

**ENERGY TECHNOLOGY PARTNERSHIP FORUM APRIL 13, ALUMNI HOUSE
COLLEGE OF WILLIAM AND MARY**

REGISTRATION SITE: TECHNOLOGY HAMPTON ROAD

8:00-8:45 Registration, refreshments

8:45-9:00 Welcome, Opening Remarks

9:00-9:20 Opening/Keynote Speaker: Mary Doswell, Senior Vice President, Alternative Energy Solutions, Dominion Resources Services, Inc.

- *How advancements in energy technology are transforming the energy industry and challenging the nation's current energy policies and business models*

9:20-10:30 Plenary Panel on Energy Technology; an overview

- **Biofuels:** Albert C. Weed, Chairman and Co-Executive Director, Public Policy Virginia, Inc.
 - *Biomass Energy: The Promise and Challenge*
- **Renewable Energy:** George Hagerman, Director of Research, Virginia Coastal Energy Research Consortium
 - *Recent findings/studies related to centralized wind farms offshore and small distributed solar systems on shore.*
- **Nuclear Energy:** In process of confirming speaker

10:30-10:45 Break

10:45-12:00 Plenary Session on Energy Users, Environment Impact, Conservation and Efficiency; an overview

- **Major Investors/Users of Energy:** Vladimir Atanasov, College of William and Mary
 - *Overview of modern business valuation techniques and their applications in the analysis of conventional and alternative energy technologies*

- **Environmental Impact Mitigation:** Hunter Fanney, Chief, Building Environment Division, Engineering Laboratory, National Institute of Standards and Technology
 - *NET Zero sustainable living provides a high quality of life using natural resources on site*

- **Energy Conservation and Efficiency:** Dennis Bushnell, Chief Scientist, NASA Langley Research Center
 - *Energy conservation and reduced U.S. energy consumption*

12:00-12:45 **Box Lunch**

12:50-2:15 **Parallel Session I/Energy Technology**

- **Biofuels**
 - Pat Hatcher, Old Dominion University
 - *Biodiesel and hydrocarbons from algae*
 - Sandeep Kumar, Old Dominion University
 - *Microalgae to biofuels using sub and supercritical water technology*
 - Karl Kuschner, College of William and Mary
 - *High productivity biomass accumulation without arable land use, phosphate or nitrate supplies, using environmentally friendly algae production methods*
 - *Al Weed, Public Policy Virginia*

- **Renewable Energy**
 - George Hagerman, Virginia Coastal Energy Research Consortium
 - *Offshore wind energy*
 - John Mankins, Artemis Solutions
 - *The Future of Renewable Energy*

- **Nuclear Energy**
 - Ray Turcotte, NASA Langley Research Center
 - George Bischof, site Vice President, Surry Power Station
 - Roy Whitney, Thomas Jefferson National Laboratory

2:15-2:30 **Break**

2:30-3:55 Parallel Sessions II/Energy Users, Environment Impact, Conservation and Efficiency,

- **Major Investors/Users of Energy**

- Mary Doswell, Senior Vice President, Alternative Energy Solutions, Dominion Resources Services, Inc.
 - *What technologies Are and Aren't Ready for Prime Time?*
- Vladimir Atanasov, College of William and Mary
 - *Analysis of US and foreign policies designed to influence investments in renewable energy*
- Marco Rubin, Center for Innovative Technology/C.I.T.
 - *Emerging Energy Ventures: Strategies To Attract Professional Equity Investment*

- **Environmental Impact Mitigation**

- Hunter Fanney, National Institute of Standards and Technology
 - *NIST's Research Program and the NETZero Energy Residential Test Facility: further reflection building on the plenary briefing*
- Doris Hamill, NASA Langley Research Center
 - *"Biochar" to convert wood waste to a very stable char material useful for mulch, etc. and is the only thing that has a realistic chance of reversing carbon dioxide buildup in the atmosphere. Currently very expensive process but small scale efforts/pilots can foster support for expanded testing.*

- **Energy Conservation and Efficiency**

- Dennis Bushnell, Chief Scientist, NASA Langley Research Center
 - *Energy conservation: why and why not*
- Erick Sheppard, Dean, School of Engineering and Technology, Hampton University
 - *Moving towards energy efficient communities*
- Stuart Rose, builder and architect of garden atriums
 - *Use of renewable resources for energy efficient homes*

4:00 Closing remarks, adjourn formal meeting

4:00-4:30 Informal networking