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ANNUAL LEADERSHIP WORKSHOP BENEFITS RCI AFFILIATED CHAPTERS

By Catherine Moon

On November 3-4, 2011, 18 RCI members representing 16 out of 23 RCI Affiliated Chapters attended the annual RCI Affiliated Chapter/Region Leadership Development Training Workshop in Cary, NC. RCI President Rick Cook was in attendance and provided opening remarks noting the value of the program and the importance of developing leaders in RCI. He encouraged all chapters to participate in the workshop each year. RCI Chapter Development Committee Chairman Mike Williams emceed the event. The following presentations were delivered:

- Chapter Operations/Leadership/Mentoring by Doug Fishburn, RCI Chapter Development Committee
- Chapter Promotion/Planning by Robért Hinojosa, RCI Region II director
- RCI Relationships by Peter Brooks, RCI Region I director
- Emerging Professionals by Jeff Garrison, RCI Emerging Professionals Committee
- Roundtable Discussion Topic Planning by Marc Caputo, RCI Chapter Development Committee

Attendees received packages containing hard copies and CDs of the workshop presentations to take back to their chapters and share with other board members. Chapters not represented at the workshop were also sent the packages to benefit their officers and board members.

Prior to the workshop, an informal meeting of the region directors was held and facilitated by David Pierce, Region IV director. Topics of discussion included the newly revised Outstanding RCI Affiliated Chapter Awards Program, maintaining chapter interest, avoiding officer burnout, communication between region directors and chapters, the role of region directors to ensure chapter officer succession and chapter records history, involving at-large members, the role of region directors in identifying interested members and creating new chapters, and geographic distribution of regions.

At the end of the first day, attendees dined together and continued to network and share information about their chapters and regions.



RCI President Rick Cook gives opening remarks.



RCI Region II Director Robért Hinojosa discusses chapter promotion and planning.



RCI Chapter Development Committee Member Doug Fishburn speaks about chapter operations, leadership, and mentoring.

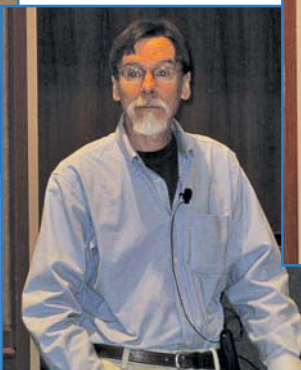


RCI Chapter Development Committee Chairman Mike Williams acts as the emcee of the workshop.

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RCI Chapter Development Committee Member Marc Caputo encourages attendees to choose topics for the roundtable discussions.



RCI Region I Director Peter Brooks delivers a presentation about the relationship among RCI, chapters, and regions.



RCI Emerging Professionals Committee Chairman Jeff Garrison discusses the importance of mentoring young professionals in the industry and involving them in RCI leadership.

The second day of the workshop began with a tour of RCI headquarters, during which attendees had the opportunity to meet staff and see the hub of RCI's operations. Later, attendees broke off into groups to participate in roundtable discussions. Topics discussed included education, board recruiting/mentoring, chapter size/geographic area, new technology, finance/fund-raising/spending, student involvement, and affiliated organizations. Attendees, responding to a questionnaire about the workshop, indicated that the roundtable break-out sessions were extremely beneficial, as the sessions gave them the opportunity to discuss chapter practices and issues with members of other chapters.

For more information about the leadership development workshop or chapter issues, contact RCI Leadership and Publications Specialist Catherine Moon by phone at 800-828-1902 or by e-mail at cmoon@rci-online.org.



Workshop attendees discuss a variety of topics during roundtable break-out sessions.



EXECUTIVE NEWS

RCI EXECUTIVE COMMITTEE CONDUCTS YEAR-END REVIEW

The RCI Executive Committee met in Charleston, SC, on December 1, 2011, to review the status of RCI programs, membership, and the budget. President Rick Cook reported that the status of RCI is very sound and complimented the Board of Directors, Executive Committee, and staff for a successful calendar year. The committee also approved a new strategic plan for RCI.

President-Elect Chip Ward reported that three of the high-priority objectives for the board next year will be a complete review of RCI governance structure and a review of RCI's code of ethics and the enforcement of policies to determine if any adjustments or changes are needed.

A special treat of the meeting was a home-cooked meal at the home of President Cook and his wife Sharon for the Executive Committee and spouses. A good time was had by all as they enjoyed a southern seafood extravaganza, including shrimp and oysters.



Left to right: Second Vice President Tom Gernetzke, Executive Vice President and CEO James Birdsong, First Vice President Chip Ward, President Rick Cook, Secretary/Treasurer Sidney Hankins, and Immediate Past President Bob Elsdon take a break from the Executive Committee meeting to have their picture taken.



Left to right: Rick and Sharon Cook, Sidney and Mercy Hankins, James and Sharon Birdsong, Vicki and Bob Elsdon, Tom Gernetzke, and Brenda and Chip Ward gather at the Cooks' home for some southern hospitality and fellowship.

Vote for 2012 RCI Officer Candidates by Mail or at Convention



The candidates described in these pages have been qualified by the RCI Nominating Committee for officer positions on the RCI Board of Directors. Elected candidates will take office at the conclusion of the 2012 RCI International Convention and Trade Show and will serve through the 2013 Annual Meeting.

The current system is designed to permit all RCI voting members with the opportunity to vote directly for the candidates of their choice.

All voting members of RCI will receive election materials through the U.S. Postal Service. If you choose to vote by mail, please follow the instructions and return your completed ballot to the independent tabulating firm in the envelope provided. If you plan to attend the Annual Meeting of the Members on Monday, March 19, 2012, at the 27th RCI International Convention and Trade Show in Dallas, TX, you may vote there and do not need to mail a ballot. If you do not plan to attend the convention or are unsure about your attendance at the March 19 meeting, complete and mail your ballot by January 30, 2012. No proxy votes will be accepted at the Annual Meeting of the Members.

Returned ballots will be counted by an independent tabulating firm, and that count will be combined with those voting at the Annual Meeting to determine the winner of each office.

If you decide to vote by mail, your name and address must remain on the ballot to verify its validity. The tabulating firm will not count anonymous ballots. It will track who voted and count the votes, but it will not record who voted for whom.

If you have any questions about the forms or the procedure, please contact the RCI office at 1-800-828-1902.



**THOMAS M. GERNETZKE, RRC, RWC, REWC,
RBEC, RRO**

CANDIDATE FOR FIRST VICE PRESIDENT

PROFESSIONAL EXPERIENCE

Tom Gernetzke began his career in the roofing industry as a low-slope division manager for a roofing contractor. Currently, he is a project manager and consultant for Facility Engineering, Inc., in Madison, WI. His firm focuses on building envelope engineering and professional consulting services. Tom has managed a diverse range of building envelope projects, including rehabilitations of roofing, exterior

cladding, below-grade waterproofing, plaza deck, and below-grade parking and concrete structures.

EDUCATION

- Attended the University of Wisconsin - Madison, majored in political science.
- Continuing education coursework includes University of Wisconsin - Madison low-slope roofing seminar and various seminars in concrete and masonry rehabilitation, marketing, and business operations.

PROFESSIONAL ACTIVITIES

RCI, Inc. Registrations

- Registered Roof Consultant, #333
- Registered Roof Observer, #0652
- Registered Waterproofing Consultant, #023
- Registered Exterior Wall Consultant, #9
- Registered Building Envelope Consultant, #3

RCI, Inc. Participation

- Member since 2004
- Currently serving as second vice president
- Region III director, 2008-2010
- Presenter at RCI conventions and building envelope symposia
- Chairman, 2012 Convention Committee
- RCI liaison to NRCA, 2008-2010
- October 2005 *Interface* article: "The Benefits of Roof Consulting Services in Architectural and Engineering Design"

POSITION STATEMENT

Since being elected to the Board of Directors, it has been my goal to carry out my RCI responsibilities with as much attention and dedication as I would with any client or project.

Many members have expressed to me that they feel the single most potential threat to RCI member prosperity is the proliferation of proprietary specifications and the use of cooperative purchasing in the government sector. I will continue to take a proactive approach in opposing these practices, which are clearly detrimental to the interests of our members and taxpayers throughout the U.S. and Canada. RCI must work to solidify its position in the industry and increase member credibility by demonstrating and promoting the value and transparency independent building envelope consultants bring to projects in the government sector.

The cornerstone of RCI continues to be its educational programs. I support the education committee and staff efforts to generate new roofing programs in the coming year, continue development of waterproofing and exterior wall programs, and continue to update existing programs.

RCI must continue to look to the future. I am fortunate to have been instrumental in the development of the Emerging Professionals Committee. I look forward to leading efforts in the development of scholarship programs and similar efforts to attract new members to our profession. I look forward to the implementation of the new strategic plan currently being finalized.

