Annual Membership Meeting

San Francisco, CA

June 19, 2014
Antitrust Statement

Although the Cool Roof Rating Council is a broad-based 501(c)3 organization, it does include numerous competitors in the roofing industry and thus care must be taken to scrupulously abide by federal and state antitrust laws. As you know, the CRRC has in effect Antitrust Compliance Guidelines.

Members should remember that antitrust compliance is important at all times whether at formed meetings such as this or in social settings. At this and other CRRC meetings, participants should not discuss sensitive issues including pricing, profitability, payment terms, and allocating markets or customers or anything else recommended against in the antitrust guidelines.
Administrative Update

Membership Meeting
June 19, 2014
Overview

• Board Update
• Growth Report
• CRRC Rating Program Update
• ES-CRRC Program Update
• ANSI Standard Update
• Marketing Update
Board Update

2013-2014 Board Members

Class A Members
Lynne Christensen
George Daisey
Mike Ennis
Darrel Higgs
Rick Olson
Mark Thimons

Class B Members
Payam Bozorgchami*
Phil Dregger
Matthew Friday
Jim Hoff
Bipin Shah
# Board Officers

<table>
<thead>
<tr>
<th>Board Officer Positions</th>
<th>June 2013 - June 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair</td>
<td>Mike Ennis</td>
</tr>
<tr>
<td>Vice Chair</td>
<td>Rick Olson</td>
</tr>
<tr>
<td>Treasurer</td>
<td>George Daisey</td>
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<tr>
<td>Secretary</td>
<td>Lynne Christensen</td>
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Program Growth

CRRC Licensees
Feb 2006 - May 2014
Program Growth (cont’d)

CRRC Members
Feb 2006 - May 2014
Program Growth (cont’d)

CRRC Rated Products
Feb 2006 - May 2014
Rating Program Updates

- Updated Licensee Agreement
- CRRC Test Farms can test colorimetry
- Adoption of ASTM G147 for sample handling
Outreach Activities
2013-2014

- Tradeshows
- Newsletters
- Website Redesign

Exhibit 2 - Annual Membership Meeting 2014
Newsletters

- “Roofing Reflections”
- Email & Website posting
- Distributed twice a year
- Next issue – July 2014 (including updates from this meeting)
The Cool Roof Rating Council was created in 1998 to develop accurate and credible methods for evaluating and labeling the solar reflectance and thermal emittance (radiative properties) of roofing products and to disseminate the information to all interested parties.

Welcome to the new CRRC website
The CRRC is proud to announce its new and improved website. Take a moment to learn about all of the new
New Website

New Website Launched

- Sessions

- Avg. Session Duration

- Pages / Session
Website Improvements

- Product Rating section
- Directory search functionality and results display
- More info button
- Members page navigation
- PayPal integration
ANSI/CRRC-1 Standard

• Consensus-developed independent standard for measuring radiative properties
  – Used by national model codes and standards developers
  – Adopted in International Code Council (ICC) and ASHRAE codes
  – CRRC-1 Program Manual references the Standard
• Approved by ANSI in November 2010
• Current Standard is 2012 version
• Standard is undergoing an update
  – On ICC update schedule 2014 – 2017
• Public review
  – June 2014 through December 2015
• Consensus Body
  – Committee responsible for reviewing comments and revisions to current standard
  – Balanced representation
    • Producers, Users, General Interest
## ANSI/CRRC-1 Standard (cont’d)

