COOL ROOF RATING COUNCIL

ANNUAL MEMBERSHIP MEETING

Las Vegas, NV

June 15, 2016

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 UPDATES

Annual Membership Meeting

June 15, 2016

OVERVIEW

- Board Update
- Growth Report
- CRRC Rating Program Update
- Outreach Update
- ANSI Standard Update
- ES-CRRC Program Update

BOARD UPDATES

2015-2016 BOARD ROSTER

Class A Members	Class B Members
Lynne Christensen	Phil Dregger
George Daisey	Matthew Friday
Mike Ennis	Jim Hoff
Darrel Higgs	Peter Turnbull
Jim Kirby	Mark Zehnal
Rick Olson	

EX-OFFICIO BOARD MEMBERS

Member	Position
Hashem Akbari	International Committee Chair
Andre Desjarlais	Oak Ridge National Laboratory
Jonathan Humble	Ratings, Codes, & Programs Cmte. Chair
Marc LaFrance	U.S. Department of Energy
Ronnen Levinson	Lawrence Berkley National Laboratory
Steve Ryan	U.S. Environmental Protection Agency
Rich Slomko	Technical Committee Chair

BOARD OFFICERS

Member	Position
Mike Ennis	Chair
Rick Olson	Vice-Chair
George Daisey	Treasurer
Lynne Christensen	Secretary

2016 ELECTION

- Class A (two open seats)
  - George Daisey *(seeking re-election)*
  - Darrel Higgs *(seeking re-election)*
  - Al Janni
  - Gary Whittemore
- Class B (two open seats)
  - Payam Bozorgchami
  - Matthew Friday *(seeking re-election)*
  - Stuart Ruis

