Agendum
Oakland University
Board of Trustees Formal Session
April 11, 2016

ACCEPTANCE OF GRANTS AND CONTRACTS TO OAKLAND UNIVERSITY FOR THE PERIOD OF JANUARY 1 – FEBRUARY 29, 2016
A Recommendation

1. **Division and Department:** Academic Affairs/Office of Research Administration

2. **Introduction:** Oakland University contributes to our national agenda as a contributor to the nation's scientific and technological progress, both through the generation of new knowledge and ideas and the education and training of its students. Grants and contracts awarded to Oakland University play a critical role in the advancement of new research findings, and current research trends gives emphasis to inter-disciplinary, technology-driven, and product-oriented team efforts.

The Board of Trustees (Board) has authorized the President, or his or her designee, to receive and acknowledge grants and contracts to the University, but such grants and contracts must be reported to the Board not less often than quarterly for acceptance on behalf of the University.

At this time, we request that the Board accept the grants and contracts reported on the attached Grants and Contracts Report, Attachment A, for the period of January 1 through February 29, 2016.

3. **Previous Board Action:** The Board accepts grants and contracts to Oakland University on a regular basis at its Formal Sessions.

4. **Budget Implications:** Grants and contracts contribute to the University through the recovery of direct and indirect expense incurred in support of research projects.

5. **Educational Implications:** Grants and contracts enhance the training and education of students.

6. **Personnel Implications:** Grants and contracts awards may provide salary support for faculty, post-doctoral fellows, undergraduate and graduate students, technicians, lab managers, and other personnel, as required by the funded research project or program.

7. **University Reviews/Approvals:** All grants and contracts are reviewed by the Office of Research Administration prior to submission to the Board to ensure compliance with federal and state laws and regulations and University policies and procedures, when applicable, and with assistance from the Office of Legal Affairs when requested.

8. **Recommendation:** RESOLVED, that the Board of Trustees accept grants and contracts to Oakland University identified in the attached Grants and Contracts Report, Attachment A, for the period of January 1 – February 29, 2016.

9. **Attachments:** A. Grants and Contracts Report.

Submitted to the President
on 3/31, 2016 by

James Lentini

James P. Lentini, D.M.A.
Senior Vice President for
Academic Affairs and Provost

Recommended on 4/6, 2016
to the Board for approval by

George W. Hynd
President

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Amy Butler OU INC	Automation Alley MEDC	**BI2013-Troy, Rochester Hills, Oakland**. Oakland University, OU INC and Automation Alley are collaborating on providing enhanced business accelerator/incubator efforts to Oakland County and Southeast Michigan regional businesses focused on medical device and international business growth.	$ 33,001	$ 330,000
Bradley Roth Department of Physics	Henry Ford Health System	**Graduate Student Support for Medical Physics Research at Henry Ford Hospital.** The objective of this funding is to support Biomedical Sciences. This support allows many of our best and brightest graduate students to work in the world-class laboratory of Distinguished Professor Michael Chopp and his colleagues, many of whom are adjunct faculty in the Department of Physics.	$ 25,270	$ 322,785
Amy Butler OU INC	Grand Valley State University/MEDC	**Business Accelerator Fund Client Engagement-Skypersonic.** The objective for this project is to make accelerator services available statewide, make services available to high priority companies in regions, share accelerator best practices statewide, build lasting collaborations, and create jobs to catalyze multiplier effect.	$ 13,500	$ 291,009
Gopalan Srinivasan Department of Physics	Virginia Polytechnic Institute and State University/DARPA	**A MATRIX Solution to Solid State Devices for Scalable, Integratable, and Efficient Signal and Power DARPA.** This research is aimed at ferromagnetic and ferroelectric composite-based devices for high frequency electronics.	$ 40,000	$ 240,000

