



Training Workshop on Building Energy Efficiency Systems and Labeling

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



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

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





Training Workshop Agenda: Monday October 26, 2015

Day 1 - First Session –Setting the Stage for the Workshop		
Moderator: Magdalena Navarro, NIST		
8:00 am	Transportation from Hotel	
	Meet at hotel lobby, all presentation to be held in West Square	
8:15 am	Registration at NIST Visitors Center	
8:30 am to 9:00 am	Participant Workshop Registration in West Square	
	Welcoming Remarks	
9:00 am to 9:15 am	Willie E. May, Under Secretary of Commerce for Standards and Technology and Director, National Institute of Standards and Technology Juan Cruz Monticelli, Energy Specialist of the Department of Sustainable	
	Development, Organization of American States	
0.45 are to 0.45 are	Workshop and Participant Introductions	
9:15 am to 9:45 am	Andrew Persily, Chief, Energy and Environment Division, NIST Ana María Carreño, Manager, Global Best Practices & Latin America, CLASP	
	Keynote: Positive Externalities of Energy Efficiency: A Reason for Public	
9:45 am to 10:15 am	Sector Engagement	
	Maríano Gonzalez Serrano, Senior Energy Specialist, The World Bank	
10:15 am to 10:45 am	Morning Break	
	NMI Participant Panel: Identifying Issues and Needs for Building Energy	
	Efficiency and Appliance Labeling	
	Co-chairs: Natascha Milesi-Ferretti, NIST	
10:45 am to 12:00 noon		
	Panelists: Antoinette Johnson Peart, BSJ, Jamaica	
	Leon Lira Cotes, CENAM, Mexico	
	Ruben Neris, INDOCAL, Dominican Republic	
	Javier Arias Real, CENAMEP, Panama	
12:00 noon to 1:00 pm	Lunch Break in NIST Cafeteria	

Day 1 – Second Session - Moderator: Andrew Persily	Building Energy Efficiency Standards, Regulation and Voluntary Programs
1:00 pm to 2:30 pm	Panel Presentation: From Research to Standards to Regulation Chair: Andrew Persily, NIST Panelists: Stephanie Reiniche, Manager of Standards, ASHRAE Helen Davis, Engineering Manager, Regulatory Affairs, Air Conditioning, Heating, and Refrigeration Institute (AHRI) David Conover, Senior Technical Advisor, Pacific Northwest National Laboratory Brendan Owens, Vice President of LEED Technical Development U.S. Green Building Council (USGBC) Ross Montgomery, P.E., CxA, Fellow ASHRAE Quality Systems and Technology, Inc.
2:30 pm to 3:00 pm	Country Presentations: Related to Building Systems William David Paucar Quinteros, INEN, Ecuador Taneille Davis-Murphy, Bureau of Standards, St. Vincent and Grenadines
3:00 pm to 3:30 pm	Afternoon Break
3:30 pm to 4:00 pm	Moving Beyond Codes – Advanced Energy Design Guides and Zero Energy Buildings Drury B. Crawley, Director, Building Performance, Bentley Systems Inc.
4:00 pm to 4:30 pm	Building Rating Systems and Market Transformation Brendan Owens, USGBC
4:30 pm to 5:00 pm	Truth in Solid State Lighting Labeling C. Cameron Miller, Leader, Optical Radiation Group, NIST
5:00 pm to 5:30 pm	Photovoltaics: Safety and Efficiency Codes, Standards, and Labeling, (Non)Regulation, and Certification Efforts

	Brian Dougherty, Heat Transfer Alternative Energy Systems, NIST
5:30 pm to 7:00 pm	Networking Reception at the Heritage Room
7:00 pm	Transportation to Hotel Meet in front of Administration Building 101