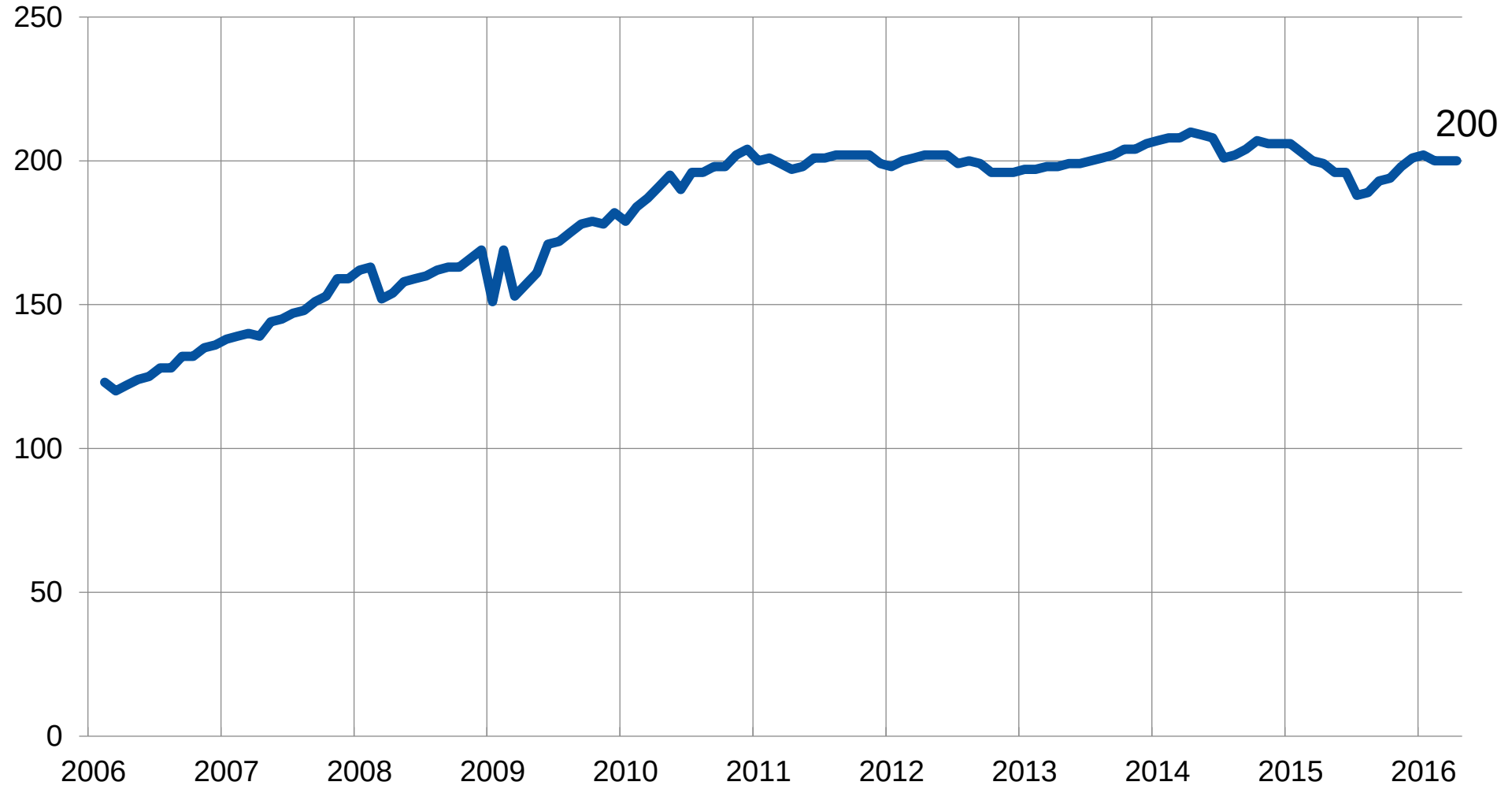
OUTGOING BOARD MEMBER

- James (Jim) Hoff *(not seeking re-election)*

CENTER FOR ENVIRONMENTAL INNOVATION IN ROOFING

PROGRAM GROWTH

LICENSEES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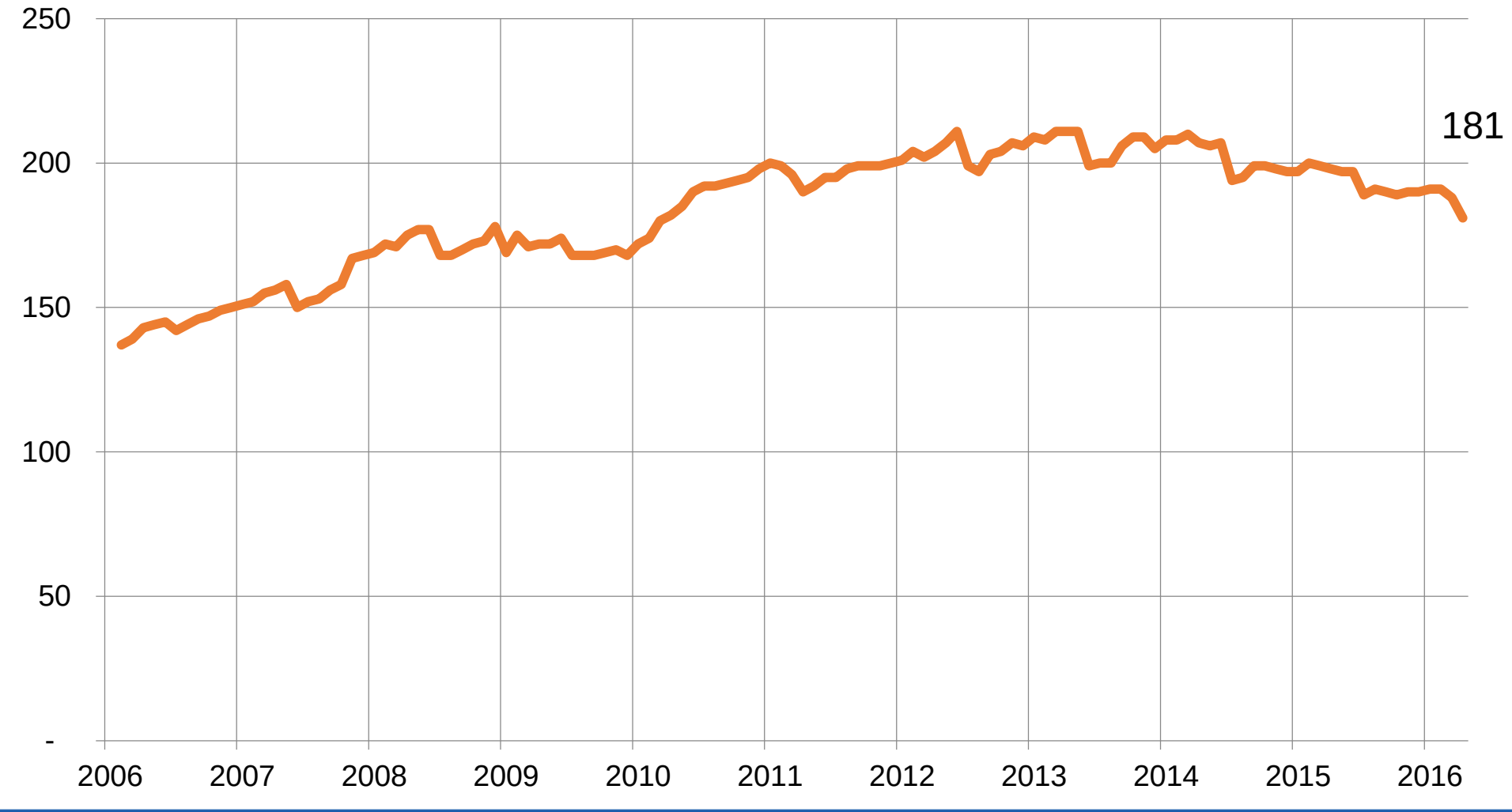
MEMBERS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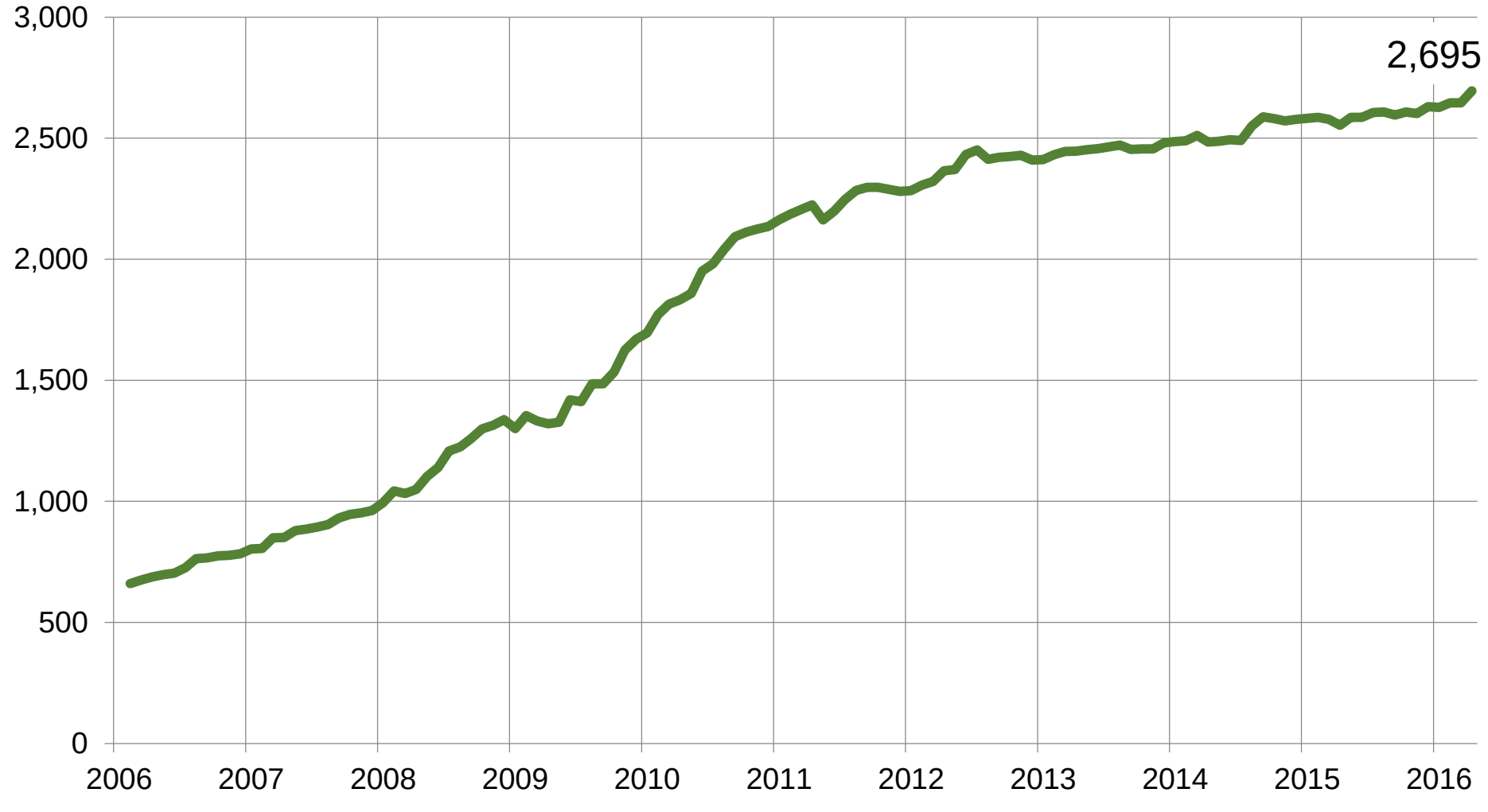
RATED PRODUCTS



RATING PROGRAM UPDATES

RATING PROGRAM

- August 2015 - Launched Rapid Ratings Program
- April 2016 – Publication of 2016 edition of ANSI/CRRC S100
- Annual CRRC laboratory trainings with Lawrence Berkeley National Laboratory to be held in late summer/early fall 2016

2017 RENEWALS

- Changes to next renewals cycle
  - Not using online site
  - Companies provided with PDF invoices
  - Allow changes to product listings
  - Ignore changes to contacts, Licensee class, addresses unless specified

MAJOR CHANGES AHEAD

- Largest update to CRRC Rating Program since its inception
- Goals:
  - Faster application submission & approval
  - Licensee control over product management
  - More convenient payment process
  - Transparency into product rating status
- Coming … 2018?

