



# INTERNATIONAL ACTIVITIES

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**Ray McGowan (Staff)**

**Bipin Shah (WinBuild, Inc.)**

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# INTERNATIONAL PROGRAM

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- NFRC international program seeks worldwide fenestration harmonization with NFRC rating system
  - Goals
    - Contribute to a global transformation of the fenestration market
    - Promote energy efficient fenestration products
    - Reduced energy and carbon use globally
  - Reduce fenestration manufacturer trade barriers
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# AUSTRALIA

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- NFRC licensee since 2007
    - Australian Fenestration Rating Council-administered by Australian Window Association
  - Rated products
    - 90,000 residential
    - 20,000 commercial
  - NFRC referenced in Australian Building Energy Code
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# SOUTH AFRICA

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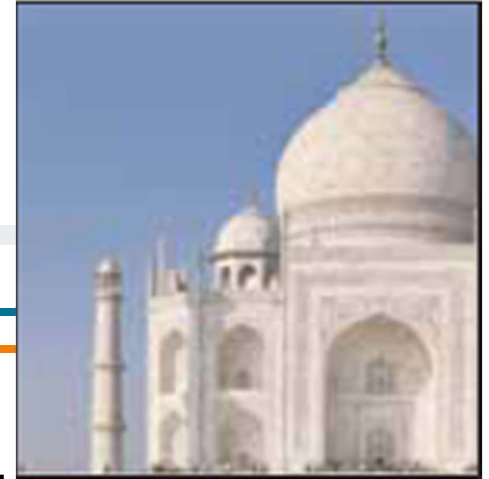


- NFRC licensee since 2008
  - Association of Architectural Aluminum Manufacturers of South Africa-AAAMSA is licensee
- THERM , WINDOW, CMAST and spectral data measurement training being planned for 2011
- Thermal Test Chamber accredited in 2009

# INDIA

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- NFRC partner country in 2011
    - Glazing Society of India (GSI) Board committed
  - Center for Environmental Planning and Technology (CEPT)
    - Indian government recognized regional building envelope energy efficiency center
    - U-Factor, SHGC, VT and Air Leakage testing capability
    - NFRC standards being used
    - State of the art solar calorimeter under construction
  - Further THERM, WINDOW and CMAST training in 2011
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# INDIA

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- U.S.-India Joint Clean Energy Research and Development Center proposed by US DOE and Indian Government
  - NFRC looking to actively participate in this project
  - US manufacturers may participate and benefit

National Fenestration  
Rating Council

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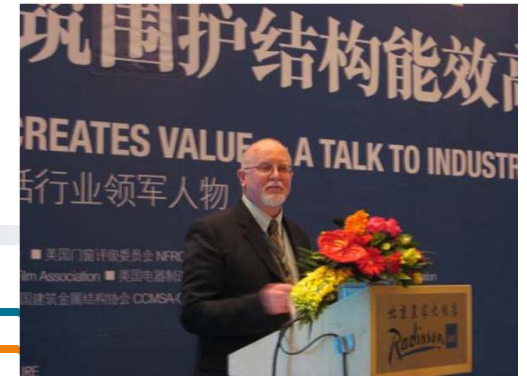
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# CHINA

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- NFRC working with the Ministry of Housing Urban-Rural Development (MOHURD)
  - Governmental entity operating fenestration rating system
  - Rated, labeled, and certified about 200 products fenestration products per Chinese procedures
  - NFRC pursuing rating harmonization with MOHURD

National Fenestration  
Rating Council

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# OTHER COUNTRIES

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- Kuwait
  - Project to Construct Energy Center at Kuwait Institute of Scientific Research (KISR)
  - Plans to build a component thermal testing laboratory using NFRC ratings standards
- Jordan
  - NFRC is assisting in development and establishment of window energy rating system
  - Working with US DOE, USAID, Royal Scientific Society of Jordan
- South Korea
  - Government has plans to implement window labeling program
  - NFRC plans to engage for harmonization in 2011

# OTHER COUNTRIES

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- Association of Southeast Asian Nations (ASEAN) countries
    - Establishment of a regional building envelope components testing center underway
    - NFRC participating with effort
  - Japan
    - Implementing a 4 grade star energy labeling system in 2011
      - U-factor only
    - NFRC will work with Ministry of Economic, Trade and Industry (METI) towards accepting NFRC ratings
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# OTHER INFORMATION

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- NFRC has a contract with Asia Pacific Economic Cooperation (APEC, 20 nations)
  - Gather existing building energy codes in all APEC nations
  - Identify window labeling and rating potential in these nations
  - Will serve as guidance for future harmonization activity

National Fenestration  
Rating Council

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# QUESTIONS