RCI must utilize its internal resources, such as the Technical Advisory Committee, to be more proactive and outspoken regarding issues of concern to our members. RCI must also monitor and be proactive in the development of building codes.

The RCI Board of Directors and staff must continue to be dedicated to the ongoing improvement of RCI and the prosperity and professionalism of our membership. I look forward to the challenges of the office of first vice president and ask for your support.

PERSONAL

Tom and his wife, Marianne, have been married for 16 years. They have two children: Michael, age 11, and Norah, 4. Tom enjoys sporting clays and hunting. He claims to be terrible at golf (but still enjoys playing occasionally) and has hit the Rosen Shingle Creek poolhouse on multiple occasions.



SIDNEY I. HANKINS III, AIA, RRC
CANDIDATE FOR SECOND VICE PRESIDENT

PROFESSIONAL EXPERIENCE

Sidney (Sid) Hankins is an architect and building construction consultant in Knoxville, TN. He is president and owner of Roof Design & Consulting Services, Inc.

In 1970, Sid began his career as an architect, working with A/E firms in Tennessee and North Carolina as a designer and project architect. From 1974 to 1980, he was an assistant professor of architecture at the University of Tennessee School of Architecture, where he taught design studio classes and authored courses in physical systems and materials, codes and zoning, and marketing professional services. In 1982, he entered private practice as director of properties and corporate architecture for a national hotel owner/developer and subsequently began providing independent design and construction consulting services. In 1994, Sid accepted a position as vice president, architect, and consultant for a Knoxville roof consulting firm, which was the predecessor of his present company, and he continues to maintain an active consulting and architectural practice in Knoxville.

During his career, Sid has been responsible for full-service commercial, governmental, and residential architectural projects as designer, architect of record, and principal in charge. His roofing and building construction consulting projects have included design, existing property evaluations, surveys, forensic investigations, and insurance/surety claim assessments for owners, contractors, financial institutions, and A/E firms.

During his career, Sid has been responsible for full-service commercial, governmental, and residential architectural projects as designer, architect of record, and principal in charge. His roofing and building construction consulting projects have included design, existing property evaluations, surveys, forensic investigations, and insurance/surety claim assessments for owners, contractors, financial institutions, and A/E firms.

EDUCATION

- Graduated 1970, Clemson University, bachelor of architecture, *cum laude*
- Graduate studies, urban planning, University of Tennessee
- Tau Sigma Delta, architectural honor society
- Phi Eta Sigma, scholastic honor society
- Seminars and courses by AIA, RCI, RIEI, NCARB, and building envelope symposia

PROFESSIONAL ACTIVITIES

- RCI Professional member since 2003
- Member, RCI Building Envelope Committee, 2006-2007
- Member, RCI Marketing Committee, 2008
- RCI Advocacy Subcommittee, chairperson, 2008
- RCI Region II director, 2009-2011
- Member, RCI Technical Advisory Committee
- RCI secretary/treasurer, 2011-2012
- Search Committee member for RCI director of educational services position
- Presented papers to Tennessee School Boards Association and Tennessee Association of Roofing Contractors

PROFESSIONAL REGISTRATION

- RCI Registered Roof Consultant, 2004
- Licensed architect, Tennessee, 1974 (plus five additional states)
- National Council of Architectural Registration Boards (NCARB) certificate, 1984-present
- American Institute of Architects, 1987-present
- AIA Tennessee and East Tennessee

POSITION STATEMENT

It has been a privilege to serve as a region director of RCI and most recently as secretary/treasurer. It has been an extraordinary opportunity not only to meet and work with many of our members, but also to work closely with the RCI staff and to learn how well our organization is managed.

I have learned that our members are the most essential ingredient to our success, and that they have invested their time and resources to ensure our continued progress; I have learned that our professionalism and ethics distinguish our members from other organizations; and I am convinced that RCI is positioned to become the leader in roofing, waterproofing, and building envelope expertise. To reach and maintain these goals, I believe we must do the following:

- Keep our members competitive and qualified
- Increase and improve our educational and registration programs and keep up with new technologies and industry demands
- Support and develop our chapters and their membership
- Assume a proactive role concerning local and national issues
- Support and contribute to the improvement of the built environment

I am a strong advocate for our chapters and believe they should be provided with all possible support and opportunities for individual member growth. I am always impressed with the diversity of the membership and the wealth of its knowledge and experience, but the competition is intense. The strength of our chapters is an advantage that we must preserve and foster.

I believe that RCI, Inc. must set the standard for professional practice, and we must encourage and require our members and registrants to observe and comply with applicable regulations and conduct. While our technical expertise is essential, our ethics and practice should be unquestioned.

For these reasons, I am a candidate for second vice president and would welcome the opportunity to continue to serve RCI.

PERSONAL

Sid and his wife Mercy have been married for 41 years and have one son, Joshua, 35. Leisure activities include golf and serving as the official timekeeper for University of Tennessee men's basketball for 28 years. He was inducted into the Greater Knoxville Sports Hall of Fame in 2004.



MICHAEL HENSEN, RRC, PEng, BSSO
CANDIDATE FOR SECRETARY/TREASURER

PROFESSIONAL EXPERIENCE

Michael Hensen is a vice president in the IRC Building Sciences Group and managing partner of its London, Ontario, operations. IRC is a building science engineering firm with offices across Canada, providing its clientele with building envelope, roof consulting, and structural engineering services. Michael’s duties include the promotion of IRC’s southwest Ontario business and management of professional services. He has acquired extensive experience with design, specification, and installation

of building envelope environmental protection systems on both new construction and remediation projects. His project engineering experience has included roofing, exterior walls, fenestration, plaza decks, parking garages, bridges, and all forms of below-grade waterproofing applications. Michael’s work experiences include building science engineering, roof consulting, waterproofing and roofing material technical representative, loss prevention engineer, construction estimator, and project manager.

EDUCATION

- Building science certificate, 2008, University of Toronto, Toronto, Ontario
- Bachelor of engineering, civil engineering, 1987, Concordia University, Montreal, Québec
- Diplôme d’Étude Collégiale, pure and applied sciences, 1985, Vanier College, Montreal, Québec

ACCOMPLISHMENTS AND MEMBERSHIPS

- Registered Roof Consultant (RRC) and member, RCI
- Professional engineer, Association of Professional Engineers of Ontario
- Professional engineer, Association of Professional Engineers and Geoscientists of British Columbia
- Building Sciences Specialist of Ontario (BSSO) and member, Ontario Building Envelope Council
- Canadian Hospital Engineering Society (CHES) member
- ASHRAE member

PROFESSIONAL ACTIVITIES

Michael has been a member of RCI since 2003, when he joined IRC Building Sciences Group. He has attended and participated at every RCI convention since 2003 and always appreciates what the event has to offer: educational opportunities, introduction to new and innovative products displayed by exhibitors, and the camaraderie with other RCI attendees who work in the same profession.

Michael has attended and completed many of the educational offerings of RCI and attained his RRC designation in 2007. He has acted as a presenter for several RCI courses hosted by the RCI Ontario Chapter of Region V.

In 2009/2010, Michael was a member of the Redevelopment Committee for the *RCI Manual of Practice*. His input and involvement centered on the technical review and international appeal of the manual.

POSITION STATEMENT

As many of RCI’s professional membership can agree, at one point or another in our roof consulting career, we have had to look over the parapet and see what is going on below. We now have pressures to understand the total building envelope performance, ensure continuity of thermal and moisture protection, ensure compatibility of products, and understand structural implications. In the recent past, RCI has responded and “looked over the parapet” to become a total building envelope consulting association in support of its membership’s increased business platforms and responsibilities. The development of new educational programs and professional designations for waterproofing and exterior wall consultants has been a valuable resource to its membership in advancing careers and recognizing abilities.

Now that we have made the transition “over the side of the building” as individuals and as an organization, the demands of our expertise continue to diversify and increase. Our design and quality assurance influence on construction practice must capture all means and measures of sustainable development. We must balance long-term performance objectives, eco-friendly products, LEED® opportunities, socially influenced “green” solutions, energy-efficiency improvements, building code changes, end-of-life recyclability of products, return-on-investment calculations, etc. I believe that as an organization, RCI must continue to be a positive partner to its membership and provide education and resources on these sustainable demands and directives.

In my business practice within IRC, I have provided complete building science engineering service to clientele; traced the continuity of the air barrier; measured building energy performance; designed insulation installations to maximize return on investment; rolled my sleeves up to trace a leak; and designed cladding, fenestration, and waterproofing systems and details for countless structures. It is with this strong technical expertise in building sciences, hands-on practical experience, and business management that I tender my candidacy for a position on RCI’s Executive Committee.