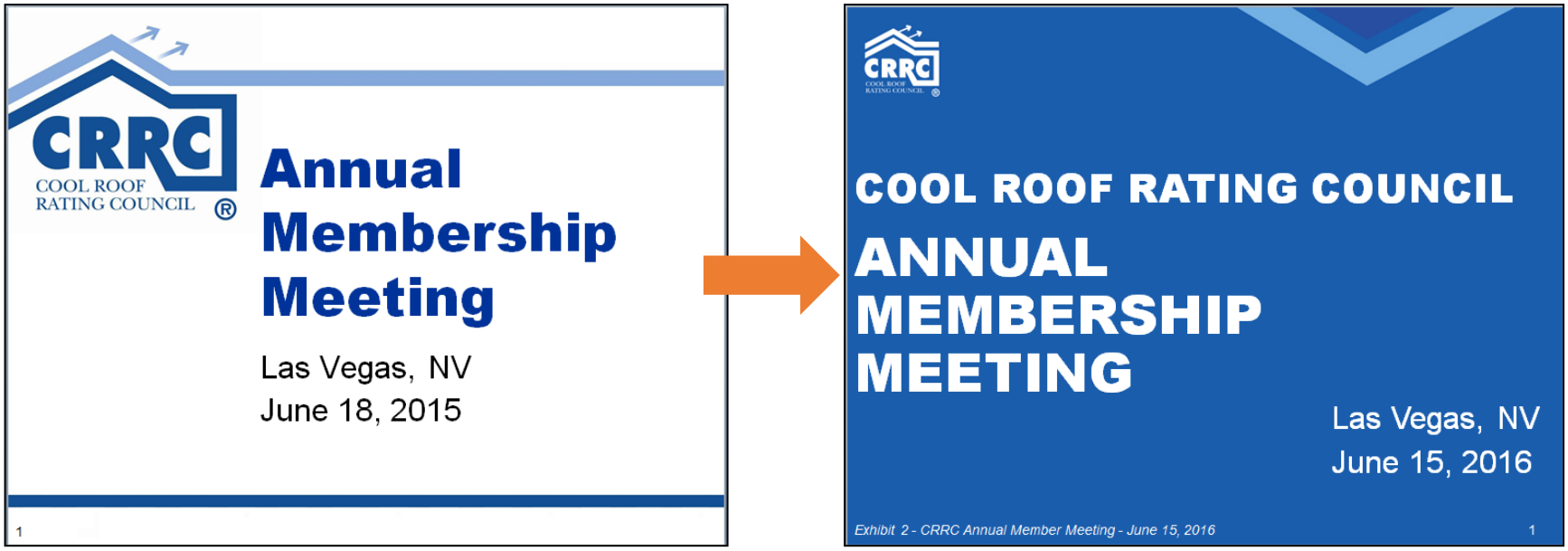
OUTREACH ACTIVITIES

REFERRING TO THE CRRC BRAND

- The CRRC does not set standards nor a minimum definition for “cool”
- Rated Products Directory, or rated product label, does not mean a product is “cool”
- In your marketing materials:
  - Do not advertise that a company or a product is **approved** or **certified** by the CRRC
  - Products are rated by the CRRC and labeled with their radiative properties

