



The 'E-NEWS' logo consists of the word 'E-NEWS' in a bold, blue, sans-serif font. The letters are set against a background of horizontal yellow lines that create a sense of motion or a digital signal.

## *PGC Fall Symposium Brings Paradigm Shift for Association*

The Protective Glazing Council's Fall Symposium, held this October in Washington, D.C., created a successful new era for the Association. The event at the Ronald Reagan Building and International Trade Center featured a different scale for a PGC Event, as well as a new approach to spreading the message about the importance of protective glazing applications to the construction industry. With nearly 200 registered attendees, the event held something for everyone.

Major General Charles E. Williams kicked off the Symposium with a comprehensive overview of the policies and strategies employed by the Department of State's Overseas Building Operations (OBO) program. Williams, the head of OBO, discussed how new United States Embassies built by the program enacted a "transformational diplomacy" focus championed by U.S. Secretary of State Condoleezza Rice.



*Major General Charles E. Williams addresses attendees at the PGC Fall Symposium in Washington, D.C.*

"[The program] expresses the United States architectural aesthetic through the embassy design while incorporating the host country's design style," explained Williams about the implementation of the approach. "The results speak for themselves."

The program began in 2001 by building one embassy per year, which increased dramatically to 12 embassies per year in 2005. "Any American would be very proud of any one of these [embassies]" concluded Williams.

Buck Revell, the former Associate Deputy Director of the Federal Bureau of Investigation (FBI) took the stage next with a presentation on the real world terrorist threat to structures in the United States and the world. Revell began with a history of terrorism, which generally exists along "geopolitical and religious reasons." He also looked at the potential for "home-grown" terrorism within the United States from left-wing and right-wing organizations looking to add violent means to their arsenal.

Revell's focus on international terrorism looked strongly at Al Qaeda and others who "use religion as their basis for attack." He warned against Russian, Cuban and Venezuelan organized crime helping groups to gain access to weapons of mass destruction (WMD). "Although we worry about weaponized nukes, chemical and biological weapons," said Revell, "conventional weapons systems are still the greatest threats to us."



*Buck Revell, the former Deputy Director of the FBI, discusses threats from terrorism during the PGC Fall Symposium.*

Dean Alexander, a professor at Western Illinois University and author of several books and articles on terrorism, focused on chilling new targets being attacked by terrorists around the world. Car bombs and suicide bombers are being

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#### **PGC E-News**

*Published by the*  
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## Symposium Continued...

used in popular areas to create mass destruction and deaths, explained Alexander.

“Bombs inside the trunks of a car are being driven through the doors into shopping malls, hospitals, hotels and churches,” explained Alexander. “This is being fueled by a greater desire for more lethal activities and mass casualties.”

Furthermore, western looking people are being recruited to make spotting terrorists more difficult. “We can’t be static in our response,” he warned.

Jaime Gascon began the afternoon session of the first day by focusing on ever-strengthening hurricane codes in Florida, a trend which is being seen across many Gulf Coast and Atlantic states. Gascon, the Director of the Miami-Dade County Building Code Compliance Department, explained the timeline for the forthcoming 2007 Florida Building Code, which uses the 2006 International Building Code as its base. The next year will see a lot of activity to finalize the changes in the Code, which will be printed in January 2008 and implemented in October of that year.

Gascon showed several examples of hurricane-inflicted damage to large skyscrapers, and he discussed the various proposals/methods that could be used to reduce the damages in the future. Some of the items being discussed for the code include:

- Using ANSI Z97.1 safeguard requirements for curtainwall and window walls
- Using plastics requirements for laminates, as well as tensile testing after weathering tests
- Using product labeling for energy efficient impact resistant products
- Raising the large impact missile test requirement to a level higher than 30 feet; and
- Potentially using a “wall of wind” test method, which he said was gaining momentum for being implemented into the codes

Gascon concluded by stressing the importance of minimizing the debris field in a hurricane. “By keeping all building

components attached, we can minimize the life and safety issues in a hurricane,” said Gascon.



