

UMCES 2018-2022: Facilities Master Plan Update



UMCES: Strategic Initiatives Environmental Intelligence

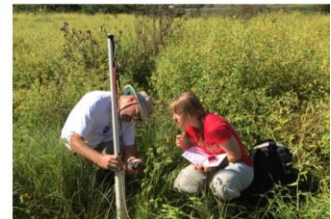
Goal 1: Advance Scientific Innovation

Goal 2: Promote the Transfer, Engagement, and
Communication of Scientific Information

Goal 3: Transform Lives Through Innovative
Educational Experiences

Goal 4: Entrepreneurship In the Environmental Space

Goal 5: Cultivate a Diverse, Inclusive, and Equitable
Scientific Workforce





2017-2018

UMCES Achievements: Environmental Awards for Facilities Management



2018 Governor's Citation

Maryland Office of the Governor

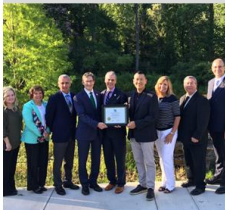
For recognition of the successful efforts of UMCES in energy related initiatives while supporting educational research for the Chesapeake Bay's restoration.



2018 Certificate of Recognition

Maryland Energy Administration (MEA)

For efforts to expand both Energy Efficiency and Promote Renewable Energy



2018 Wintergreen Award

U.S. Green Building Council, MD chapter (MD-USGBC)

For R.V. Truitt Replacement Laboratory, Category: Higher Education building



2018 Green Registry Leadership Award

Maryland Department of Environment (MDE)

For commitment to the implementation of sustainable practices, the demonstration of measurable results, and the continual improvement of environmental performance

2018 Regents Staff Award

Brian Duke, UMCES Facilities Manager

Category of efficiency and effectiveness for energy efficient upgrades in lighting, and first to install high profile reusable water bottle filling stations to reduce the use of plastic water bottles on campus.



Deliberative Process

Planning Principles

1. Research Infrastructure Renewal
2. Flexible Laboratory Space Management
3. Collaboration & Engagement
4. Energy Efficiency & Sustainability
5. Resiliency & Hazard Mitigation
6. *A Better Maryland Principles*



- Master Plan Steering Committee led the effort
- Engaged a consulting firm - MCA Architecture
- Focus groups meetings at each of UMCES 3 laboratory sites



Research: Collaboration, Renewal and Space Needs

Quantitative Analysis:

30% Research Space Deficit
Deficit: (-41,548) NASF Existing 95,452 NASF



61% Collaboration Space Deficit
Deficit: (-5,132) NASF Existing 3,240 NASF

Qualitative Analysis:

Research Space Needing Renovation **50%**
Renewal: 47,726 NASF Existing 95,452 NASF



Needing Major Renovation **34%**
Renewal: (32,454) NASF Existing 95,452 NASF



2012-2018 Key Projects

Truitt Replacement Laboratory



		
1.49 BTU ANNUAL DECREASE	28% REDUCTION TOTAL ENERGY	MD - USGBC BUILDING OF THE YEAR

2MW Solar Field and Solar Carport



		
3,678,409.5 lbs CARBON OFFSET	77,986.5 GALLONS GALLONS OF GAS	1,769.1 TREES TREES SAVED

RV Rachel Carson Bulkhead Rehabilitation



		
RESILIENCE WEATHER EVENTS	RENEWAL SITE INFRASTRUCTURE	EFFICIENCY MARINE OPERATIONS

Morris Marine Laboratory Phased Renovation



		
INTERACTIVE COLLABORATION SPACE	RENEWAL BUILDING INFRASTRUCTURE	EFFICIENCY RESEARCH ACTIVITIES



Planning Principles and Laboratory Plans

- Collaboration, Engagement and Connectivity
- Maximize Flexible Laboratory Space Management
- Research Infrastructure Renewed
- Resiliency, Adaptation & Hazard Mitigation
- Energy Efficiency & Sustainability
- Provide a *Better Maryland*



