most vaccines which has been linked to many behavioral problems in children. Mercury is used in many fungicides and pesticides due to its toxicity.

Many microorganisms can methylate mercury, making it available in a form that can be absorbed by living organisms. Mercury is more toxic in this form than in its elemental form.

"Flu shots contain over 50,000 ppm of mercury which is about 25,000 times the amount allowed in drinking water." Food Forensics.

Mercury is a hazardous pollutant, as it is easily bioaccumulated. Mercury affects the immune system, many enzymes, and damages the nervous system.

The list of damage and health problems is very long.

Mercury is absorbed into the human body from food, medicine, vaccines, etc. and is excreted in our feces.

Gardening and Landscaping Problems Associated with Mercury (Hg)

Plants easily absorb mercury from the soil and the amount in plants increases as the amount in the soil increases and it tend to accumulate in the roots.

Plants like lettuce, spinach, and mushrooms take up more mercury than other species. They can also absorb mercury from the air. Indian mustard (*Brassica juncea*) has the ability to hyper-accumulate mercury from contaminated soil often reaching 1,000 ppm.

Mercury inhibits the synthesis of proteins in plant leaves and disrupts other metabolic processes. Symptoms of too much mercury are; stunting of seedling growth, poor root development, and inhibition of photosynthesis.

The plant *Arabidopsis thaliana* has the ability to convert the toxic mercury (Hg^{+2}) into the relatively inert form (Hg^0).

Sources: mineral sands of igneous rocks, sewage sludge, fly ash from burning of coal.

81) **Thallium (Ti)** - Thallium is a soft silvery grey metal that tarnishes easily. It is 10 times more common than silver. It is found in igneous rocks at 0.45 ppm, shale, and limestone at 0.8-1.4 ppm, and soils at 0.1 ppm.

Its main electrical or oxidation state is +1 and often behaves chemically like potassium (K), hence, it can replace potassium in many biological functions.

Thallium is the first acutely toxic element discovered; and it was commonly used to kill someone. The major source of thallium in the environment comes from the burning of coal and cement manufacture.

Thallium can be complexed by organic matter and methylated, forming volatile compounds. In this form, thallium is toxic to microorganisms and prevents nitrate formation, which hurts plant growth.

Thallium sulfate (Ti_2SO_4) is an odorless and tasteless compound, which is used as a rat and ant poison. For years, thallium was used in pesticides, but the law no longer allows it.

There is no known biological role for thallium. Some marine organisms can concentrate thallium in their tissues.

Gardening and Landscaping Problems Associated with Thallium (Ti)

Thallium concentration in plants is directly related to the amount found in the soil.

Kale tends to concentrate thallium, as does Kohlrabi. In some plants, levels of thallium can reach 100 ppm. The plant *Iberis intermedia* can contain 4,000 ppm of thallium. Thallium levels in some flowers have been measured at 17,000 ppm (1.7%).

Tobacco plants are sensitive to thallium. As little as 150 ppm of thallium sulfate (Ti_2SO_4) will kill collards and wheat plants.

High thallium levels hinder seed germination and affects both photosynthesis and transpiration. It also results in visual leaf chlorosis.

Sources: mineral sands of igneous rocks, re-mineralizer

82) **Lead (Pb)** - Lead is a soft weak ductile grey metal that tarnishes easily. Lead is found in igneous rocks at 12.5 ppm, shale at 20 ppm, sandstone at 7 ppm, and limestone at 9 ppm. Very little is found in fresh or seawater. A few granites may have 25 ppm and most soils naturally range from 18-27 ppm. However, with widespread pollution some soils now have 349 ppm. This is

often a large problem in urban areas, where people are trying to establish vegetable gardens and orchards.

Coal can vary between 10-1,900 ppm of lead, and fly ash from the burning of coal to 50 ppm. Lead has a strong affinity for organic matter, which increase its mobility in soils. Some modern soils now have 10,000 ppm due to pollution.

The most common electrical or valence state of lead is +2 and it combines readily with other elements. The common mineral galena which is lead sulfide (PbS) is an example.

