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

ACCEPTANCE OF GRANTS AND CONTRACTS TO OAKLAND UNIVERSITY FOR THE PERIOD OF SEPTEMBER 1– OCTOBER 31, 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 September 1 through October 31, 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.

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 September 1 – October 31, 2014.

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

Submitted to the President
on 11-19-, 2014 by

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

Recommended on 11/19/14, 2014
to the Board for approval by

George W. Hynd
President

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Libin Rong Department of Mathematics and Statistics	National Science Foundation	**Virus Infection and Immune Responses: Modeling, Analysis, and Implications.** This CAREER project is an integrated research, education, and outreach program that focuses on quantitative studies of virus infections and immune responses, as well as their implications for antiviral treatment and vaccination.	$ 78,685	$ 400,060
Lianxiang Yang Department of Mechanical Engineering	ESI Group	**Automatic Die-Starter Design Program: Phase 2.** The overall objective of this project is to deliver a fully functional computer program and accompanying documentation called Die-Starter.	$ 27,000	$ 27,000
Guanzhi Qu Department of Computer Science and Engineering	Beaumont/BCBSM	**Perioperative Handoff and Follow-Up Checklist.** The goal of this project is for the development, evaluation and refinement of a tool to measure perioperative outcomes using an innovative data-mining approach.	$ 10,000	$ 60,000
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.	$ 353,569	$ 1,485,196
Victoria Lucia School of Medicine	Michigan Campus Compact	**Medical Students as Teacher: Using Medical Students as Educators and Vaccinators in a High School Community.** The goal of this project is to assess the feasibility and sustainability of a program designed to integrate medical students, educate student interns, and high school students in a multi-level teaching experience in an effort to reinforce important health information, while providing access to medical care and healthy living information to high school students and their families.	$ 3,350	$ 3,350

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Jennifer Lucarelli School 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 the City of Pontiac, targeted towards improving minority health and reducing health disparities.	$ 650,748	$ 1,952,244
Mohamed Zohdy Department of Electrical Engineering	Chrysler Group LLC	**Modeling, Simulation, and Adaptation of Clutch Hydraulic Circuit and VFS for advanced 9 Speed Transmission.** In this research, we will develop a state space nonlinear model, set up their simulation and compare with real data from dyno and vehicle.	$ 131,040	$ 131,040
Nessan Kerrigan Department of Chemistry	National Institutes of Health	**Catalytic Asymmetric Synthesis of Deoxpropionates from Ketenes.** This funding will be used to develop a sequential asymmetric ketene heterodimerization-hydrogenolysis process to provide stereodefined dyads suitable for deoxypolypropionate synthesis.	$ 333,587	$ 333,587
Susan Awbrey Senior Associate Provost	Kresge Foundation	**Oakland University Student Success Conference.** This funding will support the 2015 Student Success Conference coordinated by Oakland University.	$ 30,000	$ 30,000
Roman Dembinski Department of Chemistry	American Chemical Society	**Effective, Catalyzed and Electrophilic Cyclization Reactions Leading to Highly and Diversely Substituted Fluoroheterocycles.** Catalytic reactions will be investigated for the synthesis of highly and diversely substituted fluoroheteroaromatics.	$ 24,000	$ 65,000
Andrew Goldberg Eye Research Institute	National Institutes of Health	**Molecular Scaffolding in Photoreceptor Renewal and Retinal Disease.** This project will elucide the molecular mechanisms underlying the membranous structure of photo-receptor outer segment organelles.	$ 354,125	$ 354,125

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Ka Cheok Department of Electrical and Computer Engineering	Chrysler Group, LLC	**Development of Programmable Inductive Load Simulator.** The goals of this research are to provide feedback and recommendations as to the most practical and economic solutions for the multi-Air Solenoid and design the Chrysler-agreed solution to the problems.	$ 130,872	$ 130,872
Stephen Goody Department of Art and Art History	The Kresge Foundation	**Detroit Arts Support Grant.** This funding will be used for the production of exhibition catalogues and art transport in Meadow Brook Hall Art Gallery.	$ 5,000	$ 10,000
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 our Department of Physics.	$ 19,735	$ 240,143
		Total	**$ 2,151,711**	**$ 5,222,617**