**Reason For Wave Energy**
The world has a need for renewable energy because our non-renewable resources are depleting. Ocean waves are full of energy and are very abundant. Wave energy also has few environmental consequences. There is little pollution put off by the wing. The water wing does not affect biological organisms of any size or the aesthetics of the beach it is near because it is underwater and far enough offshore.

**Donations**
For donations to the Water Wave Technologies team please contact Khoury Mains at kmains@fit.edu.

Water Wave Technologies purpose is to develop new renewable energy methods. We chose ocean waves and designed a wing to capture the energy from the wave. The captured energy will be used to produce electricity.
The reason for choosing Sebastian Inlet, Fl is that it holds the best swell throughout the year. Our testing is during the summer of 2008 and the wave height averages two feet. We also chose the Sebastian Inlet because of its access to the ocean for transport of our energy wing to its testing location.

In theory the waves are supposed to come in steadily at a great enough size to move the wing a distance that will give off power.

The waves that are going to be passing over the wing are going to be intermediate waves that have a wavelength of approximately 210 ft long, and with a 8 second period.

The energy that is going to be harnessed from the waves is going to be in the form of horizontal motions from the orbital that decay exponentially with depth. This is the main reason that the wing has to be placed in the swell zone in relatively shallow waters outside of the breaking zone.

The model is going to be 10 feet long and 6 feet high. The prototype is going to be built by the testing of several models in the Florida Institute Of Technology water tank. The Wing design chosen for initial tests was decided on after testing 4 different wings.

Project Completion
The prototype is expected to be completed by the end of June and testing will be done end of June until early July.