For decades, lead was added to gasoline as an anti-knock compound but is now illegal in most countries. Lead is famous for its use in shielding us from radioactive particles. Lead is used in lead bullets, one of the metals in common solder, and once was used to make pipes as it was easy to mold. Lead glass can contain 20% lead and still be totally transparent. Lead is used to make fishing weights, commonly used in paints, and is used to make batteries like the lead-acid batteries used to start our cars.

Human and animal health problems caused by exposure to lead are well known from intellectual impairment to direct poisoning. Children are the most sensitive to lead exposure.

Lead has been found to play a role in carcinogenesis via manipulation of DNA.

The Lancet medical journal (April 2018) finds that low-level lead exposure is responsible for the deaths of 412,000 Americans each year, primarily from lead-induced heart disease and ischemic heart disease.

Gardening and Landscaping Problems Associated with Lead (Pb)

There is no known benefit of lead to plants. However, lead is easily absorbed by plants and is taken up into the roots where it is stored. Plants can also absorb lead via atmospheric deposition through their foliage.

Some microorganisms like (*Rhizopus arrhizus*) can accumulate lead. Many sunflowers are hyper-accumulators of lead as is the plant *Amorpha canescens*.

Lead salts like lead nitrate $\text{Pb}(\text{NO}_3)_2$ has been shown to stimulate the growth of some plants.

Fertilizers made from dried sewage sludge (Milorganite, Hou-Actinite, etc.) often have high levels of lead.

Sources: mineral sands of igneous rocks, combustion of coal, incineration of wastes, sewage sludge

83) **Bismuth (Bi)** - Bismuth is the last known stable element (has such an extremely long half-life that it is considered stable for all practical purposes).

Bismuth is found in igneous rocks 0.17 ppm, and shale at 1 ppm. There is very little in fresh or seawater and very little in animals. Soil organic matter tends to bind to bismuth.

It is a semi-metallic element and can become a super conductor at five ten-thousandths of a degree above absolute zero. Combined with other elements in can make powerful magnets.

Phosphorous fertilizers often have high levels of bismuth associated with them.

A lack of bismuth in an animal's diet often results in ulcers from the bacteria *Helicobacter pylori*. The active ingredient in the stomach medicine Pepto-Bismol that is 57% bismuth by weight (bismuth subsalicylate) and along with antibiotics will cure ulcers.

Compounds of bismuth are used in several medical applications. The role of bismuth in humans and animals is relatively unknown and appears to be a benign heavy element.

Gardening and Landscaping Problems Associated with Bismuth (Bi)

Not much is known about the role of bismuth in plants. Plants grown in soils with higher levels of bismuth will have higher levels in their tissue. Some trees will accumulate bismuth to 800 ppm.

Sources: mineral sands of igneous rocks, coal combustion, sewage sludge, artificial fertilizers, re-mineralizer

Conclusion:

This is the last of the stable elements one is likely to encounter or need when gardening, and that are often found in our soils. The remaining elements are rare and radioactive and will not be covered at this time.

In good organic soils the microbes and plants work together to regulate the absorption of these elements, giving us the good ones and restricting the absorbing of the bad and harmful ones.

When we use toxic chemicals (pesticides, fungicides, herbicides, artificial fertilizers, etc.) we mess up this regulatory system and that natural balance that God gave us. The results are the problems we see in society today.

Re-mineralization is one of the hottest topics in gardening, horticulture, agriculture, animal and human health. There is an international organization called "Remineralize The Earth" that has additional information. www.remineralize.org.

* * *

NWR NOW CARRIES SEEDS FROM

NATIVE AMERICAN SEED COMPANY

\$3.00 EACH !

LAZY GARDENER & FRIENDS HOUSTON GARDEN NEWSLETTER CALENDAR EVENTS

SUBMITTING EVENTS? PLEASE READ!

