

Agendum
Oakland University
Board of Trustees Formal Session
November 9, 2009

**ACCEPTANCE OF GRANTS AND CONTRACTS TO OAKLAND UNIVERSITY
FOR THE PERIOD OF SEPTEMBER 1 THROUGH OCTOBER 31, 2009**

A Recommendation

1. **Division and Department:** Academic Affairs/Office of Grants, Contracts and Sponsored Research

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 September 1 through October 31, 2009.

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 Grants, Contracts and Sponsored Research 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:**

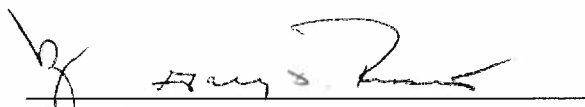
RESOLVED, that the Board of Trustees accept grants and contracts to Oakland University identified in the attached Grants and Contracts Report, Attachment A, for the period of September 1 through October 31, 2009.

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

Submitted to the President
on 11/6, 2009 by


Virinder K. Moudgil
Senior Vice President for
Academic Affairs and Provost

Recommended on 11/6, 2009
to the Board for approval by


Gary D. Russi
President

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Keyu Li Department of Mechanical Engineering	U.S. Army Department of Defense	Residual Stress Testing and Analysis on Fabricated Parts. <i>With the expertise of the P.I. this project will test and analyze stresses in 150 fabricated ceramic tiles, offering a more complete understanding and effective assistance to product improvements.</i>	\$ 147,000	\$ 147,000
Ka C Cheok Department of Electrical and Computer Engineering	U.S. Army TACOM	Automotive-Robotics Cluster Initiative Partnership Workshop. <i>Funding from this project is used to host the Automotive-Robotics Cluster Initiative Partnership Workshop at the OU Oakland Center on July 28-29, 2009.</i>	\$ 24,877	\$ 24,877
Dyanne Tracy Teacher Development and Educational Studies	Michigan Department of Education (MDOE)	Meaningful Mathematics through Manipulatives and Technology for Special Needs Teachers. <i>The objective of this project is to increase the knowledge of K-12 special education teachers in the mathematics content area with the overall goal of improving student learning in mathematics.</i>	\$ 199,526	\$ 199,526
Mark Isken Department of Business Administration	United States Navy	Testing & Validation of Occupancy & Scheduling Models for Inpatient Obstetrics. <i>The goal of this project is to demonstrate the feasibility of using our occupancy and optimization models for analysis of realistically sized obstetrical units using five Navy hospitals.</i>	\$ 25,000	\$ 25,000
Xia Wang Department of Mechanical Engineering	National Science Foundation (NSF)	IRES: Collaborative Research Activities with China on Fluid and Thermal Transport in Fuel Cells. <i>This program will address the nationwide concerns related to globalization, energy and pollution by providing meaningful international research experiences in the area of fuel cells to talented undergraduate and graduate students.</i>	\$ 149,290	\$ 149,290
Amy Banes-Berceli Department of Biological Sciences	National Institutes of Health (NIH)	Physiological Role of Activation of the JAK/STAT Pathway in Hypertension. <i>The goal of this project is to determine the role of the JAK/STST pathway in hypertension and the development of disease-related vascular and renal complications.</i>	\$ 242,943	\$ 728,829

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Gopalan Srinivasan Department of Physics	U.S. Department of Education	For the Institute of Radio Frequency Electronics and Nano-Electronics, including Purchase of Equipment. The objective of this project is to establish an Institute for Radio Frequency Electronics and Nano-electronics at OU.	\$ 95,000	\$ 95,000
Xiangqun Zeng Department of Chemistry	National Institutes of Health (NIH)	Ionic Liquid Gas Sensors for Detection of Flammable Gases in the Workplace. The goal of this project is to develop ionic liquid QCM and Electrochemical Sensor Array for flammable gas detection in the workplace.	\$ 208,607	\$ 208,607
Gopalan Srinivasan Department of Physics	University of Illinois, Chicago	Active Multiferroic Nanostructures. The goal of this project is to develop nanostructures - nanowires, nanopillars and nanofilms of artificial multilayered multiferroic materials to achieve increased functionality in advanced nano-devices.	\$ 44,500	\$ 178,000
Douglas Wendell Department of Biological Sciences	National Institutes of Health	DNA Markers for Fast Plants to Teach Scientific Thinking. The objective of this project is to develop DNA markers for rapid cycling <i>Brassica rapa</i> that can be used under the conditions of a typical undergraduate teaching lab, and lab modules to use these materials to teach scientific reasoning and molecular genetics in undergraduate courses.	\$ 136,838	\$ 265,055
Julie Ricks-Doneen Lowry Center for Early Childhood Education	United States Department of Education	Child Care Access Means Parents in School. The goal of this project is to provide partial tuition scholarships to Lowry Center for Early Childhood Education for children whose parents are undergraduate students at Oakland University and receive Pell funds.	\$ 54,121	\$ 162,363
Darrin Hanna Department of Electrical and Computer Engineering	RHK Technologies	Nano-Imaging Technology Research and Development Laboratory. The Goal of this project is to establish a Nano-Imaging Technology Research and Development Lab at Oakland University to advance the state of the art in nano-imaging.	\$ 93,055	\$ 500,000

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Dyanne Tracy Teacher Development and Educational Studies	Macomb Intermediate School District	Embracing Mathematics, Assessments & Technology in High Schools (E-MATHS). <i>The objective of this project is to increase the content knowledge and improve the pedagogical skills of high school math teachers who will need to teach every student algebra and/or geometry.</i>	\$ 8,686	\$ 18,686
G. Rasul Chaudhry Department of Biological Sciences	National Science Foundation	Biochemical Characterization of Carbofuran Hydroxylase. <i>The goal of this project is to understand molecular mechanism of metabolism of carbofuran by micro-organisms.</i>	\$ 12,000	\$ 64,000
Bradley Roth Department of Physics	National Institutes of Health	Core Center in Quantitative Biology. <i>The goal of this project is to provide an integrated approach to quantitative biology at OU.</i>	\$ 386,113	\$ 772,226
Bradley Roth Department of Physics	National Science Foundation	MRI: Acquisition of a Computer Cluster for Multidisciplinary Physics Research. <i>This project will provide funds to obtain a 184-node computer cluster for interdisciplinary physics research. This equipment would vastly improve the computational resources available to the Physics Department</i>	\$ 100,000	\$ 100,000
TC Yih Grants, Contracts and Sponsored Research	Beaumont Hospitals	OU-Beaumont Multidisciplinary Research Initiative. <i>This initiative promotes joint research collaboration between Oakland University and Beaumont Hospitals. Multidisciplinary research projects are sponsored by this initiative.</i>	\$ 55,634	\$ 55,634
Total			\$ 1,983,190	\$ 3,694,093