

International Workshop on Advances in Cool Roof Research Meeting Agenda

LBNL Heat Island Group
Thursday, July 28th & Friday, July 29th
DoubleTree Hotel Berkeley Marina, Berkeley, CA

Day 1: Thursday, July 28th, 2011

Time

Topic

7:30am - 8:30am Registration (Belvedere Foyer) & Breakfast

Session 1: Benefits of cool roofs (Belvedere)

8:30am - 9:00am Welcoming remarks
Presenters: Marc LaFrance, U.S. Department of Energy (By Skype)
& Ashok Gadgil, Director of Environmental Energy Technologies
Division at LBNL

9:00am - 9:20am [Benefits of cool materials](#)
Presenter: Ronnen Levinson, LBNL Heat Island Group

9:20am - 9:40am [The best solar solution for cool white rooftops](#)
Presenter: Michelle Meier, Solyndra

Session 2: Current state of knowledge on natural weathering

9:40am - 10:00am [Natural weathering practices](#)
Presenter: Rich Slomko, Atlas

10:00am - 10:10am Break

Session 3: Technical review of accelerated soiling & weathering procedures

10:10am - 10:30am [Current accelerated weathering practices](#)
Presenter: Sean Fowler, Q-Lab

10:30am - 10:50am Introduction to accelerated aging
Presenter: Hugo Destailats, LBNL Heat Island Group

10:50am - 11:30am [LBNL accelerated aging protocols](#)
Presenter: Mohamad Sleiman, LBNL Heat Island Group

11:30am - 11:50am [Accelerated aging apparatus](#)
Presenter: Yoshinori Kitsutaka, Tokyo Metropolitan University

11:50am - 12:10pm [Durability of several coatings - natural and accelerated exposure](#)
Presenter: Kenji Motohashi, Shibaura Institute of Technology,
Japan

Lunch Break (Yerba Buena Room)

12:10pm - 1:30pm [White roofs to cool your building, your city, and \(this is new!\) cool the world](#)

Presenter: Arthur Rosenfeld, LBNL Heat Island Group
&

[Regional climate consequences of large-scale cool roof and photovoltaic array deployment](#)

Presenter: Dev Millstein, LBNL Heat Island Group

Session 4: Influence of natural aging on roofing materials

1:30pm - 1:50pm [3-year study of aged solar reflectance of field-applied coatings](#)
Presenter: Jim Leonard, Reflective Roof Coatings

1:50pm - 2:10pm [Weathering from a titanium dioxide manufacturer's perspective](#)
Presenter: John Edwards, Huntsman

2:10pm - 2:30pm [Methodology of coatings dirt pickup resistance testing vs. exterior durability: statistical analysis of a predictive test](#)
Presenter: Joe Rokowski, Dow Chemical

2:30pm - 2:50pm [Next generation cool white roof coatings](#)
Presenter: Jerry Petersheim/Kurt Wood, Arkema

2:50pm - 3:00pm Break

Session 5: Technical review of accelerated biological growth procedures

3:00pm - 3:20pm [Development of an accelerated testing protocol by improved understanding of reflectance degradation](#)
Presenter: Meng-Dawn Cheng, Oak Ridge National Laboratory

3:20pm - 3:40pm [Performance of roofing materials as related to microbial and chemical characterization of atmospheric depositions and roof fouling](#)
Presenter: Susan Pfiffner, Oak Ridge National Laboratory

Session 6: Discussion of accelerated aging protocols

3:40pm - 5:00pm Breakout groups for discussion (Half of groups in Treasure Island & Half of groups in Angel Island)

5:00pm - 6:00pm Networking reception

Day 2: Friday, July 29th, 2011

Time

Topic

7:30am - 8:30am Registration (Belvedere Foyer) & Breakfast

Session 1: Cool roof organizations & projects (Belvedere)

8:30am - 8:40am [Global Cool Cities Alliance](#)
Presenter: Kurt Shickman, Global Cool Cities Alliance

8:40am - 8:50am [San Jose Cool City Pilot](#)
Presenter: Doug Davenport

8:50am - 9:10am 100 Cool Cities: Lay of the land, standards and double standards
Presenter: Hashem Akbari, Heat Island Group at Concordia University, Canada

Session 2: Existing cool roof standards & policies - international perspective

9:10am - 9:30am European Union policies, programs & market
Presenter: Hashem Akbari, Heat Island Group at Concordia University

9:30am - 9:50am [Cool roofs – moving research into building codes, the Australian experience](#)
Presenter: Tony Tanner, Roofing Tile Association of Australia

9:50am - 10:10am [Cool roofs in India](#)
Presenter: Bipin Shah, WinBuild, Inc.

10:10am - 10:30am [Progress of cool roof technology in China](#)
Presenter: Yang Shichao, Guangdong Provincial Academy of Building Research & Lin Changqing, Research Institute of Standards & Norms

10:30am - 10:40am Break

Session 3: Existing cool roof standards & policies - USA perspective

10:40am - 11:00am [Cool Roof Rating Council's rating program & international efforts](#)
Presenter: Sherry Hao, Cool Roof Rating Council

11:00am - 11:20pm [California Title 24 - building energy code](#)
Presenter: Ronnen Levinson, LBNL Heat Island Group

11:20am - 11:40am [Update on the International Code Council](#)
Presenter: Mike Ennis, The Single Ply Roofing Industry

11:40am - 12:00pm [Utility perspective on cool roofs - Pacific Gas & Electric Company](#)
Presenter: Peter Turnbull, Pacific Gas & Electric Company

Lunch Break (Yerba Buena Room)

12:00pm - 1:00pm [Albedo Satellite Project](#)
Presenter: Federico Rossi, University of Perugia

Session 4: Review of existing testing standards

1:00pm - 1:20pm [Mimicking natural exposure through accelerated ageing: examples from ISO standardization for service life prediction](#)
Presenter: Riccardo Paolini, Politecnico di Milano

1:20pm - 1:40pm [The draft ASTM dirt pick-up resistance test method](#)
Presenter: Steve Heinje, United Coatings

1:40pm - 2:00pm [Accelerated weathering methodology for cool roof coating materials](#)
Presenter: Anthony S. Camarota, Epox-z

Session 5: Discussion of steps to develop international/national standards for accelerated aging protocols

2:00pm - 3:00pm Group discussion

Wrap Up

3:00pm - 3:30pm Next steps

3:30pm Adjourn