

**Agendum
Oakland University
Board of Trustees Formal Session
March 6, 2015**

**ACCEPTANCE OF GRANTS AND CONTRACTS TO OAKLAND UNIVERSITY
FOR THE PERIOD OF NOVEMBER 1 – DECEMBER 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 November 1 through December 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.


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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 November 1 through December 31, 2014.

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


Submitted to the President

on 2/26, 2015 by



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

Recommended on 2/27, 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
Kimberly Zelinski Meadow Brook Hall	The Kresge Foundation	Detroit Arts Support. This funding will support the operating costs for Meadow Brook Hall.	\$ 12,500	\$ 25,000
Bradley Roth Department of Physics	Vanderbilt University and Medical Center/NIH	Optimal Design of Challenge-Response Experiments in Cardiac Electrophysiology. The objective of this project is to use new statistical methods to investigate challenge-response behavior in experiments. The methods will be tested using simulations and experiments in cardiac electrophysiology.	\$ 77,881	\$ 154,261
Scott Tiegs Department of Physics	Huron Mountain Wildlife Foundation	Influence of Landscape-Scale Variables on Functional and Structural Integrity of Northern Michigan Streams. The goal of this project is to monitor streams and rivers in the upper peninsula of Michigan using macro invertebrate assemblages and cotton-strip decomposition rates.	\$ 800	\$ 12,450
Sergey Golovashchenko Department of Mechanical Engineering	Chrysler Group LLC	CLIC-Form Training 2014-2015. This funding will support the continuation of the teaching and lab work through the CLIC-form program.	\$ 110,000	\$ 110,000
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
Daniel Llamocca Obregon Department of Electrical and Computer Engineering	University of New Mexico/NSF	Dynamically Reconfigurable Architectures for Time-Varying Image Constraints (DRASTIC) Based on Local Modeling and User Constraint Prediction. The goal of this research is to establish the effectiveness of the dynamically reconfigurable architectures over static approaches and will support an out-of-school STEM program.	\$ 68,068	\$ 68,068

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Mary Lose Department of Reading and Language Arts	The Ohio State University/U.S. Ed	OSU-ARRA- Reading Recovery i3. This project is a partnership to obtain funding to scale-up Reading Recovery in schools identified for targeted assistance.	\$ 558,801	\$ 2,886,613
Sergey Golovashchenko Department of Mechanical Engineering	Battelle Pacific Northwest Laboratory/DOE	Aluminum Formability Extension through Superior Blank Processing. The purpose of this work is to use a combined experimental and numerical approach to develop processing methods for preparation of stamping blanks that achieve extended ductility compared to conventional blanks.	\$ 60,406	\$ 251,349
Mohammad Reza Siadat Department of Computer Science and Engineering	Beaumont Health System/NIH	Urinary Continence Index for Prediction of Urinary Incontinence in Older Women. The objective of this project is to estimate a urinary incontinence index for older women to predict whether a subject is likely to develop incontinence in the future.	\$ 20,000	\$ 422,805
Megan Conrad Sczygielski Department of Industrial and Systems Engineering	Chrysler Group LLC	Universal Ergonomic Assessment Interface. The Universal Ergonomic Assessment Interface is a software interface integrating all ergonomic tools for job assessments including, but not limited to, analyses of anthropometric measurements, musculoskeletal strain, static and dynamic work analysis, etc.	\$ 40,000	\$ 40,000
Andrei Slavin Department of Physics	University of Nebraska-Lincoln	Center for Nanoferroic Devices. Theory of dipole-exchange spin waves in ferromagnetic films with surface magnetoelectric effect will be developed.	\$ 80,000	\$ 380,000
Julie Gustafson Macomb INCubator	Grand Valley State University/MEDC	Business Accelerator Fund Client Engagement-HouseSetter. 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.	\$ 25,955	\$ 25,955

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Zissimos Mourelatos Department of Mechanical Engineering	University of Michigan/U.S. Army	Modeling and Simulation to Assess and Demonstrate Airbag Technology for Occupant Protection in Tactical Vehicles - Phase 3. The focus of this research will be on validating the models against crash tests with airbags, and optimizing the restraint and airbag systems to mitigate occupant injury potential.	\$ 100,346	\$ 100,346
Julie Gustafson Macomb INCubator	Grand Valley State University/MEDC	Business Accelerator Fund Client Engagement-Telemetrio. 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.	\$ 14,000	\$ 14,000
Zissimos Mourelatos Department of Mechanical Engineering	University of Michigan/U.S. Army	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.	\$ 83,285	\$ 143,285
Mohan Tanniru Department of Decision and Information Sciences	St. Joseph Mercy Oakland	Assessing the Impact of Enabling IT Innovations in Health Care - The Case of St. Joe Mercy Hospital at Oakland. The objective of this project is to document the network of relationships of various actors (IT, staff, environment and patients) that make up the new patient care environment at St. Joseph Mercy Oakland.	\$ 39,439	\$ 39,439
Total			\$ 1,368,481	\$ 4,904,571