If elected, I will use my experience, knowledge, and skills to provide direction so as to influence RCI’s growth as an association to be the recognized leader in the building sciences consulting world. I believe this continued technical growth will further support the RCI membership; attract more building envelope professionals who identify with the value of membership; increase awareness of the strength and importance of the association; and as a net result, move toward the standard of acceptance for private and public purchasers to mandate as a requirement for their building envelope consulting.

On a lighter note, if elected, I promise to again wear shorts at RCI’s 2012 golf tournament in Dallas...even if it snows again.

PERSONAL

Michael and his wife, Jill have been married for 18 years and have four children: Reid, 16; Abigail, 14; Chloe, 12; and Lily, 10. They spend much of their free time at ice rinks and soccer pitches watching their kids compete and play.



JEAN-GUY LEVAQUE, RRO
CANDIDATE FOR SECRETARY/TREASURER

PROFESSIONAL EXPERIENCE

Jean-Guy Levaque is an Accredited Architectural Technologist with MAATO, a Professional Roof Consultant, Registered Roof Observer (RRO), and Green Roof Professional (GRP). He has been involved in the construction industry since 1981 in various capacities, and the roofing industry since 1988. Jean-Guy has served in various capacities with RCI, as founding member of the Canadian Chapter in 1995, president of the Ontario Chapter from 2000 to 2001, and

Region V director from 2005 to 2008.

Jean-Guy began his 30-year career in 1981 at the National Arts Centre in Ottawa as a bilingual construction project coordinator and draftsman for the building maintenance department. This first experience exposed him to all aspects of interior alterations, as well as building envelope design and repair. Jean-Guy furthered his career with the Peel Board of Education as a technical assistant for the building maintenance department, Canadian technical manager for Firestone Building Products, and branch manager for Atlantic Roofers Ontario, Ltd. He has also been a part-time teacher of architectural courses at Humber College, Toronto. Since 1993, he specialized in the field of roof consulting and was a principal and CFO of Premier/Levaque, Inc. until merging with LVM in 2010. He is presently LVM's regional director of the roofing, waterproofing, and building envelope/building science division. LVM, Inc. (part of the Dessau Company) is a major engineering consulting company working in Canada and internationally.

EDUCATION / CERTIFICATIONS

- Green Roof Professional (GRP), 2010
- Registered Roof Observer (RRO), 2006
- Accredited Architectural Technologist (MAATO), 1987
- Architectural Technology diploma, Algonquin College, Ottawa, Ontario, 1982
- Business courses, University of Ottawa, 1981/1982
- Diplôme Supérieur d'Études Secondaires (Grade 13 honors graduate diploma), École Secondaire Belcourt, Ottawa, Ontario, 1978
- Trade certificate programs and courses, including torch welding instructor training, WHMIS, RCI, BURSIS seminars (1995/2006/2007)
- Level 1 soccer coach certification

PROFESSIONAL ACTIVITIES - RCI

- RCI, Inc. - Professional member in good standing since November, 1993
- Founding member of the Canadian Chapter of RCI, 1995

- Elected to the Ontario Chapter Board of Directors - member, committee chair, and president, 1995-2001
- RCI Outstanding Volunteer Award, 1998
- RCI Certificate of Appreciation - Bylaws Committee, 2000
- Bylaws Committee member, 1998-2000
- RRO Exam Development Subcommittee member, 2008-2011
- Region V director (Canada), board of directors, 2005-2008

PROFESSIONAL ACTIVITIES – OTHER ORGANIZATIONS

- Association of Architectural Technologists of Ontario (AATO), active member since 1985, elected to council, committee chair, association representative, and president, 1992-1998
- Canadian Roofing Contractors Association, associate member since 2002
- Construction Specifications Canada (CSC), member since 1986
- Canadian Green Building Council, Toronto Chapter, member since 2004
- Green Roofs for Healthy Cities, member since 2009

POSITION STATEMENT

RCI has become a strong voice in the roofing industry and is becoming more influential in waterproofing and building envelope sectors. The focus on creating chapters has been one of the most effective ways to strengthen the association at the grassroots level, and I am proud that I was one of the original supporters of the formation of chapters and of my involvement in the Chapter Bylaws Committee, as well as ongoing support of chapter development. I believe that we need to continue to strengthen our member services by advocating at government and legislative levels and by continuing to form strategic alliances with other like-minded organizations. I see RCI's growth in recognition through its members' strengths and successes and would encourage RCI to more directly support membership-led programs and events. This is only one of many member-benefit-oriented goals that I bring to the officer position of RCI.

RCI is now in a position to become an even stronger international organization, as it is ready to take on the role of professional leader in the total building envelope.

I fully understand that the task of being involved in voluntary associations is daunting and can be all-consuming. I believe that my combined experience in different levels of various volunteer associations, my intimate understanding of the workings of the Board of Directors of RCI in my former role as Region V director, my career development in leadership capacities, and my dedication to carrying through with my undertakings will help me in my endeavor to serve as an officer of RCI, Inc., should I be given that honor.

PERSONAL

Jean-Guy and his wife, Laura, have been married 26 years and live in Dundas, Ontario, Canada. Their two young adult children, Paul, 22, and Nicole, 20, are pursuing their dreams at university.

EDUCATION NEWS

Codes, Standards, Rating Systems, and the Roofing Industry

By Rebecca Cunningham, LEED® AP, RA
Director of Educational Services

Based on the number and types of questions received at the RCI office, there appears to be some confusion regarding “insulation above-deck” requirements in the various standards and codes. Questions asked are, “What are the current requirements?” and “When can I expect to see changes?” “What is driving these changes?” and “How can I explain the benefits to clients?” Below is a brief summary of what the current standards are and what we can expect in the future.

I will begin by explaining the difference among standards, codes, and rating systems. Standards are consensus-based documents, often referred to in codes and ratings, and are considered the current and minimum best-practice policy. They may or may not be adopted as mandatory. Codes are a mandatory consensus and reflect a minimum standard of care of building design and construction. Ratings intentionally exceed the minimum codes to demonstrate leadership and commitment to the profession and usually earn a label of distinction. LEED® is a good example of this.

When it comes to the roofing industry, many of the questions asked are related to the requirements for roofing insulation. The current ASHRAE 90.1-2010 has prescriptive requirement revisions based on the individual climate zones. See *Table 1*.

These increased thermal requirements and the requirements of cool roofs in Climate Zones 1, 2, and 3 in ASHRAE 90.1-2010 are just two ways to help meet the 30% entire building energy savings.

How do things stand as of now? ASHRAE Standard 90.1 is continually being updated through the addendum process. There has been an addendum proposed that would increase insulation levels, but it has not yet been approved. After committee review, the addendum will again go through the public review process. For the latest public review drafts and addenda to ASHRAE Standard 90.1, please monitor the ASHRAE standards Web page

	ASHRAE 90.1-2004 (Previous)		ASHRAE 90.1-2010*	
	Nonresidential/Residential		Nonresidential/Residential	
Climate Zone	R-value	U-Value	R-value	U-Value
Zone 1	15ci	.063	15ci	.063
Zone 2	15ci	.063	20ci	.048
Zone 3	15ci	.063	20ci	.048
Zone 4	15ci	.063	20ci	.048
Zone 5	15ci	.063	20ci	.048
Zone 6	15ci	.063	20ci	.048
Zone 7	15ci	.063	20ci	.048
Zone 8	20ci	.048	20ci	.048

*These numbers are unchanged since the ASHRAE 90.1-2007 version.

Table 1

at www.ashrae.org/standards.

Where does the future of this standard lie? According to Stephen V. Skalko, chair of the Standard 90.1 committee, ASHRAE 90.1-2013 aims to have an SSPC goal of 50% improvement of regulated loads and a 40% improvement of all loads relative to ASHRAE 90.1-2004, so building envelope design will continue to become more energy-restrictive. Increased roof insulation R-values are almost certain to be included. More information can be found at: www.energycodes.gov/events/energycodes/documents/ecodes11/EC2011_model_codes_901-2013_skalko.pdf.

