



# SAABE TIMES

A publication of the San Antonio Association of Building Engineers

May 2005

Mark Your Calendar—

## JOIN US FOR OUR MAY LUNCHEON

The next General Membership Meeting of the San Antonio Association of Building Engineers is set for 11:30 am on Wednesday, May 18. This month's speakers are Ruth Hooks and Ed Schaefer from the Lower Colorado River Authority, who will be speaking on "From Disaster Recovery to Homeland Security: Using Old Concepts to Plan for the New Normal."

The meeting will be held in the first floor Travis/Bowie rooms, to the right of the entrance. There is plenty of parking at the back of the restaurant. **Please make sure to check in at the front desk when you arrive.**

Please RSVP to (210) 408-1699 by Tuesday, May 17. PLEASE RSVP so we can be sure to have enough meals on hand!

We hope to see you there! ❖

## "GET SMART" AT THE SAABE/SABOMA TRADE SHOW!

THURSDAY, MAY 19 • 4:30–8:00PM  
AIRPORT CONVENTION CENTER

Mark your calendar! The SABOMA/SAABE Trade Show is back—Thursday, May 19 at the Airport Convention Center from 4:30–8:00 pm.

The Trade Show committee adopted a new policy this year that non-exhibiting vendors must pay \$100 to attend the show, whether they are members or not (unless they have donated a door prize or food sponsorship). The fee also does not apply to spouses of managers/engineers/exhibitors who may work for a non-exhibitor as long as they do not attempt to market their products or services. As always, property managers and engineers/maintenance staff attend at no charge.

This year's theme is "Get Smart at the SAABE/SABOMA Trade Show," featuring classic TV shows. Vendors selected "classic TV" shows as booth themes, and many of them will attend "in costume." There will be lots of great door prizes and good food. Come in costume, or come as you are, but do not miss this fun event!!

## TRADE SHOW SEMINAR

### "CONSEQUENCE-BASED PLANNING: WHEN SCENARIOS DON'T MATTER"

THURSDAY, MAY 19 • 12:30–4:30PM  
COURTYARD BY MARRIOTT AIRPORT

(right next to the Airport Convention Center)

This seminar is specifically designed to aid property managers, corporate facility managers, and maintenance staff in developing a contingency plan for emergencies. It's presented by Ruth Hooks and Ed Schaefer of the Lower Colorado River Authority, whose Emergency Management Dept. provides emergency planning and training, emergency response, and hazard mitigation for LCRA's customers and constituents.

No business is immune from experiencing a serious incident that can prevent it from continuing normal operations. Property managers have responsibility to recover from such incidents in the minimum amount of time, with minimum disruption and at minimum cost. This requires careful planning. By outlining the most common steps in contingency planning and disaster recovery, this seminar will make this process far less daunting.

Cost is \$45 for SAABE members (\$60 for non-members). Call 830-981-5223 (do not dial "one" if calling from San Antonio) to register. ❖

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## A Message from the President

by guest columnist Charles Mikolajczyk

### Tradeshaw

Is everyone ready for the 9<sup>th</sup> SABOMA/SAABE Tradeshaw? May 19<sup>th</sup> is well anticipated as the time to pore over new technology, revitalize old/acquire new relationships, and network with the different vendors.

We would also like to point out that Tom Lasater has done an outstanding job as a chairperson on the Door Prize and Food Sponsor Committee. By the way, there will be some great gifts given away as door prizes (\$100+ value) throughout the tradeshow...WOW! There is also going to be a pretty good spread laid out for food, and we would also like to thank Tom Lasater once again for gathering up the Food Sponsors whom were needed to make this possible as well. As you can see, there will be great fun and excitement for all and a day to remember! Please be sure and contact Laura and pre-register yourself so that you are not held up at the door getting registered. The attendance is anticipated to be phenomenal. See the front page for details.

### Charles Gilbert

We have heard from Charles Gilbert on occasion over the past few weeks...his e-mails chronicle his experiences... his stories of the different cultures and driving habits has been quite comical but more importantly, reveals that as often as we consider what we have, we have not a clue what living conditions are like in third-world countries. We wish Charles

Gilbert the best of luck and our greatest wishes for his safety during his adventure.

### Chapter 10 Electrical Code

Well, we are basically back to square one in regards to the Chapter 10 (City of San Antonio Electrical Code). The Electrical Board was unable to make a majority vote on accepting the revisions/amendments as proposed by the Chapter 10 Review Committee so the vote for approval has failed. Chapter 10 is still open to revisions. A new Review Committee has been established. As I understand it, both SAABE and SABOMA are going to have a representative seated at the Committee meetings! More to come as things develop on this issue. We would also like to express our appreciation to those whom were able to be present at the Committee meetings and the Board meetings over the past months, representing SAABE and our landlords. Our presence was well received by our showings and we will once again need your support when the Review Committee convenes back on this issue.