Future Plans Appalachian Laboratory



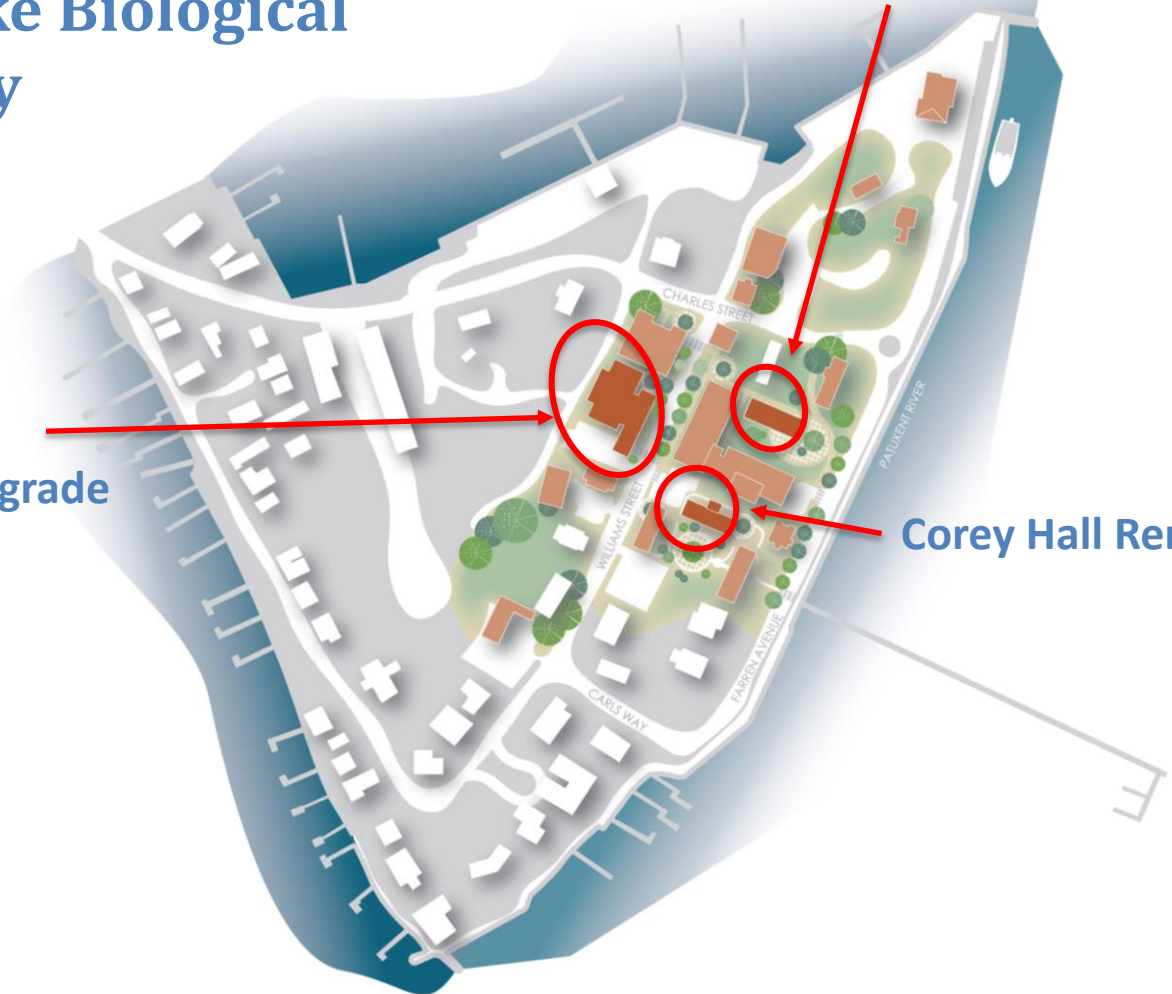
Future Plans

Chesapeake Biological Laboratory

Chesapeake Analytics Collaborative Building

Bernie Fowler
Infrastructure Upgrade

Corey Hall Renovation



Future Plans Horn Point Laboratory



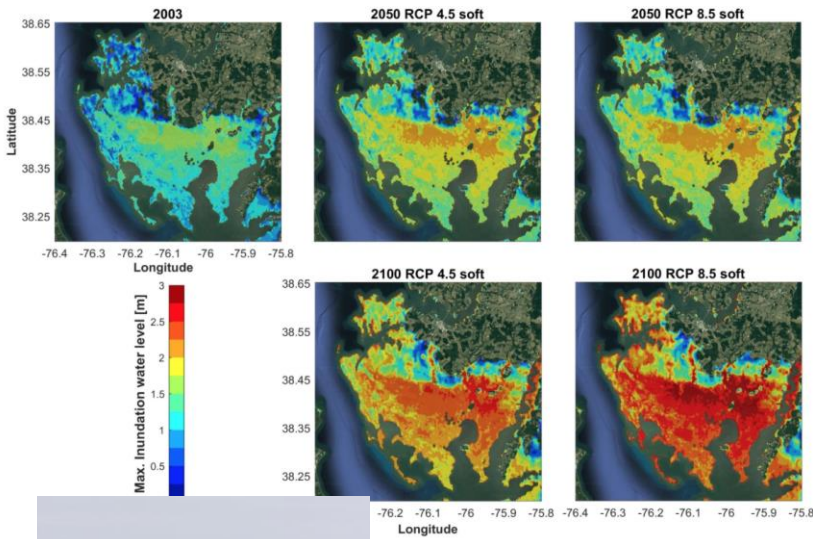
Campus Connectivity & Infrastructure Upgrade

Coastal Sciences Replacement

Morris Marine Phased Renovation



Investing in new research capabilities



UMCES Locations

