

FIBER OPTIC TERMINATIONS DEMO AT RVTEC 2011, LUMCON
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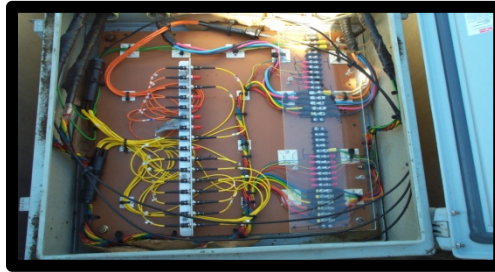


Figure 1: Break out spiders on three cables in a buried system on land for the Marthas Vineyard Coastal Observatory.

1. Background

I've been heavily involved in fiber optics at WHOI since 1990. I've worked on dozens of projects and developed several hybrid cable termination procedures. I was certified as a fiber optic installer in a training course offered by National Technology Transfer Inc.

I have trained many people over the years with a hands on technique to fiber optic terminations including; Raytheon technicians preparing for Antarctica in Punta Arenas, Chile and most recent the Ship board technicians on the UDEL RV Hugh Sharp.

2. Planned Work:

I plan to give a short lecture and demonstrate some of the different fiber optic cables and terminations technicians might come across. Each person (on a first-come basis) will receive a package with a packet on Fiber optic theory, manufacturer drawings for cables used in the oceanographic industry, A WHOI termination procedure for the typical Rochester .688 tow cable seem on most ships. I will supply stock pieces of fiber optic cable from the .688 cable for termination. I will supply a few other cables for a break out session for those interested in the less common cables like those used in cabled observatories and prototype tow sleds.