

Forestry Research Advisory Council (FRAC)

Masood Akhtar, Ph.D.

Chair, FRAC

President, Bioenergy Deployment Consortium

Biomass R&D Technical Advisory Committee

August 23, 2011

About FRAC

- FRAC advises the Secretary of Agriculture in accordance with the McIntire-Stennis Act of 1962, which authorizes the Secretary to encourage and assist forestry research through land-grant colleges, agricultural experiment stations, and forestry related programs.
- The Council also provides advice related to the Forest Service research program, authorized by the Forest and Rangeland Renewable Resources Research Act of 1978. Council responsibilities cover regional and national forestry research planning and coordination within the Federal and State agencies, forestry schools, forest industries, and non-governmental organizations.
- FRAC convenes annually and presents recommendations directly to the Secretary.

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2010 FRAC Recommendations

- Insure that research is fully integrated with technology transfer efforts by including the transfer of information and knowledge to the end user in a user-friendly form.
- Integrate social sciences with biophysical sciences in research projects to strengthen the capability to study coupled ecological, and social systems, such as wildfire, climate change mitigation and adaptation, wildfire, and land use and land management decisions.
- Develop the supporting science to sustainably manage competing demands on forests and agroforests to produce biofuels, fiber, and water and ecosystem services in concert with measured biological objectives.
- Maintain intellectual capacity in fundamental forest sciences such as pathology, entomology, silviculture, botany, and field biology, to avoid continued loss of expertise and capacity to respond to future forest issues such as climate change, forest pests and pathogens, and other emerging issues.

2010 FRAC Recommendations Cont.

- Accelerate deployment of technologies by helping Bridge the “valley of death” to move research results into commercial use.

As with the case of other federal agencies, provide 50% cost share for commercialization of USDA-funded technologies.

Fund a fully integrated unbiased and modular pilot plant within Forest Service R&D to prove available advanced biofuels conversion technologies on multiple feedstocks so that the 16 billion gallons of cellulosic biofuels goal by 2022 can be achieved.

2011 FRAC's Agenda

Washington, DC August 16, 2011

- Topic 1: **USDA NIFA at a glance-** Frank E. Boteler, Assistant Director, Institute of Bioenergy, Climate, and Environment, National Institute of Food and Agriculture (NIFA), USDA
- Topic 2: **USDA – Forest Service at a glance-**Jim Reaves, Deputy Chief for Research & Development, U.S. Forest Service, USDA
- Topic 3: **The Feedstock Readiness Level (FSRL) TOOL: A USDA-FAA Collaboration-**Jeffrey Steiner, National Program Leader, Biomass Production Systems, USDA
- Topic 4: **Climate Adaptation Research Across USDA Agencies esp. Human Adaptation and Preparation for Climate Change and the Integration for Human and Forest Ecosystems-**Dave Cleaves, Climate Change Advisor to the Chief of the U.S. Forest Service, USDA
- Topic 5: **How Research Activities Are Being Integrated Across USDA Agencies-** Cathie Woteki, Under Secretary for Research, Education, and Economics, USDA

2011 FRAC Agenda, Cont.

- Topic 6: **Biofuels and Value-added Products: Research, Development, Deployment and Technology Transfer** -Carlos Rodriguez-Franco, Director, Forest Management Sciences, U.S. Forest Service Research and Development, USDA
- Topic 7: **An industry perspective on how policy and research intersects industry**-Greg Johnson, Director, Forest Research, Weyerhaeuser Company, Federal Way, Washington
- Topics 8 and 9: **Nanomaterials and Products and USDA and Industry Initiatives to Produce Value-added Products from beetle-killed and diseased trees from Wood**- World Nieh, National Program Leader, Forest Products and Wood Utilization, U.S. Forest Service Research and Development, USDA
- Topic 10: **An Update on AF&PA Efforts To Support Forest Products Industry**- Paul Noe, Vice President for Policy, AF&PA and Ron Brown, Executive Director, Agenda 2020 Technology Alliance, Washington, DC
- Topic 11: **Public/Private Partnership**-Mary Wagner, Associate Chief, U.S. Forest Service, USDA

2011 FRAC Agenda, Cont.

- Topic 12: **Sustaining Environmental Capital: Protecting Society and the Economy**



- Dinner speaker- Rosina Bierbaum, Member of the President's Council of Advisors on Science and Technology (PCAST), Dean of the School of Natural Resource and Environment, University of Michigan



[PCAST: On April 27, 2009, President Obama announced the President's Council of Advisors on Science and Technology (PCAST). PCAST is an advisory group of the nation's leading scientists and engineers who directly advise the President and the Executive Office of the President. PCAST makes policy recommendations in the many areas where understanding of science, technology, and innovation is key to strengthening our economy and forming policy that works for the American people. PCAST is administered by the Office of Science and Technology Policy (OSTP)]

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