

2nd ANNUAL RESIDENTIAL BUILDING DESIGN & CONSTRUCTION CONFERENCE
RBDC, February 19-20, 2014 **Penn Stater Conference Center Hotel, State College, PA**

	Day 1 – February 19		Day 2 – February 20
Early Morning 8:30 – 10:15	<p align="center"><u>Introduction & Welcome</u></p> <p align="center">Dr. Ali Memari, RBDC Conference Chair Dr. Amr Elnashai, Dean, Penn State College of Engineering</p> <p align="center"><u>Keynote Speaker</u></p> <p align="center">Tim McDonald, President, Onion Flats LLC</p> <p align="center"><i>Title: Pump-Up the Volume – Passive House, Mass Production and Multi-Family – Can HOUSING save the planet?</i></p> <p align="center"><u>Invited Speaker</u></p> <p align="center">David Crump, Jr. Esq., Director of Legal Research, National Association of Home Builders</p> <p align="center"><i>Title: Sunlight Reflected from Double-Paned Low-e Windows, and Damage to Vinyl Siding and Other Materials</i></p>	Early Morning 8:30 – 10:15	<p align="center"><u>Welcome</u></p> <p align="center">Dr. Ali Memari, RBDC Conference Chair</p> <p align="center"><u>Keynote Speaker</u></p> <p align="center">David Crowe, Chief Economist, National Association of Home Builders</p> <p align="center"><i>Title: Home Building Impact</i></p> <p align="center"><u>Invited Speaker</u></p> <p align="center">Erik Churchill, Project Manager, SHoP</p> <p align="center"><i>Title: New Methods of Delivery: Prefabrication Strategies in Residential Construction</i></p>
	<i>Break (10:15-10:30)</i>		<i>Break (10:15-10:30)</i>
10:30 – 12:00	<p align="center">Open Building: Disentanglement and Flexibility as Keys to Sustainable Modularity Stephen Kendall (Ball State University)</p> <p align="center">87 Dikeman Street Alexis Lenza (SHoP Construction)</p> <p align="center">Adoption Patterns of Energy Efficient Housing Technologies 2000-2010: Builders as Innovators Matthew Keefe, Andrew McCoy, Drew Sanderford, & Dong Zhao (Virginia Tech)</p>	10:30 – 12:00	<p align="center">Performance Optimization and Development of a Home Modular Delivery System Lisa Iulo, Bruce Quigley, & Aaron Wertman (Penn State)</p> <p align="center">Structural Systems and Design Considerations for Low-Rise Senior Living and Multifamily Residential Buildings Jason Dreher & Mark Erdman (Structura)</p> <p align="center">Cost Effective Ways to Construct Energy Star Homes Rick Gazica (ICF International)</p>
	<i>Lunch (12:00 – 1:00)</i>		<i>Lunch (12:00 – 1:00)</i>

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1:00 – 3:00	<p>An Effort to Refine Regional Energy Assessment Methods in Support of Energy Auditors to Increase Assessment Accuracy and Consumer Confidence Oluwateniola Ladipo, Andrew McCoy, Annie Pearce, & Georg Reichard (Virginia Tech)</p> <p>Lifecycle Assessment of Residential Buildings Lionel Lemay & Tien Peng (NRMCA)</p> <p>Policies to Enhance Resilient Communities Lionel Lemay & Tien Peng (NRMCA)</p> <p>Smart Grid Systems Integration in Modular Home Design and Construction Fu-Ju Wu & David Riley (Penn State)</p>	1:00 – 3:00	<p>Meeting Residential Energy Requirements with Wood Frame Construction Lori Koch, John Showalter, & Loren Ross (American Wood Council)</p> <p>Prescriptive Residential Deck Design Lori Koch, John Showalter, & Loren Ross (American Wood Council)</p> <p>Changes to the 2012 Wood Frame Construction Manual Kenneth Bland, Bradford Douglas, Lori Koch, Peter Mazikins, Loren Ross, & John Showalter (American Wood Council)</p> <p>Superstorm Sandy Storm Surge and Structural Damage Correlation - A Case Study of Long Beach, NY Nicole Braxtan, Kerryanne Donohue-Couch, & Kerianne Westphal (Manhattan College)</p>
	<i>Break (3:00 – 3:15)</i>		<i>Break (3:00 – 3:15)</i>
3:15 – 5:15	<p>Observations from Model Scale Thermal Tests on Heat Exchanger Pile Prasenjit Basu, Omid Ghasemi-Fare, & Cory Kramer (Penn State)</p> <p>Evaluation of Venetian Blind Attributes for Energy Efficiency Tim Ariosto (Penn State)</p> <p>Twelve Simple Steps to Net-Zero Energy Design Ted Clifton (Zero Energy Plans)</p>	3:15 – 5:15	<p>Resuspension and Transport of Allergen-Carrier Particles in Residential HVAC Dong Hee Choi, Dong Hwa Kang, Paul Kremer, & James Freihaut (Penn State)</p> <p>Structural BIM Processes for Modular Multi-Story Buildings in Design and Construction Ryan Solnosky, Ali Memari, & Issa Ramaji (Penn State)</p> <p>Residential Vertical Expansion of Existing Commercial Buildings Using Modular Construction Methods Anthony Jellen & Ali Memari (Penn State)</p> <p>Information Exchanges Standardization Issa Ramaji, Ali Memari, & Ryan Solnosky (Penn State)</p> <p>Review of Different Components of Solar Decathlon House Projects Ehsan Kamel & Ali Memari (Penn State)</p>
	<p>Networking Reception 5:30-8:30 Penn State Hintz Alumni Center <i>Transportation from the Penn Stater Conference Center Hotel will be provided</i></p>		