- *Only events submitted specifically for LG&F calendar are used*
- *Put sponsor's FULL name in email subject.*
- *Very long links will be shortened, but full link activated when clicked*
- *Submit events to: lazygardenerbrenda@gmail.com*

EVENTS ARE ON-SITE UNLESS OTHERWISE NOTED

***--- COVID IS IMPACTING ON-SITE GARDENING EVENTS ---
CONFIRM TO MAKE SURE ON-SITE EVENTS HAVEN'T BEEN CANCELLED
OR SWITCHED TO VIRTUAL. SOME MAY REQUIRE MASKS. GO PREPARED!***

**FRI-SAT., FEB 11-12: GALVESTON COUNTY MASTER GARDENER
SPRING PLANT SALE.** Online only. Browse: Fri, Jan 4. Shop: Noon Fri to
Noon Sat. store.galvestonmg.org

**SAT., FEB.12: URBAN GARDENING AND AFRICAN AMERICAN
TRADITIONS FROM THE GARDEN** by TERRY GARNER AND CHEF NADIA
AHMED, 9am -12pm, Palm Center Garden. urbanharvest.org/education

**SAT., FEB.12: GROWING FRUIT TREES IN SMALL SPACES: SPRING
PREPARATION** (Zoom) by ANGELA CHANDLER, 9:30-11:30am. Urban
Harvest event. urbanharvest.org/education/classes/

**SAT., FEB. 12: FRIENDS OF MERCER BOTANIC GARDENS TOMATO &
FRUIT TREE SALE** (virtual), 8am-8pm, Inventory: [Friends of Mercer Botanic
Gardens](https://Friends of Mercer Botanic Gardens); 713-274-4166.

SAT., FEB. 12: BRAZORIA MASTER GARDENER CITRUS & FRUIT SALE
(no cash sales), 9am-noon, Angleton Fairgrounds, 901 South Downing,
Angleton. txmg.org/brazoria/. 979-864-1558

MON., FEB. 14: SPRING VEGETABLE GARDENING by HARRIS COUNTY
MASTER GARDENERS, virtual, 10-11:30am, Free. With Houston Community
College. Register: hccs.edu/community-learning-workshops

TUES., FEB. 15: HOUSTON BOTANIC GARDEN by **FRAN DE LA MOTA**, 10am, St. Basil's Hall, 702 Burney Rd, Sugar Land. Free. sugarlandgardenclub.org.

MON., FEB. 15: SPRING VEGETABLE GARDENING by **HARRIS COUNTY MASTER GARDENERS**, virtual, 11am-noon, Free. With Harris County Public Library. hccs.edu/community-learning-workshops

WED., FEB. 16: 2022 NANCY STALLWORTH THOMAS HORTICULTURE LECTURE: NATURE'S BEST HOPE TO CONSERVATION THAT STARTS IN YOUR YARD by **DR. DOUG TALLAMY**, 10am, St. Martin's Episcopal Church, 717 Sage Rd. Free. Garden Club of Houston event. gchouston.org

WED., FEB. 16: MERCER BOTANIC GARDEN VOLUNTEER ORIENTATION, 6-7pm., Timber Lane Community Center. Free. Register: hcp4.net/parks/mercer/events/required. 713-274-4160.

THU., FEB. 17: CULTURAL CONNECTIONS- HISTORIC LAND THEN AND NOW (Zoom) by **BILLY LAWTON**, 6-7:30 pm. Urban Harvest event. urbanharvest.org/education/classes/

FRI., FEB. 18: GARDEN CRUISIN': TOUR DE 4, 9am & 11am, [Mercer Botanic Gardens](http://MercerBotanicGardens). Free. Ages 60+ or anyone age 12+ with mobility needs. Register: hcp4.net/parks/mercer/events/. 713-274-4160.

SAT., FEB 19: SPRING VEGETABLE GARDEN CLASS (virtual) by **THE WOODLANDS TOWNSHIP**, 9am-noon. Free. Online. Register: thewoodlandstowship-tx.gov/Calendar.aspx?EID=9233

SAT., FEB 19: INVASIVE SPECIES TRAINING by **THE WOODLANDS TOWNSHIP**, 8:30am-3:30pm. The Woodlands Emergency Training Center. Register: thewoodlandstowship-tx.gov/Calendar.aspx?EID=9217

MON., FEB. 21: GENOA FRIENDSHIP GARDEN OPEN GARDEN DAY, 8:30-11AM, 1210 Genoa Red Bluff Road. Free. Plant sale. hcmga.tamu.edu/shop/

WED., FEB. 23: TREE-RIFIC VOLUNTEERS, 9am. Mercer Botanic Gardens Horticultural Propagation Center. Free. Register: [Mercer Botanic Gardens](http://MercerBotanicGardens). 281-353-8100.

