

Agendum
Oakland University
Board of Trustees Formal Session
August 3, 2015

ACCEPTANCE OF GRANTS AND CONTRACTS TO OAKLAND UNIVERSITY
FOR THE PERIOD OF MAY 1 – JUNE 30, 2015
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 May 1 through June 30, 2015.

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.

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May 1 – June 30, 2015
Oakland University
Board of Trustees Formal Session
August 3, 2015
Page 2

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 May 1 through June 30, 2015.

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

Submitted to the President
on July 23, 2015 by

James P. Lentini
by *C. Michelle Pastulich*

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

Recommended on 7/27, 2015
to the Board for approval by

George W. Hynd

George W. Hynd
President

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Zijuan Liu Department of Biological Sciences	National Institutes of Health	Role of SLC39A8 (ZIP8) in Selenite Transport. The goal of this project is to identify the functions of SLC39A8 (ZIP8) in selenite transport in cell culture and transgenic mice and determine the impact of ZIP8 activity on cellular responses to selenite.	\$ 11,187	\$ 445,137
Zissimos Mourelatos Department of Mechanical Engineering	University of Michigan/TACOM	Reliability, Maintenance and Optimal Operation of Repairable Systems with Application to a Smart Charging Microgrid with Vehicle-to-Grid Capability. This project provides added value to ongoing ARC research, ongoing TARDEC work and work at the industry partner and other industries.	\$ 98,754	\$ 290,922
Joanne Reger Department of Sociology and Anthropology	Sociologists for Women in Society	Editorship of Gender and Society. This funding will be used for editor, management, and production costs that will occur in the production of the journal <i>Gender and Society</i> for a three-year term.	\$ 98,277	\$ 243,788
Geraldine Graham Upward Bound	U. S. Department of Education	Project Upward Bound College Preparatory Academy. Project Upward Bound will serve 120 eligible participants from Pontiac Northern High School, Pontiac Central High School, Pontiac Academy for Excellence, and Oak Park High School providing academic, social, cultural, and career enrichment. The objective is to encourage academic improvement, project retention, postsecondary enrollment, and postsecondary persistence.	\$ 597,252	\$ 2,986,260
Sergey Golovashchenko Department of Mechanical Engineering	PNNL/Battelle	Enhancing Sheared Edge Stretchability of AHSS/UHSS through Integrated Manufacturing Process PNNL-DOE. The purpose of this project is to enhance the sheared edge stretchability of AHSS/UHSS by developing quantitative and predictive understanding of the role of microstructure on sheared edge fracture and stretchability.	\$ 82,998	\$ 82,998
Zissimos Mourelatos Department of Mechanical Engineering	Chrysler, LLC	DOE and Response Surface Modeling Techniques. The goal of this project is to develop tools to improve the throughput and computational efficiency of multi-variable design optimization capabilities.	\$ 50,700	\$ 50,700

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Reginald McCloud Pre-College Programs	State of Michigan	GEAR UP. This program is designed to provide academic and social support for students currently in the tenth grade with support continuing through their first year of college. As a result of their active participation, students will be adequately prepared for college.	\$ 18,781	\$ 159,756
Julie Gustafson Macomb INCubator	Michigan Economic Development Corporation	MSF 2015 Business Incubators. This funding will be used to cover a portion of the cost to hire a SmartZone Program Administrator and Early Stage Business Commercialization Strategist.	\$ 195,879	\$ 195,879
Fabia Battistuzzi Department of Biological Sciences	University of Michigan/MSGC/NASA	Phylogenetic Accuracy of Prokaryotes with Limited Taxon Sampling. The goal of this research is to investigate methods to optimize the accuracy of evolutionary reconstructions for early life.	\$ 4,990	\$ 4,990
Randy Westrick Department of Biological Sciences	American Heart Association	Identification of Thrombosis Modifier Genes in ENU Mutagenized Mice. This funding will be used to compensate student, Marisa Brake, in her research to identify thrombosis modifier genes in ENU mutagenized mice.	\$ 4,000	\$ 4,000
Evan Trivedi Department of Chemistry	University of Michigan/MSGC/NASA	Near-IR Light Harvesting Dyes for Transparent Thin-Film Solar Cells. The goal of this research is to utilize our expertise in synthesis and photophysics to product macrocyclic donor molecules specifically designed for light-harvesting in solar cells.	\$ 5,000	\$ 5,000
Sara Blumer-Schuette Department of Biological Sciences	University of Michigan/MSGC/NASA	Metal Oxidation Mediated by Bacterial Contact Mechanisms in Acidic Environments. Acid mine drainage in Michigan is a unique landscape to characterize metal-oxidizing microbial communities. The goal of this research is to unravel the mechanisms that these microbes use to attach to metal ores.	\$ 5,000	\$ 5,000

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Krzysztof Kobus Department of Mechanical Engineering	University of Michigan/MSGC/ NASA	Earth System Science STEM Camps, Outreach and Teacher Training (K-12 Students and Teachers). A comprehensive, hands-on, workshop-based outreach and education program will bring three separate populations onto the Oakland University campus focusing on clean energy technology as it relates to environmental stewardship of our planet Earth.	\$ 17,500	\$ 17,500
Yuejian Wang Department of Physics	University of Michigan/MSGC/ NASA	Nanocrystalline Aerospace Materials Characterized by High-Pressure Technique. The goal of this project is to use high-pressure synchrotron X-ray diffraction to measure the mechanical features of nanocrystalline SiC, such as stiffness and volumetric thermal expansion.	\$ 5,000	\$ 5,000
Cynthia Schellenbach Department of Sociology and Anthropology	Oakland Schools	Oakland Schools Early Childhood Development. The Regional Developmental Screening Project is responsible for the collection and evaluation of data from the 32P Block Grant from Oakland County, Macomb County, and Wayne County. The researchers have developed a comprehensive measurement matrix and timeline that outline the project site responsibilities.	\$ 25,000	\$ 50,000
Jennifer Lucarelli School of Health Sciences	Oakland County Health Department	Pontiac 4x4 Plan Evaluation. 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.	\$ 10,123	\$ 25,377
Marshall Kitchens Department of Writing & Rhetoric	National Writing Project	SEED High Needs High School Grant. This funding will be used for workshops supported by a bi-monthly online book study forum for teachers at King High School in Detroit. All discussions will be based on the writing workshop approach.	\$ 10,000	\$ 80,000
Total			\$ 1,240,441	\$ 4,652,307