

Agendum
Oakland University
Board of Trustees Formal Session
July 1, 2014

ACCEPTANCE OF GRANTS AND CONTRACTS TO OAKLAND UNIVERSITY
FOR THE PERIOD OF MARCH 1 - APRIL 30, 2014
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 March 1 through April 30, 2014.

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.

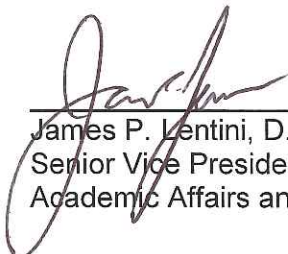
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7. **University Reviews/Approvals:** All grants and contracts are reviewed by the Office of Research Administration prior to submission to the Board to ensure compliance with federal and state laws and regulations and University policies and procedures, 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 March 1 through April 30, 2014.

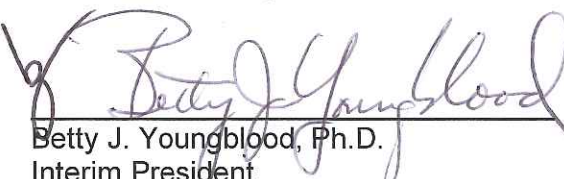
9. **Attachments:** A. Grants and Contracts Report.

Submitted to the President
on 6/25/, 2014 by



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

Recommended on June 25, 2014
to the Board for approval by



Betty J. Youngblood, Ph.D.
Interim President

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Dorothy Nelson Research Administration	Michigan Economic Development Corporation	Tech Transfer Talent Network Fellowship. Funding is proposed to support a technology transfer fellow in the Office of Research Administration. The fellow is a patent attorney and faculty in the School of Engineering and Computer Science.	\$ 13,568	\$ 48,803
Reginald McCloud Pre-College Programs	State of Michigan Department of Education	Gaining Early Awareness and Readiness for Undergraduate Programs (GEAR UP). This funding will provide academic and social support for students currently in the eighth grade with support continuing through their first year of college.	\$ 87,322	\$ 87,322
Gopalan Srinivasan Department of Physics	Winchester Technologies / DARPA	Multiferroic Materials for FR Applications. This project is on the development of tunable microwave devices with the use of smart materials that respond to electric and magnetic fields.	\$ 35,000	\$ 35,000
Lorenzo Smith Department of Mechanical Engineering	Ford Motor Company	Design Tool for Electrohydraulic Forming Technology Material Model. The goal is to develop a design tool for EHF technology based upon numerical modeling.	\$ 100,000	\$ 1,371,087
Andrei Slavin Department of Physics	University of Nebraska	Center for Nanoferroic Devices. Theory of dipole-exchange spin waves in ferromagnetic films with surface magnetoelectric effect will be developed.	\$ 80,000	\$ 380,000
Zissimos Mourelatos Department of Mechanical Engineering	University of Michigan	Restraint System Optimization with Finite Element Models: Simulation and Calibration-Based Validation using Physical Testing. The goal of this project is to develop a hybrid optimization process using gradient-free and gradient-based algorithms to efficiently explore the entire design space using validated predictions from a small number of tests.	\$ 100,050	\$ 100,050
Steven Stanton Department of Management and Marketing	NBC Sports	Consumer Experiences Watching Sports and Sitcoms: The Influence of Testosterone and Cortisol on Consumer Responses to Advertising. This research aims to understand how the experience of watching sports vs. sitcoms can change TV viewers' reactions to advertised products. In addition, biological factors may be responsive to different programming types and may be the mechanism through which the changes in consumer preferences and memory for advertised goods occur.	\$ 26,500	\$ 26,500
Sayed Nassar Department of Mechanical Engineering	Michigan State University	Optimization of Hybrid Bolting and Joining of Dissimilar Materials. This basic research project is to identify and optimize joining technology for dissimilar-materials joints.	\$ 125,000	\$ 361,624

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
David Garfinkle Department of Physics	National Science Foundation	Numerical Studies of Singularities and Black Holes. The objective of this project is to understand the properties of gravitational collapse, black holes and the big bang.	\$ 45,001	\$ 135,000
Dae-Kyoo Kim Department of Computer Science and Engineering	Myongji University	Grid-Wise Information Base and Configuration Engine Development for Unifying IEC 61850 and IEC 61970. This research aims at facilitating data communication between hardware devices and software application in the smart grid domain.	\$ 88,366	\$ 317,331
Julie Gustafson Macomb Incubator	Grand Valley State University	Grand Valley State University-Business Accelerator Fund Client Engagement-Mobile Data Holdings. The objective of 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 catalyze multiplier effect.	\$ 48,600	\$ 48,600
Jennifer Lucarelli School of Health Sciences	Oakland County Health Department	Pontiac 4X4 Plan Evacuation. Oakland University will lead evaluation activities associated with Oakland County Health Division's grant to implement the Health and Wellness 4X4 Plan in the Pontiac community.	\$ 6,900	\$ 14,254
Tanya Christ Department of Reading and Language Arts	International Reading Association	Emergent Readers Digital Literacy Development. The objective of this study to explore emergent readers development of understandings about digital text using digital text features to construct meaning.	\$ 3,600	\$ 8,000
Reginald McCloud Pre-College Programs	Michigan College Access Network	Auburn Hills United College Access Network. The mission of the Auburn Hills United College Access Network (AH U-CAN) is to create a college-going culture among Avondale students, their families, and the entire community with an end goal of dramatically increasing post high school education participation and completion rates. First generation and low-income students will be able to pursue their highest potentials with support from the AH U-CAN.	\$ 19,933	\$ 60,000
Mi Hye Song Department of Biology	National Institutes of Health	Regulation of Centrosome Assembly by Phosphorylation. This research will use the <i>C. elegans</i> embryo as an <i>in vivo</i> model to perform genetics-phosphoproteomic analyses of centrosome assembly.	\$ 211,682	\$ 211,682
Total			\$ 991,522	\$ 3,205,253