

NORTHEASTERN (REGIONAL) MARYLAND UNIVERSITY RESEARCH PARK (NEMD-URP)

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Outline



- Purpose of Meeting
- Why develop a North East MD (NEMD) Univ. Res. Park (URP)
- NEMD-URP Overview
- NEMP-URP Goals/Objectives
- Potential Focus Areas
- NEMD-URP Planning Committee
- Interested Colleges/Universities
- Ongoing Efforts
- Relationship to Community STEM efforts
- Next Steps

Purpose of Meeting



- To provide an overview of current NEMD-URP efforts
- To solicit feedback on current efforts/guidance on way forward
- To ensure relevance to Aberdeen Proving Ground's (APG) Education/R&D requirements

For the NEMD-URP to be a key regional/national education and technology resource, it must meet the requirements of industry, government, and academia in the APG community.

Why Develop a University Research Park (URP)

- Leverage business growth/BRAC activities in NEMD
- Support/leverage MD's R&D for benefit APG/NEMD community
- Ensure/support correct mix of higher education degrees
 - ▣ Undergraduate, graduate (Masters, Doctorate , Post Doc) in STEM, Cyber, C4ISR, Chemical/Bio, T&E, other domains
- Foster industry/university/government interaction and collaboration via proximity
 - ▣ Interaction facilitates internships, high technology employment opportunities, collaborative R&D, equipment sharing, etc

Environmental factors support creation of URP in NEMD area.

NEMD-URP Overview

- **Mission – Provide a multidisciplinary environment that strengthens national defense priorities through:**
 - **Advanced degree opportunities**
 - **Research and high technology transfer collaboration**
 - **Critical-skill, top tier, knowledge worker education**
 - **Business/technology incubation (mentoring business)**

- **Vision – A nationally recognized advanced multidisciplinary academic, science and research campus creating technology-led economic growth for the northeastern region of Maryland.**

NEMD-URP Purpose



Create a campus-like environment for developments created by universities or by local government with strong university input.

Initial objectives:

- **University income-generating ventures**
- **Become a regional development focus area**
- **Be a mechanism for the commercialization of university technology through spin-offs in the NEMD region.**

Potential Technology/Skill Focus Areas

C4ISR

- Information Management
- Biotechnology (Bioinformatics)
- Human Language
- Computing Software
- Communications & Networks
- Sensors
- Information Assurance (Cyber)
- Decision Support
- Electronics
- Modeling & Simulation
- Artificial Intelligence

Chemical/Biological

- Biochemistry
- Bioinformatics
- Molecular Biology
- Systems Biology
- Synthetic Chemistry
- Sensors
- Physical Chemistry
- Forensics
- Toxicology
- Quantum Mechanical Modeling & Simulation
- Material Science

Other

- Math
- Medical
- Test/Evaluation

The focus will be on technical disciplines and technology areas critical to APG and other Federal Agency needs.

Related STEM/Education/Technology Efforts

STEM (K-12)

- Army Alliance Gap Analysis
- Harford County Public Schools Working Group Strategic Plan
- NMTC Study/Plan
- HCC efforts

Undergraduate

- HCC efforts
- UMUC at Soldier Center
- Several colleges/universities at HEAT Center
- Bilateral Agreements
 - HCC/Towson,
 - Cecil College/UD
- Education Summit

Graduate

- Several colleges/universities at HEAT Center
- Education Summit
- Six HEAT Partners

Doctoral/PostDoc

- NEMD-URP
- Specialized Masters programs

Several ongoing education efforts will require coordination to ensure max benefit to community.

Ongoing Efforts/Accomplishments



- Developed URP concept
- Obtained status as county's lead for URP (EDAB)
- Developed broad, community based team to implement/plan the URP
- Defined way forward
- Drafted 501 C3 Corporation / Bi-laws
- Solicitation for Study / Whitepaper in process

Interested Colleges/Universities (Initial)



- University of MD – College Park
- Johns Hopkins University
- University of MD Baltimore County (UMBC)
- Morgan State University
- Stevenson University
- Towson University
- *et al.*

MHEC informed all the institutes of higher education in MD of URP project and several indicated interest. Others are expected to be involved in time.

NEMD-URP Planning Committee

- **Mr. John Casner – Executive Director NMTC**
- **Mr. Danny DeMarinis – Director Strategic Initiatives**
- **BG Mike Hayes (USMC Ret) – Managing Director DBED/Office of Military & Federal Affairs**
- **Dr. Jim LaCalle – Harford Office of Economic Development (H-OED)(Former President Harford Community College)**
- **Ms. Marlene Lieb – AVP Continuing Education Harford Community College**
- **Mr. Mike Lombardi – Associate Director C2 Directorate, USA CERDEC**
- **Warren Mullins – VP Battelle (Retired)**
- **Mr. Jim Richardson – Director, H-OED**
- **Ms. Asuntha Chiang-Smith – Executive Director BRAC Sub-Committee (Office of the Lt. Governor)**
- **Ms. Annabelle Sher – Assistant Director DBED**
- **Dr. John Stephenson – BRAC Coordinator and Cyber Security Liasion – MHEC**
- **Ms. Nicole Funk (Mr. R. Truesdell) – Senior VP BAH**
- **Mr John Wasilisin – Exec. VP & COO – TEDCO (Technology Development Corp)**

Next Steps

- **Broaden exposure of NEMD URP concept/efforts to industry, government and academic communities**
 - Incorporate feedback
- **Develop white paper explaining current concept and defining implementation**
 - Define policy considerations
 - Define governance options
 - Identify R&D focus areas
 - Identify stakeholders
 - Define organization's funding requirements
 - Define interfaces
 - Time frames (near, far term)
 - Physical considerations (laboratory, conference facilities)
 - Identify university centers/IACs to transition to NEMD area
 - Identify special DOD educational entities to interface with
- **Implementation IAW white paper and community guidance**
 - County, State, professional associations, etc.