

## The Chair's Corner

The busy season is upon us in the roofing industry. It has been a busy few months for the CRRC, as well. On the Program side, we are finalizing procedures to facilitate metal roofing and variegated roofing shingle ratings. The CRRC ratings continue to have an increasing relevance to the industry as programs and code bodies increasingly promote cool roofing. I'm pleased to be taking on the role of Chair of the CRRC Board and wish to acknowledge the contributions of Peter Turnbull over the last three years as Chair.

- David Cocuzzi

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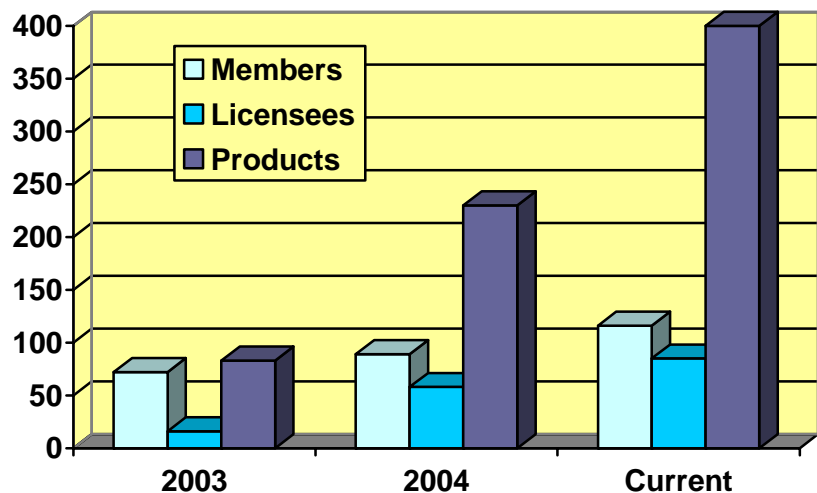
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## WHAT'S NEW(S) AT THE CRRC...

- Changes to California building energy codes (Title 24), are focusing industry on the benefits of cool roofing and CRRC's Ratings Program as a compliance and marketing tool. (p.2)
- CRRC "Color Family" Ratings Program protocols for metal roofing industry near completion (p. 2)
- New CRRC test procedure using ASTM C1549 for variegated shingles (p. 2)
- ASHRAE Cool Roof updates (p. 2)
- LEED® Program Cool Roof update (p. 2)
- 2005 Elections concluded and new CRRC Board officers are elected. (p. 3)
- On the road again: "Cutting through the Glare" conference, WSRCA trade show and more. (p. 3)

CRRC by the Numbers



## Ratings, Codes and Standards

We have lots of news from the Ratings, Codes and Standards Committee this quarter, including new developments on state codes. ASHRAE and the LEED® Program are focusing the construction industry on the benefits of cool roofing and CRRC's Ratings Program as a compliance and marketing tool. As many of you are aware, California's building energy code (Title 24) is changing effective October 2005, which will dramatically increase the demand for "cooler" roofing materials in the state. Compliance with this new California building energy code in many cases effectively requires CRRC ratings. In 2004 the American Society of Heating Refrigerating and Air-conditioning Engineers accepted proposals that would have ASHRAE Standards 90.1 (Energy Standard for Buildings Except Low-Rise Residential Buildings) and 90.2 (Energy-Efficient Design of Low-Rise Residential Buildings) recognize the Cool roof Rating Council's Product Rating Program (CRRC-1) as a source for demonstrating compliance with the radiative properties provisions within those standards. Additionally, the LEED Program is expected to publish its version 2.2 program specifications this fall. LEED 2.2 references CRRC Ratings Program as one method of demonstrating compliance.

Please contact the Ratings, Codes and Standards Committee Chair, Jonathan Humble, at (860) 231-7520 for additional information.

## Technical Update

### **New CRRC Test Procedure for Variegated Shingles Approved**

The CRRC Board recently approved CRRC-1 Test Method #1, a new CRRC test procedure based on ASTM C1549 (an approved reflectance test), to measure the reflectance of variegated shingles. This method provides an alternative to ASTM E1918. The ASTM E1918 method requires a minimum sample size of one full square (10' x 10') which has significant handling and cost implications, particularly for the aged testing.

The CRRC will next look into expanding the types of variegated and high profile products that may use this new method. For example the technical committee is working with tile manufacturers to determine whether it can be used for high profile roofing product such as tiles and shakes.

The Committee is also investigating a modified version of E1918 which would allow for a smaller sample size (e.g. 3' x 3' sample size).

### **It's All in the Color Family**

Much progress has been made in completing the details of the CRRC Ratings Program protocols for "Color Family" products for metal roofing products where large numbers of similar colors are common. With the assistance of the Cool Metal Roofing Coalition (CMRC), 18 "color spaces" have been defined in terms of Hunter L, a, b, ranges. For any given resin/binder technology, a Licensed Manufacturer may establish a "color family product", which contains one or more individual color products all of which colors fall within the defined color space. This color family product protocol will allow Licensees to treat multiple, related color

products as single product for the purposes of the CRRC Ratings Program. The CMRC and the CRRC Board have agreed in principle to the new protocols and the subcommittee is completing the necessary changes to CRRC-1 Rating Program Manual and supporting forms and documents to implement this new protocol. These efforts should be completed by August.

