Institute of Marine and Environmental Technology

Russell T. Hill, Ph.D.

Executive Director and Professor











stitute of Marine and Environmental Technology

160,000 ft² 42 research labs 20,000 ft² "wet" facility

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IMET Mission

- Protection and restoration of coastal marine systems
- Sustainable use of marine resources
- Improvements to human health



Challenges of the 21st Century



FOOD

Sustainable Aquaculture and Fisheries

- Studying shellfish and finfish of commercial importance
- Improving Fisheries, seafood, and algal production methods
- Researching reproduction, development, growth, nutrition, immunology, and disease control





FOOD

IMET

Sustainable Aquaculture and Fisheries

• Sustainable recirculating mariculture



🙋 Europharma

The Most Efficient And Reliable Spawning Aid For Cultured Fish Is Returning To The Marketplace.



Europharma is pleased to announce **ReproBoost**, developed by Professor Yonathan Zohar, will soon be returning to the marketplace for commercial use. Combining GnRHa treatment with an advanced sustained delivery technology, **ReproBoost** maintains an effective dosage of GnRHa by using a single treatment.

ReproBoost has proven to be the most effective enhanced reproduction technology in a wide range of finfish including Atlantic and Pacific salmon, in tests conducted in multiple countries in North and South America, Europe, Australia and Southeast Asia.

A single treatment with ReproBoost will :

- Efficiently and reliably induce spawning in single and repetitive spawners.
- Eliminate the need for multiple injections or treatments.
- Increase the percentage of spawning females.
- Synchronize ovulation and spawning.
- Significantly enhance sperm production in males.
- Reliably advance the spawning season.

For further information contact : Europharma Chile • Palermo 2312, Puerto Montt • 56 65 36

Treating PCB-Impacted Sediments with Microbes

- PCB overview
 - Highly toxic industrial pollutants
 - Over 1 million tons have been released worldwide
 - Very stable in the environment
 - Bioaccumulate
 - Require major cleanup efforts



IMET

Drugs from the Sea

CIMM

H2NH2C



HUMAN HEALTH

Liquid Fuels from Marine Microalgae

- Can be grown on land not suitable for agriculture
- Can grow in salt water
- Can accumulate 50% more of biomass as lipid
- Lipid to biodiesel





IMET Summer Internship Program









Harbor Launch Business Incubator

- Office and wet lab space for rent
- Monthly public Entrepreneur Office Hours
- Advice from IMET's Entrepreneur-in-Residence







Ratcliffe Environmental Entrepreneur Fellowship (REEF)

- Weekend intensive courses in entrepreneurship for scientists
- Seed funding for earlystage science startups





