

Energy Research Workshop May 6, 2014 Gross Hall 103, Energy Hub	
Time	Item
9:00 – 9:25	Breakfast (pastries, fruit, juice, coffee) Registration
9:25 – 9:35	Welcome – Richard Newell, Director, Duke University Energy Initiative; Gendell Professor of Energy & Environmental Economics
Session 1: Energy Materials and Systems	
9:35 – 9:55	Paper : “Hybrid Solar Hydrogen Production and Integration into a Fuel Cell System,” Nico Hotz, Assistant Professor of Mechanical Engineering (15 min. presentation, plus Q&A)
9:55 – 10:10	Sketch Set on Energy Materials (5 min. each) <ul style="list-style-type: none"> • “Plasmonic-Enhanced Tunnel Junctions for Organic Solar Cells,” Adrienne Stiff-Roberts, Associate Professor of Electrical and Computer Engineering, and Maiken Mikkelen, Assistant Professor in the Department of Electrical and Computer Engineering • “Nanostructured Materials for Photoelectrochemical Water Splitting”, Qing Peng, Research Scientist, Pratt School of Engineering • “A Modular System for Interfacing Electrical Energy Sources, Storage and Load,” Angel Peterchev, Assistant Professor, Director of the Brain Stimulation Engineering Lab and Stefan M. Goetz, Postdoctoral Associate
10:10 – 10:25	Discussion
10:25 – 10:45	Coffee break
Session 2: Individual and Household Energy Decisionmaking	
10:45 – 11:10	Paper: “Do Stated Preference Surveys Predict Actual Adoption of Cleaner Cook Stoves?,” Marc Jeuland, Assistant Professor of Public Policy, and Faculty Affiliate, Duke Global Health Institute (15 min. presentation, plus Q&A)
11:10 – 11:30	Panel on Individual Energy and Environment Behavior (~5 min. each) <ul style="list-style-type: none"> • “Political Ideology Affects Energy-efficiency Attitudes and Choices,” Rick Larrick, Michael W. Krzyzewski University Professor in Leadership, Professor of Management • “Redesigning the Fuel Economy Label Affects Intention to Purchase Efficient Vehicles,” Adrian Camilleri, Postdoctoral Associate • “Solution Aversion – The Case of Climate Change,” Troy Campbell, Marketing Ph.D Student • “Belief Superiority in the Environmental Domain: Attitude Extremity and Reactions to Fracking in North Carolina,” Kaitlin Toner, Postdoctoral Fellow, Vanderbilt University
11:30 – 12:00	Discussion
12:00 – 1:15	Lunch buffet
1:15 – 1:55	Energy Initiative Update, Richard Newell, Director, Duke University Energy Initiative

Sessions continue on next page

Session 3: Policy Impacts in the Energy Sector	
1:55 – 2:10	Paper: “Shale Public Finance - Local Government Financial Impacts of Unconventional Oil and Gas Development,” Daniel Raimi, Associate in Research, Energy Initiative (10 min. presentation, plus Q&A)
2:10 – 2:25	Paper: “Regulating Existing Power Plants under the Clean Air Act: Present and Future Consequences of Key Design Choices,” Brian Murray, Director for Economic Analysis at the Nicholas Inst. for Environmental Policy Solutions, and Research Professor; Billy Pizer, Professor of Public Policy and Environment; Martin Ross, Senior Research Economist, Nicholas Inst. for Environmental Policy Solutions (15 min. presentation)
2:25 – 2:45	Discussion
2:45 – 3:15	Coffee break
Session 4: Bass Connections in Energy Projects	
3:15 - 3:30	Sketch Set on Energy-Efficiency Research Undertaken Within the Bass Connections Program <ul style="list-style-type: none"> • “The University As An Energy Laboratory: Design And Implementation Of An Energy Disaggregation System,” Kyle Bradbury, Postdoctoral Energy Fellow, Energy Initiative • “Goals And Collective Efficacy: Routes To Energy Saving,” Rick Larrick, Michael W. Krzyzewski, University Professor in Leadership, Professor of Management • “Communicating About Energy In The Triangle: Engaging Students And Local Partners To Improve Household Consumption,” Brian Southwell, Adjunct Professor of Energy
3:30 – 3:45	Discussion
3:45 - 4:00	Sketch Set on Other Bass Connections Projects <ul style="list-style-type: none"> • “U.S. Climate Policy Options: Regulating Greenhouse Gas Emissions from Petroleum Refineries & Steel,” Billy Pizer, Professor of Public Policy and Environment • “Modeling Tools For Energy Systems Analysis (MOTESA),” Dalia Patino Echeverri, Gendell Assistant Professor of Energy Systems and Public Policy • “Exploring The Intersection Of Energy And Peace-Building Through Film,” Liz Milewicz, Head, Digital Scholarship Services, Duke Libraries
4:00 – 4:15	Discussion
4:15 – 4:30	Closing Remarks and Discussion: Richard Newell
Energy Mix	
4:30 – 7:00	Drinks and hors d’oeuvres reception Poster Session <ul style="list-style-type: none"> • “Emerging Trends in Renewable Energy,” Safak Yucel, Ph. D. candidate • “Wastewater and Hydraulic Fracturing,” Andrew Kondash, Ph. D. candidate • “Isotopic Imprints of the Effluents from an Oil Sand Tailing Pond in Alberta, CA,” Jennifer Harkness, Ph. D. candidate • “Analysis of Total Radioactivity of Coal Produced fly Ash,” Nancy Lauer, Ph. D. candidate • “An Alternative to Energy Storage for Wind Power: Coal Plants with Flexible Amine-Based CCS,” Rubenka Bandyopadhyay, Ph.D. candidate • Bass Connections in Energy Projects (several posters)