*Jaime Gascon discusses the future of the Miami-Dade County hurricane codes at the PGC Fall Symposium.*

John Talkington of the Smithsonian Institution’s Office of Protection Services continued the Symposium with a look at “real world” implementation of protective glazing solutions into a building environment. Using the Smithsonian’s implementation of protective glazing and security solutions in the shadow of 9/11, Talkington stressed the initial evaluation of an organization’s security priorities.

“Protective glazing requirements become an integral part of the planning, design and construction of new and major modernization projects,” said Talkington.

“All of this needs to be considered while still allowing for the organization’s mission.” Talkington concluded with several examples of how the Smithsonian used a blend of retrofit with new construction to achieve their security goals.

Bill Koffel of Koffel and Associates, as well as the code consultant for the Glazing Industry Code Committee, concluded the first day of the Symposium with a look at how fire-rated glazing technologies are converging with protective glazing, resulting in applications which can provide an element of both in their protections. Koffel also discussed recent proposed changes in the fire code that could adversely affect protective glazing installations by requiring more sprinklers as any



*John Talkington leads attendees through the considerations in adding protective glazing technologies to a project.*

protective glazing-protected opening would not be considered an opening by the fire code. The proposal was the result of firefighters having difficulty creating openings through protective glazing applications, a problem being remedied by the GSA Firefighter Training program which PGC helped create.

During the two-day Fall Symposium, 17 PGC member companies exhibited their services and products to attendees and others in the Reagan Building, one of the largest and most expensive Federal buildings ever constructed. Attendees were able to visit with exhibitors and members while refreshments and lunches were served.

“PGC provided attendees with great information and educational opportunities during this event,” said Stan Smith,

*Continued on Page 3...*

## Symposium Continued...

Executive Director of PGC. “This is the first of many PGC events that will strive to reach a larger, more architectural-focused audience with a higher level of information and hospitality.”

The second and final day of the Symposium began with further discussion on converging technologies, as Dan Kelley of Applied Research Associates discussed the results of a study done by ARA to look at how the blast protections of the Gulfport Federal Building in Gulfport, Mississippi, fared during the devastations of Hurricane Katrina fifteen months ago. Beginning with a discussion on the difference between blast and hurricane design, Kelley illustrated with the use of video and photographs how well the blast resistant glazing did in the hurricane.

“Only 25 exterior lites were broken on the entire building,” he explained. “One interior lite had interior cracking, but no water came through.” Some water damage occurred on higher floors, but that was because of roof damage, explained Kelley.

Bob Ford of Solutia Inc. continued the hurricane focus of the Symposium with a comprehensive presentation on hurricane glazing products and technologies, as well as the various codes and testing methods required. Ford illustrated the differences in the technologies, and showcased many successes during hurricanes by the array of solutions available. He concluded by explaining the need to protect structures in light of the 30-year high activity cycle which just began.

Wade Belcher of the GSA’s Office of the Chief Architect showed several photographs of the advanced aesthetic an architect can use in design when incorporating protective glazing technologies. “Architects can use beautiful design, including extensive use of daylighting, while providing protection for building occupants,” he explained.

John Abruzzo of The Thornton Tomasetti Group began the afternoon session of the final day of the Symposium by walking through a commercial project incorporating protective glazing from initial planning sessions to final construction. In doing so, he highlighted several variables that building owners, architects and others

need to remember when planning for protection against blast hazards. He concluded with a list of items that he felt could



*Bill Koffel highlights the convergence of fire-rated glazing with protective glazing technologies.*

benefit the commercial construction industry, such as the development of a standard for commercial projects that incorporates elements of the GSA standard while allowing for variable protection.

The Fall Symposium came to a close with a presentation on electronic anti-surveillance technologies incorporated into glazing by Ron Waranowski of ASTIC Signals Defenses. Waranowski’s presentation scope covered everything from LAN “war dialing” to electromagnetic surveillance through existing glazing in structures.