MATERIALS DEVELOPMENT

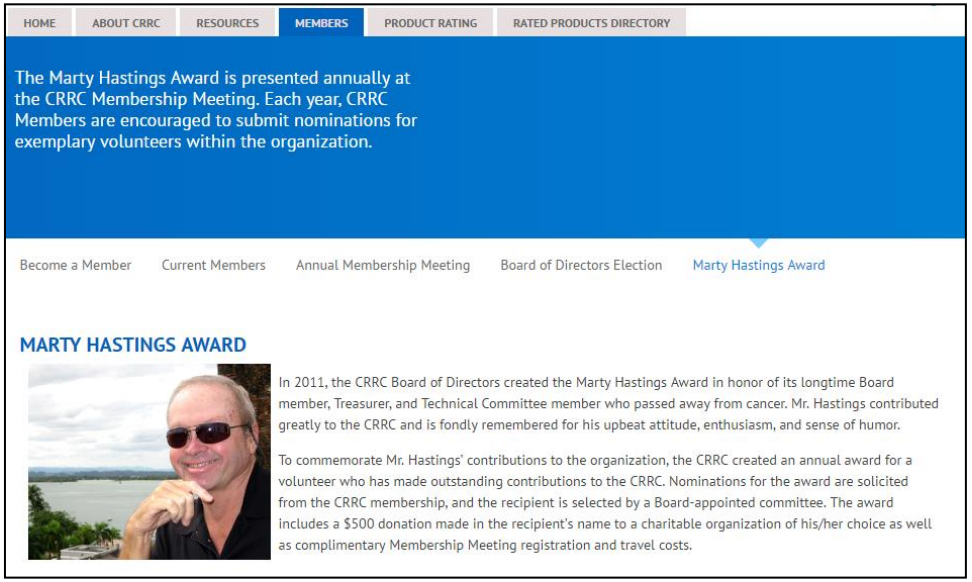
- Continued effort: unified CRRC brand



WEBSITE – NEW WEBPAGES

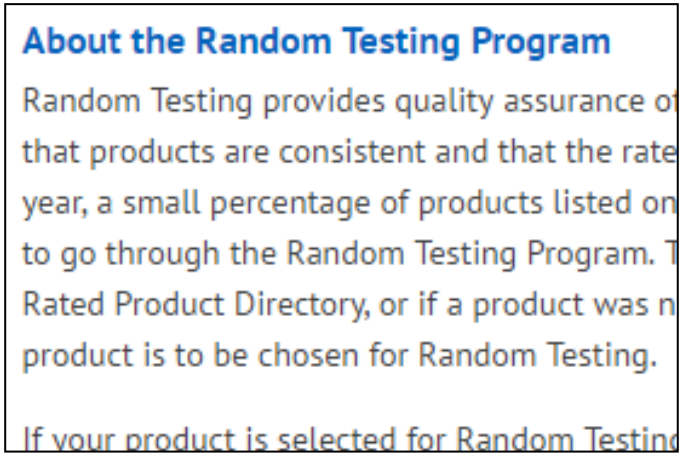
- Full page dedicated to the annual Marty Hastings Award
- New tab dedicated to published studies

www.coolroofs.org



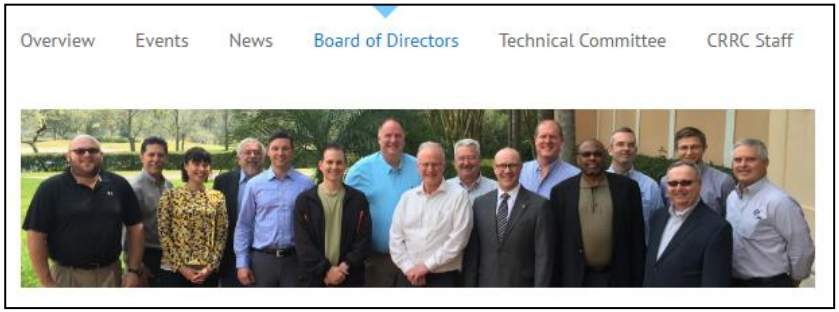
WEBSITE – NEW CONTENT

- Random Testing overview
- Verification Testing overview
- Update LEED webpage with LEED v4



WEBSITE – OTHER IMPROVEMENTS

- Continued humanizing
- Rated Products Directory improvements
  - Fixed bugs
  - Simplified product type names



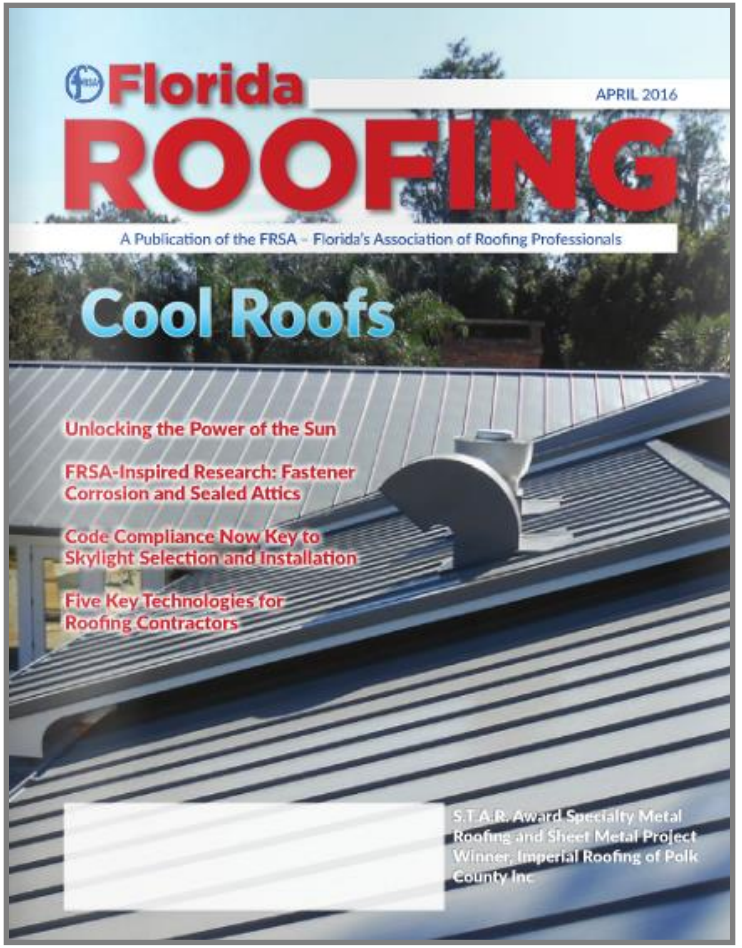
OUTREACH EVENTS

- June 2016: International Reflective Insulation Manufacturers (I-RIM) Conference
  - History and development of the CRRC and the Product Rating Program
  - Impacts of cool roofs
  - Energy efficiency codes and programs
  - Technical studies

