Agendum
Oakland University
Board of Trustees Formal Session
June 26, 2013

ACCEPTANCE OF GRANTS AND CONTRACTS TO OAKLAND UNIVERSITY FOR THE PERIOD OF MARCH 1, 2013 THROUGH MAY 31, 2013

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 March 1, 2013 through May 31, 2013.

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 March 1 through May 31, 2013.

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

Submitted to the President
on 6/17, 2013 by

Susan M. Awbrey
Interim Senior Vice President for
Academic Affairs and Provost

Recommended on 6/17, 2013
to the Board for approval by

Gary D. Russi
President

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Lorenzo Smith School of Engineering and Computer Science	Ford Motor Company	***Design Tool for Electrohydraulic Forming Technology Material Model.*** *The goal is to develop a design tool for EHF technology based upon numerical modeling.*	$ 112,000	$ 1,223,089
Kimberly Zelinski Meadow Brook Hall	Michigan Council for Arts and Cultural Affairs	***Operational and Projects Support.*** *This funding will be used for administrative costs, space rental, travel, marketing, publicity and promotion for Meadow Brook Hall.*	$ 18,000	$ 18,000
Guangzhi Qu Department of Computer Science and Engineering	Beaumont/Blue Cross Blue Shield of Michigan	***Perioperative Handoff and Follow-up Checklist.*** *The goal of this project is the development, evaluation and refinement of a tool to measure perioperative outcomes using an innovative data-mining approach.*	$ 50,000	$ 50,000
Lorenzo Smith School of Engineering and Computer Science	Chrysler LLC	***Aluminum EFLC Phase 2: Development of Two Bead Blocks for Wide Draw Bead Simulation Tests.*** *The objective of this project is to design, fabricate and test the performance of two new bead block sets for the wide draw bead simulation tests.*	$ 5,000	$ 5,000
Cynthia Schellenbach Department of Sociology and Anthropology	Wayne RESA	***Regional ASQ Developmental Screening Project-Great Start Collaborative, Oakland, Wayne, Macomb Counties.*** *This project is a collaborative expansion of the use of the Ages and Stages Questionnaire and the ASQ-SE for implementation of a prevention and intervention system.*	$ 8,333	$ 8,333
Cynthia Schellenbach Department of Sociology and Anthropology	Oakland Schools	***Regional ASQ Developmental Screening Project-Great Start Collaborative, Oakland, Wayne, Macomb Counties.*** *This project is a collaborative expansion of the use of the Ages and Stages Questionnaire and the ASQ-SE for implementation of a community prevention and intervention system.*	$ 8,333	$ 8,333
Cynthia Schellenbach Department of Sociology and Anthropology	Macomb School District	***Regional ASQ Developmental Screening Project-Great Start Collaborative, Oakland, Wayne, Macomb Counties.*** *This project is a collaborative expansion of the use of the Ages and Stages Questionnaire and the ASQ-SE for implementation of a prevention, intervention and development of a regional dashboard system.*	$ 7,958	$ 7,958
Lan Jiang Department of Biological Sciences	National Institutes of Health	***The Drosophila Expansion Gene Controls Tracheal Tube Diameter.*** *The objective of this project is to define a novel role for Smad family proteins in regulating signaling pathways and downstream dynamic cellular processes to control tube size.*	$ 324,338	$ 324,338

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Julie Gustafson Macomb Incubator	Michigan Economic Development Corporation	***21st Century Jobs Fund 2012 Entrepreneurial Service Provider Program.*** *The Macomb-Oakland University Incubator will administer the Defense Advanced Research Projects Agency (DARPA) Federal Matching Program for the State of Michigan.*	$ 179,016	$ 766,036
Gopalan Srinivasan Department of Physics	United States Army	***Self-Assembled Multiferroic Nanostructures and Studies on Magnetoelectric Interactions.*** *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.*	$ 4,777	$ 202,777
Dan Aloi Department of Electrical and Systems Engineering	Federal Aviation Administration	***Personal Privacy Jammer Vehicle Modeling and Testing.*** *This funding supports development of validated electromagnetic models of GPS jammers on automobiles and aircraft.*	$ 60,000	$ 120,000
Reginald McCloud Pre-College Programs	State of Michigan	***Gear Up.*** *This funding will provide academic and social support for students currently in the eighth grade with support continuing through their first year of college.*	$ 99,764	$ 99,764
Reginald McCloud Pre-College Programs	DAPCEP	***DAPCEP READY Program.*** *This funding will give underrepresented students the interest and preparation needed to succeed in a university level science or engineering curriculum.*	$ 9,000	$ 9,000
Reginald McCloud Pre-College Programs	DAPCEP	***DAPCEP Spring and Summer Program 2013.*** *This funding will give underrepresented students the interest and preparation needed to succeed in a university level science or engineering curriculum.*	$ 5,500	$ 5,500
Julie Gustafson Macomb Incubator	Grand Valley State University	***Business Accelerator Fund-Client Engagement.*** *The objective of 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.*	$ 30,500	$ 30,500
Jane Yamazakic Center for International Programs	Japan Foundation	***Oakland University Urban Japan: Then and Now.*** *This funding will be used to support a study trip to Japan to visit Kyoto and Tokyo in conjunction with coursework at Oakland University.*	$ 58,265	$ 58,265

