



Wednesday, February 1, 2023
10:00 AM - 12:00 PM
World Trade Center Baltimore
17th floor, Room 1746
401 East Pratt St, Baltimore, MD, 21202
Meeting Minutes

Welcome and Introductions

Dr. Perman gave opening remarks and reviewed the ground rules of the meeting. He called the meeting to order and carried out a roll call to confirm attendance. He welcomed and invited new board member Dr. Michael Weingarten, and Matthew Cimino, new Business and Innovation Development Manager at the Office of Life Sciences in the Department of Commerce, to introduce themselves.

Board Members in Attendance

1. Jay Perman, MD – Chancellor University System Maryland [Chair]
2. Trushar Agrawal – Senior Director, Head of Manufacturing, Kite Pharma
3. Richard A. Bendis – President and CEO, BioHealth Innovation, Inc.
4. Jesse Christopher – CEO and Co-founder, Longevity
5. Rebecca Fisher, PhD – Deputy Director, Congressionally Directed Medical Research Programs, U.S. Army Medical Research and Development Command
6. Edward Margerrison, PhD – Director, Office of Science and Engineering Laboratories, Center for Devices and Radiological Health, U.S. Food and Drug Administration
7. Mark Mortenson, JD – Chief Scientific Officer, Clene Nanomedicine
8. Sanjay Rai, PhD – Senior Vice President, Academic Affairs, Montgomery College
9. Deborah Ricker, PhD – Provost and Vice President for Academic Affairs, Hood College
10. KaShauna Rohlehr – Director, Strategy and Business Transformation, GlaxoSmithKline
11. Arti Santhanam, PhD – TEDCO (Ex Officio)
12. Bob Storey – Principal, The MVR Company, Managing Director, Launchport [Vice Chair]
13. Michael Weingarten, PhD - NCI, NIH
14. Ellington West – CEO and Co-founder, Sonavi Labs
15. Christy Wyskiel – Senior Advisor to the President and Executive Director Johns Hopkins Technology Ventures, Johns Hopkins University

Department of Commerce Attendees

1. Kevin Anderson – Secretary
2. Matthew Cimino, PhD - Manager, Business and Innovation Development, Life Sciences
3. Ulyana Desiderio, PhD – Director, Life Sciences
4. Heather Gramm – Assistant Secretary, Business & Industry Sector Development
5. Kim Mentzell – Director, Cybersecurity and Aerospace
6. Stefanie Trop, PhD – Senior Manager, Business Development, Life Sciences
7. Patrick Wynn – Senior Director, Strategic Industries & Entrepreneurship

General Public Attendees

1. Matt Hooke – Reporter, Baltimore Business Journal
2. Jim Hughes – Chief Enterprise and Economic Development Officer, Senior Vice President, University of Maryland Baltimore
3. Troy LeMaile-Stovall – CEO, TEDCO
4. Michele Masucci, PhD – Vice Chancellor for Research and Economic Development, University System of Maryland
5. Helen Montag – Senior Director for Ecosystem Development, Johns Hopkins University
6. Tom Sadowski – Executive Director, Maryland Economic Development Corporation
7. Kelly Schulz – CEO, Maryland Technology Council

Dr. Perman reminded everyone about the Board charge to maintain Maryland's preeminence in the life sciences industry and reviewed the meeting's agenda.

Review and Acceptance of September 14, 2022 Meeting Minutes

Dr. Perman asked for feedback on the minutes of the September 14, 2022 LSAB meeting. Hearing none, he asked for a motion to approve the minutes, which was made by Mr. Mortenson and seconded by Dr. Margerrison. The meeting minutes were approved.

Maryland Competitiveness Study and Proposed Equitech Growth Fund

Mr. Stovall presented a proposed \$500M Equitech Growth Fund to increase Maryland's competitiveness as an innovation economy in an equitable manner, to be overseen by TEDCO. The proposed bill establishing the fund followed as the result of the Maryland Innovation Competitiveness study sponsored by TEDCO. Mr. Stovall sought support for the legislation of the ecosystem and organizations represented on the LSAB. There was strong support by several co-sponsors following a discussion on the structure of funding that is expected to be skewed towards earlier stages of innovation. The initial legislation was broad, with more specifics to be defined at a later time.

