



# MARINE TECHNOLOGY SOCIETY SAN DIEGO

## AGENDA

### Underwater Cable and Connectors End User Workshop

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**Friday, April 4, 2008**

#### **Tutorial Presenters**

Kevin Hardy, *DeepSea Power & Light* (Moderator)  
Brock Rosenthal, *Ocean Innovations*  
Cal Peters, *Falmat Cable*

#### **Goals**

1. Attendees leave with working knowledge and ability to specify cable and connectors for their applications
2. Attendees learn field tips and experiences

#### **Scope**

Primarily electrical, with some mention of fiber-optic.

#### **Time line**

0700 Set-up (displays, registration, coffee)  
0730 Registration, hand out course notes  
0800-0815 Welcome and overview of tutorial: Kevin Hardy

General Guidelines for end users of underwater connectors and cables

1. Welcome...G&A...Purpose...Scope...Overview of Day

#### Session 1: Underwater Connectors 1

0815-0830 A Brief History of Underwater Cable and Connectors (Brock)  
  
0830-0900 Definition of common terms (Brock)  
  
0900-0920 Applications and Field Requirements  
What's your application? Determining the need. (Kevin)  
Electrical Bulkhead Design (Kevin)  
Electrical Connector Design, molded terminations (Kevin)  
  
1000-1015 Break (coffee, tea, pastries)

#### Session 2: Underwater Connectors 2

1015-1045 Mated Penetrator/Connector (Kevin)  
Reliability and QC  
Selecting a Manufacturer  
Pricing and Delivery  
Interchangeability

Field Maintenance

1045-1145 Survey of Commercially Available Connectors (Brock): Low-end, mid-range and high-end  
Advanced technology in cables and connectors, PBOF, fiber-optic

1145-1200 Summary of morning sessions, Q&A

**Lunch**

1200-1300 Hosted by *SubConn Connectors*

Session 3: Underwater Cables I

1300-1500 Design, custom cables, Part 1 (Cal)  
Electrical Cable Design  
Cable/Connector Bonding

1500-1515 Break (soda, cookies)

Session 4: Underwater Cables II

1515-1615 Design, custom cables, Part 2 (Cal)  
1615-1630 Laboratory testing and in-service simulation

Session 5: Cables and Connectors Summary (Brock and Kevin)

1630-1700 Future  
Tips from the field  
Course Summary and additional resources