### Consensus Body Members

<table>
<thead>
<tr>
<th>First</th>
<th>Last</th>
<th>Company</th>
<th>Member Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jonathan</td>
<td>Humble</td>
<td>American Iron and Steel Institute</td>
<td>Producer</td>
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<tr>
<td>Hashem</td>
<td>Akbari</td>
<td>Concordia University</td>
<td>General Interest</td>
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<tr>
<td>Glenn</td>
<td>Bestor</td>
<td>Soprema</td>
<td>Producer</td>
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<tr>
<td>Hugo</td>
<td>Destaillats</td>
<td>Lawrence Berkeley National Laboratory</td>
<td>General Interest</td>
</tr>
<tr>
<td>Mike</td>
<td>Ennis</td>
<td>SPRI</td>
<td>User</td>
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<tr>
<td>Mark</td>
<td>Graham</td>
<td>National Roofing Contractors Association</td>
<td>User</td>
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<tr>
<td>Helene</td>
<td>Hardy-Pierce</td>
<td>Gaf</td>
<td>Producer</td>
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<tr>
<td>Lesley</td>
<td>Henry III</td>
<td>ITW Polymers Sealants</td>
<td>Producer</td>
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<tr>
<td>Michael</td>
<td>Joyce</td>
<td>R&amp;D Services</td>
<td>User</td>
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<tr>
<td>Ted</td>
<td>Michelsen</td>
<td>Michelsen Technologies</td>
<td>User</td>
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<tr>
<td>Chris</td>
<td>Salazar</td>
<td>Karnak</td>
<td>Producer</td>
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<tr>
<td>Bipin</td>
<td>Shah</td>
<td>Winbuild, Inc.</td>
<td>General Interest</td>
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<tr>
<td>Kurt</td>
<td>Shickman</td>
<td>Global Cool Cities Alliance</td>
<td>General Interest</td>
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<tr>
<td>Steve</td>
<td>Thorsell</td>
<td>ICC-ES</td>
<td>User</td>
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<tr>
<td>Dwayne</td>
<td>Wacenske</td>
<td>Firestone Building Products</td>
<td>Producer</td>
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<tr>
<td>Tyler</td>
<td>Westerling</td>
<td>Architectural Testing, Inc.</td>
<td>User</td>
</tr>
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ANSI/CRRC-1 Standard (cont’d)

• 1st Public Comment Period is open until July 29, 2014

• Commenters can submit proposals on any aspect of the CRRC-1 Standard

• Comment forms and instructions on the CRRC [http://coolroofs.org/product-rating/ansi-crrc-1-standard](http://coolroofs.org/product-rating/ansi-crrc-1-standard)
### ANSI/CRRC-1 Standard (cont’d)

#### Review Process

<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
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<tbody>
<tr>
<td>May 29, 2014 to July 29, 2014</td>
<td>1\textsuperscript{st} Public Comment Period (60 days)</td>
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<tr>
<td>Mid-September 2014</td>
<td>Consensus Body Conference Call to Review Public Comments</td>
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<tr>
<td>Mid-October 2014</td>
<td>Consensus Body Ballots Due</td>
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<td>Early November 2014</td>
<td>Final Consensus Body Ballots Due (opportunity to reconsider)</td>
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<tr>
<td>February 2015 to April 2014</td>
<td>2\textsuperscript{nd} Public Comment Period (60 Days)</td>
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ES-CRRC Program
ENERGY STAR®
Certification Body
ES-CRRC Partners
April 2011 - May 2014
ES-CRRC Listed Products
April 2011 - May 2014
ES-CRRC Certified Products (cont’d)

1,320 Total Products
ES-CRRC Certified Products (cont’d)

ES-CRRC Products

- ES-CRRC Only 29%
- Also CRRC Rated 71%

ES-CRRC Products by Type

- CF Additional Element 31%
- Standard (including CF Rep Elements) 69%
- ES-CRRC Only 29%
- Also CRRC Rated 71%

Exhibit 2 - Annual Membership Meeting 2014
ES-CRRC Program Updates

• ISO/IEC 17065 Accreditation
  – Reaffirmed March 24, 2014
  – Maintain status as ENERGY STAR Certification Body
  – Updated procedures

• ES-CRRC 2014 Renewals have begun
ES-CRRC Program Updates (cont’d)

- ENERGY STAR Roof Products Specification Version 3.0
  - Released December 2013
  - Requires all products to be weathered in 3 climate zones
    - Measurements of existing roofs no longer acceptable
  - All certified products must comply by July 1, 2017
    - Products can now be certified to Version 3.0
    - For questions, contact Melissa at melissa@coolroofs.org