GREEN AND SUSTAINABLE REQUIREMENTS

ANSI/ASHRAE/ISGBC/IES Standard 189.1-2009, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings* is the jurisdictional compliance option for commercial and high-performance buildings of the International Green Construction Code (IgCC). It follows ANSI standards in model code language. It establishes minimum requirements for high-performing green buildings and covers setting design, construction, and plans for operations. Like ASHRAE 90.1, it can be applied to all buildings except low-rise residential. It can be applied to new buildings and their systems, new portions of buildings and their systems, and new systems in existing buildings. It covers the same topics as LEED® and includes commissioning, operations, and maintenance. Unlike LEED®, the standard is not a design guide or a rating system. Meeting Standard 189.1 criteria does not guarantee that one will meet the minimum requirements for LEED®, but LEED® is compliant with both Standards 189.1 and 90.1. While there are mandatory requirements for all projects, ASHRAE 189.1 also offers a choice between prescriptive and performance paths to meet compliance. Preliminary estimates from the Department of En-

ergy (DOE) through the National Renewable Energy Laboratory have estimated that the minimum prescriptive recommendations in the standard result in an average site energy savings of 27% over Standard 90.1-2007. On October 27, 2010, Katherine Hammack, assistant secretary of the Army for installations, energy, and the environment (IE&E), issued a policy memorandum that incorporates Standard 189.1-2009. See *Table 2*.

What is the future for Standard 189.1? It is tough to know what the future will hold with this standard, but it is like Standard 90.1 in that it will be under continuous maintenance with addenda and public reviews. Currently, there is a Standard 189.3P, titled *Design, Construction and Operation of Sustainable High Performance Health Care Facilities*, in development. It is designed to specifically address the healthcare industry.

How do these standards fit into code? The ICC International Energy Conservation Code (IECC) is the minimum energy code for commercial and residential buildings and references ASHRAE 90.1 as the equivalent compliance path for commercial buildings. It uses outcome-based performance and covers design, construction, commissioning, occupancy, and use. It is generally in track with 90.1 but with more stringent envelope provisions, including commissioning requirements for accreditation. It addresses the building envelope, HVAC, and solar hot-water equipment, lighting, and power. Unlike ASHRAE 90.1-2010, it does not address plug-and-process loads.

The current 2009 IECC adopted ASHRAE 90.1-2007 by reference when window-to-wall ratio (WWR) is over 40% or skylight-to-roof ratio (SRR) is over 3%. There are a few differences between the 2009 IECC and ASHRAE 90.1-2007. One is that space considered semi-heated in ASHRAE 90.1 is considered heated in IECC. This accounts for more rigorous overall thermal envelope provisions. Another is that ASHRAE 90.1 considers some vertical glazing skylights; therefore, it has less thermal requirements than if considered vertical

Climate Zone	ASHRAE 90.1-2010 (Baseline)		ASHRAE 189.1-2009 (Baseline)			
	Nonresidential/ Residential		Nonresidential		Residential	
	R-value	U-Value	R-value	U-Value	R-value	U-Value
Zone 1	15ci	.063	20ci	.048	25ci	.039
Zone 2	20ci	.048	25ci	.039	25ci	.039
Zone 3	20ci	.048	25ci	.039	25ci	.039
Zone 4	20ci	.048	30ci	.032	30ci	.032
Zone 5	20ci	.048	30ci	.032	30ci	.032
Zone 6	20ci	.048	30ci	.032	30ci	.032
Zone 7	20ci	.048	35ci	.028	35ci	.028
Zone 8	20ci	.048	35ci	.028	35ci	.028

Table 2

Climate Zone	ASHRAE 90.1-2010 (Baseline)		IECC 2012 (Baseline)	
	Nonresidential/Residential		Nonresidential/Residential	
	R-value	U-Value	R-value	U-Value
Zone 1	15ci	.063	20ci	.048
Zone 2	20ci	.048	20ci	.048
Zone 3	20ci	.048	20ci	.048
Zone 4	20ci	.048	25ci	.039
Zone 5	20ci	.048	25ci	.039
Zone 6	20ci	.048	30ci	.032
Zone 7	20ci	.048	35ci	.028
Zone 8	20ci	.048	35ci	.028

Table 3

fenestrations by 2009 IECC. This impacts the building air leakage testing. Another item of significance is that 2009 IECC does not have provisions for high-albedo roofs in certain climate zones. It is also important to note that IECC 2012 prescriptive R-values have been increased over 2009. See *Table 3*.

What is the future of IECC? The DOE submitted 56 code change proposals for the International Code Council's (ICC) Code Development Cycle that will produce the 2012 I-codes. The 2012 code has an estimated energy savings of 25% over the IECC 2006/ASHRAE 90.1-2007. There are additional changes being considered that may increase this by 5%. There will be more rigorous U-factors for fenestrations and a cap on vertical fenestrations. There are minimum daylighting requirements and a vestibule required for all building entrances. The DOE is interested in keeping Chapter 5 of the 2012 IECC aligned with ANSI/ASHRAE/IESNA Standard 90.1-2010. There is also a movement toward net-zero and BP measurement. The future focus is on increasing energy efficiency by 50% in minimum codes and more in green/sustainable codes and standards. The adoptions of ASHRAE 189.1-09 and ICC are currently in development.

The IgCC is an overlay code that works with or in-tandem with administrative requirements of other I-codes. It is not designed to compete with other standards and rating systems. ASHRAE is included as an extension of IgCC. For example, the ASHRAE/USGBC/IES Standard 189.1 is included as a jurisdictional compliance option. IgCC codifies the minimum tenets of sustainability and acts as a driving force for sustainable practice. It also addresses the Architecture 2030 challenge, which has the following targets:

- All new buildings, developments, and major renovations be designed to meet a fossil-fuel, greenhouse gas(GHG)-emitting, energy-consumption performance standard of 50% of the regional (or country) average for that building type.

- At a minimum, an area of existing building equal to that of new construction be renovated annually to meet a fossil-fuel, GHG-emitting, energy-consumption performance standard of 50% of the regional (or country) average for that building type.
- The fossil fuel reduction standard for all new buildings be increased to
 - 60% in 2010
 - 70% in 2015
 - 80% in 2020
 - 90% in 2025
 - Carbon-neutral by 2030 (zero fossil-fuel, GHG-emitting energy to operate)

This may be accomplished through innovative design strategies, application of renewable technologies, and/or the purchase (maximum of 20%) of renewable energy.

The IgCC is customizable to the geopolitical and economic climates and codes of the locality and has minimum and advanced levels of performance and prescriptive options. Jurisdictions indicate between 0-14 as the minimum number of project electives with which one must comply to a total of 60 electives, and the owner/designer chooses with which to comply. The IgCC addresses building performance in terms of total net annual energy use, peak demands, and carbon emissions. It is tied to energy performance and has a minimum of a 15% energy-saving requirement over 2012 IECC. The provisions in the new 2012 IgCC were completed during the Final Action Hearing on October 31, 2011, in Phoenix, AZ. This new 2012 code will be available in the spring of 2012.

To see which standards and codes are currently impacting any given jurisdiction, the DOE has an excellent spreadsheet at www.energycodes.gov/states/state_status_full.php

cool surfaces

- Performance of TPO membrane materials
- Self-adhering roofing membranes
- Acceptable surface defects
- The IBC and air barriers
- Vetting of the RCI nuclear moisture method as a consensus standard
- Technical advisory: Wind design resistance/revised ASCE-7; advisory soon to be issued
- Technical Advisory: Narrow wall cavities of brick veneer construction; this will be posted on the RCI Web site

The TAC has reviewed a number of industry-related topics presented to RCI for consideration and input over the last 18 months. The committee is composed of professional members and RCI Region directors (also Professional members) with staff support from Walter Rossiter. An industry advisory list was developed from RCI's industry membership to allow input to the TAC and other RCI committees to assure that well-rounded and informed output is available to RCI.

The primary purpose of the TAC is to gather and address member issues that need position statements or a stronger voice to help address any inconvenient or unintended consequences of the current and rapidly changing industry-related regulations and preferences. While the TAC members have identified a number of committee-generated issues to pursue, we are requesting membership/practitioner input as well. Please do not be shy. The makeup of the committee was developed to be broad and includes the RCI Region directors, elected by the grassroots membership, to represent member concerns and issues that are technical in nature. To complement region director input, we want to hear directly from you, the RCI membership. Issues and items brought to the attention of the TAC by staff, the RCI Board of Directors, and associate/other industry associations are already included in our considerations and bimonthly meetings.

We believe there may be more challenges and other issues out there that we do not hear about from the RCI membership that may need attention. Please let us know about them so that they can be considered for the good of RCI and the industry.

In some cases, we discover that other organizations are already working on specific issues, and we ask to be included in the review and consensus process. In other cases, we find that research or further study beyond the scope of our assignment from the RCI president and Board of Directors is needed, and those are sent to the RCI Foundation for consideration.

In summary, we encourage and want your assistance. Contact the RCI Region director who represents you on the TAC, the TAC committee chair (author), or RCI headquarters, and you will get a response. Thank you for your consideration to help improve our industry and, specifically, the consulting profession on roofing, waterproofing, and exterior walls.

