TECHNOLOGY DEVELOPMENT

TECH TRANSFER
www.umbc.edu/otd

›› CULTIVATE INDUSTRY – FACULTY INTERACTIONS
›› FACILITATE THE LICENSING OF TECHNOLOGY
›› SECURE AND MANAGE INTELLECTUAL PROPERTY
›› SUPPORT AND ENCOURAGE ENTREPRENEURIAL ACTIVITIES

MISSION: The University of Maryland, Baltimore County (UMBC) Office of Technology Development (OTD) is responsible for commercializing new technologies developed as a result of UMBC's research activity so the fruits of that research in the form of new products and services can be made available to the general public. The University has over 170 active inventions and more than 60 issued patents.

UMBC TECHNOLOGY AT WORK

3D Real-time Digital Puppet
Kaltoons, LLC
Daniel Bailey, Imaging Research Center
Kevin Kallaugher, Artist in Residence

Bullet High Performance Drill Bit
Black & Decker
M. Appa Anjanappa, Mechanical Engineering

BioGMP-GMP Training for Biotechnology
Antonio R. Moreira, Chemical and Biochemical Engineering
SPI USA, Inc.

Cellstation™
Fluorometrix Corporation
Govind Rao, Chemical and Biochemical Engineering

OnePump™
Scientific Products & Systems, Inc.
M. Appa Anjanappa, Mechanical Engineering

StepMetrix™ *(pictured to the right)*
BouMatic
Uri Tasch, Mechanical Engineering

The "Master Preparation" Chess Video Series
The World Wide Web Chess Superstore
Alan T. Sherman, Computer Science

START-UP ACTIVITY

Aurora Analytics, LLC is the first technology start-up company for UMBC in which the University has played a major role in formation. Aurora is housed at techcenter@UMBC, UMBC's on-campus tech incubator. The company has exclusively licensed the US Patent Application entitled *Amine Detection Method and Materials* from UMBC. There have been previous startup companies that depended on licenses from UMBC for their core technologies, but Aurora is the first in a pipeline of companies in which the University is playing a hands-on role. The company aims to be the first to provide a low cost, easy, non-enzymatic, on-site test for the presence of amines in food products as an effective indicator of food freshness (the Freshdicator Diagnostic Kit). Aurora was founded by Dr. Aristotle G. Kalivretenos, Chief Operating Officer and inventor of the amine detection technology; Dr. William R. LaCourse, Professor of Chemistry at UMBC and Chief Executive Officer; and Columbia Technologies in collaboration with UMBC.

THE INTELLIGENT PLACE TO ACCELERATE YOUR BUSINESS

TECHNOLOGY DEVELOPMENT

TECH TRANSFER
www.umbc.edu/otd

ABOUT UMBC
Higher education is a catalyst for economic development in a knowledge economy. UMBC has cultivated a highly successful model for developing partnerships in economic development. Our entrepreneurial approach has helped to make us an incubator for new business, a source for continuing professional education and training, and a springboard for student talent. We are in the business of education, and we are eager to meet our responsibility to help build the economy.

UMBC RESEARCH
Research is a critical component of UMBC's mission linking education and public service. UMBC is a world-class research institution with approximately $60 million in annual research expenditures spanning a variety of disciplines. UMBC has placed an emphasis on interdisciplinary approaches to research and has established over 25 research centers to support this effort, including centers focused on earth science, environmental science, photonics, sensor technology and public policy. UMBC continues to involve students in its research at both the graduate and undergraduate levels. UMBC has experienced significant growth in its research by more than doubling its research expenditures since 2000.

www.umbc.edu/research

SELECTED AREAS OF RESEARCH
Biochemical and Bioprocess Engineering

Medical Therapeutics

Computer/Human Interaction

Data Mining and Bioinformatics

Digital Imaging and Image Analysis

Photonics and Communications

SELECTED RESEARCH CENTERS
Center for Health Program Development and Management

Center for Advanced Study of Photonics Research

Center for Women and Information Technology

Goddard Earth Science and Technology (GEST) Center

Howard Hughes Medical Institute at UMBC

Imaging Research Center

Joint Center for Astrophysics

Joint Center for Earth Systems Technology (JCET)

Maryland Institute for Policy Analysis and Research

TRAINING WOMEN ENTREPRENEURS

ACTiVATE

UMBC developed the ACTiVATE (Achieving the Commercialization of Technology in Ventures through Applied Training for Entrepreneurs) Program to address a growing need in Maryland for more technology entrepreneurs who are skilled at commercializing technologies from research institutions. Supported by a three-year, $712K grant from the National Science Foundation (NSF), the ACTiVATE Program addresses this need by recruiting, training, and supporting mid-career women who are serious about becoming technology entrepreneurs. The yearlong program utilizes an applied model for entrepreneurship training with a goal of forming technology-based companies at the conclusion of the program. The Program has a direct impact on improving technology transfer and regional economic development.

More information about the ACTiVATE Program is available at www.umbc.edu/activate.

CONTACT INFORMATION
Stephen Auvil, Director
auvil@umbc.edu or 410-455-3481

Wendy Martin, Manager
wmartin@umbc.edu or 410-455-3658

Jeanne Stockwell, Coordinator
stockwel@umbc.edu or 410-455-1414

Office of Tehnology Development
5523 Research Park Drive, Suite 310
Baltimore, MD 21227

THE INTELLIGENT PLACE TO ACCELERATE YOUR BUSINESS