

### Agenda Item 2

# IMET Strategic Plan Briefing





#### SUMMARY OF ITEM FOR ACTION INFORMATION OR DISCUSSION

**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:	DATE:	
BOARD ACTION:	DATE:	
SUBMITTED BY: Tom Sadowski (410) 576-5742 / Suresh Balakrishnan (301) 445-2783		



#### **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** 



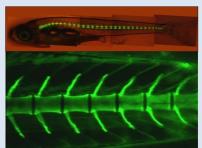


#### **IMET Research**

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 Fellowship (REEF) Program

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

	<u>Mentors</u>	<u>Instructors</u>	<u>Students</u>	<u>Total</u>	% of Total
Male	23	6	8	37	66%
Female	4	6	9	19	34%
Minority	8	7	12	27	48%
<b>Total Participants</b>	27	12	17	56	

#### **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











#### **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







## Phase I BUILD

HARBOI

"Went Public"

**Wet Labs** 

Steve Davey (EIR)

Winter '16



Lindsay (Manager)

Fall 2015

1st Company, Manta Biofuel
Ratcliffe Funding

**Summer 2015** 

# Phase II PROMOTE



Mar. 10, 2016 9:20 am

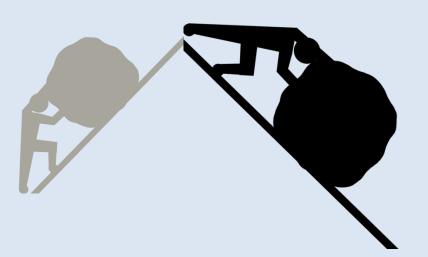
# IMET's Harbor Launch incubator offers sweeping views, serious science





# Phase III HOLD ON!

1<sup>st</sup> Graduate Apr



IntraMont Jan '17

Pataigin LINKSciences

Oct 2016

**NDBbio** 

Sep 2016

Novel Microdevices
BDP (affiliate)

Aug 2016

**Affiliate Program** 

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**







**PATHSENS** 

- **Bright Bio**
- AlgaBT















IntraMont Technologies, Inc.







#### **LMRCSC-IMET Summer Interns**



### 11th IMBC 2016

International Marine Biotechnology Conference "Health, Wealth, and Innovation"





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