



Organization of  
American States

**NIST**  
National Institute of  
Standards and Technology  
U.S. Department of Commerce

## Training Workshop on Building Energy Efficiency Systems and Labelling

October 26-28, 2015  
NIST, Gaithersburg, U.S.A.



## Taller de Capacitación en Sistemas de Eficiencia Energética de Edificios y Etiquetado

26-28 de octubre, 2015  
NIST, Gaithersburg, U.S.A.



## Preliminary Agenda

<i>Day 1 - First Session –Setting the Stage for the Workshop</i>	
8:00	Transportation from Hotel <b>Meet at hotel lobby</b>
8:15	Registration at Visitors Center
8:30 to 9:00	Participant Workshop Registration
9:00 to 9:15	Welcoming Remarks <b>William E. May, NIST Director</b>
9:15 to 9:45	Agenda Review <b>Andrew Persily, Chief, Energy and Environment Division, NIST</b> <b>Ana Maria Carreño, Manager, Global Best Practices &amp; Latin America, CLASP</b>
9:45 to 10:15	Keynote: “Positive Externalities of Energy Efficiency: A Reason for Public Sector Engagement”. <b>Mariano Gonzalez Serrano, Senior Energy Specialist, The World Bank</b>
10:15 to 10:45	Morning Break
10:45 am to 12:00 noon	NMI Participant panel on issues and needs <b>Co-chairs: Natascha Milesi-Ferretti, NIST and Ana Maria Carreño, CLASP</b>
12:00 noon to 1:00 pm	Lunch Break
<i>Day 1 – Second Session - Building Energy Efficiency Standards, Regulation and Voluntary Programs</i>	
1:00 pm to 2:30 pm	Panel Presentation: From Research to Standards to Regulation <b>Andrew Persily, NIST</b> <b>Stephanie Reiniche, Manager of Standards, ASHRAE</b> <b>Helen Davis, Engineering Manager, Regulatory Affairs, Air Conditioning, Heating, and Refrigeration Institute (AHRI)</b> <b>David Conover, Pacific Northwest National Laboratory</b> <b>Brendan Owens, Vice President of LEED Technical Development</b> <b>U.S. Green Building Council (USGBC)</b> <b>Ross Montgomery, P.E., CxA, Fellow ASHRAE</b> <b>Quality Systems and Technology, Inc.</b>
2:30 pm to 3:00 pm	Country Presentations Related to Building Systems <b>(Call for presentations)</b>
3:00 pm to 3:30 pm	Afternoon Break
3:30 pm to 4:00 pm	.High Performance Building Design, Commercial <b>Teresa Rainey, PE, LEED Fellow, Director of High Performance Design, EYP Architecture &amp; Engineering</b>
4:00 pm to 4:30 pm	.Building Rating Systems <b>Brendan Owens, USGBC</b>
4:30 pm to 5:00 pm	.Energy Efficient Lighting <b>Cameron Miller, NIST</b>
5:00 pm to 5:30 pm	Photovoltaics: Safety and Efficiency Codes, Standards, and Labelling, (Non)Regulation, and Certification Efforts <b>Brian Dougherty, NIST</b>
5:30 pm to 7:00 pm	Networking Reception at <b>Heritage Room</b>
7:00 pm	Transportation to Hotel <b>Meet in front of Administration Building 101</b>

## Preliminary Agenda

<i>Day 2 - First Session – Energy Efficient Building Technologies</i>	
8:30	Transportation from Hotel <b>Meet at hotel lobby</b>
9:00 am to 9:30 am	.Refrigerator/Freezer Rating <b>David Yashar, NIST</b>
9:30 am to 10:00 am	.Heat Pump/ Air conditioners <b>Vance Payne, NIST</b>
10:00 am to 10:30 am	Water Heating Technologies and Ratings <b>William Healy, NIST</b>
10:30 am to 11:00 am	Morning Break
11:00 am to 11:30 am	.Solar Hot Water <b>James Huggins, Solar Rating &amp; Certification Corp.</b>
11:30 am to 12:00 noon	Discussion
12:00 noon to 1:00 pm	Lunch

