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## The Chair's Corner

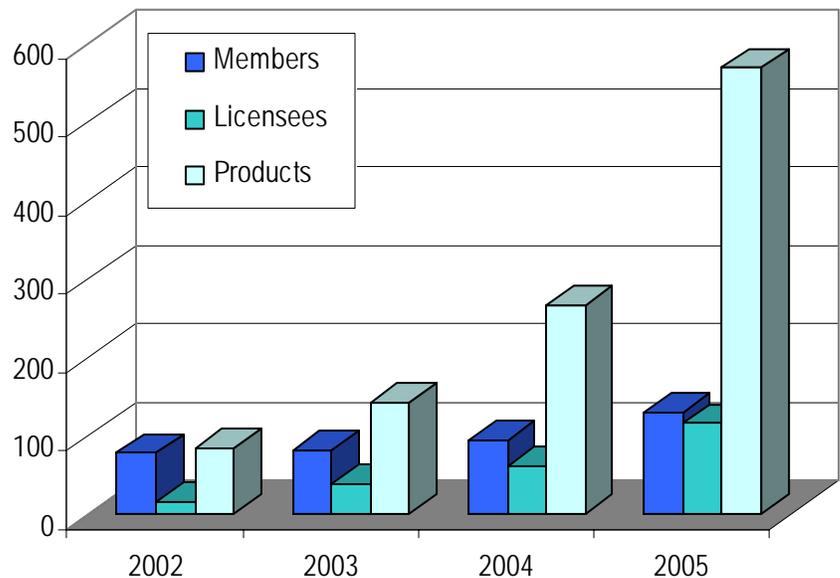
I'm happy to say that 2005 was a red-letter year for the CRRC! As you can see in the graph to the right, the number of rated products has increased dramatically due to an influx of new product applications before California's Title 24 update last October. Just a couple of years ago, the CRRC was just getting started. Now, we've gotten a better idea of the cost of administering the program and between increased participation and a necessary fee adjustment, the CRRC is finally financially stable. We're looking forward to continuing to grow with the cool roofing industry.

-David Cocuzzi

## What's New(s) at the CRRC...

- CRRC Membership Meeting: February 13<sup>th</sup> in Las Vegas! (p.2)
- Proposed updates to LEED and ENERGY STAR update increase standards for cool roofing. (p.2)
- CRRC "Color Family" Ratings Program protocol for metal roofing industry is complete (p.3)
- New study to establish a protocol for clay and concrete tiles (p.3)
- On the road again: Upcoming events (p.2)

## CRRC by the Numbers



## **Ratings, Codes and Standards**

This year has been full of updates from the Ratings, Codes and Standards Committee:

### **California's Title 24**

California's updated building energy code (Title 24) became effective October 1, 2005. The new standard prescribes a cool roof (defined as have a minimum solar reflectance value of 0.70 and thermal emittance of 0.75) for many low slope, non-residential applications. Using a cool roof is a simple and cost-effective way of meeting low-slope commercial new construction requirements and it is the only way to comply in non-residential re-roofing situations.

### **LEED**

The US Green Building Council (USGBC) just launched Leadership in Energy and Environmental Design for New Construction (LEED-NC) Version 2.2. In effort to reduce the heat island effect, this version credits roofing materials with a Solar Reflectance Index (SRI) equal or greater than 78 for low-sloped roofs and 29 for steep-sloped applications. LEED references the CRRC Ratings Program as one method of demonstrating compliance.

Also, in December 2005, the USGBC released a draft for public comment of Version 2 of their standard for Core and Shell Development (LEED-CS). LEED-CS credits roofs meeting the same SRI standards as in LEED-NC.

### **ENERGY STAR**

The EPA released ENERGY STAR Draft Version 2.0 Roof Products Specification for review and comment. The updated specification includes a requirement for thermal emittance of at least 0.75 and accepts CRRC testing for ENERGY STAR ratings. The EPA is also considering increasing the requirement for initial solar reflectance from 0.65 to 0.70.

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

### **Congratulations to Sarnafil!**

CRRC Member and Licensed Seller Sarnafil Inc. received an Environmental Merit Award from US EPA Region 1 in recognition of exceptional work and commitment to the environment, especially its advocacy of the ENERGY STAR® Roof Products Program. EPA's public recognition of Sarnafil's contribution boosts their continuing effort to eliminate barriers in the Federal tax code that discourage roof investment.

## **Membership and Outreach**

The CRRC attended MetalCon 2005 in Chicago, Illinois in October. CRRC staff dispersed information about the new Color Family protocol.

CRRC board members and staff presented at the Consortium for Energy Efficiency's Cool Roof Workshop in December (<http://www.cee1.org/>). The workshop focused on how cool roofing programs can help utilities save energy and reduce peak load and methods to design rebate programs for cool roofs. Representatives from utilities serving several states heard presentations on cool roof energy savings, rating programs and new research on colored cool roofs.

### **Upcoming Events**

Please join us for the CRRC Annual Membership Meeting on February 13<sup>th</sup> at the Luxor Hotel in Las Vegas. The meeting will be held in conjunction with the International Roofing Expo. We look forward to seeing many of you there.

CRRC is also planning on attending the Western States Roofing Contractors Association (WSRCA) convention in June and the US Green Building Council's Greenbuild Conference and Expo in November.

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## Technical Update

### It's All in the Color Family

The CRRC Ratings Program protocol for "Color Family" products is complete! The Color Family program is designed for metal roofing products where large numbers of similar colors are common. With the assistance of the Cool Metal Roofing Coalition (CMRC), 18 Color Families have been defined in terms of Hunter L, a, b, ranges. For any given resin/binder technology, a licensee may establish a "color family group", which contains one or more individual products all of which fall within the defined color space. This color family product protocol allows Licensees to label multiple, related color products as single product (with one CRRC ID number) for the purposes of the CRRC Ratings Program.

### Cool-Colors

The California's Energy Commission Public Interest Energy Research program (PIER) is collaborating with the roofing industry and the Oak Ridge and Lawrence Berkeley National Laboratories on the Cool-Colors Project.

This project tests a new generation of dark-colored pigments that have much higher reflectance and emittance values than traditional dark roofing materials. At new testing sites set up by the national laboratories, researchers can measure the changes in physical composition and appearance as a result of exposure to ultraviolet light, weathering, and temperature changes.

The new cool-color pigments can be used in coatings for metal roofs, in clay and concrete tiles, and in the multi-colored granules of which shingles are comprised. Several products, including cool-colored metal roof coatings and cool-colored shingles, are already on the market, while many more shingle and tile products are still under development.

For more information about the Cool-Colors Project, visit <http://coolcolors.lbl.gov>.

### New Tile Study

Lawrence Berkeley National Laboratory, with support from the CRRC, is launching a study to create a protocol for measuring the radiative properties of clay and concrete tiles. This study, also funded by PIER, will estimate the impact of tile shape on the measurement of the tile's radiative properties. As part of the initiative, the CRRC will hold a workshop for interested stakeholders to discuss the development of such protocols.

### Upcoming: Spring lab training

The CRRC is planning to hold a lab training this spring at Lawrence Berkeley National Laboratory. If you are interested in attending or for more information, email [info@coolroofs.org](mailto:info@coolroofs.org).

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

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## Nominating

CRRC Board of Directors elections are coming up! Nominations will begin in February.

Please direct comments or questions 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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