

**Agendum
Oakland University
Board of Trustees Formal Session
December 7, 2020**

**ACCEPTANCE OF GRANTS AND CONTRACTS TO OAKLAND UNIVERSITY
FOR THE PERIOD OF SEPTEMBER 1 – OCTOBER 31, 2020**
A Recommendation

1. **Division and Department:** Academic Affairs/Research Office
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 – October 31, 2020.

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.

Acceptance of Grants and Contracts to
Oakland University for the Period of
September 1 – October 31, 2020
Oakland University
Board of Trustees Formal Session
December 7, 2020
Page 2

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 Research Office 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, 2020.

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

Submitted to the Provost
on _____, 2020 by

C. Michelle Piskulich, Ph.D.
Interim Executive Vice President for
Academic Affairs and Provost

Recommended on _____, 2020
to the Board for approval by

Ora Hirsch Pescovitz, M.D.
President

Grants and Contracts Report for Period September 1 - October 31, 2020

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
<p>Michele Parkhill Purdie Department of Psychology</p>	<p>Alliance of Coalitions for Healthy Communities</p>	<p>Social Norms Intervention Assessment. The Alliance of Coalitions for Health Communities has entered into an agreement with Oakland Universities' health coordinator to conduct a social norms intervention on campus to reduce problematic drinking in students. This funding will be used to conduct research to measure the effectiveness of this intervention.</p>	<p>\$ 11,320</p>	<p>\$ 36,140</p>
<p>Gary Barber Department of Mechanical Engineering</p>	<p>Eaton Corporation</p>	<p>Tribological Performance of Busway Coatings. The tribological performance of busway coatings will be determined by running friction and wear tests. The performance of standard coatings will be compared to prototype samples.</p>	<p>\$ 16,000</p>	<p>\$ 108,000</p>
<p>Geraldine Graham Student Affairs</p>	<p>United States Department of Education</p>	<p>Project Upward Bound College Prep Academy. Our mission is to generate skills and motivation in participants necessary to succeed in secondary and post-secondary education, as well as to increase access and success in higher education for low-income and potential first-generation college students.</p>	<p>\$ 24,042</p>	<p>\$ 3,075,850</p>

Grants and Contracts Report for Period September 1 - October 31, 2020

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
John Corso Esquivel Department of Art & Art History	Michigan Humanities Council	OU on the Road: Great Michigan Read Book Club. For its contribution to Great Michigan Read, the Center for Public Humanities at Oakland University will host an online book club discussion of Dr. Mona Hannah-Attisha's <i>What The Eyes Don't See</i> .	\$ 750	\$ 750
Kristine Thompson Department of Human Movement Science	Michigan Physical Therapy Association	Longitudinal Outcomes of Telehealth Instruction in a Doctor of Physical Therapy Program. This Scholarship for Service Program will provide Oakland University scholarships to highly qualified students from diverse backgrounds to enter the field of cybersecurity.	\$ 500	\$ 500
Zorica Kauric-Klein School of Nursing	American Nephrology Nurses Association	The Effect of a Yoga Intervention on Physical and Psychological Outcomes in Patients on Chronic Hemodialysis. This pilot study will compare the effects of a 12-week intradialysis yoga intervention on muscle strength, blood pressure, heart rate, sleep quality, depression, anxiety, quality of life, dialysis clearance, albumin, lipid profile, phosphorous and anti-inflammatory markers as compared to standard care in a sample of patients on chronic hemodialysis.	\$ 12,293	\$ 12,293

Grants and Contracts Report for Period September 1 - October 31, 2020

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Luca Cucullo School of Medicine	Texas Tech University-NIH	Testing Tobacco Smoke and E-Cigarette Toxicity at the Blood-Brain Barrier. The objectives of this research are to assess the potential cerebrovascular pathogenic impact of e-Cig vaping and TS in a side by side comparative study and evaluate in vivo the effect of prophylactic versus therapeutic administration of metformin in reducing TS or e-Cig vaping - promoted cerebrovascular impairment and/or post-ischemic neuronal damage.	\$ 221,825	\$ 221,825
Julian Rrushi Department of Computer Science and Engineering	Idaho National Lab/DOE	Idaho National Laboratory in response to DOE's Grid Modernization Laboratory Call (GMLC) 2019 Research Call. This research will focus on a microkernel concept for industrial control system security.	\$ 167,892	\$ 167,892
Luca Cucullo School of Medicine	Texas Tech University-NIH	Blood and Brain Based Biomarkers of Injury to Assess the Cerebrovascular Impact of Emerging Alternatives to Classic Cigarette Products. The main goal of this research is to determine and validate a set of specific blood and tissue biomarkers to assess the cerebrovascular impact of e-cigarettes and other emerging tobacco products as well as the risk of developing neuroinflammatory disorders.	\$ 114,455	\$ 114,455

Grants and Contracts Report for Period September 1 - October 31, 2020

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Andrei Slavin Department of Physics	Air Force Office of Scientific Research / University of Central Florida	Terahertz Spintronics with Antiferromagnetic Insulators. The goal of this research is to develop new materials and techniques, leveraging the unique properties of antiferromagnets to transform methods of generation, transmission, and processing of THz signals.	\$ 180,000	\$ 887,849
Ryan Monroe Department of Mechanical Engineering	Fiat Chrysler Automobiles US LLC	Acoustic Tools for Improving Vehicle NVH and Sound Quality. The objective of this research is to create a sound data synthesis tool and develop optimization tools/techniques for target sound generation.	\$ 100,000	\$ 100,000
Elizabeth Delorme-Axford Department of Biological Sciences	Caymen Chemical Company	Metabolic Regulation and Autophagy. The goal of this project is to complete experiments related to two manuscripts investigating metabolic regulation and autophagy. These studies will provide further evidence for how cellular metabolic networks influence autophagy activity.	\$ 1,000	\$ 1,000
David Szlag Department of Chemistry	State of Michigan Department of Environment, Great Lakes and Energy	Detecting COVID-19 in Sewage Runoff. This project will allow decision-makers to have real-time data as to infection prevalence within their jurisdictions, based on the detection of COVID-19 in sewage.	\$ 390,660	\$ 390,660

Grants and Contracts Report for Period September 1 - October 31, 2020

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
John Beaghan Finance and Administration	Macomb County Government	Oakland University Emergency Funding under the CARES Act-COVID-19. Oakland University received funding from Macomb County Government as part of the federal Coronavirus Relief Funds to cover Covid-19 related supplies and programs.	\$ 354,262	\$ 354,262
Teresa Rodges Student Affairs	United Way for Southeastern Michigan	Oakland University Pontiac Initiative. The primary purpose for this program is to increase reading and math scores of students in 9th – 12th grades through the collective effort of support with staff, parents, community, collaboration and partnerships.	\$ 25,000	\$ 25,000
Yang Xia Department of Physics	Binational Science Foundation	Investigation of Microstructure of Neuronal and Collagenous Tissues by NMR and MRI Techniques. This research will use a novel MRI method based on a new imaging contrast for those parts of the tissues that contain water in nano-sized capillaries.	\$ 40,000	\$ 40,000
Total Awards			\$ 1,659,999	\$ 5,536,476