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Laila Guessous Department of Mechanical Engineering	Stevens Institute of Technology	***Engaging Students: Increasing Faculty-Student Interaction.*** *The NSF funded ENGAGE program at the Stevens Institute of Technology is seeking engineering schools to implement and test strategies to improve Faculty-Student Interaction. This grant will allow SECS to implement such strategies in its core courses.*	$ 2,000	$ 2,000
Osamah Rawashdeh Department of Electrical and Systems Engineering	National Science Foundation	***REU Site: Interdisciplinary Research Experience in Electrical and Computer Engineering.*** *This funding will help promote interest in research and careers in the area of Electrical and Computer Engineering. Ten participants will spend ten weeks in the upcoming three summers working in active research labs in the department.*	$ 121,999	$ 367,153
Andrei Slavin Department of Physics	Yale University	***Coherent Information Transduction Between Photons, Magnons and Electric Charge Carriers.*** *This project will focus on the investigation of information transmission, storage and processing in multi-component systems, which utilize the coherent interconversion between photons, magnons and electric charge carriers.*	$ 72,634	$ 600,000
Bradley Roth Department of Physics	Beaumont Research Institute	***Physics Doctorial Student - Ranjeeta Thapa.*** *These funds will provide research training placement of Oakland University graduate Physics student, Ranjeeta Thapa.*	$ 36,126	$ 51,252
Dan Aloi Department of Electrical and Computer Engineering	University of Michigan	***Reliable Peripheral Nerve Interfaces.*** *The goal of this project is to develop and demonstrate a reliable peripheral nerve interface to control a prosthesis.*	$ 55,563	$ 142,618
David Garfinkle Department of Physics	National Science Foundation	***Numerical Studies of Singularities and Black Holes.*** *The goal of this project is to understand the properties of gravitational collapse, black holes and the big bang.*	$ 44,999	$ 135,000
Lorenzo Smith School of Engineering and Computer Science	Chrysler LLC	***Sample Testing Aluminum EFLD Phase II.*** *This project will conduct tension tests on aluminum specimens to assess formability.*	$ 7,333	$ 7,333
Lorenzo Smith School of Engineering and Computer Science	Chrysler LLC	***Design and Fabricate Tooling for Additional Stretch-Bend Studies for Aluminum Sheet Metal.*** *This funding will be used to design and fabricate tooling for evaluating sheet metal formability.*	$ 6,388	$ 6,388
Tanya Christ Department of Reading and Language Arts	State University of New York (SUNY)	***Exploring Young Children's Engagement with Multimodal Text.*** *This project aims to understand how children engage with multimodal texts, both independently and socially, to construct meaning.*	$ 5,923	$ 5,923

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Lorenzo Smith School of Engineering and Computer Science	Ford Motor Company	***Design Tool for Electrohydraulic Forming Technology Material Model.*** *The goal is to develop a design tool for EHF technology based upon numerical modeling.*	$ 48,000	$ 1,271,089
Julie Ricks-Doneen Lowry Center	National Inclusion Project	***Let's ALL Play.*** *Grant funds will provide tuition support for children, coach and assistants, travel costs and materials for the Let's ALL Play model during its inclusive summer camp program.*	$ 6,000	$ 6,000
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*	$ 60,000	$ 380,000
Lorenzo Smith School of Engineering and Computer Science	Novelis	***Lubrication Performance Evaluation Test on Al-6111 Sheet.*** *Funding for this project will be used to run tests on aluminum strips to determine their friction characteristics.*	$ 9,998	$ 9,998
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.*	$ 422,803	$ 422,803
		Total	**$ 1,880,550**	**$ 6,344,450**