





Engineering Technology at CFK: Renewable Energy Technician Training

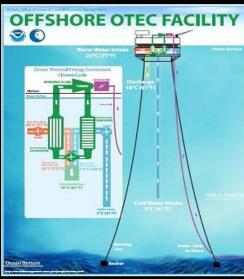
- Solar Power
- Wind Power
- Renewable Energy from the Ocean
 - Oceanic Thermal Energy Conversion (OTEC)
 - Wave Energy
 - Tidal Energy













 Key West is the 12th sunniest in USA (National Climate Data Center, 2004)







Source: U.S. Bureau of Labor and Statistics

Wind Energy

- Key West is the windiest city in Florida (FSU, 2008)
- Wind turbine technician
 - 2nd fastest growing job market in the USA
 - Projected growth of 63% over next 10 years

Combined with a BS in Supervision & Management

Make over \$100 K per yr

College of the Florida Keys targeted occupations, with associated wages and projected growth in Florida.

Occupation	Wage(\$/hr)	Salary (yr)	Growth (%) FL
Hydroelectric Plant Technician	\$26.19	\$54,5470	6
Hydroelectric Production	\$43.65	\$90,790	11
Managers			
Solar Energy Installation	\$29.03	\$60,380	23
Managers			
Solar Energy Systems Engineers	\$44.56	\$92,680	5
Solar Photovoltaic Installers	\$19.04	\$39,600	25
Wind Energy Engineers	_ \$44.56	_\$92,680 _	5
Wind Energy Operations	\$49.78	\$103,503	8
Managers			
Wind Energy Project Managers	\$49.78	\$103,530	8
Wind Turbine Service Technicians	\$24.54	\$51,050	 25

Source: www.economicmodeling.com

Seven Mile Bridge

- Number 27 (NREL, 2016)
- 538 concrete columns on the old bridge
- Has the potential to power all of the Florida Keys