THUR., MAR. 3: SUCCESSFUL GARDENING TIPS by **MARY KARISH**, 6pm, Waller County Extension Office, 846 6th St., Hempstead. Waller County Master Gardeners event. Reservation: 979-826-7651/.

SAT., MAR. 5: WALLER COUNTY MASTER GARDENER ANNUAL VEGETABLE AND HERB SALE. 9am-1pm, Extension Office, 846 6th St., Hempstead. txmg.org/wallermg.

SAT., MAR. 5: BRAZORIA MASTER GARDENER VEGETABLE SEEDLING SALE, 9am - Noon (no cash sales), Brazoria Environmental Education Station, 583 CR 443, Angleton. txmg.org/brazoria/, 979-864-1558

THURS., MAR. 10: ART OF FERTILIZATION: RIGHT PRODUCT, RIGHT TIME, RIGHT REASON by **GAYE HAMMOND** (virtual & in-person), 7-9pm, St.

Andrew's Episcopal Church, 1819 Heights Blvd. Free. Houston Rose Society event. Link: houstonrose.org/

FRI., MAR. 11: THINGS I WISH I HAD LEARNED SOONER by **BAXTER & PATSY WILLIAMS**, 10AM, Trinity Episcopal Church, 1015 Holman St., Free. Federation of Garden Clubs event. houstonfederationgardenclubs.org.

SAT. MAR 12: TOMATO STRESS MANAGEMENT by **IRA GERVAIS**, 9-11:30am. **GARDENING FOR JEWELS—HUMMINGBIRDS**, by **DEBORAH REPASZ**, 1-3pm. Register: galveston.agrilife.org/horticulture/mgseminars/

SAT., MAR. 19: THE JOHN FAIREY GARDEN BUDDING OUT PLANT SALE & FESTIVAL, 10am-4pm, 20559 FM 259 Rd., Hempstead. 979-826-3232

SAT., MAR. 26: BRAZORIA MASTER GARDENER CITRUS SPRING PLANT SALE, 9am - noon (no cash sales), Brazoria Environmental Education Station, 583 CR 443, Angleton. txmg.org/brazoria/, 979-864-1558

SAT., MAR. 26, HERB FESTIVAL AT THE WYNNE HOME 8am-2pm. Wynne Home Arts Center, 1428 11th St., Huntsville. The Herb Society of America/Thyme Unit event. texasthymeunit.org; 936-891-5024

SAT. MAR 19: CUCURBITS—SQUASH & CUCUMBER FAMILY by **KEVIN LANCON**, 9-11:30am. **SUCCESSFUL CONTAINER GARDENING** by **KAROLYN GEPHART**, 1-3. Register: galveston.agrilife.org/horticulture/mgseminars/

SAT. MAR 26: IRISES FOR THE GULF COAST GARDEN by **MONICA MARTENS**, 9-11:30am. **RAINWATER HARVESTING** by **NAT GREUSEN**, 1-3pm. Register: galveston.agrilife.org/horticulture/mgseminars/

SAT., MAR. 26-APR. 3: NEAR NORTHWEST MANAGEMENT DISTRICT VIRTUAL SPRING PLANT SALE, Presentation by **HEIDI SHEESLEY**, White Oak Conference Center. Pickup: Treeseach Farms. nnmd.org

FRI., APRIL 14: MAKE GARDENING EASIER by **DR. JOSEPH R. NOVAK**, 10am Trinity Episcopal Church, 1015 Holman. Free. Federation of Garden Clubs event. houstonfederationgardenclubs.org.