University of Maryland Biopark, 4MLK and Institute for Health Computing

Mr. Hughes provided updates on development projects at the University of Maryland BioPark at 4MLK in Baltimore, and the Institute for Health Computing in North Bethesda. The BioPark expansion broke ground in October 2022 towards an anticipated opening in September 2024, adding 250k square feet of lab, office and conference space to the campus. The Institute for Health Computing project in North Bethesda was conceived by Montgomery County Executive Elrich to create more urban-like density. A major goal of the Institute is to mine patient data for insights into population health, for example, to determine how to treat diabetes at scale. The project team is collaborating closely with the I-270 corridor companies, federal facilities and research labs and University of Maryland, Baltimore and UM College Park. The Institute is expected to be operational in Summer 2023, with staff hiring underway. Dr. Margerrison stated the project will be a major catalyst based on his experiences with machine learning in medical devices.

Johns Hopkins Technology Ventures (JHTV)

Ms. Wyskiel gave an overview of JHTV's history and priorities. Since JHTV's founding in 2014, its portfolio companies have received over \$3B equity investment, and 38 startups have exited. When a lab-based company is ready to graduate from JHU incubator space, 39% currently stay in Baltimore and 50% stay in Maryland, compared to only 15% prior to the founding of JHTV. Much attrition is

due to the lack of available lab space in Baltimore. JHTV's spinouts are well known in cancer diagnostics, including startups Thrive, Personal Genome Diagnostics, Delfi Diagnostics, and Haystack Oncology.

JHTV's current priorities are improving the commercialization of technology and Ms. Wyskiel sought input on ideas for programming and collaboration. JHU leadership visited Philadelphia and Pittsburgh to learn about their ecosystem building strategies and shared that it is critical to have collaboration between corporate partners, commercial real estate, and the FDA. Discussion followed on existing assets and opportunities for growth. Assistant Secretary Heather Gramm mentioned that the Governor is aware of these needs and there will be new funding through Commerce for investment in building infrastructure.

General Discussion

MedTech Initiatives:

Mr. Storey and Dr. Desiderio updated on the upcoming MedTech Innovator (MTI) Road Tour happening in Baltimore March 28-30. MTI is the largest medtech accelerator in the world and its portfolio companies have been very successful in receiving follow-on capital. The three-day event coming to Baltimore is a point of pride, as it is the largest, longest event and the only East Coast location for 2023. LSAB members were invited to participate by judging and attending public portions of the event. Mr. Storey also updated on the Blueprint MedTech initiative, which received 200 applications that were being reviewed by both the JHU/Howard University hub and CINTA/Boston.

Workforce:

Mr. Mortenson sought ideas on how to better acquaint the workforce with the life sciences ecosystem, considering the evolving attitudes of younger generations towards higher education. The board discussed the need to improve messaging and accessibility of the higher education system, deploy larger career-focused initiatives, and training programs like Betamore Academy.

Funding opportunities:

Dr. Fisher introduced CDMRP funding opportunities and offered to present in more detail at a future meeting. Mr. Bendis shared information on two programs: 1) NIH Office of Extramural Research SEED - Discretionary Technical and Business Assistance (TABA) program for SBIR Phase II recipients, which can be used to contract with vendors and consultants to support commercialization activities; and 2) Montgomery County Executive in Residence program, a collaboration between the county and BioHealth Innovation, to provide executive support to startups.

Center for Medical Innovation in Mixed Reality:

Dr. Margerrison mentioned that the new National Science Foundation-funded Center for Medical Innovation in Mixed Reality (MIXR), based at the University of Maryland College Park, had its kick off meeting last week and is now open for corporate memberships.

Ms. Rohlehr asked how large companies can help with the above initiatives. The board suggested a broader discussion on that topic in the context of workforce development at a later meeting. Mr.

Bendis shared that some larger companies with excess space may be willing to help incubate growing companies, and offered to gather more information for the next meeting.

Closing Remarks

Dr. Perman thanked everyone for attending and participating in the meeting. Members wishing to submit items for the next meeting's agenda should contact Dr. Desiderio. Dr. Perman adjourned the meeting at 11:45 a.m.