Offshore Hydrokinetic Power

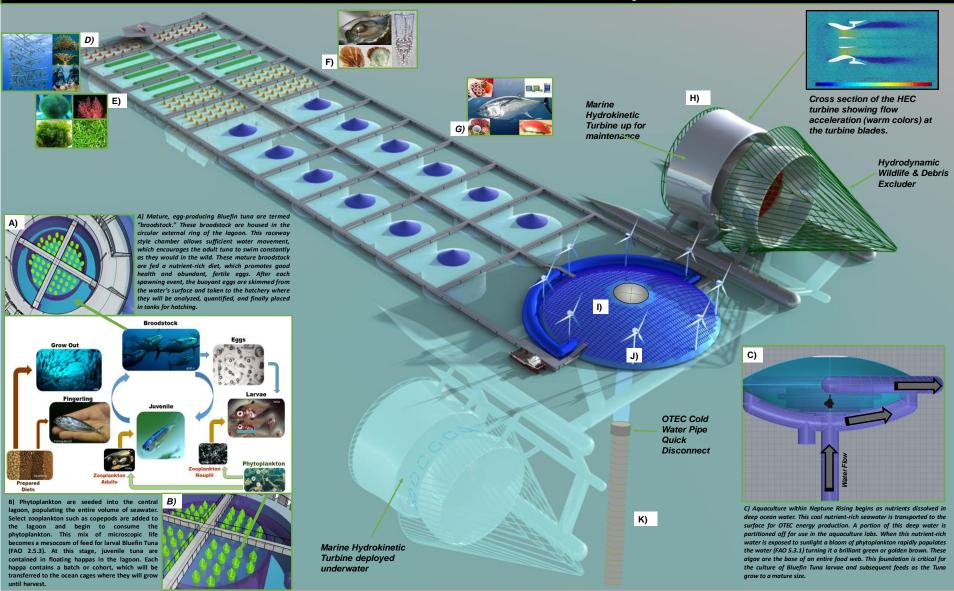


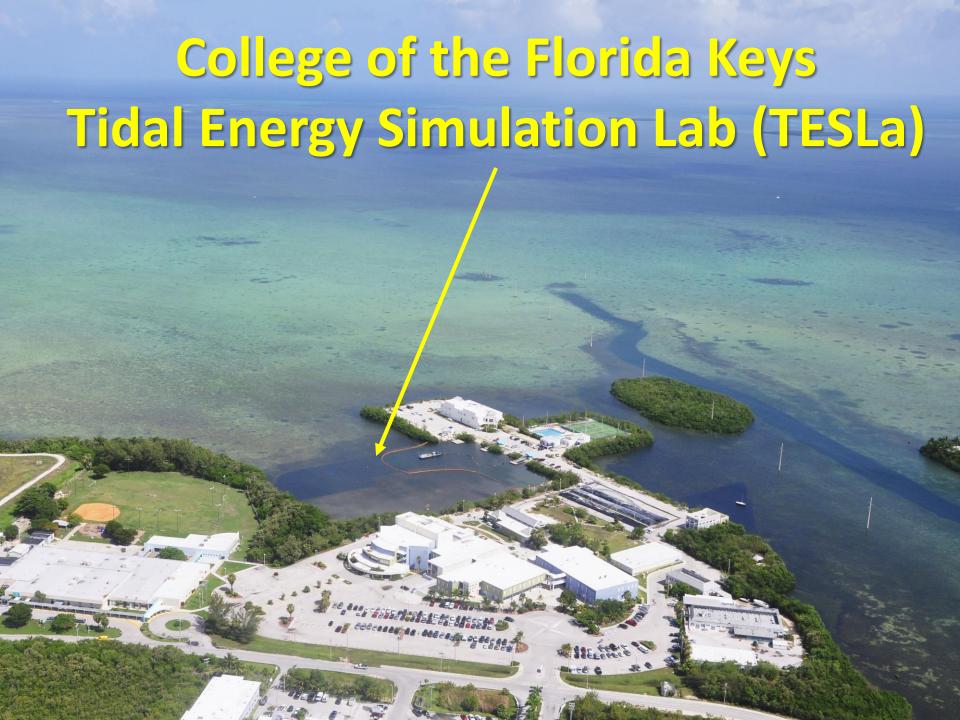
Neptune Rising: A "moonshot" ecofriendly concept for production of sustainable marine resources powered by marine renewable energy

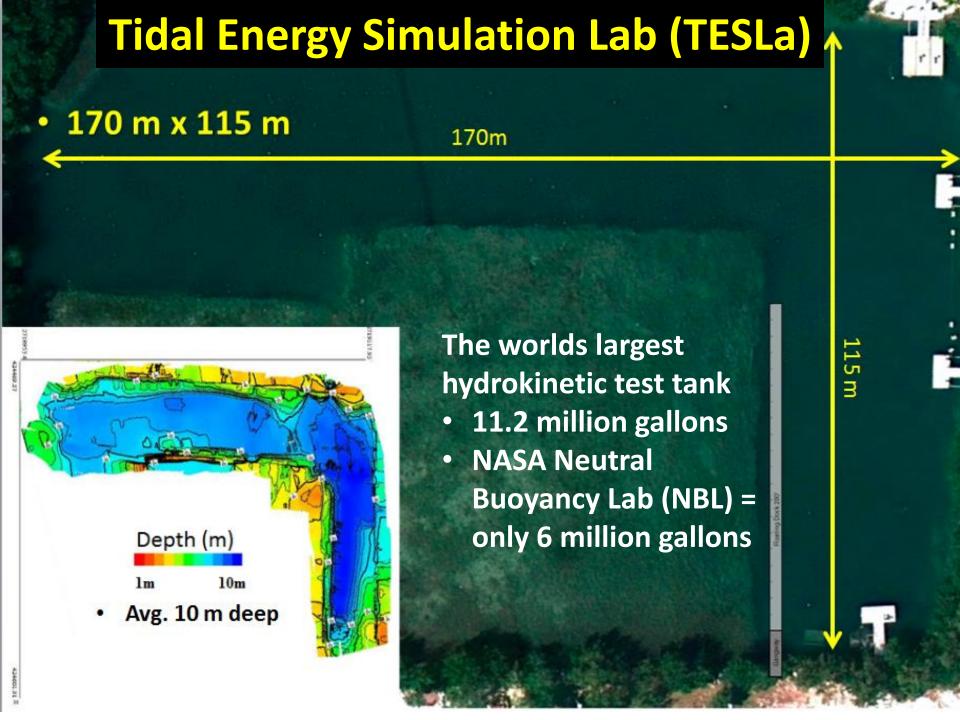
Team: Cody Moore, Travis Knorr, Madeline Ticer, Jessie Appelhans, Sarah Dunlop, Jaqueline Howell, Jason Heath, Heidi Sequeira,