NEWS TO USE

TECHNICAL ADVISORY COMMITTEE REQUESTS INPUT FROM MEMBERSHIP

By **DAVID R. HAWN, RCI TAC CHAIR**

The RCI Technical Advisory Committee (TAC) recently posted the first RCI Technical Advisory. It is now on our Web site (www.rci-online.org), and you are encouraged to view it. In addition, the RCI TAC is currently reviewing a number of topics, including the following:

- ANSI/SPRI ES-1 edge design requirements and their broad application by the IBC
- Moisture in concrete deck substrates
- Weather-resistant barriers in brick veneer construction
- The need for vapor barriers with new R-values and new low-perm membranes with

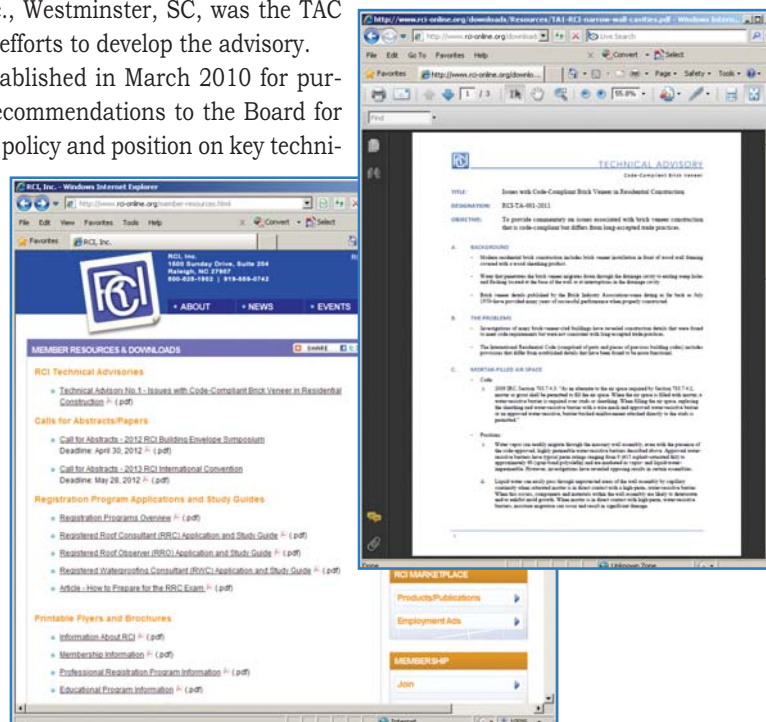
RCI Issues Its First TECHNICAL ADVISORY

By Walt Rossiter

In a milestone event, RCI issued its first Technical Advisory, titled “Issues with Code-Compliant Brick Veneer in Residential Construction” and bearing the designation, RCI-TA-001-2011. This advisory was developed by the RCI Technical Advisory Committee (TAC) and approved in mid-October by the RCI Board for release to RCI members and the general public. A copy is available on the RCI homepage (<http://www.rci-online.org/downloads/Resources/TA1-RCI-narrow-wall-cavities.pdf>). Derek Hodgin, Construction Science and Engineering, Inc., Westminster, SC, was the TAC member who led the efforts to develop the advisory.

The TAC was established in March 2010 for purposes of providing recommendations to the Board for establishment of RCI policy and position on key technical issues that the building envelope consultant community may encounter. Early in its existence and after substantial internal discussion regarding potential mechanisms for sending its recommendations to the Board and their subsequent public release, the TAC proposed that technical advisories be developed. The

Board accepted this mechanism. In brief, a technical advisory is a short, concise summary of a technical issue. Its key components describe the advisory objective; the background and problems associated with a building envelope issue; RCI recommendations for avoiding, solving, or overcoming the issue; and citations of important supporting documentation



associated with the issue. In some cases, where extensive literature is available on an issue, appendices providing that supplemental information may be included.

Because Technical Advisory RCI-TA-001-2011 may be downloaded from the RCI Web site, I will only briefly repeat some of its contents here. The intention is to provide a flavor of the advisory content. In that regard, selected excerpts from the advisory address the following:

- **Objective:** The objective of RCI-TA-001-2011 is to provide commentary on issues associated with brick veneer construction that is code-compliant but differs from long-accepted trade practices.
- **The Issue:** Investigations of many brick-veneer-clad buildings have revealed construction details that were found to meet code requirements but were not consistent with long-accepted trade practices. The International Residential Code (comprising of parts and pieces of previous building codes) includes provisions that differ from established details that have been found to be more functional.
In this regard, the 2009 IRC, Section 703.7.4.3, states, “As an alternate to the air space required by Section 703.7.4.2, mortar or grout shall be permitted to fill the air space. When the air space is filled with mortar, a water-resistive barrier is required over studs or sheathing. When filling the air space, replacing the sheathing and water-resistive barrier with a wire mesh and approved water-resistive barrier or an approved water-resistive, barrier-backed reinforcement attached directly to the studs is permitted.”
- **Conclusions:** After discussing the issue, particularly in relation to industry standards, the following major conclusions are drawn. Portions of the current IRC building code reflect details that are substandard and have resulted in damages. Structures located in mixed or hot/humid climates are particularly vulnerable to possible damage. Current building codes need to be carefully reviewed and revised to reflect the construction details that incorporate the time-tested best practices of the industry.
- **Recommendation:** The Technical Advisory concludes with the recommendation that the existing IRC building codes be modified to prohibit the filling of wall cavities with mortar.

A second technical advisory has been approved by the Board for release and will soon be available on the RCI Web site. This second advisory, RCI-TA-002-2011, “Recent Changes in the Determination of Wind Loads on Roofs as Outlined by ASCE-7,” provides an overview of the major changes in provisions for determining wind loads on roofs as outlined in the current (i.e., 2010) version of ASCE-7. Please check the Web site for its availability.

The TAC anticipates that over time, these advisories will top a long list of such documents to be issued periodically, providing technical advice to the benefit of the building envelope community.

To learn more about the technical issues and topics under consideration by the TAC and ways to assist the committee, please see the article by Dave Hawn, TAC chairman, in this issue of *RCIItems*.

Call for Abstracts for 2012 RCI Building Envelope Symposium

RCI is seeking abstracts for consideration for the 2012 Symposium on Building Envelope Technology to be held October 22-23, 2012, at the Sheraton Phoenix Downtown Hotel. Abstracts of each paper (200 words) should be received at RCI headquarters by April 30, 2012. The RCI Building Envelope Symposium Committee will review abstracts, and authors will be notified regarding acceptance of abstracts by May 18, 2012. If accepted, papers should be received at RCI headquarters by July 16, 2012, for peer review.

Following are some of the topics of interest:

- Innovative technologies and practices
- Façade systems and technologies
- Unique façade design solutions
- The building envelope as a design statement
- Energy conservation design
- Façade structural systems
- Designing façades that will improve indoor air quality
- Economics and life cycle analysis
- Panelized stone or masonry systems
- Sealants - design and selection/appropriate specifications/quality assurance
- Hygrothermal analysis in façade designs
- Façades designed to achieve sustainability
- Curtain walls
- Double-wall façades
- Roofing
- Brick masonry
- Stone masonry
- Waterproofing
- Stucco
- EIFS
- Metal wall panels
- Air-barrier systems
- Testing wall systems
- Construction processes
- Unique detail design work

Papers and abstracts accepted for presentation may subsequently be published in RCI publications. RCI reserves the right of first publication of all submitted materials accepted for presentation at any event sponsored by RCI and maintains the copyright thereafter. All submitted abstracts and papers must be original to the author and not previously published or presented nor scheduled for publication or presentation in any other publication or venue. Exceptions may be granted at the discretion of RCI.

Contact RCI for a copy of the *Abstract Submittal Form and RCI Guidelines for Presentations*, complete directions on formatting, and acceptable formats for abstracts and papers. A topic description must be provided addressing the speaker's subject knowledge and the level of knowledge that will be presented to the attendee (i.e., beginner, intermediate, or advanced).

To view this Call for Abstracts and one for the 2013 RCI International Convention and Trade Show, visit <http://www.rci-online.org/member-resources.html#call>. For more information on the process, contact RCI Director of Conventions and Meetings Karen McElroy, 800-828-1902 or kmcelroy@rci-online.org.