SAT. APR. 30: BROMELIAD SOCIETY/HOUSTON SPRING BROMELIAD SALE, 9am-4pm, Metropolitan Multi-services Center, 1475 W. Gray. Free. bromeliadsocietyhouston.org

FRI. MAY 13: NATURE'S BURIAL, LEAVING A NATURAL LANDSCAPE AS YOUR LEGACY, by **THE KATY PRAIRIE CONSERVANCY**, 10am, Trinity Episcopal Church. 1015 Holman. Free. Federation of Garden Clubs event. houstonfederationgardenclubs.org.

SAT.-SUN., MAY 21-22: BROMELIAD SOCIETY/HOUSTON ANNUAL SHOW-SALE, 9am-5pm Sat.; 11am-4pm Sun., Judson Robinson, Jr. Community Center, 2020 Hermann Drive. bromeliadsocietyhouston.org

— *Check contacts for changes and/or masking policies* —

NOTE! Only events submitted specifically for this calendar publication

*will be used. We do not pick up events from other newsletter or mass emails.
Links will be fully linked if clicked but word-shortened if too long.*

* * *



For event submission rules, see top of calendar
If we inspire you to attend any of these,
please let them know you heard about it in . . .
THE LAZY GARDENER & FRIENDS NEWSLETTER!
& please patronize our Newsletter & Calendar sponsors below!

If you are interested in becoming a sponsor, please contact us
at 936-273-1200 or send an e-mail to: lazygardenerandfriends@gmail.com





About Us

BRENDA BEUST SMITH

WE KNOW HER BEST AS THE LAZY GARDENER . . .

but Brenda Beust Smith is also:

- * a national award-winning writer & editor
- * a nationally-published writer & photographer
- * a national horticultural speaker
- * a former Houston Chronicle reporter

When the Chronicle discontinued Brenda's 45-year-old "Lazy Gardener" print column -- started in the early '70s as a fun side-project to reporting, it then ranked as the longest-running, continuously-published local newspaper column in the Greater Houston area.

Brenda's gradual sideways step from reporter into gardening writing -- first as a just-a-fun side Chronicle assignment in the early '70s, led first to an 18-year series of when-to-do-what ***Lazy Gardener Calendars***, then to her ***Lazy Gardener's Guide*** book which morphed into her ***Lazy Gardener's Guide on CD***, which she now emails free upon request.

A Harris County Master Gardener, Brenda has served on the boards of many Greater Houston area horticulture organizations and has hosted local radio and TV shows, most notably a 10+-year Lazy Gardener specialty shows on HoustonPBS (Ch. 8) and her call-in "EcoGardening" show on KPFT-FM.

For over three decades, Brenda served as as Production Manager of the Garden Club of America's ***BULLETIN*** magazine. Although still an active broad-based freelance writer, Brenda's main focus now is ***THE LAZY GARDENER & FRIENDS HOUSTON GARDEN NEWSLETTER*** with John Ferguson and Pablo Hernandez of Nature's Way Resources.

A native of New Orleans and graduate of St. Agnes Academy and the University of Houston, Brenda lives in Humble, TX, and is married to the retired Aldine High School Coach Bill Smith. They have one son, Blake.

Regarding this newsletter, Brenda is the lead writer, originator of it and the daily inspiration for it. We so appreciate the way she has made gardening such a fun way to celebrate life together for such a long time.

JOHN FERGUSON

John is a native Houstonian and has over 27 years of business experience. He owns Nature's Way Resources, a composting company that specializes in high quality compost,

mulch, and soil mixes. He holds a MS degree in Physics and Geology and is a licensed Soil Scientist in Texas.

John has won many awards in horticulture and environmental issues. He represents the composting industry on the Houston-Galveston Area Council for solid waste. His personal garden has been featured in several horticultural books and "Better Homes and Gardens" magazine. His business has been recognized in the Wall Street Journal for the quality and value of their products. He is a member of the Physics Honor Society and many other professional societies. John is is the co-author of the book ***Organic Management for the Professional.***

For this newsletter, John contributes articles regularly and is responsible for publishing it.

PABLO HERNANDEZ

Pablo Hernandez is the special projects coordinator for Nature's Way Resources. His realm of responsibilities include: serving as a webmaster, IT support, technical problem solving/troubleshooting, metrics management and quality control.

Pablo helps this newsletter happen from a technical support standpoint.