RIMA International
Reflective Insulation Manufacturers Association International

PUBLICATIONS

- Article for *D+D In Depth* on Rapid Ratings, March 2016
- Article on cool roofing for *Florida Roofing Magazine*, April 2016



MEETING SPONSORSHIP

- **Gold Sponsors:**

Atlas Material Testing Technology, LLC Sika Corporation Valspar Corporation

- **Silver Sponsor:** The Dow Chemical Company

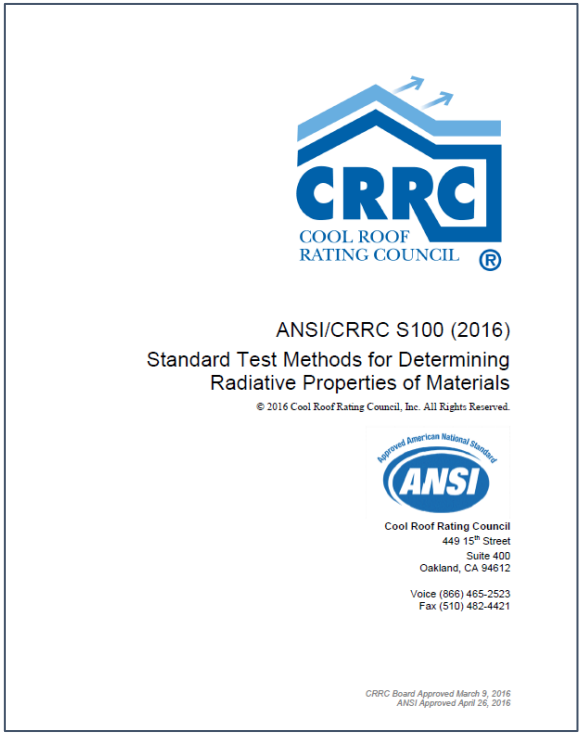
- **Bronze Sponsor:** National Coatings Corporation

CRRC'S AMERICAN NATIONAL STANDARD

ANSI/CRRC S100

ANSI/CRRC S100

- CRRC became an ANSI standards developer in 2007
- Developed ANSI/CRRC S100 (formerly CRRC-1)
  - Consensus-developed standard for measuring radiative properties of roofing materials
  - Covers specimen preparation, testing requirements, aged testing location information, and reporting requirements
  - 2010, 2012, 2016 editions
- Referenced in codes and standards
  - International Energy Conservation Code (2015)
  - ASHRAE 90.1 & 189.1 (2013)
  - ENERGY STAR Roofing Program Specification version 3.0



ANSI/CRRC S100 (CONTINUED)

- S100 is updated every 3 years in accordance with *ANSI Essential Requirements* and CRRC written procedures
  - Update process covers introduction of changes to CRRC Product Rating Program
  - Public proposals
- CRRC ANSI Consensus Body
  - Balanced representation of industry stakeholders
  - Responsible for reviewing proposed revisions to S100
    - Revisions proposed by public, Consensus Body members, and CRRC
- Current S100 is 2016 edition
  - Recently completed two-year process to update S100
  - Next update will begin ~ 2018 (2019 edition)

2014 – 2016 TIMELINE

April 29, 2014
CRRC initiates ANSI public review process

May 29, 2014
First public comment period commences (60 days)

June 2, 2014
Consensus Body formed

August 5, 2014
Consensus Body call

September 5, 2014
Ballots due

September 14, 2014
Consensus Body call

December 31, 2014
Reconsideration ballots due

March 5, 2015
Second public comment period commences (60 days)

July 13, 2015
Consensus Body call

August 5, 2015
Ballots due

August 27, 2015
Reconsideration ballots due

October 30, 2015
Third public comment period commences (30 days)

February 2, 2016
Final ballots due – Consensus Body approves revised standard in its entirety

February 3, 2016
Appeals period commences (30 days)

March 9, 2016
Board to adopt ANSI/CRRC S100 (2016)

April 26, 2016
ANSI approves revised S100 (2016 edition)

2014- 2016 CONSENSUS BODY

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

SUMMARY OF KEY CHANGES

- Inclusion of laboratory aging practice requirements (ASTM D7897)
- Added CRRC-1 TM#1 variants
- Added slide method requirement to thermal emittance section
- Added glossary definitions for “variegated” and “wood roofing products”
- Removed CRRC-1 TM#1 language and included reference to C1549 Appendix X1