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Kenneth Mitton Eye Research Institute	National Institutes of Health	**VEGF'S Longitudinal Effect on Retina and Retinal Vasculature in VIVO.** There is speculation that VEGFA-165b might be useful to counteract the neovascular growth effect of VEGFA-165 in diabetic retinopathy and AMD. However, we hypothesize that the b-isoform still causes disruption of the blood retinal barrier and inflammatory response. This project will test this hypothesis and test if these two isoforms activate cell-signaling differently.	$ 448,500	$ 448,500
Randal Westrick Department of Biological Sciences	American Heart Association	**Identification and Validation of Thrombosis Modifier Genes Discovered through Whole Genome ENU Mutagenesis.** MfvL2-12 will be sequenced and modifier genes identified through Bioinformatics and re-sequencing. Actr2 will be validated as the MFvL1 suppressor and the Actr2 mutant mice will be characterized.	$ 77,000	$ 231,000
Amy Butler OU INC	Grand Valley State University/MEDC	**Business Accelerator Fund Client Engagement-Berylline.** The objective for this project is to make accelerator services available statewide, make services available to high priority companies in regions, share accelerator best practices statewide, build lasting collaborations, and create jobs to catalyze multiplier effect.	$ 17,500	$ 308,509
Sergey Golovaschenko Department of Mechanical Engineering	Fiat Chrysler Automobiles	**CLIC Form.** This funding will provide support for CLIC Form educational and research programs on sheet metal forming and will include special instruction by invited lecturers.	$ 110,264	$ 110,264

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Jennifer Lucarelli Department of Health Sciences	Centers for Disease Control and Prevention	**Health Pontiac, We Can! Eliminating Health Disparities in a Low-Income Urban Minority Community.** This grant will support health-promotion activities in Pontiac, targeted towards improving minority health and reducing health disparities.	$ 650,748	$ 1,301,496
Xiangqun Zeng Department of Chemistry	Michigan State University/NIH	**Wearable Microsystem Array for Acute Multi-Pollutant Exposure Assessment.** This research seeks to develop a new tool for assessment of acute exposure to airborne pollutants that would provide unique capability for researchers to study the toxicity of pollutants and model the relationship between exposure and respiratory/cardiovascular health in an acute manner.	$ 241,176	$ 1,138,014
Jessica Korneder Department of Human Development and Child Study	State of Michigan/ Department of Health and Human Services	**Development and Expansion of ABA Professionals and Employment Opportunities for Individuals with ASD.** This funding will increase the number of students seeking M.Ed. in ABA, Board Certified Assistant Behavior Analysts, Registered Behavior Technicians, children receiving services in the medicaid system and employment of adults with ASD.	$ 380,000	$ 380,000
Alex Delavan Office of Research Administration	University of Michigan/MEDC	**T3N 3.0.** A high-priority goal for Oakland University is to leverage the expertise of faculty and students with success in technology commercialization. To that end, the university will hire the services of a mentor-in-residence (MIR) in collaboration with the Michigan T3N fund organization, to help active researchers who are interested in pursuing commercialization and other business paths.	$ 25,000	$ 25,000

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Michael Sevilla Department of Chemistry	National Institutes of Health	**Mechanisms of Radiation Damage to DNA: LET Effects.** The goal of this project is to study free radical mechanisms of radiation damage to DNA.	$ 203,672	$ 1,284,338
Randal Westrick Department of Biological Sciences	ANIARA	**Thrombosuppressive Mechanisms of an ARP2 Mutant Discovered through an ENU Mutagenesis Screen.** Through this research, we will seek to functionally characterize an ARP2 thrombosis suppressor mutation that we previously identified through an ENU mutagenesis screen.	$ 10,000	$ 10,000
Jennifer Lucarelli School of Health Sciences	U.S. Soccer Federation Foundation	**Pontiac Summer Youth Soccer Program.** This grant will provide support for the Pontiac Summer Youth Soccer program in 2016. This program provides opportunities for local youth to participate in drop-in soccer lessons and game play during the summer months in conjuction with the Meet Up & Eat Up summer meals program in Pontiac, Michigan.	$ 8,500	$ 8,500
Dae-Kyoo Kim Department of Computer Science and Engineering	Magna Electronics	**Development of Supporting Tools for the Driver Assistance System of Autonomous Vehicles.** Oakland University and Magna Electronics Inc. will collaborate to develop supporting tools for the driver assistance system in Magna Electronics.	$ 143,819	$ 143,819
Laura Dinsmoor Department of Computer Science and Engineering	Stevens Institute of Technology	**Committee for Recruiting and Retention of Women in Computer Science.** This committee will work with the NCWIT consultant to develop and implement plans to increase the percentage of women and retain them as students in the Department of Computer Science and Engineering.	$ 8,000	$ 8,000
		Total	**$ 2,435,950**	**$ 6,581,234**

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Correction to October 22, 2015 Grants and Contracts Report, Attachment A				
Frank Giblin Eye Research Institute	National Institutes of Health	**Proteins of Normal and Cataractous Lenses.** The broad objective of this project is to better understand the role of oxidative stress in the development of human nuclear cataract, the most common type of lens opacity in older adults, and the type most likely to require surgery.	$ 372,948	$ 1,485,196