

## Goals of DEI's Expansion

**Expand vitally needed shellfish hatchery and production space to meet the full demand for DEI's research, aquaculture production and educational capabilities.**

DEI has had a plan in place to expand our facility since 2009. The first Phase in 2010 added our classroom and learning seawater lab. The Next Generation Foundation generously provided the first \$2 million toward our second Phase in December of 2014. In 2016, we secured the remaining funds needed to begin construction in 2017.



The expansion includes the installation of a mezzanine, and providing additional, secure space for algae production. The spaces currently used for algal production will be available for additional tanks. Electronic controls of temperature, oxygen, salinity and other water quality variables will be part of the expansion, and we plan to modernize

air and seawater systems in the existing facility in 2017.

**Build additional marine research infrastructure to attract U.S. and international marine research scientists seeking the pristine conditions and unique oceanographic features which DEI offers as the easternmost marine research laboratory in the United States.**

Besides increased production space in the hatchery, DEI's expansion will create space to accommodate visiting researchers, and incubator space for entrepreneurs. This addition will include:

- two dry labs and one clean lab for sample processing.
- quarantine labs for work with invasive/exotic species or work with marine pathogens.
- a running seawater ecology lab for behavioral and pre-field-related studies.
- environmental/climate-control rooms to examine effects of global climate change on the behavior of local marine species.
- expanded access to DEI's two existing research mesocosms (tidal impoundments).
- a small visitor center and state-of-the-art conference facility for up to 50 people.
- lodging for visiting scientists and students with capacity for up to 20 people.
- office spaces for staff, UMM faculty and visiting scientists and educators.



Once the facility is developed, we hope to attract up to three additional Senior Scientists for whom DEI will provide space and administrative support. We will also be able to accommodate researchers who need to use our facilities for short term projects.