

Agendum  
Oakland University  
Board of Trustees Formal Session  
April 1, 2015

**ACCEPTANCE OF GRANTS AND CONTRACTS TO OAKLAND UNIVERSITY  
FOR THE PERIOD OF JANUARY 1 – FEBRUARY 28, 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 January 1 through February 28, 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.

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.

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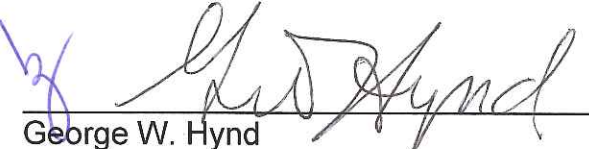
8. **Recommendation:** RESOLVED, that the Board of Trustees accept grants and contracts to Oakland University identified in the attached Grants and Contracts Report, Attachment A, for the period of January 1 through February 28, 2015.

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

Submitted to the President  
on 3/25/, 2015 by

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

Recommended on 3/25, 2015  
to the Board for approval by

  
George W. Hynd  
President

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Dorothy Nelson Office of Research Administration	University of Michigan/MEDC	<b>Tech Transfer Talent Network Fellowship.</b> This funding will be used 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.	\$ 25,473	\$ 25,473
Bradley Roth Department of Physics	Beaumont Research Institute	<b>Physics Doctoral Student - Ranjeeta Thapa.</b> These funds will provide research training placement of Oakland University graduate Physics student, Ranjeeta Thapa.	\$ 21,000	\$ 93,525
Daniel Aloï Department of Electrical and Computer Engineering	Chrysler Group, LLC	<b>Test Track Procedure Set-Up and Mapping.</b> The goal of this project is to set up Chrysler's Oxford dGPS system to finitely track movements of objects with respect to each other, to stationary objects, and test location attributes on Chrysler's test track.	\$ 65,000	\$ 65,000
Julie Gustafson Macomb INCubator	Grand Valley State University/MEDC	<b>Business Accelerator Fund Client Engagement-KTISIS.</b> 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 catalyze multiplier effect.	\$ 15,000	\$ 15,000
Mohamed Zohdy Department of Electrical and Computer Engineering	Lear Corporation	<b>Inverter Control Module Development.</b> This project is a collaboration between Dr. Zohdy's team and Lear Corporation to develop novel models, simulation, control and implementations of an advanced inverter system.	\$ 36,000	\$ 36,000
Stephen Goody Department of Art and Art History	Michigan Council for Arts and Cultural Affairs	<b>Program for Operational and Project Support (POPS) FY2015.</b> This funding will support the Oakland University Art Gallery for operational costs.	\$ 13,750	\$ 13,750
Julie Ricks-Doneen Department of Human Development & Child Study	Oakland Schools	<b>Parent Cafes.</b> The Lowry Center will host three Parent Cafes focusing on strengthening families through parenting knowledge, social development, relationships and resilience. This funding will provide stipends for teacher facilitators, child care costs, meals for families, and supplies.	\$ 2,000	\$ 2,000



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Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Omar Brown-EI Center for Multicultural Initiatives	State of Michigan	<b>C.O.R.E. Program.</b> The goal of this program is to address the needs of underrepresented students who attend Oakland University with targeted support services by the Center for Multicultural Initiatives.	\$ 91,364	\$ 91,364
Gopalan Srinivasan Department of Physics	Winchester Technologies/DARPA	<b>Multiferroic Materials for FR Applications.</b> The goal of this project is to achieve compact, multi-band tunable ferrite-ferroelectric devices for 2-12 Ghz.	\$ 150,797	\$ 150,797
Reginald McCloud Pre-College Programs	State of Michigan	<b>GEAR UP.</b> 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.	\$ 140,975	\$ 140,975
Zissimos Mourelatos Department of Mechanical Engineering	BETA CAE Systems USA	<b>Computational Efficiency Improvements in Multi-Level Substructuring for FE-Based Vibration Analysis and Optimization Using Interface Modes and Re-Analysis.</b> The scope of this project is to build on previous developments by developing computationally efficient multi-level substructuring methods.	\$ 80,000	\$ 160,000
Gopalan Srinivasan Department of Physics	United States Army	<b>Self Assembled Multiferroic Nanostructures and Studies on Magnetoelectric Interactions.</b> The goal of this project is to extend current research to novel self-assembled ferromagnetic-ferroelectric nanostructures and studies on ME interactions and negative index characteristics.	\$ 97,000	\$ 415,777
Jing Tang Department of Electrical and Computer Engineering	National Science Foundation	<b>Toward Next Generation Positron Emission Tomography/Magnetic Resonance Imaging.</b> This project addresses challenges and explores potentials in the hybrid PET/MRI technology to accelerate its clinical adoption.	\$ 500,000	\$ 500,000

<b>Principal Investigator</b>	<b>Awarding Agency</b>	<b>Title and Project Abstract</b>	<b>Award Amount</b>	<b>Total Award All Years</b>
Xiangqun Zeng Department of Chemistry	Michigan State University/NIH	<b>Wearable Microsystem Array for Acute Multi-Pollutant Exposure Assessment.</b> 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.	\$ 229,193	\$ 1,138,014
Dao-Qi Zhang Eye Research Institute	National Institutes of Health	<b>Functional Organization of the Dopaminergic Network.</b> The long-term goal of the proposed study is to understand the mechanisms by which dopaminergic amacrineneurons are regulated by light.	\$ 332,094	\$ 1,817,368
Scott Tiegs Department of Biological Sciences	Huron Mountain Wildlife Foundation	<b>Influence of Landscape-Scale Variables on Functional and Structural Integrity of Northern Michigan Streams.</b> The goal of this project is to monitor streams and rivers in the upper peninsula of Michigan using macroinvertebrate assemblages and cotton-strip decomposition rates.	\$ 1,300	\$ 13,750
Michael Sevilla Department of Chemistry	National Institutes of Health	<b>Mechanisms of Radiation Damage to DNA: LET Effects.</b> The goal of this project is to study free radical mechanisms of radiation damage to DNA.	\$ 203,672	\$ 1,284,339
Darrin Hanna Department of Electrical & Computer Engineering	Intrepid Control Systems	<b>Ultra High-Speed Vehicle Network Analysis.</b> The objective of this project is to research new methods for analysis vehicular network data in a large parallel framework using existing and new protocols, compression, and data storage techniques.	\$ 280,000	\$ 280,000
<b>Total</b>			<b>\$ 2,284,618</b>	<b>\$ 6,243,132</b>