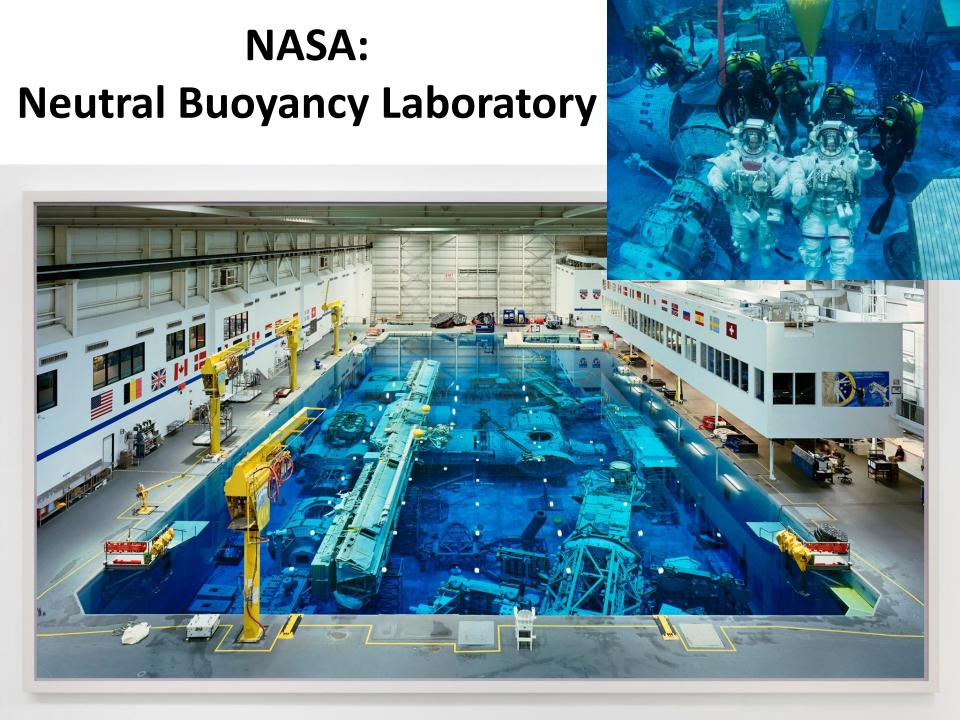
Octavio Franco, and Brian DeSanti

Mentors: Dr. Patrick Rice and Mr. Walterschurtenberger



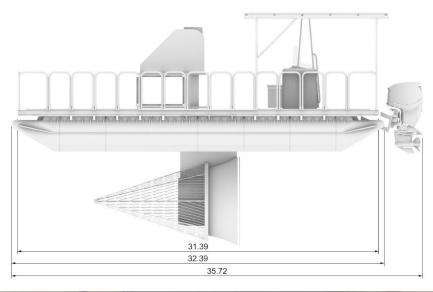


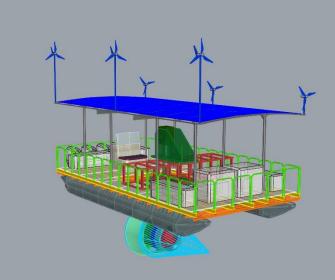




TESLa Vessel









Vision for the Future

- Working with others (e.g. City of Key West, Monroe County, Hydrokinetic Energy Corp, etc.)
- CFK becomes a driving force for advancement of renewable energy for the Florida Keys
- The College trains the workforce for the future
- Florida Keys and City of Key West become a global demonstration on how to live sustainably with the environment
- The idea spreads
- Save the world.....simple!







Questions?

