

22-Feb-10

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Preliminary Program for BEST 2 Conference - April 12-14, 2010					
Session Code	Session	Session Chairs and Topics	Duration hour/min	Begin	End
	11-Apr-10	Pre-Conference Evening			
	4/11/2010 (Sunday)	Early Registration at Conference Hotel		5:00 PM	6:30 PM
		Reception at Conference Hotel		6:30 PM	8:30 PM
	12-Apr-10	Conference day 1: Monday			
		Registration at convention center		7:00 AM	9:00 AM
		Continental Breakfast		7:00 AM	7:45 AM
	<i>Rob Kistler</i>	Monday morning : plenary sessions		7:45 AM	11:50 AM
P1	<i>Rob Kistler</i>	Welcome on behalf of the Portland BEC Organizing Committee	0:15	7:45 AM	8:00 AM
		Keynote Address from the Chief Architect, U.S. General Services Administration, Leslie L. Shepher	0:45	8:00 AM	8:45 AM
		P1-1 François Dubrous, Natural Resources Canada	0:20	8:45 AM	9:05 AM
		P1-2 Sam Rashkin, US Environmental Protection Agency	0:20	9:05 AM	9:25 AM
		P1-3 Invited Speaker, US Department of Energy	0:20	9:25 AM	9:45 AM
		Break	0:20	9:45 AM	10:05 AM
P2	<i>Henry Green</i>	P2-1 Introduction from the National Institute of Building Science, Washington, DC	0:20	10:05 AM	10:25 AM
	<i>John Tooley</i>	P2-2 Let's do it right, Advanced Energy Corp.	0:40	10:25 AM	11:05 AM
	<i>Mark Bomberg</i>	P2-3 Introduction to Energy Efficiency Track (EE), Syracuse U.	0:20	11:05 AM	11:25 AM
	<i>Don Onysko</i>	P2-4 Introduction to the Whole Building Track (WB-M), DMO Associates, Ottawa, ON	0:10	11:25 AM	11:35 AM
	<i>Stanley Yee</i>	P2-5 Introduction to Fenestration sessions (WB-F), Façade group, Portland, OR	0:10	11:35 AM	11:45 AM
		Lunch	1:00	11:45 AM	12:45 PM
	12-Apr-10	Monday afternoon: track sessions		12:45 PM	4:30 PM
EE3	Energy efficiency	Chair: François Dubrous, Natural Resources Canada, Ottawa, ON	2:00	12:45 PM	2:45 PM
	invited session	EE3-1 Energy use in mid and high-rise residential buildigs in BC - Warren Knowles, RDH Vancouver, BC			
		EE3-2 Design of sustainable buildings requires a new approach - Finch et al.,RDH Vancouver, BC			
		EE3-3 Optimization of net zero energy houses - Gary Proskiw, Proskiw Eng , Winnipeg and Anil Parekh, NRCan, Ottawa, On			

WB3	Moisture Effects	chair: Bill Rose, U of Ill, School of Architecture	2:00	12:45 PM	2:45 PM
		WB3-1 Building case studies in peer reviewed literature - William B. Rose, William B Rose & Associates			
		WB3-2 Moisture Intrusion through a Cavity Wall with Fill Insulation - R.G. Morse, S.M. Lattanzio, Morse Zehnter Associates, Troy, NY			
		WB3-3 Water penetration of cladding components -M.A. Lacasse, NRC Canada, Ottawa, ON			
		WB3-4 Six Ways for Condensation - Wagdy Anis, WJE, Boston, MA			
Break			0:25	2:45 PM	3:10 PM
EE4	Design: and re-habilitation	Chair: Marcin Pazera, Simpson, Gumpertz and Heger, Rockville, MD	1:30	3:10 PM	4:40 PM
		EE4-1 Review of Curtain Walls - Karol Kazmierczak, Morrison Hershfield Corp., Plantation, FL			
		EE4-2 Review of High-rise Construction - Pierre Michel Busque, Busque Eng, Richmond, BC			
		EE4-3 Energy considerations in the rehab of buildings - Michael B. Waite			
WB4	Case studies	Chair: Donald Onysko, DMO Associates	1:30	3:10 PM	4:40 PM
		WB4-1 Stucco Failures and Remediation - Roger G. Morse, Paul E. Haas, Morse Zehnter Associates, Troy, NY			
		WB4-2 Best Practices and Quality Issues in Residential Stucco Applications, Brad Oberg and Rich Baker, IBACOS			
		WB4-3 Developing an Owners Manual - Roger G. Morse			
		WB4-4 Restoration and repair of Spray Urethane Foam Defects - Roger G. Morse			
P5	Peter Ryan moderator	Evening Plenary and Reception	2:00	4:40 PM	6:40 PM
		P5-1 Rick Ames, Next Phase Studios, Daylighting as inspiration for Design	1:00		
		P5-2 Brad Oberg, IBACOS, Sustainable Lighting Products, Practices, and Principles	1:00		
		<i>Reception at Conference Hotel</i>	2:00	8:00 PM	10:00 PM
	13-Apr-10	Conference day 2: Tuesday			
		Registration		7:00 AM	9:00 AM
		Continental Breakfast		7:00 AM	7:45 AM
		Tuesday Morning Sessions			
EE6	High R Value	Chair : Mark Bomberg, Syracuse University	2:15	7:45 AM	10:00 AM
		EE6-1 Proposed Building Envelope Criteria for ASHRAE/IESNA Standard 90.1-2010 - John Hogan, Seattle Department of Planning and Development, Seattle, WA			
		EE6-2 Effect of aging on service life of vacuum insulation; Einar Wegger, Bjorn Peter Sunde, Erland Sveipe, Steinar Grynning, Ruben Baetens and Jan Vincent Thue, Norwegian U and SINTEF, Trondheim, Norway			