### Get Well Soon

In case you have not already guessed it, I am filling in for our dear El Presidente while he is undergoing knee surgery... so don't get used to me being on the back of the front page! Hopefully, Big Bob will be in familiar form at the SAABE General Membership meeting on May 18<sup>th</sup>. We wish Bob a speedy recovery and promise not to make any jokes about his kneepads (other than this one ☺).

### Breaking News/Social Time

Bob (El Jefe) is also presently working on putting together a camping trip out in the hill country possibly in June. More info to come on this upon Bob's return! In addition, SAABE was planning a social as a celebration for all those whom put endless hours of dedication into the Chapter 10 Electrical Code issue...since this issue is back on table, I say we get together and have a social anyway. For all those whom agree, please forward your comments/suggestions to the SAABE Social Coordinator (Jeff Turov) at [jturov@trane.com](mailto:jturov@trane.com) (he will love the attention).

Adios for now (unless your going next door to read the Tech-Talk article), Big Bob will be back at the helm/2<sup>nd</sup> page next month.

—The Charlie (Instigator Extraordinaire) ❖

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## Tech Talk #94: Glass—What You Know May Not Be as Clear? (part 2) by The Charlie

### Laminated Glass

Automakers began using laminated safety glass, also known as auto glass, for automobile windshields around 1927. To make laminated safety glass, the manufacturer sandwiches a thin layer of flexible clear plastic film called polyvinyl butyral (PVB) between two or more pieces of glass. The plastic film holds the glass in place when the glass breaks, helping to lessen injuries from flying glass. The film also can stretch, yet the glass still sticks to it. It is also quite difficult to penetrate laminated safety glass, compared to normal windowpane glass. Laminated safety glass "the sandwich with some give," also helps hold the occupants in a vehicle!

Laminated safety glass has two other additional benefits: (a) it reduces transmission of high frequency sound, and (b) it blocks some of the ultraviolet radiation. Laminated safety glass resists falling out of its frame during an earthquake or a tornado.

### Bullet-Resistant Glass

At first glance, bullet-resistant glass looks identical to an ordinary pane of glass, but that's where the similarities end. An ordinary piece of glass shatters when struck by a single bullet. Bullet-resistant glass is designed to withstand one or several rounds of bullets depending on the thickness of the glass and the weapon being fired at it. So, what gives bullet-resistant glass the ability to stop bullets?

Different manufacturers make different variations of bullet-resistant glass, but it is basically made by layering a polycarbonate material between pieces of ordinary glass in a process called lamination. This process creates a glass-like material that is thicker than normal glass. Polycarbonate is a tough transparent plastic (often known by the brand name Lexan, Tuffak or Cyrolon).

The ability of bullet-resistant glass to stop a bullet is determined by the thickness of the glass. A rifle bullet will collide with the glass with a lot more force than a bullet from a handgun, so a thicker piece of bullet-resistant glass would be needed to stop a rifle bullet as opposed to a handgun bullet.

Bullet-resistant glass thickness can range between 21 millimeters/13/16" (UL752 Level I, 9mm Uzi, 3-shots in a 4" triangle), to 75 millimeters/2-15/16" (EN1063 Level B 7, 7.62 x 51 mm rifle, armor piercing bullets, 3-shots in a 5" triangle). A bullet fired at a sheet of bullet-resistant glass will pierce the outside layer of the glass, but the layered polycarbonate-glass material is able to absorb the bullet's energy and stop it before it exits the final layer.

There is also one-way bullet-resistant glass available, which has one side able to stop bullets, while the other side allows bullets to pass through it unaffected. This gives a person being shot at the ability to shoot back (now we're talking)! Laminating a brittle sheet of material with a flexible ma-

terial makes this type of bullet-resistant glass. Imagine a car equipped with this one-way bullet-resistant glass. If a person outside the car shoots a bullet into the window, the bullet would strike the brittle side first. This brittle material would shatter around the point of impact and absorb some of the energy over a large area. The flexible material then absorbs the remaining energy of the bullet, stopping the bullet. A bullet fired from inside the same car would easily pass through the glass because the bullet's force is concentrated on a small area, which causes the material to flex. This causes the brittle material to break outwards, allowing the bullet to pierce the flexible material and strike its target. Now all we need for our vehicles is one-way-bullet-resistant-paint!

