Agenda Item 2

IMET Strategic Plan Briefing
TOPIC: Presentation of the new strategic plan for the Institute of Marine and Environmental Technology -- Dr. Russell Hill, Director and Professor at IMET (information item)

COMMITTEE: Economic Development and Technology Commercialization

DATE OF COMMITTEE MEETING: June 8, 2017

SUMMARY: The Committee will be briefed on the new strategic plan for the Institute of Marine and Environmental Technology (IMET), emphasizing the Institute’s innovation and entrepreneurship programs. These programs include the Ratcliffe Environmental Entrepreneur Fellowship, mentorship resources, the Harbor Launch Incubator @ IMET, and others. Through its programs, IMET has launched several spin-off companies and is creating a vibrant entrepreneurial ecosystem.

ALTERNATIVE(S): This item is for information purposes.

FISCAL IMPACT: This item is for information purposes.

CHANCELLOR’S RECOMMENDATION: This item is for information purposes.

COMMITTEE RECOMMENDATION: [Leave blank]

BOARD ACTION: [Leave blank]

SUBMITTED BY: Tom Sadowski (410) 576-5742 / Suresh Balakrishnan (301) 445-2783
Russell Hill
Entrepreneurship and Economic Development
at the Institute of Marine and Environmental Technology (IMET)
IMET Mission

• protection and restoration of coastal marine systems
• sustainable use of marine resources
• improvement of human health
• Contribute to training and economic development in MD

IMET is a joint University System of Maryland Research Inst:

UMB, UMBC and UMCES

Institute of Marine and Environmental Technology
IMET Research

• Sustainable Aquaculture Production

• Environment, Animal and Human Health

• Energy, Climate Change and Global Health

• Innovation and Entrepreneurship
Ratcliffe Environmental Entrepreneur Fellowship (REEF) Program
Ratcliffe Environmental Entrepreneur Fellowhip (REEF) Program

<table>
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<tr>
<th>Mentors</th>
<th>Instructors</th>
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<tbody>
<tr>
<td>Ted Olsen; CEO of Path Sensors Inc.</td>
<td>Ken Malone; CEO Early Charm Ventures</td>
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<td>Jason Brooke; CEO of Vasoptic Medical LLC</td>
<td>Gianna Arnold; Partner at Saul Ewing</td>
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<tr>
<td>Steve Dubin; Venture Investor</td>
<td>Jennifer Dodson; CEO of Adashmore Creative</td>
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<td>Rachel King; CEO of Glycomimetics</td>
<td>Na Young Ji; Assistant Professor of Psychiatry at Johns Hopkins</td>
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<td>Blake Patterson; CEO of Cerecor</td>
<td>Jamie Lacey-Moreira; Principle at PressCommmPressCommm</td>
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<td>Jay Steinmetz; CEO of Barcoding Inc.</td>
<td>Nick Landau; Partner at Bradley Arant Boul Cummings LLP</td>
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<td>Delali Dzirasa; CEO of Fearless</td>
<td>Stuart Kaplow; Attorney and Principal at Stuart D. Kaplow, P.A.</td>
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<td>Audra Stinchcomb; CEO of Alltranz</td>
<td>Terry Cook; Sr. Associate Vice President for Administrative Services at UMBC</td>
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<td>Kevin Keenahan; CEO of Tissue Analytics, Inc.</td>
<td>Dalton Tong; Senior Lecturer at Johns Hopkins Carey Business School</td>
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<td>Jenny Regan; CEO of Key Tech</td>
<td>Kelli Booth; CFO at Tarsier Optics Inc.</td>
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<td>Kelvin Liu; CEO of Circulomics</td>
<td>Nick Hammond, Associate Vice President at UMCES</td>
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<td>Bill Niland; CEO of Harpoon Medical</td>
<td>David Balcom; Vice President at UMCES</td>
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<tr>
<th>Mentors</th>
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<td>12</td>
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Enrichment Activities: REEF Externships

• Promote hands-on, practical experience with the private sector
• Building on existing relationships
• REEF program internship so far have included:
  • InnoVital Systems (private engineering firm)
  • Food and Drug Administration (FDA)
  • National Institute of Standards and Technology (NIST)
  • Maryland Institute College of Art (MICA)
  • Johns Hopkins Center for a Livable Future (CLF)
  • National Aquarium
  • Resphera Biosciences
  • BREP
Baltimore Entrepreneur Office Hours
Entrepreneur in Residence Program

Providing Mentorship:

• Business plan refinement
• Advice on sources of funding
• Introductions to people and institutions
• Spur new company development

TEDCO
LEADING INNOVATION TO MARKET
Harbor Launch Incubator @ IMET

- Small Business and Legal Advice
- Networking Activities
- Access to University Core Facility
- 24 hour Security and Card Access
- 24 hour Onsite Gym Access
- Meeting Room Availability
- IT and Communications Services
- Public Transportation Access
1st Company, Manta Biofuel
Ratcliffe Funding

Name -- Harbor Launch

Lindsay (Manager)

Steve Davey (EIR)

“Went Public”
Wet Labs

Fall 2015

Summer 2015

Winter '16
Phase II
PROMOTE

IMET’s Harbor Launch incubator offers sweeping views, serious science
Affiliate Program

Intramont

Phaocure

Pataigin

LINKSciences

NDBbio

Novel Microdevices

BDP (affiliate)

Phase III

HOLD ON!

1st Graduate

Apr

Mar

Jan '17

Oct 2016

Sep 2016

Aug 2016

Jun 2016
IMET Spin-off Companies

• REEF Program:
  • Manta Biofuels LLC. Ryan Powell. 10 employees
  • Bright Bio LLC. Saddef Haq.
  • Blue Bloods LLC. Mary Larkin.
  • SeaMuse LLC. Sara Rowland.

• Faculty Companies:
  • VakSea. Dr. Vik Vakharia
  • AlgaBT. Dr. Yantao Li
  • RemBac. Dr. Kevin Sowers
IMET Ecosystem Companies

- Bright Bio
- AlgaBT
11th IMBC 2016
International Marine Biotechnology Conference
“Health, Wealth, and Innovation”

August 29 – September 2, 2016
Baltimore, MD, USA

More information can be found at www.theimba.org
Ninth Symposium on Harmful Algae in the U.S.
Training the Next Generation

Baltimore, Maryland
November 11-18, 2017
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