		EE6-3 Vacuum Insulation Panels in Wood Frame Wall Constructions – Measurements and Simulations, Thomas Haavi, Bjørn Jelle, Arild Gustavsen, Steinar Grynning, Sivert Uvsløkk, Ruben Baetens and Roland Caps			
		EE6-4 Insulated composite panels designed for brick backup - Keith Boyer, CENTRIA, Pittsburgh, PA and John Preece, 90ten Architects, Lawrenceville, GA			
		Waterloo, ON			
WB6	Airtightness of Building	chair: Gary Proskiw, Proskiw Engineering Ltd	2:15	7:45 AM	10:00 AM
		WB6-1 Air leakage difficulties in measurement and energy simulation - M.B. Waite and S.M. O'Brien SGH			
		D.Gonçalves,			
		Patenaude-Treme and Robert Jutras, Air-Ins, Montreal GC			
		WB6-3 Airtightness measurements of wood frame low energy row housing, Sverre B. Holøs, SINTEF and Thor-Oskar Relander, Norwegian University of Science and Technology, Trondheim, Norway			
		WB6-4 Air barrier assembly testing to replicate real world conditions- Craig Boucher, WR Grace, Cambridge, MA			
		WB6-5 Successful implementation of air tightness requirements in residential buildings - Bruce D Nelson, Minnesota Department of Commerce, Office of Energy Security, St. Paul, Minnesota			
Break			0:25	10:00 AM	10:25 AM
EE7	Daylighting	chair: Richard Keleher, The Thompson & Lichtner Company	1:20	10:25 AM	11:45 AM
		EE7-1 The Daylighting Design Process - Keith J. Yancey, Lam Partners, Cambridge, MA			
		EE7-2 (Day)lighting the Way to Zero Net Energy - James R. Benya, Benya Lighting Design, Portland, OR			
		EE7-3 Daylighting of a New England Elementary School - Michael Rosenfeld, FAIA			
WB7	Wall-window interface: air & water control	chair: Karol Kazmierczak, Morrison Hershfield	1:20	10:25 AM	11:45 AM
		WB7-1 A comparison of the water tightness performance of window installation details- Michael A, Lacasse, IRC, Ottawa, ON			
		WB7-2 Eliminating the Center for Air and Moisture Migration at the Window-Plan Interface Peter Poirier, Tremco Glazing Solutions Group, Ashland, OH, and Brian Stroik, Oscar J. Boldt Construction, Waukesha, WI			
		WB7-3 Observations Regarding Window Testing and Failures - R. G. Morse and P.E. Haas, Morse Zehnter Associates, Troy, NY			
Lunch			0:50	11:45 AM	12:35 PM
13-Apr-10 Tuesday Afternoon - visit to sponsors and sessions				1:00 PM	4:30 PM
EE8	Design & Energy Efficiency	EE8-1 Troubleshooting during design - Mark Lawton, Morrison Hershfield Limited, Vancouver, BC	1:30	1:00 PM	2:30 PM

