VIMS-Industry Partnership Meeting
October 12, 2012
Notes

Attendees: Bob Armstrong (National Center for Collaboration in Medical Modeling and Simulation), Bill Bean (W&M), Vic Chatigny (Ocean Power Technologies), Betty Feet (GM Engineering), Margaret Fonner (VIMS), Carl Friedrich (VIMS), Jim Golden (W&M), Steve Kaattari (VIMS), Jen Kostyniuk (Dominion), Christopher Machut (GM Engineering), Dennis Manos (W&M), Paul Panetta (Applied Research Associates), Neil Rondorf (SAIC), Leonard Sledge (W&M), Greg Stringfield (Consultant), Dennis Taylor (W&M), Mike Unger (VIMS), John Wells (VIMS)

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**
  - VIMS mission is to achieve and maintain a national and international position as a premier coastal marine science institute.
  - FY13 budget is $42.4M; 40% is from state funding and 54% is from grants and contracts.
  - VIMS is the state advisor on natural resources in Virginia. Over 30 sections of the Virginia code require VIMS Advisory Service.
  - A strategic objective of VIMS is to develop partnerships that maximize industry collaboration.
  - Budget reductions and reductions in faculty have resulted in a net loss of research funding.
  - Largest external funder of VIMS is NOAA.
  - National level strategic opportunities for VIMS include:
    - Application of molecular biological tools to address vital questions in ecological, biogeochemical and evolutionary processes.
    - Research initiatives in understanding impacts of sea level-rise and long-term climate change.
    - Expansion of our ability to process large complex data sets and fisheries models through growth of bioinformatics.
    - Advances in modeling and simulation through high performance computing (HPC).
    - Exploitation of ocean observing systems in wide array of marine and environmental sub-fields.
    - Development and application of new tools in environmental toxicology and human health.
  - Economic opportunities from VIMS research include:
    - Aquaculture genetics and breeding technology.
    - Ocean observing system deployments.
    - Algae biofuel research.
    - Chemical bio-sensor development.
    - Autonomous underwater vehicle applications.
    - Storm surge modeling and simulation.

- **SAIC/OCEANS 12 Update – Neil Rondorf**
  - Announced that the U.S. Department of Energy has purchased the Chesapeake light tower.
    - This purchase assists in figuring out what type of instrumentation can be used there and the type of research that can be done there.
    - Research opportunities for the long-term impact of power and telecommunications cables in the ocean.

- **Company Introduction: GM Engineering Services – Christopher Machut**
    - Company has developed a rapidly deployable situational awareness platform as well as underwater cameras
    - www.tugcam.com
    - www.hoistcam.com
    - www.chartercam.com

- **National Center for Collaboration in Medical Modeling and Simulation – Taryn Cuper**
    - Mission is to improve patient care and affordability by advancing the quality of medical modeling and simulation-based training and education available to healthcare students and practitioners through active collaboration with industry, academic, and government partners.
    - Historic and ongoing development efforts include:
        - Augmented standardized patient/virtual pathology stethoscope
        - Wound debridement simulator
        - Health record data mining
        - Virtual immersive portable environment applications
        - Re-purposing of DoD M&S technologies in the healthcare domain
    - Desires to develop a collaborative relationship with VIMS

- **Next meeting – Friday, February 15, 2013 10AM - Noon Room A/B, Watermen's Hall, VIMS**