<i>Day 2 – Second Session –Appliance Standards and Labelling and Analytical Tools</i>	
1:00 pm to 1:30pm	.EPA EnergyStar <b>Eamon Monahan, U.S. Environmental Protection Agency</b>
1:30 pm to 2:15 pm	Challenges & Opportunities for Appliance Standards and Labels in Latin America <b>Eric Gibbs, Senior Director, Country Programs, CLASP</b> <b>Ana Maria Carreño, CLASP</b>
2:15 pm to 2:45 pm	Country Presentations Related to Building and/or Appliance Labelling <b>(Call for presentations)</b>
2:45 pm to 3:15 pm	Harmonization of Standards & Labels: Opportunities and Challenges <b>Jenny Corry Smith, Senior Associate, CLASP</b>
3:15 pm to 3:45 pm	Afternoon Break
3:45 pm to 4:15 pm	Overview of the Product Policy Analysis Tool (PPAT) and Case Study <b>Amit Khare, Manager, Country Programs, CLASP</b>
4:45 pm to 5:15 pm	Introduction to the Policy Analysis Modelling System (PAMS) and Case Study <b>Ana Maria Carreño, CLASP</b>
5:15 pm to 5:45 pm	Wrap-up discussion
5:45	Transportation to Hotel <b>Meet in front of Administration Building 101</b>

## Preliminary Agenda

<i>Day 3 - First Session – Measurement, Verification, and Enforcement for Appliance S&amp;L</i>	
8:30 am	Transportation from hotel Meet at hotel lobby
9:00 am to 9:30 am	Designing a Robust Compliance Framework for S&L Implementation <b>Eric Gibbs, CLASP</b> <b>Ana Maria Carreño, CLASP</b>
9:30 am to 10:00 am	Country Presentations Related to Measurement Verification & Enforcement <b>(Call for presentations)</b>
10:00 am to 11:00 am	Discussion of the challenges to the implementation of Measurement Verification and Enforcement in Latin America and the Caribbean <b>Nicole Kearney, CLASP</b> <b>Eric Gibbs, CLASP</b> <b>Ana Maria Carreño, CLASP</b>
11:00 am to 11:30 am	Morning Break
11:30 am to 12:00 noon	S&L Program Evaluation and Impact Assessment <b>Ana Maria Carreño, CLASP</b>
12:00 noon to 12:15 pm	Participant Feedback Survey <b>Andrew Conn, NIST</b>
12:15 pm to 1:15 pm	Lunch

<i>Day 3 - Second Session – High Performance Residential Design &amp; Facility Tours</i>	
1:15 pm to 1:45pm	.High Performance Building Design, Residential <b>Betsy Pettit, Building Science Corporation</b>
1:45 to 2:00	Walk to NZERTF
2:00 pm to 3:00 pm	Tour: Net-Zero Energy Residential Test Facility <b>Hunter Fannery, Senior Research Scientist, NIST</b>
3:00 pm to 3:15 pm	Afternoon Break
3:15 pm to 4:15 pm	Tours of Laboratory Facilities: Photovoltaics, Water Heaters, Heat pumps <b>Brian Dougherty, NIST</b> <b>Vance Payne, NIST</b> <b>Bill Healy, NIST</b>
4:15 to 4:30	Return to meeting room
4:30 pm to 5:00 pm	Workshop Wrap-up and Discussion of Follow-up Activities <b>Ana Maria Carreño, CLASP</b> <b>Andrew Persily, NIST</b>
5:00 pm to 5:15 pm	Certificate Presentation <b>Claire Saundry, NIST</b>
5:15 pm	Workshop close
5:30	Transportation to Hotel/Airport <b>Meet in front of Administration Building 101</b>