		EE8-2 Strategies and Incentives for Retrofitting Buildings to Reduce Energy Consumption - Cory Vanderpool, Greenlink Alliance	1:30	1:00 PM	2:30 PM
WB8	Moisture Measurement	WB8-1 Moisture measurements in wood - Don Onysko, DMO Associates, Ottawa, ON. and Chris Schumacher, Building Science Corp, Waterloo ON.	1:30	1:00 PM	2:00 PM
		WB8-2 A Method to Detect Roof Leaks Using Conductive Tapes - David Vokey, DETEC Systems	1:30	2:00 PM	2:30 AM
EE9	Innovative materials	chair: David Yarbrough , R&D Services	2:00	2:30 PM	4:30 PM
		EE9-1 Bio-fiber insulation batts and boards - Mark Bomberg, TI Research, Ottawa, ON and George Chrenka, Cellulose Material Solutions, Grand Rapids, MI			
		EE9-2 Applying lessons from clay brick veneer to design of stucco mixes - Marcin Pazera, SGH, Rockville, MD and Mark Bomberg, TI Research, Ottawa, ON			
		EE9-3 Performance of glass-fiber lath as a base with exterior cement plaster (stucco) - William F. Egan and Eric Auman, BASF Construction Chemicals, LLC - Wall Systems, Jacksonville, FL			
		EE9-4 OSB with integral WRB - Thomas Thorsell and M. Bomberg , Syracuse U, Syracuse, NY			
WB 9	Fenestration 1	Chair: Stanley Yee, Façade Group	2:00	2:30 PM	4:30 PM
		SAGE			
		WB9-2 Selecting the Ideal windows for a High Performance Home in a Cold Climate - Ari Rapport, IBACOS Inc.			
		WB9-3 Window Optimization in High-Performance Commercial Buildings - Kerry Haglund, Center for Sustainable Building Research, University of Minnesota, Minneapolis, MN			
		WB9-4 Developing The Next Three Generations of Zero-Energy Windows, Brandon Tinianov, Serious Materials, Sunnyvale, CA			
P10	Peter Ryan moderator	Evening Plenary and Reception			
		P10-1 Joseph W. Lstiburek - Adventures in Building Science	2:00	4:30 PM	6:30 PM
		<i>Reception at Conference Hotel</i>	2:00	8:00 PM	10:00 PM
	14-Apr-10	Conference day 3: Wednesday			
		Registration		7:00 AM	9:00 AM
		Continental Breakfast		7:00 AM	7:45 AM
		Wednesday Morning Sessions		7:45 AM	11:50 AM
EE11	Inherent risk of going green	chair: Joseph J. Deringer, Inst. For the Sustainable Performance of Buildings	2:00	7:45 AM	9:45 AM
		EE11-1 Inherent risk of going green - Graham H. Davis, IBACOS, Colorado Springs, CO			
		EE11-2 Hygrothermal analysis in building envelope commissioning - Philip Parker, Read Jones Christoffersen Ltd and Cara Lozinsky, University of British Columbia, Vancouver, BC, Canada			

		EE11-3 A New Bestseller: Designing R-40 Exterior walls for "Dumb People" - John Broniek, Kevin Brozyna & Dave Stecher, IBACOS Inc., Pittsburgh, PA. <i>- Panel Discussion -</i>			
WB11	Material performance	chair and panel lead: Roger G. Morse, Morse Zehnter Associates	2:00	7:45 AM	9:45 AM
		WB11-1 Pressure Moderated Precast Rainscreen - A. Levy, G. Finch and N. Portal, RDH Building Engineering, Vancouver, BC			
		WB11-2 Moisture-Safe Unvented Wood Roof Systems - J. Straube, (U. of Waterloo and Building Science Corporation, Waterloo), Jon Smegal (BSC, Westford), John Smith (Johns Manville, Denver)			
		WB11-3 Decision-making Methodology and Selection Tools for HP Window Systems - Kerry Haglund, Center for Sustainable Building Research, University of Minnesota, Minneapolis, MN			
		WB11-4 Osmotic pressure and blistering of cold-applied asphaltic urethane waterproofing - Graham Finch, Brian Hubbs, RDH Building Engineering, Vancouver, BC, Robert Bombino, RDH Building Sciences, Seattle, WA			
		Break	0:25	9:45 AM	10:10 AM
EE12	HVAC and interaction with BE	chair: Lew Harriman, Mason-Grant	1:40	10:10 AM	11:50 AM
		EE12-1 Introduction to DBZ concepts - presentation, R.C. Richman, Ryerson University, Toronto, ON			
		EE12-2 Using Solar Dynamic Buffer Zone Walls to Increase Performance of Air Source Heat Pumps in Cold Climates - C. Cianfrone, Morrison Hershfield Limited, R.C. Richman, Ryerson University. and K.D. Pressnail, University of Toronto			
		EE12-3 Monitoring Internal Moisture Loads in Residential Buildings - Research Design and Early Findings - Lois B. Arena, Steven Winters Associates, Inc., and Michael D. Blanford, U.S. Department of Urban Housing and Development <i>panel discussion</i>			
WB12	EE of assemblies	chair and panel lead: Paul Totten, SGH	1:40	10:10 AM	11:50 AM
		WB12-1 Upgrade of glazing at Guggenheim museum - Angel Ayon and Bill Rose Angel Ayon			
		WB12-3 Industrial Development of Double-Skin Façade Systems - (presentation) Mate Thitisawat, Florida Atlantic University, FL			
		Lunch	0:55	11:50 AM	12:45 PM
		Wednesday Afternoon Sessions		12:45 PM	6:05 PM
EE13	Energy Efficiency 2	chair: William Nash, Whitlock Dalrymple Poston & Associates, P.C.	2:20	12:45 PM	3:05 PM

