



In partnership with:



Where:

**Ambergris Caye,
San Pedro Town,
Belize**

When:

**Dec 15 thru 17, 2010
Wednesday-Friday**

COURSE ANNOUNCEMENT

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Mangrove Habitat Creation and Coastal Reforestation *Classroom Education and Field Training Course*

RILEY ENCASED METHODOLOGY™ (Patents Pending)
REM 2010



Anthropogenic influences are rapidly changing coastal regions, sometimes with catastrophic consequences. REM 2010™ has radically transformed the ability to mitigate ecological degradation, improve the robustness of the coastal ecosystem and its ability to absorb human induced stress. The methodology provides sustainable development technology in building coastal resilience and promoting biodiversity. This course is taught in a highly interactive framework facilitating the inter-connection between technology education and practical real-world applications. Participants learn the theoretical justifications for the approach and apply critical concepts in on-site "Field Experiences".

- Historical difficulties in mangrove reforestation.
- Background in the development of REM 2010.
- Fundamental principles of the methodology.
- Significant phases of the development life cycle in the process of invention and innovation.
- Classification of conventional approaches, commonality and comparative analysis.
- REM paradigm vis-à-vis conventional approaches in dispersal for reforestation and erosion control.
- Adaptation processes in non-native environments and aberrant hydrology where natural regeneration cannot occur.
- Appraisal of anthropogenic constraints.
- The fallacy of relying only on natural regeneration for ecosystem recovery.
- "Cargo Cults" in mangrove restoration.
- The components of shoreline dynamics and equilibriums within the littoral zone.
- Quantitative analysis in developing hydrological models for optimizing elevations.**
- Establishing benchmarks and tidal references.
- Applications and case studies in afforestation, habitat creation, and shoreline stabilization.
- Review of thresholds and responses.
- Induced changes in morphology and structure.
- Phototropism/thigmotropism/stereotropism.
- Identifying and evaluating risk and uncertainty.
- WCS site planning and critical design.
- Efficacy, best practices and compliance.
- Quality Control and Quality Assurance procedures.

Information & Registration:



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For more information & registration contact:

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** Prerequisites for understanding the applications of REM quantitative analysis in developing hydrological models requires a working knowledge of trigonometric functions, integral calculus and tidal harmonics; however, mathematical modeling is covered as an optional topic and is not a course requirement.