CONVENTION NEWS

2012 CONVENTION UPDATE

By TOM GERNETZKE
RCI SECOND VICE PRESIDENT
AND CONVENTION COMMITTEE CHAIRMAN

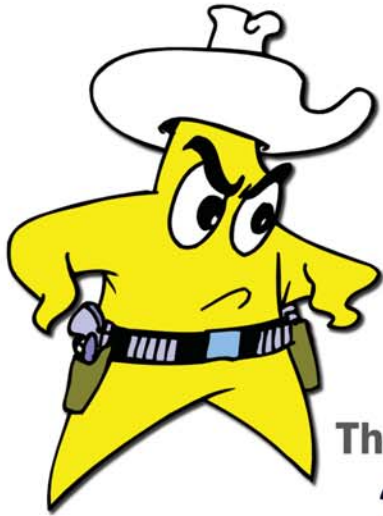
Convention preparation is progressing nicely. As usual, RCI staff has been working continuously to complete required tasks. The trade show floor is full; all the product demonstration periods are sold out. All the speaker presentations have been received, reviewed, and accepted. I am very impressed with the range of topics, from roofing system uplift analysis to advanced condensation analysis for wall assemblies. Back by popular demand, Thomas Matyas with Edwards, Wildman, Palmer LLP, Chicago, IL, will present "Communication Strategies of Expert Witnesses." No matter your practice or area of interest, this convention has presentations that will intrigue you.

This year, the Convention Committee received a few questions regarding the abstract submission, review, and selection process. For those unfamiliar with this process, the following is a brief summary of the process the committee uses to select abstracts for the convention.

Abstracts are submitted to RCI headquarters by the posted time and sent to committee members for review. This year over 60 abstracts were submitted for consideration. Each committee reviewer scores each abstract as "Reviewer Accept," "Reviewer Marginal," or "Reviewer Reject." Abstracts are ranked and accepted by total score. If necessary, the committee will discuss and debate abstracts in order to break a tie or select one or two abstracts from three or more that have received the same score. Authors are then notified of their selection so they can begin writing their papers. Committee members volunteer to review all papers based on their interest and expertise. Each paper has at least three peer reviewers. Once final reviews have been completed, authors begin developing their presentations.

I would also like to encourage members to bring their families to convention. I am planning to bring my family. This is my official disclaimer to warn everybody in advance. Spouses can also expect an outstanding gift bag for attending convention. Vicki Elsdon, Sharon Cook, Brenda Ward, Mercy Hankins, and Sharon Birdsong have been working since last convention and have put considerable thought into spouses' gift bags. The theme for the bags reflects regional and local items from the current RCI president's home state. This year, items from South Carolina, Rick and Sharon Cook's home state, will be featured.

Don't forget to plan to come to convention early and play a round of golf or shoot a round of sporting clays! If you have any questions regarding convention, please do not hesitate to contact RCI headquarters or me. My office phone number is 608-240-9110 and my e-mail address is tom@facilityengineeringinc.com.



WANTED

UNIQUE AUCTION ITEMS FOR THE SHOWDOWN AT THE ANATOLE SUNDAY, MARCH 18, 2012



The RCI Foundation (U.S.) and the RCI Foundation Canada **2012 FUND-RAISING AUCTION**

When you head out the door to go shopping for the holidays, add the RCI Foundations to your list! Auction attendees' favorite items include art, sports equipment, jewelry, electronics, trips, and travel-related items. Cash donations are always accepted. Please let us know what you will be donating so it can be credited to either the U.S. or Canada Foundation for the auction. Just print this form and send it to Ann Hess via USPS mail or e-mail no later than January 27, 2012.

We are donating the following item(s) to the auction: _____

Value: _____ Description (including restrictions, blackout dates, etc.): _____

For acknowledgment purposes, please indicate whether this is a personal OR company donation.

Name: _____ E-mail address: _____

Company Name: _____

Mailing Address: _____ Country _____ U.S.A. _____ Canada

Telephone number(s): _____ Fax: _____

Please mail this form to **RCI Foundations Fundraising Auction, 1500 Sunday Drive, Suite 204, Raleigh, NC 27607** or fax to **RCIF at 919-859-1328**.

For more information, contact Ann Hess at 919-859-0742, ext. 18; or e-mail: ahess@rci-online.org.

STAFF NEWS

HUFF COMPETES IN MARINE CORPS MARATHON

By CATHERINE MOON

On October 30, 2011, RCI Membership and Registration Programs Specialist Ginny Huff participated in the 36th annual Marine Corps marathon in Washington, DC. This was Ginny's first time running in a full marathon (26.2 miles). Prior to the event, Huff trained for five months and also participated in several sprint triathlons (swimming/biking/running).

What started out as a cold and icy day, after snowing the night before, became a beautiful day, with no precipitation and rising temperatures, making conditions perfect for the marathon.

During the event, Ginny and over 21,000 runners were given candy and Girl Scout cookies by spectators. There were 12 fuel stations manned by uniform-clad Marines who provided water, Gatorade, oranges, and carb-loaded gel shots to keep runners energized. Huff says the only problem with the oranges was that runners would drop the peels on the road, causing some slippery obstacles.

Ginny wore a tiara in her hair and tutu over her running shorts in honor of her first full marathon and as a tribute to the Disney Princess half-marathon she and her girlfriend ran



Princess Ginny posing for marathon finisher photo.

in dressed as princesses, in Orlando, FL. Plus, it was the day before Halloween (see photo).

When asked why she picked the Marine Corps Marathon, Huff said it was to raise money for the Lazarex Cancer Foundation (www.lazarex.org), with which she is involved. The mission of the foundation is to provide resources to cancer patients who have been told they have no other options to fight the disease. An example of a resource provided by the foundation is to help patients defray costs associated with their participation in clinical research trials.

Ginny Huff will be competing in the Boston Marathon in April 2012 and in the Ironman Triathlon in Cozumel, Mexico, in November.



Ginny proudly displaying her medal.



The 36th Marine Corps Marathon medal.

ANSI/CRRC-1 STANDARD: SECOND PUBLIC COMMENT PERIOD OPEN

The Cool Roof Rating Council (CRRC) is accepting public comments on the CRRC-1 Standard until January 10, 2012. The CRRC-1 Standard covers specimen preparation and test methods for measuring the initial and aged solar reflectance and thermal emittance of roofing products. All members of the public have the opportunity to propose changes to the CRRC-1 Standard. Please note that the second public review is limited to those subjects which were addressed by the CRRC Consensus Committee in the first public review. Please go to <http://coolroofs.org/StandardReview.html> for more information and to download the public comment form.

CHAPTER NEWS

GREAT LAKES CHAPTER HOLDS ANNUAL BANQUET AND ELECTION

On December 1, 2011, the Great Lakes Chapter held its annual banquet and membership meeting. With a record number of 59 attendees, a wonderful and festive evening was had by all. The chapter thanks event sponsors Division 7 Roofing Solutions, GAF, J. D. Candler Roofing Co., Johns Manville, MWA Commercial Roofing Systems, Newton Crane Roofing, and Soprema.

The banquet festivities included

1. The presentation of the 2011 Barton D. Colthurst Memorial Award. In honor and memory of this long-time peer and friend of the consulting community, the chapter presents this award annually to the individual who best promoted change, ideas, and guidance for the chapter's growth. Congratulations to Sue Baumberger of Johns Manville for being the 2011 recipient. This is the second time Sue has been honored with this prestigious award.



Foreground, left to right: John Serniak, Pat Wenn, Jason Emery, and Ed Labus socializing.



2012 Great Lakes Chapter Board of Directors, left to right: President Jim Markiewicz, Professional Director Rick Bresso, Vice President Jeff Scott, Treasurer Sue Baumberger, Secretary Ron Kinne, Industry Director Richard Dumas, and Immediate Past President Ed Labus.

January 2012

2. Election and announcement of the 2012 Board of Directors. Good luck to the new board, which consists of

- *President:* Jim Markiewicz
- *Vice president:* Jeff Scott
- *Secretary:* Ron Kinne
- *Treasurer:* Sue Baumberger
- *Professional director:* Rick Bresso
- *Industry director:* Richard Dumas
- *Immediate past president:* Ed Labus



Last year's Colthurst Award recipient Rick Bresso presents the Barton D. Colthurst Memorial Award to Sue Baumberger.



Ed Labus passes the gavel to 2012 President Jim Markiewicz.



2012 President Jim Markiewicz addresses attendees.



Rick Bresso presents Ed Labus with an appreciation award for his guidance as the 2011 chapter president.

3. An Award of Appreciation was presented to Ed Labus for his guidance, commitment, and leadership as the president of the Great Lakes Chapter in 2011. Thanks, Ed.
4. Presentation of the Great Lakes Chapter's goals for 2012 and beyond was given by newly appointed President-Elect Jim Markiewicz.

A list of upcoming chapter events for 2012 will be sent to the membership soon.

Volunteers are important to any organization. If you would like to help, please call Great Lakes Chapter President Jim Markiewicz at 248-705-6646 or e-mail him at jmarkiewicz@gaf.com.