### Capping it Off

Lastly, the Committee is exploring the implications of allowing granule-coated (non-continuous surface) sheet goods that have different asphalt formulations, reinforcing fibers, and other subsurface properties to be grouped together based on their surface coating

Please contact the Technical Committee Chair, Bill Kirn, at 610-265-9222 if you have any questions about these activities.

### Elections Update

The 2005 CRRC Board of Director elections were completed at the end of May. Seventeen people were nominated to run for the board, of which 13 ended up on the final ballot. We had approximately a 45% voter turnout ...what a great response! We hope that those of you that did not find yourself on the Board this year will run again next year.

At the June 6<sup>th</sup> Board meeting in Las Vegas, new officers were elected by the Board. David Cocuzzi takes over the helm of the CRRC Board from Peter Turnbull, who will be the Vice Chair. Ed Betker passed the torch as Secretary to Stan Graveline. Jonathan Humble continues as Treasurer. Please visit our website [www.coolroofs.org](http://www.coolroofs.org) to see the

full list of Board members and officers as well as their corporate affiliations. Stan Graveline will also take over as the Nominating Committee chair; Thanks to Ed Betker for his past work.

Please contact the Nominating Committee Chair, Stan Graveline, at 800-451-2502, extension 492 if you have any questions about these activities.

### Membership and Outreach

CRRC kicked off the year with its annual Membership meeting in sunny Orlando, Florida. Attendance was high, and we had several great presentations, with many good questions and comments from attendees. Thanks to everyone for coming and participating!

Presentations included:

*Cool Ballasted Roof Presentation*

**Dick Gillenwater**

CRRC Member, Carlisle Syntec

*Ten Years of Cool Roofing Research at the Florida Solar Energy Center*

**Danny Parker**

Researcher, Florida Solar Energy Center

*LEED USGBC 2.2 and EPA Energy Star Announcement*

**Peter Turnbull**

Vice Chair, Board of Directors

*Code Adoption, CRRC - 1 Program Manual Update and Title 24 Presentation*

**Jonathan Humble**

Treasurer, Board of Directors

**Elaine Hebert**

Board of Directors

*Alternate Reflectance Test Methods: E1918-M and C1549-MC*

**Bill Kirn**

Board of Directors

**Hashem Akbari**

Ex-Officio Board of Directors

*Test Farm Consistency Testing*

**David Cocuzzi**

Chair, Board of Directors

In addition, CRRC staffed a booth at two major industry tradeshow. The first event was the International Roofing Expo (formerly the NRCA Tradeshow) in Orlando, Florida in February. The second event was the Western States Roofing Contractors Association (WSRCA) in Las Vegas, Nevada in June. Both events were a huge success for the CRRC outreach efforts! The amount of traffic at our booth was enough to draw comments from neighboring booths at both shows. Not only did we educate, but we also learned a lot from the questions that people asked and the information they had to share with us. Of course, we enjoyed getting out of the office and mingling with our members.

In May several CRRC Members presented at the RCI *Cutting Through the Glare*, Cool Roof Symposium in Atlanta, Georgia. The presentations included:

**The Evolution of the Cool Roof Rating Council's Product Rating Program**

*Peter W. Turnbull*

Vice Chair

*Peter addressed the history and the mission of the CRRC, specifically the issues, options and strategies considered for the product-rating program.*

**Cool Roof Coatings to Reduce Energy Demand and Temperature in an Urban Environment**

Bill Kirn

Board of Directors

*Bill presented results of a Philadelphia study monitoring energy and interior temperatures, and the outdoor "heat island effect" when cool roofing was added to a city block of homes.*

**Are Ballasted Roof Systems Cool?**

*Dick Gillenwater*

CRRC Member, Carlisle Syntec

*Ballasted roofs are being tested side by side with a paver system and black and white membranes to determine performance of ballasted roofs in regard to heat flow into a building, roof surface temperatures and possible Energy Star status.*

**Cooling Related thermal Performance of Standard & Innovative Metal Roofing Products (Case Study)**

*Danny Parker*

Researcher, Florida Solar Energy Center

*Test results evaluating how roofing systems impact residential cooling energy use with emphasis on finished and unfinished metal roofing types as compared with dark shingle roofing.*

Looking forward, in October the CRRC plans to staff a booth at MetalCon 2005 in Chicago, Illinois. We look forward to seeing many of you there.

Please direct comments or requests for further information to:

[info@coolroofs.org](mailto:info@coolroofs.org)

or send items you would like noted in future newsletters to:

**Cool Roof Rating Council**

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