

VIMS-Industry Partnership Meeting
May 25, 2012
Notes

Attendees: Vic Chatigny (Ocean Power Technologies), Doug Dwoyer (Innovate Hampton Roads), Margaret Fonner (VIMS), Carl Friedrich (VIMS), Jim Golden (W&M), Troy Hartley (VIMS), Steve Kaattari (VIMS), Dennis Manos (W&M), Dave Marsell (Measurement Specialties), Mike Melo (ITA International), Doug Meredith (Gloucester County), Marcus Rowell (Measurement Specialties), Leonard Sledge (W&M), Greg Stringfield (Consultant), Mike Unger (VIMS), Lyle Varnell (VIMS), John Wells (VIMS), Heather Wood (Virginia Port Authority), Steve Yakshe (Entrepreneur)

Notes from our meetings and some presentations are posted at:

<http://www.wm.edu/offices/economicdevelopment/regionalprojects/chesapeakebay/vimsinduspartner/index.php> .

- **VIMS Update - John Wells**
 - Five new VIMS faculty will be hired in the areas of marine geography, physical oceanography, microbial ecology, and environmental microbiology
 - Received funding to design and replace an aging research vessel (70-100 feet)
 - Three representatives from Senator Warner's office are visiting VIMS to learn more about oyster aquaculture

- **A Real-Time Antibody-Based Field Assay to Predict Contaminant Bioavailability in Sediments – Mike Unger**
 - NIEHS Superfund Research Program (\$872K from 2012-2014)
 - Principal Investigators – Mike Unger, Steve Kaattari, and Wolfgang Vogelbein (VIMS & William & Mary)
 - Collaborator – Josef Reiger (The Elizabeth River Project)
 - Using innovative technologies to look at contaminated sediment to predict human health risk
 - “Pore Water Squeezer” developed at VIMS
 - Sensor technology developed by Sapidyne Instruments
 - Project Aims
 - Conduct on-site PAH measurements of water using a rapid, cost-effective real-time biosensor and test its ability to predict tissue burdens in oysters from PAH-contaminated environments
 - Conduct controlled laboratory dosing of oysters to validate the biosensor as an effective predictor of oyster tissue burdens as a strict function of dose (concentration, time)
 - VIMS Seawater Lab is being used to evaluate sediment remediation techniques and how they alter PAH.

- **Green Ports: Challenges and Opportunities in the Maritime Sector – Heather Wood**
 - The Port of Virginia is the seventh largest port in the United States
 - The port is ISO 14001 & 9000 certified
 - Diesel engine replacement program
 - Cargo handling equipment meets or exceeds EPA emissions requirements
 - From 1995 to 2005, cargo traffic increased 55% while cargo handling emissions decreased 33%
 - Universal chassis pool program

- 1.2M gallons of fuel saved annually, 1,500 tons/year of greenhouse gases, and average turn in the port decreased by 10%
 - Barge service from Norfolk International Terminal to the Port of Richmond
 - 24,000 trucks removed from interstates and local roads
 - Saved \$1.1M in fuel cost; 30-40% reduction in emissions
 - Additional Port of Virginia Environmental Projects
 - Hybrid and Ultra-low emissions locomotives
 - Green Operator “Go” program
 - “Go” Vessels program
 - Creation of storm water management areas created under the wharf detention basin
 - Sponsored the Chesapeake Bay Foundation Oyster Reef (6,000 square meters)
 - Craney Island mitigation plan
 - \$63M project
 - 411 acre river restoration
 - VIMS has been involved on the Planning Committee
- **ITA International Marine Division Update – Mike Melo**
 - ITA International established its Marine Division in 2010
 - Marine Services include:
 - Diving – Underwater ships husbandry, Underwater inspections, Marine construction, and ROV operations
 - Vessel Operations
 - Marine Division has a full dive team; 50’ Dive Vessel; Remotely Operated Vehicle; and Underwater hull cleaning equipment
 - Completed projects include: USACE HQ Boat Pier Inspection, Occoquan Dam liner installation; BAE Shipyards cofferdam installation
 - Started an Engineering Services Division
- **Community Supported Fishery: Comprehensive Business Feasibility Study – Troy Hartley**
 - Study funded through the William & Mary green fees award
 - Feasibility study involved the Virginia Sea Grant Program, VIMS, William & Mary School of Business, and the William & Mary School of Law
 - 600 surveys received on attitudes and perceptions about seafood, sustainability, local fish, wild caught fish and aquaculture
 - Next steps include continuing the analysis of the feasibility study, consulting with the projects advisory group, assessing the local food distribution network, and preparing business plan options.
- **Next meeting – Friday, October 12, 2012 10AM - Noon Room A/B, Watermen’s Hall, VIMS**