**— Sue Baumberger
Great Lakes Chapter
Treasurer**

CHICAGO AREA CHAPTER HOLDS ANNUAL FALL PROGRAM

The Chicago Area Chapter of RCI, Inc. (CAC-RCI) conducted its annual fall program on November 4, 2011, at the Grotto restaurant in Oak Brook IL. Thirty-six CAC-RCI members, speakers, and guests attended; and there were two tabletop exhibitors (A&D Building Products, Ltd. and Sika-Sarnafil). The program speakers for the day included Kami Farahmandpour, principal of Building Technology Consultants, PC (BTC); and Larry Meyers and Carole Ceja with Wiss, Janney, Elstner Associates, Inc. (WJE).

Kami Farahmandpour presented three case studies of roof leak investigations. The first study was of a mechanically fastened single-ply membrane; the second, of a preengineered metal roof system; and the third, of an architectural metal roof system. The 4,000-sq.-ft., one-year-old steel deck warehouse roof suffered leaks at skylight curbs, scuppers, and elsewhere, especially in cold weather. Investigation disclosed single-layer insulation with no air or vapor barrier, gaps in the insulation joints, and a positive interior building pressure. Evaluation determined that the leakage was actually condensation due to air movement, latent moisture in the concrete floor slab, noncontinuous insulation, and uncontrolled air movement inside when dock doors opened. Repairs included opening up the roof to fill in insulation gaps. Lessons learned included using an air barrier between steel deck and insulation, using multiple-layer insulation, and minimizing interior positive pressure.

The next two presentations involved metal roof systems. The pre-engineered metal roof was a three-year-old structural standing-seam system on a very complex geometrical roof plan of a school building. Problems included spot rusting where the metal surface coating had been damaged during construction, lack of thermal movement accommodation due to insufficient expansion joints, poor workmanship, too much reliance on sealants, and design conditions too complex to be handled by the manufacturer's limited availability of standard flashing details. Repairs included installation of expansion joints, localized flashing detail remediation, and an elastomeric roof coating. The final example was a five-year-old steep-slope architectural standing seam system on a mixed-use building that suffered from ice damming and leaks. Investigation revealed lack of ventilation, poor drainage design at the valley base of intersecting roof planes, and poor workmanship. Correction involved complete removal, installation of a sleeper system with new decking and provision for ventilation, a redesigned valley base with greater drainage capacity, and use of prefinished aluminum panels that will not rust if the coating is damaged.

Larry Meyers and Carole Ceja discussed integrity testing and passive monitoring of a plaza waterproofing renovation at the Chicago Federal Plaza. The original granite paving slabs were preserved for reinstallation in order to maintain the historic design of the 1960s Mies Van Der Rohe architectural design. The remaining components were removed down to the structural slab; concrete deck repairs were made; and then a reinforced, hot rubberized-asphalt membrane was installed. A copper-tape leak-monitoring grid was then laid out and a hand-propelled, low-voltage sweeper was then used to check for waterproof-

ing membrane anomalies or flaws. If flaws were discovered, then a hand tool was used to zero in on the defect. Then a drainage mat and setting bed for granite were installed. This type test requires a continuous water film over the membrane, which makes testing of vertical or steep slopes more difficult but not impossible. It cannot be used with EPDM or Bentonite materials. Lessons learned include involving the manufacturer of the leak-testing grid system during the early project design, determining the range of test services (and cost) desired by the owner, and staying with local or well-established firms for these services.

At the chapter business meeting, following the speaker presentations, the annual election was held for the 2012 officers and directors who will assume their positions at the January 18, 2012, meeting.

The next chapter program will be the annual winter meeting on January 18, 2012, at the Marriott in Oak Brook, IL. This will be an all-day program and will precede the Chicago Roofing Contractors Association's (CRCA) two-day 29th annual trade show on January 19-20, 2012, at the Drury Lane in nearby Oakbrook Terrace.

— Dennis McNeil, RRC, CCS, RRO
CAC-RCI Program Committee



Outstanding RCI Affiliated Chapter Award Applications Due

All RCI Affiliated Chapters are encouraged to participate in the annual Outstanding RCI Affiliated Chapter Award program. The award shall be based on the chapter's score, response to mandatory questions, and meeting the criteria established in the award application form. For a chapter to win the award it must complete the submittal/scoring sheet and supply the required supporting documentation. Chapters shall be awarded the commendation when all the supporting documents are submitted and the minimum score is 50% (95) out of a possible 190 points in core and elective categories.

Chapters receiving the award will be recognized at the RCI Annual Awards Luncheon on March 18, 2012. In addition to being recognized, the chapter will have a historical record of its activities for 2011 by completing the award application.

The newly revised chapter award application is available for download on the RCI Web site (www.rci-online.org). The application must be completed and returned to RCI no later than January 16, 2012. This deadline was extended to better accommodate chapters' need to properly report year-end financial information.

Contact RCI Leadership and Publications Specialist Catherine Moon by phone at 800-828-1902 or by e-mail at cmoon@rci-online.org with any questions.

ONTARIO CHAPTER DISCUSSES VEGETATIVE ROOFS, STANDARDS, AND AIR BARRIERS

On November 18, 2011, the RCI Ontario Chapter held a breakfast meeting attended by 62 RCI members and guests. The meeting consisted of two presentations and tabletop displays.

David Roodvoets, principal of DLR Consultants, spoke on “Vegetative Roofs: Making Them Safer.” He reported that vegetative roofs offer some significant benefits in urban areas, but there has been little North American input into the requirements for systems that are stable in high winds and perform without extensive damage when exposed to fire.

SPRI and Green Roofs For Healthy Cities-developed ANSI SPRI RP-14 *Wind Design Standard for Vegetative Roofing Systems* and ANSI/SPRI VF-1, *External Fire Design Standard for Vegetative Roofs*, were reviewed. The seminar presented the use of these standards in relation to Canada’s building codes, including information on the Factory Mutual designs and installation standards for vegetative roofs.

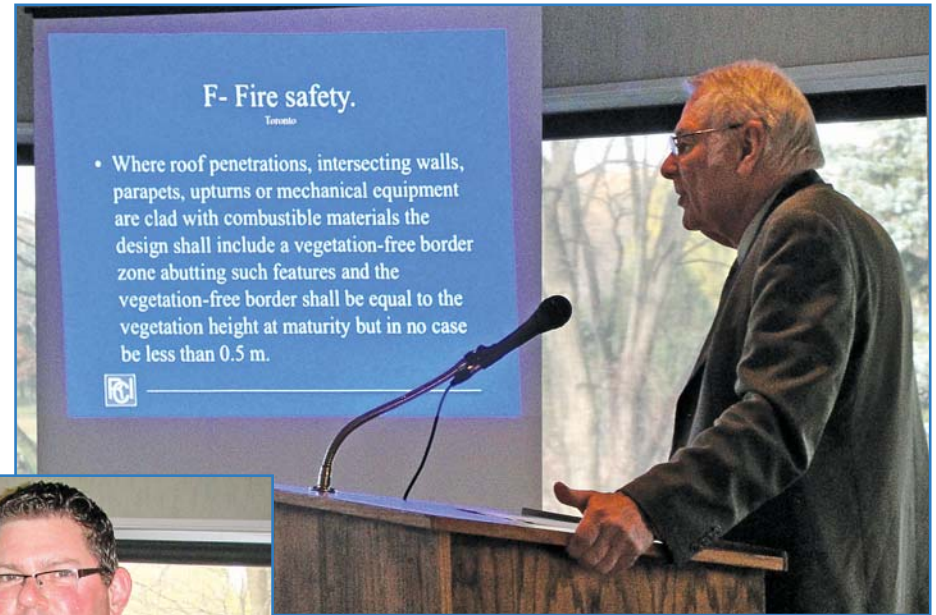
Paul Johannesson, Henry Company, Canada, presented “Innovation in Air Barrier Technology.” The technical aspects of uncontrolled air leakage through the building envelope were discussed, as well as how temperature and relative humidity play a role in vapour diffusion, condensation, and mold growth. A “smart-wall profile” and how air barriers can save money were also discussed. The difference between air/vapor and vapor-permeable



Katharine Spavins thanks Paul Johannesson on behalf of the RCI Ontario Chapter.



Attendees enjoy breakfast and tabletop displays.



David Roodvoets compares fire safety code in Toronto to ANSI/SPRI VF-1 External Fire Design Standard for Vegetative Roofs.

air barrier membrane systems plus applicable codes and standards regulating the installation and inspection of building envelope membrane systems were also examined.

The tabletop exhibitor sponsors were Soprema, Kemper Systems, ZinCo, Viana Roofing and Sheet Metal, Henry-Bakor, and Firestone.

On February 2-3, 2012, the RCI Ontario Chapter will hold the RCI Roof Technology and Science I course in Toronto at Toronto Construction Association, 70 Leek Crescent, Richmond Hill, Ontario L4B 1E4.