“In the end, you must take the steps to protect intellectual property from literally and figuratively ‘flying out through the glass’ to your competitors or your enemies,” he said.

“This Symposium was very beneficial,” said Alan Lockman of the Philadelphia-based Ewing Cole architectural firm which employs 280 people. “Every speaker had interesting and vital information.”

The PGC Board, spurred by the success of the event, changed the current meeting structure from having two Symposiums per year to one Annual Symposium to be held in the Fall in Washington, D.C. The next PGC Symposium is tentatively scheduled for the last week of November 2007.



*Ron Waranowski explains the dangers of futuristic electromagnetic eavesdropping technologies.*

“By having one Symposium per year, supplemented by a Spring working meeting of the membership, PGC continues to raise the profile of this Fall event,” said Stan Smith. “We are already working on adding a high profile group of speakers for 2007 that exceeds the level we achieved here.”

Authorized presentations from the 2006 Fall Symposium have been placed on the PGC website at [www.protectiveglazing.org](http://www.protectiveglazing.org) for download. Plans are underway for the 2007 PGC Spring Meeting, to be held April 11-12, 2007 at the Hyatt Regency Orlando International Airport in Orlando, Florida. Registration for this event will open online at the PGC website soon.

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A 2005 GAO report found access to over 1,000 Wireless Networks accessible by driving a 15 block distance in Washington, D.C. with a common network scanner! The signal leakage allowed for unauthorized users to monitor, check any security configurations and eavesdrop. Signal leakage can be stopped by deploying SD Technology on windows & glass fenestrations of the building, offering upwards of 50 dB+ attenuation to wireless network signals. If wireless signal is not accessible then any miscues with respect to encryption, authentication, vpn and firewall rules will be protected until they are corrected.

**W**ith a brawny laptop and inexpensive electronics, *anyone* can conduct eavesdropping. Every electronic device (computers, printers, facsimile, PDA, Bluetooth, cell phone, etc.) “leaks” electromagnetic energy. This leakage is either un-intentional (displays or CRTs act like RF antennas) or intentional (wireless LANs, 802.11x). LASER microphones used to “listen” to conversations from hundreds of meters away from the targeted facility, also are readily available. They operate in the Infra-Red (IR) portion of the spectrum and are modulated by the vibrations of objects in the target facility.

Since the 1960's the U.S. Government and others have been aware of compromising acoustic and radio-frequency (RF) emissions from work environments, but only recently has eavesdropping not only of RF, but IR and Ultra-Violet (UV) become apparent. According to our contacts at the U.S. Department of Defense (DoD), more than 200 countries have, and use, high-end operational grade, eavesdropping equipment.

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International Trade Association representing window film manufacturers, distributors, installing denoers, and suppliers to the window film industry. Films and installation services offered by members include solar control and insulating films, safety and security films, automotive films, and clear protective and UV reducing films.

## PGC Welcomes New Members...

The following companies have joined as Full Members of the Protective Glazing Council since the April issue of the Enews:

**Arpal Defender, Inc.**  
 Arlington, VA  
[www.arpal-defender.com](http://www.arpal-defender.com)

**ASTIC Signals Defenses**  
 Baltimore, MD  
[www.astic.us](http://www.astic.us)

**Oldcastle Glass Blastwall Division**  
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[www.oldcastleglass.com](http://www.oldcastleglass.com)

**PRELCO, INC.**  
 Montreal, Canada  
[www.prelco.ca](http://www.prelco.ca)

## PGC Spring Meeting

**Hyatt Regency Orlando International Airport**  
**Orlando, Florida**  
**April 11-12, 2007**

This meeting will feature Committee work by several of PGC's Committees, a strategic planning session by the PGC Board of Directors, and a general business meeting. All PGC Member Companies are encouraged to attend.