

“Safer Alternative Antifouling Paints” Project

Post-Break Session

February 7, 2008

Project Schedule

	Start Date	End Date
Assemble Work Group	01/01/08	03/31/10
Examine Current Coatings/Methods	01/01/08	04/01/08
Examine Alternative Coatings/Methods	01/01/08	05/01/08
Develop Panel Test Protocol	04/01/08	06/01/08
Conduct Panel Tests	06/01/08	10/01/08
Analyze Results / Select Best Coatings	10/01/08	01/01/09
Develop Boat Test Protocols	01/01/09	03/01/09
Conduct Boat Tests	03/01/09	10/01/09
Analyze Results	10/01/09	02/01/10
Prepare Report	12/01/09	03/31/10

Paint Categories

Paint Categories

- ❖ Potential types of paints to include in the study
 - Low Copper Paints
 - Non-Copper Metal based paints
 - Biocides (organic) or other substances
 - Low or Non-toxic Paints
 - Others?

Paint Categories

❖ Low Copper Paints

- Paints containing $< XX\%$ Copper

❖ Non-Copper Metal based paints

- Zinc
- Zinc Pyrithione / Zinc Omadine
- Other metals used as antifoulant agent?

Paint Categories

❖ Biocide Substances

- Containing no metals but may have other potentially toxic antifoulant agents
- Could include organic substances
 - Ecomea
 - Irgerol
 - Others

Paint Categories

❖ Low-Toxic Substances

–Paints that rely on smooth or slick surfaces to deter organisms from fouling

–Do not contain any metals or other potentially highly toxic substances as antifoulant agents

- Ceramic
- Ceramic-Epoxy
- Epoxy
- Modified Fluoropolyurethane
- Silicone
- Silicone-Epoxy
- Waterborne
- Hydroplastic
- Others??

Paint Categories

Discussion Points

1. What criteria should be considered for selecting paint categories?
2. General agreement on any category?
3. Pros/Cons if varying levels of agreement

Vendor Participation

Vendor Participation: Overview

❖ Paint Testing Overview:

- Volunteer boatyards will work with Port, IRTA and vendors to apply coatings
- Baseline coatings and alternative coatings will be applied to panels
- Most promising coatings will be applied to boats
- Will develop protocols for panel and boat testing
- Will evaluate coating characteristics during testing

Vendor Participation: Product Information

- ❖ Types of information on paints that would be useful :
 - Material Safety Data Sheets (MSDS)
 - Product information
 - Up to Date contact information
 - Willingness to provide paint for testing
 - Understanding of how paint is applied/maintained

- ❖ Product information will be evaluated by IRTA in conjunction with suppliers

Vendor Participation: Product Information

- ❖ IRTA will work closely with suppliers to develop procedures for application and testing
- ❖ Suppliers may want to test more than one coating
- ❖ Important application/testing parameters
 - Surface preparation
 - Tie coat or other base coat requirements
 - Application method
 - Thinning requirements
 - Cleaning method and frequency
 - Other test results

Questions?

Upcoming Collaboration

- ❖ Work with coating suppliers to gather information on products
- ❖ Meet with boatyards interested in participating
- ❖ Research on previous studies

Upcoming Meetings

- ❖ March Meeting (3/25 – tentative)
 - Discuss research efforts
 - Complete boatyard visits
 - Finalize coatings list
- ❖ April Meeting (4/15 – tentative)
 - Discuss draft Test Protocol
 - Open comment period on draft protocol
- ❖ May Meeting (TBD)
 - Finalize protocol
 - Prepare for panel testing

Project Contact Information

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