For more information about RCI Ontario Chapter events, visit www.rci-onchapterinc.ca or contact Chapter Director Katharine Spavins by phone at 416-217-0222 or by e-mail at kspavins@elastizellcanada.com.

**— Katharine Spavins
Ontario Chapter Industry Director
Social and Special Education Events**

NORTHERN GULF COAST CHAPTER GOLF TOURNEY RAISES FUNDS FOR UNIVERSITY SCHOLARSHIPS

Special sponsors of the tournament.

The Northern Gulf Coast Chapter (NGCC) of RCI recently held its annual charity golf tournament in October 2011, and it was a fun event for all who participated. The tournament was also a success in that it raised enough money to fund \$1,000 scholarships for two students currently majoring in the building construction program at the University of West Florida. Each year, scholarship recipients are chosen based on their involvement in campus and community activities, their financial needs for tuition assistance, and their overall performance within the classroom.

The success of the tournament was made possible by the 35 companies and sponsors that participated. The NGCC board and golf tournament committee extend their sincere gratitude to all of the sponsors and participants and would like to give special recognition to the food, beverage, and award prize sponsors



Chapter President Michael Fell practices his golf swing.



who provided very generous donations to cover the costs of these items. These special sponsors were Roofers Mart SE, Hunter Panels, GAF, and Coastal Construction Products.

The members of the Northern Gulf Coast Chapter of RCI are looking forward to next year's golf tournament and are already beginning to make plans for the event. If you or your company would like to participate, please contact Joey Bass at 251-706-0724.

— Joey Bass, RRC, RRO
Northern Gulf Coast Chapter Treasurer

Tournament sponsors.



The overall winning team was sponsored by Valcourt Building Services and was the team with the lowest gross score (before handicaps were figured in). The winning players, left to right, are Brad Wilson, Brandon Durham, Harley Ryan, Jason Peterson.



MEMBER NEWS

PENEBAKER JOINS METAL-ERA



Khary Penebaker

Khary Penebaker has joined Metal-Era as its roof-edge solutions project manager. Penebaker has over 15 years of experience in the roofing industry. Before joining Metal-Era, he was the president of The Penebaker Enterprises, LLC, Roofing and Sheet Metal in Milwaukee for ten years. During this time, he focused on commercial sheet-metal roof-edge termination and project and contractor management. Prior to opening that business, Penebaker jointly owned and operated Community Roofing Company for five years while completing his bachelor's degree in marketing from the University of Wisconsin - Milwaukee.

Penebaker has been actively involved with the National Minority Supplier Development Council (NMSDC) throughout his career. He was named Minority Business Contractor of

the Year in 2010 by *Wisconsin Builder* magazine and received the Wisconsin Supplier Development Council's Supplier of the Year Award in 2004.

Khary holds memberships with CSI and RCI. He was also a certified installer for many commercial roof termination product brands, such as Firestone Building Products, Johns Manville, and Carlisle Syntec.

JASON MULLIS JOINS ALLANA, BUICK & BERS

Jason Mullis, RRO, CDT, has joined the southern California staff of Allana Buick & Bers as a consultant. He will be responsible for project management, quality assurance, construction administration, and business development for roofing and waterproofing projects. Mullis has over 25 years of experience in project management and operations in the roofing, waterproofing, and construction industry. He is a Registered Roof Observer (RRO) and a Construction Document Technologist (CDT). Mullis is an active member of CSI and RCI and currently serves on the Board of Directors of the RCI SoCal chapter as its secretary. He most recently owned and operated his own roofing and waterproofing consulting firm, Mullis Consulting Group, LLC, in Laguna Beach, CA.

HEISEY ACCEPTS POSITION WITH VP BUILDINGS ROOF GROUP

RCI Industry member **Raymond K. Heisey, Jr., RRC, PE, LEED AP**, has accepted the position of northern region sales manager with VP Buildings' Roof Group in Overland Park, KS. He was previously with Butler Manufacturing Roof Group as national sales manager for roof systems for over 30 years. VP Buildings and Butler Manufacturing are owned by parent company, Bluscope.

Heisey has been a member of RCI since January 1989. He can be reached by phone at 816-550-8558 and by e-mail at rheisey@vp.com.

GOLD ACCEPTS POSITION WITH U.S. FORENSIC

Jaime Gold, RRC, PE, professional member of RCI, has accepted a forensic engineering position with U.S. Forensic, LLC in Altamonte Springs, FL. She can be reached by phone at 407-383-6543 and by e-mail at jaime.gold@usforensic.com.

Gold has been a member of RCI since October 2010 and earned her Registered Roof Consultant (RRC) designation in July 2011.

RCI MEMBERS EARN CSRFP

Three members of RCI recently earned their Certified Solar Roofing Professional (CSRFP) designations from Roof Integrated Solar Energy (RISE), Inc. They are:

William Cogan, senior inspector for GAF, Cicero, NY

William Cole, president of Pfister Energy of Baltimore, MD, and vice president of Cole Roofing

Larry Lind, principal architect and primary roof consultant for Architechnology, Inc., Phoenix, AZ

HILIAS STARTS NEW BUSINESS

RCI Industry member **Frank Hiliias, RRO**, has started a new business, FTT Industries. The firm will be providing inspections, project management and development, installations, and consulting for roofing and masonry needs for commercial projects. It is located at 2215 79th Street, Unit 3E, East Elmhurst, NY 11370. Hiliias can be reached by e-mail at frank@fttind.com or by phone 718-314-4529.

Frank Hiliias was previously employed with Johns Manville as a technical service representative for over three years. Hiliias earned his Registered Roof Observer (RRO) designation in April 2010 and has been a member since May 2010.

NEW MEMBERS FOR NOVEMBER 2011

<u>Name</u>	<u>Company</u>	<u>State/ Province</u>	<u>Region</u>	<u>Category</u>
William C. Castro	Systems Design & Analysis, Inc.	NJ	I	PA
Rockford Doebereiner	John R. Grier Architect	OH	I	QAO
Stephen Duncan, RRO	Duncan Inspections and Consulting Services	ON	V	P
Frank J. Eliseo	Eliseo Associates Architects, PLLC	NY	I	P
John Henderson	Contects Consultants & Architects	TX	III	P
Richard A. Jankosky, Jr.	ATC Associates, Inc.	IL	III	QAO
Bridget Jenkins	Cardinal Roofing and Solar Technologies	FL	II	QAO
Sherri Johnson	Johnson Roofing	TX	III	I
David Landsberg	Polyglass USA	NY	I	IA
Gerald F. Lewis	GLMC, Ltd.	NY	I	QAO
Michael V. MacDonagh	Exterior Diagnostic Services, Inc.	NC	II	I
Jason A. Nichols, PE	Madsen Kneppers & Associates, Inc.	CA	IV	PA
Nels Nyman	Nyman Building Envelope Inspection	ON	V	QAO
Joseph J. Prendergast	Suburban Glass & Mirror Co., Inc.	MA	I	I
C.J. Sharp, CSI, CDT	Metal Era	GA	II	IA
Richard G. Shaw		ON	V	QAO
William E. Shevlin	Platinum Roofing, Inc.	CA	IV	I
Micah A. Smith	National Coatings Corporation	CA	IV	IA
Brian Swope	Tampa Roofing Company	FL	II	I
Joseph H. Walker, PE	Kimley-Horn & Associates, Inc.	NC	II	PA

MEMBERSHIP CLASSIFICATION KEY:

P = Professional, PA = Professional Affiliate, I = Industry, IA = Industry Affiliate, A = Associate, QAO = Quality Assurance Observer, FM = Facility Manager, S = Student, GL = Government Liaison

NEW RWCs (EARNED NOVEMBER 12, 2011)

<u>Name</u>	<u>Company</u>	<u>State/Province</u>	<u>Region</u>
Jerry Abendroth, RRC, RWC, RRO, CDT	Building Exterior Solutions, LLC	TX	III
Steven P. Bentz, RRC, RWC, PE	Facility Engineering Associates, PC	VA	II
Jeffery L. Button, RRC, RWC, AIA	Halliwel Engineering Associates	IL	III
David Leslie, RWC	Conley Group, Inc.	TX	III

Application Deadline for Exams Held at 2012 RCI Convention

Applications will be accepted until January 16, 2012, for all exams scheduled for March 16, 2012, in Dallas, TX, at the RCI convention. Late fees will apply (\$50: member, \$75: nonmember). Applications can be downloaded from the RCI Web site, www.rci-online.org. Contact Micki Kamszik at RCI by phone at 800-828-1902 or by e-mail at mkamszik@rci-online.org with any questions.