

# Solar America Board for Codes and Standards (Solar ABCs)

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## Solar ABCs

Solar ABCs is a collaborative effort among experts to provide coordinated recommendations to codes and standards making bodies for existing and new solar technologies.

Acknowledgement

*This material is based upon work supported by the Department of Energy under Award Number DE-FC36-07GO17034.*



# Solar ABCs Steering Committee



## Solar ABCs Participants

- U.S. Department of Energy: Kevin Lynn, Charlie Hemmeline, Holly Thomas
- New Mexico State University: Andrew Rosenthal, John Wiles, Gabriella Cisneros
- Arizona State University: Govindasamy Tamizh-Mani
- Nat. Ren. Energy Laboratory: Tom Basso, Michael Coddington
- PowerMark Corporation: Alex Mikonowicz, Paul Bender, John Wohlgemuth
- Brooks Engineering: Bill Brooks
- Underwriters Laboratories: Tim Zgonena, Evelyn Butler
- Interstate Ren. Energy Council: Jane Weissman, Jason Keyes, Mike Sheehan,
- Sunset Technologies Inc.: Howard Barikmo
- Sandia Nat. Laboratories: Ward Bower
- Florida Solar Energy Center: Gobind Atmaram, Bob Reedy, Stephen Barkaszi
- North Carolina Solar Center: Keith McAllister
- Sherwood Associates: Larry Sherwood
- BEW Engineering: Jeff Newmiller, Colleen O'Brien



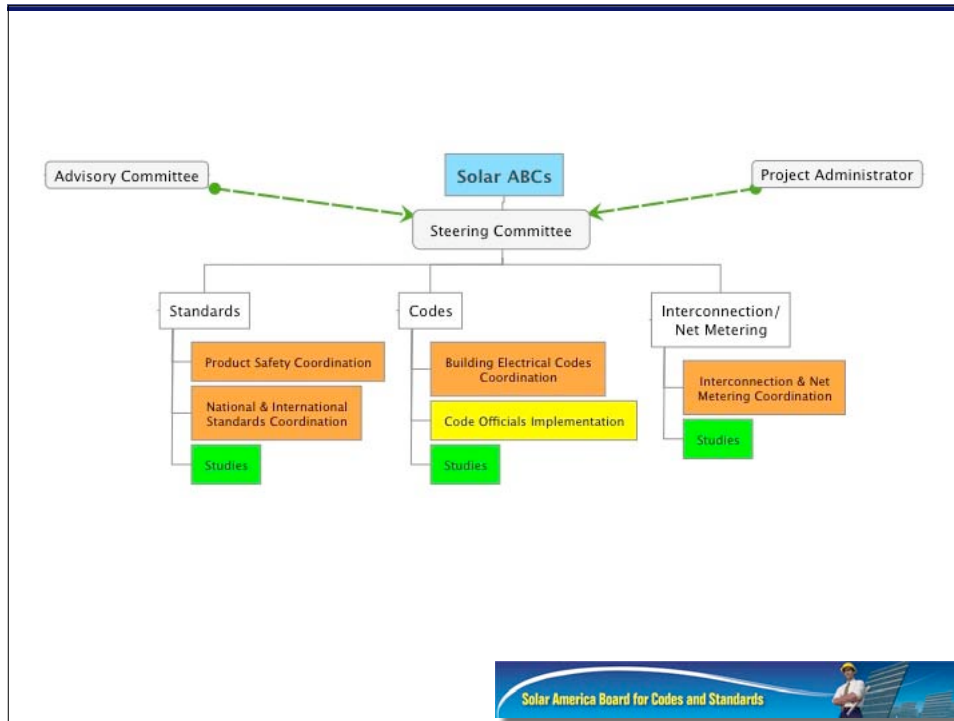
## Solar ABCs Advisory Committee

- Chair: Suzanne Borek, NJ Department of Community Affairs
- Vice Chair: Donald Warfield, BP Solar
- Jim Baak, Vote Solar
- Jon Bertolino, SMUD
- Alexander Bradley, DuPont
- Nick Chaset
- Marv Dargatz, Enphase Energy
- Adam Detrick, SunPower Corp.
- Mark Dougherty, Long Island Power Authority
- Ryan Gaston, Dow Chemical
- Smita Gupta, Itron
- Tom McCalmont, ReGrid Power
- Colin Murchie, Solar City
- Rhone Resch, Solar Energy Industries Association
- Mike Taylor, Solar Electric Power Association
- Peter Varadi, Consultant
- Wilson Rickerson, Rickerson Energy Strategies



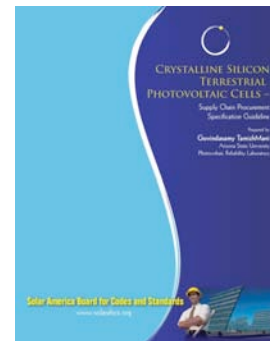
**Chuck Whitaker**  
**1957 - 2009**





## Study Reports Completed

- *Comparison of the Four Leading Small Generator Interconnection Procedures*
- *Utility External Disconnect Switch: Practical, Legal, and Technical Reasons to Eliminate the Requirement*
- *A Comprehensive Review of Solar Access Law in the United State: Suggested Standards for a Model Statute and Ordinance*
- *Crystalline Silicon Terrestrial Photovoltaic Cells – Supply Chain Prequalification Specification Guideline*
- *Expedited Permit Process for Small PV Systems (soon)*



## Study Reports Under Development

- PV Module Tolerance
- Procedure for System Energy Rating
- Inverter Meter Standards
- Protocol for Accelerated Aging Testing
- PV Module Frame Grounding
- High Wind Loads and Model Codes
- Guidebook to California State Fire Marshall Guidelines
- Review of FERC Interconnection Screens
- Rate Impact of Net Metering
- Policy Alternatives for Valuing Distributed Solar PV Generation
- Potential Impacts of AMI Infrastructure on Renewable Energy Policy
- Potential of AMI Data to Reduce the Technical Issues Related to Net Metering



## Standard and Code Development

- *National Electrical Code*®
- International Electrotechnical Commission (IEC) Standards
- National Standards (IEEE, ASTM, SEMI)
- Underwriters Laboratories (UL) Standards



## Implementation

- Communication about reports
- Training
- Fire Safety



## Gap Analysis

- Prioritize the future work of Solar ABCs (and others working on codes and standards issues)
- 2007 Gap Analysis led to current new projects that you will learn about today
- 2010 Gap Analysis Process Underway
- Comments at this meeting will feed into that process



## Opportunities for Involvement

- Stakeholder Meetings
- Quarterly Newsletter
- Comment on draft Reports and other documents

[www.solarabcs.org](http://www.solarabcs.org)



## For more information

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