		EE13-1 Practical Residential Wall Systems: R-30 and beyond - William Zoeller, Lois B. Arena, Robb A. Aldrich, Steven Winter Associates, Inc. Norwalk, CT			
		EE13-2 Development of New Whole Building Hygrothermal Model - Fitsum Tariku, Kumar Kumaran, Institute for Research in Construction, Ottawa, ON, and Paul Fazio, Concordia University, Montreal, QC			
		EE13-3 Maximizing the Energy Efficiency of BE for Sustainable Future - Paul Totten & Martin Pazera, SGH			
		Insulation - Wahid Maref, Marianne Armstrong, Madeleine Rousseau and William Lei, National Research Council Canada,			
WB13	strategic issues	chair: Brian Stroik, Oscar J. Boldt Construction	2:20	12:45 PM	3:05 PM
	in building design	Building Condition Applications, Antonio Colantonio & Michel Theauvette, Public Works & Gov't Services Canada, Gatineau, QC			
		WB13-2 Energy Efficient Architectural Design Strategies in Hot-Dry Area of Iran: Kashan - Kamyar T. Behbood, Mohammad Taleghani, and Shahin Heydari, Faculty of Architecture, University of Tehran, IRAN			
		WB13-3 Thermal Rehabilitation of Existing Buildings with Vacuum Insulation Panel - Christoph Buxbaum, W. Gallent, S. Kircher, Carinthia U.of Applied Sciences, Spittal an der Drau, and O. Pankratz, Haidershofen, and A. Seiler, KNAUF, Austria			
		WB13-4 A Journey in Integrated Design - Ketchum Hall in U of Colorado- Linda Morisson, Ambient Energy; Melanie Short, SLATERPAULL Architects; and Michael Kaufman, Ambient Energy, Denver, CO			
		WB13-5 Design Communication with BIM: What the Drawings Are Not Telling You - J. Williams, Rogers-O'Brian Construction			
Break			0:25	3:05 PM	3:30 PM
EE14	Commissioning	chair and moderator: Mark Bomberg , Syracuse University	2:20	3:30 PM	5:50 PM
		EE14-1 The Ultimate Envelope – Honest, Effective and Affordable - Keiryn Ross, Marc Zuluaga, Mike Khazzam, Steven Winters Associates, Inc			
		EE14-2 Functional performance testing within the BE Commissioning - Kevin D. Knight , John A. Runkle, Architectural Testing Inc., York, PA, .Bryan J. Boyle, Retro-Specs Consultants Ltd., Winnipeg, MB			
		EE14-3-4 Commissioning the Building Enclosure - Brian Stroik, Oscar J. Boldt Construction, Waukesha WI			
		Runkle & Aldous			
		panel discussion			
WB14	Fenestration 2	Chair: Chris Mathis, Mathis Consulting Company	2:20	3:30 PM	5:50 PM
		WB14-1 Solar Radiation Glazing Factors for Electrochromic Windows for Building Applications - Bjørn P. Jelle, SINTEF, and Arild Gustavsen, Norwegian University, Trondheim, Norway			
		WB14-2 Considerations for Condensation Resistance of Fenestration Assemblies - Tracy Rogers, Edgetech IG, Inc., Cambridge, OH			

		WB14-3 Comparisons of Thermal Performance and Energy Consumption of Facades Used in Commercial Buildings - Lawrence D. Carbary, Dow Corning Corp, Midland, MI; Valerie Hayez, Seneffe, Belgium, and Andreas Wolf, Mahabir Bhandari, Wiesbaden, Germany			
P15	Closure	Closure and announcement of BEST 3 conference - chair Larry Ray, BEC Atlanta	0:20	5:50 PM	6:10 PM