Tuesday October 27, 2015

Day 2 - First Session – E	nergy Efficient Building Technologies
Moderator: Natascha Miles	
8:30 am	Transportation from Hotel to NIST
	Meet at hotel lobby, all presentation to be held in West Square
9:00 am to 9:30 am	Measuring and Rating the Performance of Domestic Refrigerating Appliances
	David Yashar, Energy and Environment Division, NIST
0:20 are to 10:00 are	Measuring and Rating the Performance of Residential Air Conditioners and
9:30 am to 10:00 am	Heat Pumps W. Vance Payne, HVAC&R Equipment Performance Group, NIST
10:00 are to 10:20 are	Water Heating Technologies and Ratings
10:00 am to 10:30 am	William Healy, Leader, Heat Transfer Alternative Energy Systems Group, NIST
10:30 am to 11:00 am	Morning Break
11:00 am to 11:30 am	Solar Hot Water
11.00 am to 11.30 am	James Huggins, Technical Director, Solar Rating & Certification Corp.
	Discussion
11:30 am to 12:00 noon	Panama Program on Building Technologies
	Ana Cristina Barria, Empresa de Transmision, Panama
12:00 noon to 1:00 pm	Lunch Break in NIST Cafeteria
Day 2 – Second Session –	Appliance Standards and Labeling and Analytical Tools
Moderator: David Yashar, N	
1:00 pm to 1:30pm	EPA's Use of Standards in the ENERGY STAR Product Certification Scheme
	Eamon Monahan, U.S. Environmental Protection Agency
	Challenges & Opportunities for Appliance Standards and Labels in Latin
1:30 pm to 2:15 pm	America and the Caribbean
	Eric Gibbs, Senior Director, Country Programs, CLASP
	Ana María Carreño, CLASP
2:15 pm to 2:45 pm	Country Presentations Related to Building and/or Appliance Labeling
2:15 pm to 2:45 pm	Leon Lira Cortes, CENAM, Mexico Tanielle Davis-Murphy, Bureau of Standards, St. Vincent and Grenadines
	Harmonization of Standards & Labels: Opportunities and Challenges
2:45 pm to 3:15 pm	Jenny Corry Smith, Senior Associate, CLASP
3:15 pm to 3:45 pm	Afternoon Break
· · · ·	Overview of the Product Policy Analysis Tool (PPAT) and Case Study
3:45 pm to 4:15 pm	Amit Khare, Manager, Country Programs, CLASP
	Introduction to the Policy Analysis Modelling System (PAMS) and Case
4:15 pm to 4:45 pm	Study
	Ána María Carreño, CLASP
4:45 pm to 5:15 pm	Wrap-up discussion
	Ana María Carreño, CLASP
5:30 pm	Transportation to Hotel
	Meet in front of Administration Building 101

Wednesday October 28, 2015

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Day 3 - First Session – Measurement, Verification, and Enforcement for Appliance S&L Moderator: Andrew Conn, NIST	
8:30 am	Transportation from hotel Meet at hotel lobby, presentations to begin in West Square
9:00 am to 9:30 am	Designing a Robust Compliance Framework for S&L Implementation Eric Gibbs, CLASP Ana María Carreño, CLASP
9:30 am to 10:00 am	Country Presentations Related to Measurement Verification & Enforcement Sergio Teliz, UTE, Uruguay Stephen Isaacs, BBSQ, Bahamas Gaspar Gazzaola, INTI, Argentina
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 Nicole Kearney, Senior Associate CLASP Eric Gibbs, CLASP Ana María Carreño, CLASP
11:00 am to 11:30 am	Morning Break
11:30 am to 12:00 noon	S&L Program Evaluation and Impact Assessment Ana María Carreño, CLASP
12:00 noon to 12:15 pm	Participant Feedback Survey Hratch Semerjian, Chief Scientist Emeritus, NIST
12:15 pm to 1:15 pm	Lunch Break in NIST Cafeteria

Day 3 - Second Session – Moderator: Natascha Miles	High Performance Residential Design & Facility Tours i Ferretti, NIST
1:15 pm to 1:45pm	High Performance Building Design, Residential Betsy Pettit, President, Building Science Corporation
1:45 pm to 2:00 pm	Walk to Net-Zero Energy Residential Test Facility, Building 208
2:00 pm to 3:00 pm	Tour: Net-Zero Energy Residential Test Facility Hunter Fanney, Senior Research Scientist, NIST Betsy Pettit, Building Science Corporation
3:00 pm to 3:15 pm	Afternoon Break
3:15 pm to 4:15 pm	 Tours of Laboratory Facilities in Building Research, Building 226: Photovoltaic Laboratory, Room B109 Brian Dougherty, NIST Water Heater Laboratory, Room B005 William Healy, NIST Air Conditioner / Heat Pump Evaluation Laboratory, Rooms A114 and A118 W. Vance Payne, NIST
4:15 pm to 4:30 pm	Return to West Square
4:30 pm to 5:00 pm	Discussion of Follow-up Activities Hratch Semerjian, Chief Scientist Emeritus, NIST Eric Gibbs, CLASP
5:00 pm to 5:15 pm	Certificate Presentation Claire Saundry, NIST
5:15 pm	Closing Remarks Andrew Persily, NIST Eric Gibbs, CLASP
5:30 pm	Transportation to hotel/airport Meet in front of Administration Building 101