ANSI/CRRC S100 ONLINE

- 2016 edition of ANSI/CRRC S100 can be downloaded for free coolroofs.org/product-rating/ansi-crrc-s100
- Contact Sarah Schneider at sarah@coolroofs.org with questions about:
  - ANSI/CRRC S100 (2016)
  - ANSI process
  - Interest in serving on the Consensus Body for the next update

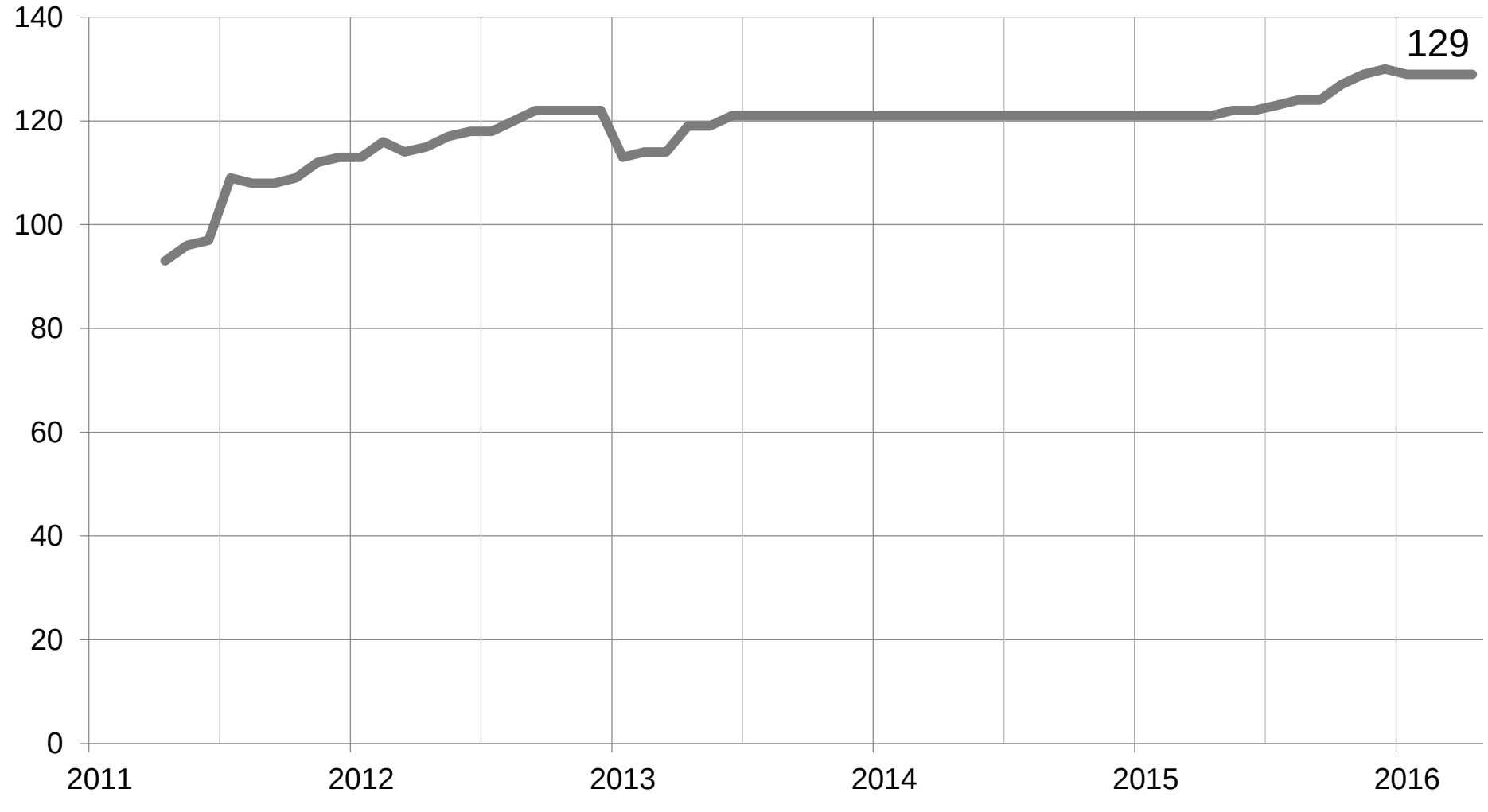
EVALUATION SERVICES-CRRC℠ PROGRAM UPDATES

ENERGY STAR®
Certification Body

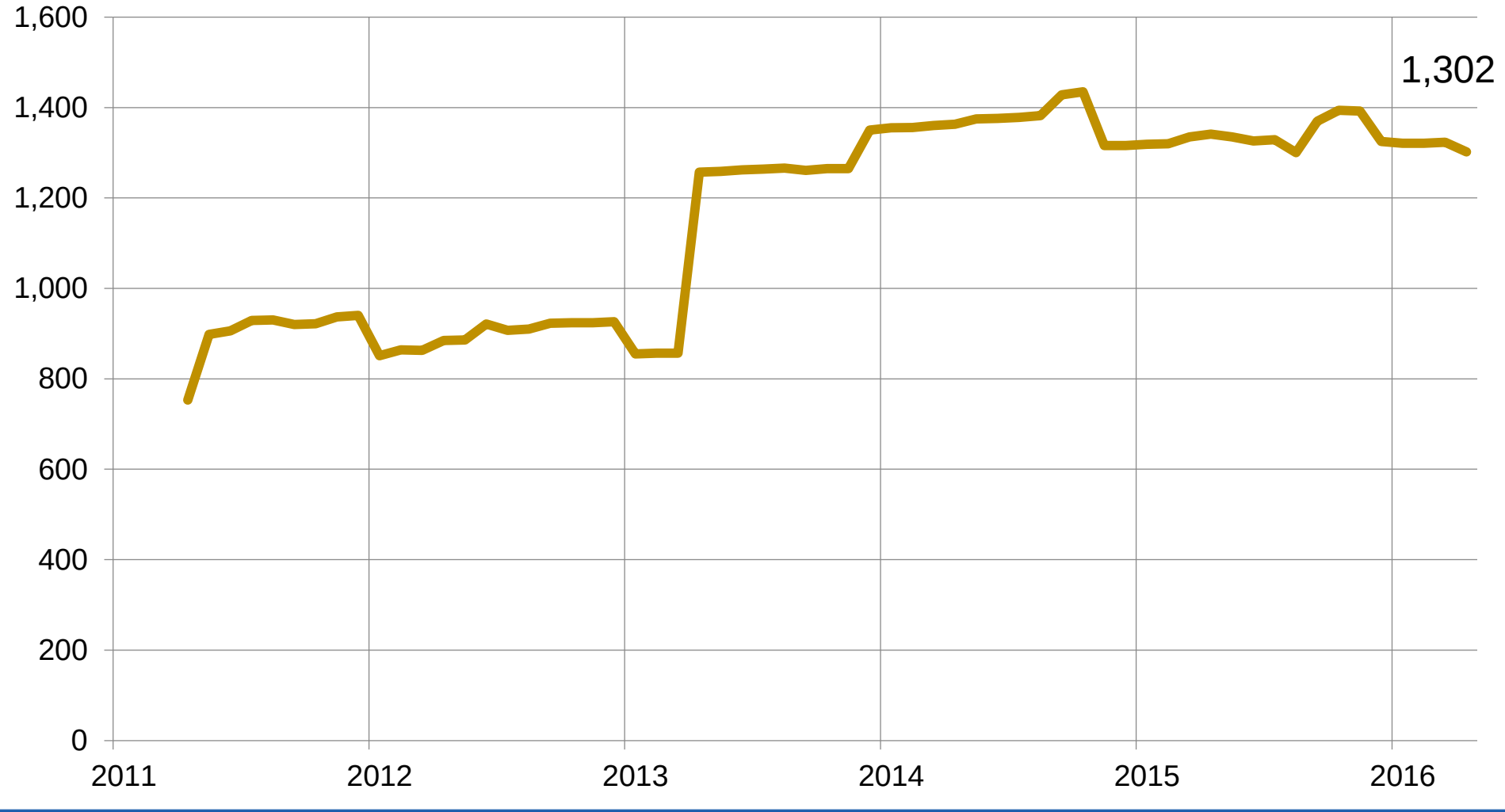
ES-CRRC® OVERVIEW

- CRRC became an EPA Certification Body in 2011
- Service to CRRC licensees and others seeking ENERGY STAR certification for roofing products
- ES-CRRC® program differs from CRRC Product Rating Program
  - Minimum threshold criteria
  - Solar reflectance values only
  - Certified products listed on ENERGY STAR Qualified Products List

ES-CRRC PARTNERS



LISTED PRODUCTS



PROGRAM CHANGE

- New ENERGY STAR Roof Products Specification (version 3.0) – Effective July 1, 2017
  - Version 3.0 requires all products to be weathered in 3 climate zones
    - Measurements of existing roofs no longer accepted
  - All certified products must comply by July 1, 2017
  - CRRC has been certifying products to version 3.0 since June 2014
    - Products that were certified *before* June 2014 must be certified to version 3.0 by July 1, 2017
    - **Any products not certified to version 3.0 by July 1, 2017 will lose ENERGY STAR certification**

RE-CERTIFY TO VERSION 3.0

- Products with three-year aged CRRC ratings, avoid the rush and certify to version 3 now
  - Approximately 700 products in ES-CRRC database than will be able to certify before July 1, 2017
- For questions, contact Melissa Rissman at melissa@coolroofs.org

QUESTIONS?