**Next Month:** How Budgets and Proposals Fail

**CHARLIE'S LAW:** When weeding, the best way to make sure you are removing a weed and not a valuable plant is to pull on it. If it comes out of the ground easily, it is/was a valuable plant!

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## Education Corner

**A SPECIAL THANKS TO BOLIN PLUMBING (688-3177) AND CURAFLO OF SAN ANTONIO (653-5325) FOR PROVIDING OUR JANUARY AND FEBRUARY TRAINING SEMINARS!**

### Understanding Texas Mold Regulations

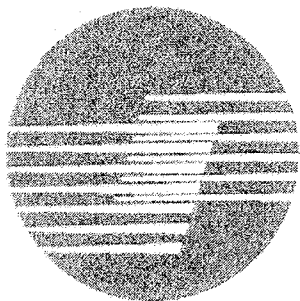
Sponsored by SAABE and Offered by Gerloff

- Thursday, May 26 at Gerloff's offices (14955 Bulverde Rd., 490-2777).
- **FREE** for SAABE members.
- 11:30am–1:00pm, **lunch included**.
- RSVP required (participation limited to 20). RSVP to Laura Bray at 408-1699.
- This seminar offers a concise condensation of the "Texas Mold Assessment and Remediation Rules" enacted by the Texas Department of State Health Services in January of 2005. These new regulations have the potential to affect all residential and commercial property owners as well as those in the insurance industry. Topics covered will include the historical problems with mold in Texas which led to Texas House Bill 329, situations in which the regulations apply, exemptions to the rules, ethics, requirements for assessors, remediators and laboratories and consumer rights.
- Mark your calendars—SAABE seminars will always be held the last Thursday of every month.

### HVAC Test Preparation Seminar

- Sponsored by Construction Seminars, endorsed by the Texas Air Conditioning Contractors Association
- May 20–22, Austin
- Cost: \$450
- Call 1-888-500-PASS or visit [www.constructionseminars.com](http://www.constructionseminars.com) for more info.

Contact Laura Bray (408-1699) if you know of other courses or events. ❖



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Send ad copy (preferably in GIF or JPG formats) and payment to SAABE, PO Box 780785, San Antonio, TX 78278, or email (preferred) to [laurabray@braycommunications.com](mailto:laurabray@braycommunications.com).

### Vendors Wanted to Offer Training Sessions

SAABE is looking for vendors to offer lunchtime classes or seminars on topics of interest to building engineers. Our goal is to have a supplemental class on the last Thursday of every month (except November and December). Please contact Laura Bray (408-1699) ) if you'd like to offer a training session to SAABE members. ❖



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pmccurdy@griffinpartners.com

### Juan Perez

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San Antonio, TX 78229  
(210) 614-4488

### Rick McGarr

Metroplex  
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San Antonio, TX 78216  
(210) 798-2992  
rmcgarr@metroplex-control.com

### Bill King

Pumps Unlimited  
7131 Eckhert  
San Antonio, TX 78238  
(210) 684-4111

### Patty Martinez

Trammell Crow  
7411 John Smith Dr.  
San Antonio, TX 78229  
(210) 692-9200

### David Webb

Cardinal Roofing  
10730 Sentinel  
San Antonio, TX 78217  
(210) 967-4000  
dwebb@cardinalroofinginc.com

If you know someone who'd like to join SAABE, have them visit our web site at [www.saabe.org](http://www.saabe.org) to obtain a membership application. ❖

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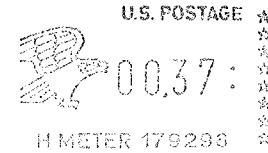
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**...and much more!**



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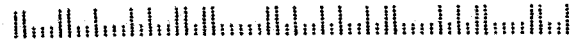
Charles Mikolajczyk, Jr., CBE-M  
 SAT 782XX Endeavor Real Estate Group #0410  
 8000 IH 10 W, Suite 250  
 San Antonio, TX 78230

**SAABE TIMES**  
**May Issue**

**Final Thought:**

*"Fortune brings in some boats that are not steered."*— William Shakespeare

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**2005 Board of Directors**

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<hr/>	
Laura Bray Association Manager (laurabray@braycommunications.com)	408-1699

**Membership Luncheon**

**May 18, 2005**

**Time: 11:30 a.m.**

**Location: Alamo Cafe on 281**

**"From Disaster Recovery to Homeland Security:  
 Using Old Concepts to Plan for the New Normal"**

**Upcoming Programs:**

**Wednesday, June 15**

**Alamo Café**

**Program to be announced**

The *SAABE Times* is edited by Laura Bray and printed monthly for the San Antonio Association of Building Engineers by:



210-340-5454  
 email: inkspot@onr.com