

# Mokupāpapa Discovery Center



*Third Thursday Lecture Series Presents:*

## Hawaiian Cultural-Based Marine Resource Management

*Using The Hawaiian Lunar Calendar: Ka Loko I'a 'O Hale O Lono*

Loko I'a (traditional Hawaiian fishponds) are a marvel of traditional Hawaiian engineering, they are a testament to the great expanse of knowledge held by Hawaiians and the intimate relationship Hawaiians had with their natural world. Loko I'a had and have the capacity to serve a single family or an entire ahupua'a community when managed appropriately by its caretakers and respected by the members of the community. Fishponds in present time have the potential to serve the communities of today not only as a food source, but also as a model of effective cultural-based marine resource management that can help to sustain our marine resources for generations to come.

This presentation focuses on the management practices utilized at Hale O Lono, a traditional fishpond in Hohononui in the moku 'okana (district) of Hilo, on the Moku O Keawe (island of Hawai'i). It will showcase a Hawaiian Lunar Calendar created by high school kia'i (caretakers) that is used as part of the management practices of the loko i'a. These kia'i are trained as part of their science curriculum to utilize the "science" of their Hawaiian ancestors in the caretaking and monitoring of Hale O Lono. Under the guidance of their kumu and kia'i of Hale O Lono, students monitored the growth cycles of flora and fauna in addition to monitoring water quality at the fishpond. The data was analyzed to identify trends, correlations and significant events. Some of the findings from this year-long study are shared in their lunar calendar produced by the Western Pacific Regional Fishery Management Council.



**Presented By:**

**Roxanne Kapuaimohalaikalani Stewart & Kia'i 'Opio of Hale O Lono**

**Thursday, January 19<sup>th</sup>, 2012**

**6:00 - 7:00 p.m.**

**Mokupāpapa Discovery Center, Hilo**

**FREE EVENT**