

Oakland University Board of Trustees Meeting

October 11, 2021

President's Report
President Ora Hirsch Pescovitz, M.D.



Agenda

- **Overview and OU Pride**

President Ora Hirsch Pescovitz

- **OU Research: Annual Report**

David Stone, Vice President for Research

- **OU School of Education and Human Services**

Dean Jon Margerum-Leys



Honoring Our History

Today, October 11, we celebrate and honor Native American peoples and commemorate their histories and culture.

“In recognizing the history and respecting the sovereignty of Michigan’s Indian Nations, Oakland University honors the heritage of Indigenous communities and their significant role in shaping the course of this region.”

*– Excerpt from Oakland University’s
Land Acknowledgement Statement*



**INDIGENOUS
PEOPLES DAY**



OU Vaccination Status

- **Total employees (faculty and staff):**
 - **Vaccinated: 90% (2,306)**
 - **Exemptions: 4%**
 - **Not uploaded: 6% (163)**



Updated: October 11, 2021

OU Vaccination Status

- **Total students (17,128):**
 - **Vaccinated: 78%**
 - **Exemptions: 9%**
 - **Not uploaded: 13%**



Updated: October 11, 2021

Contract Agreements

Extended contracts with the following unions:

- Oakland University Campus Maintenance and Trades (OUCMT)
- Police Officers Association of Michigan (POAM)

Negotiated contracts with the following unions:

- Oakland University Professional Support Association (OUPSA)
- Command Officers Association of Michigan (COAM)
- American Association of University Professors (AAUP)



Working together for the common good

- AAUP contract has been ratified by a majority of voting members.
- Formal agreement to come before the OU BOT today for approval.
- Heightened tensions and contentiousness during negotiation process.
- Next steps:
 - Improving morale
 - Working together for common good of students and the university.



Back to Campus



Back to Campus

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Back to Campus

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Back to Campus



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Golden Grizzlies Grit



Golden Grizzlies @GoldenGrizzlies · Aug 29

We love to see our fellow student athletes coming out to support @OaklandMSOC!

Thanks to @OaklandMBB and @OAK_Swim_Dive for cheering on our guys today!



4 23

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Golden Grizzlies @GoldenGrizzlies · Sep 9

Student Athletes supporting Student Athletes at the @OaklandWSOC match 🍊



2 13 64

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Back to Campus



Back to Campus



Profile in Courage

“I don’t think I could have lived with myself if we just drove by, we saw the fire we had to step into something. I could not have done it without my OUWB training and I will be forever grateful for that.”

– Rachel Harvey

OUWB student who, along with her father, saved a man trapped inside a burning house



An Amazing Journey

- Sarah Denha and her family immigrated to the United States from Iraq in 2013.
- She spent a year learning English and earning her GED, and then attended Macomb Community College.
- She transferred to OU, where she earned her bachelor's degree in biochemistry.
- In 2019, she enrolled in OU's master's program in chemistry and then, enrolled in OU's Ph.D program in Biomedical Science.



Sarah's personal and academic journey was featured in the Oakland Press on September 22, 2021.

An Amazing Journey

- Under Professor Adam Avery's mentorship, she helped investigate a treatment for spinocerebellar ataxia type 5, a rare disease that causes degeneration of the spinal cord and cerebellum.
- Earlier this year, Sarah and Prof. Avery co-authored an article published in the Journal of Biological Chemistry.



Sarah's personal and academic journey was featured in the Oakland Press on September 22, 2021.

Research at
Oakland
University
2021

KNOWLEDGE **APPLIEDSCIENCES**
CREATIVITY **HUMANITIES**
HEALTHSCIENCES **INNOVATION**
RESEARCH
EDUCATION **IDEAS** **ENGINEERING**
ENGAGEMENT
NURSING **SCHOLARSHIP** **MEDICAL**
ARTISTRY **ENTREPRENEURSHIP**

What Research Means for OU

1. **Faculty Success:** Attracting and retaining high quality **faculty**
2. **Student Success:** Supporting **undergraduate** recruitment, retention and completion; more competitive in the job market and graduate school placement
3. **Student Success:** Supporting **graduate** programs where students need funded research experiences for career placement
4. **Engagement Success:** Supporting **community engagement** (e.g., Carnegie designation) and **industry relations**
5. **Supporting fund raising**

Current Data



Funding Awarded	FY2020	FY2021
Research	7,696,442	12,887,052
Instruction	1,080,497	2,502,714
Other *	886,644	720,211
Total	\$9,663,583	\$16,109,977

67% increase in both research dollars and total dollars awarded!

* Includes Public Service, Student Services, Scholarships & Fellowships

Amounts Requested	FY2018	FY2019	FY2020	FY2021
Total	\$48,495,184	\$70,986,156	\$89,350,575	\$91,107,523

88% increase FY18 – FY21

Key Performance Indicators

Fiscal Year 2021	Target	Actual
Number of Grants Submitted	228	195
Number of Grants Funded	105	77
Federal Research Dollars	\$6.3M	\$11.6M
Other Externally Funded Research Dollars	\$2M	\$1.2M
Percent of TT Faculty PI or Co-PI	18%	18.4%

Spintronics CAS-SECS

**Institute for Spintronic and
Microwave Technology**

Gopalan Srinivasan
Physics
Air Force



Andrei Slavin
Physics
NSF, DARPA



Wei Zhang
Physics
NSF (CAREER),
Argonne/DOE,
Air Force

Spintronics



Jia Li
*Electrical and
Computer Engineering*
Air Force

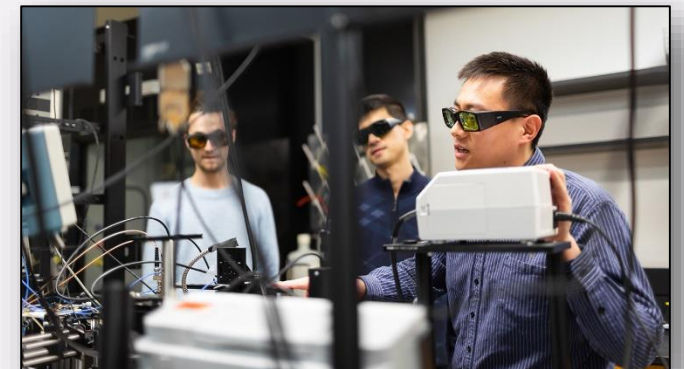


Vasyl Tyberkevych
Physics
NSF (co-PI)



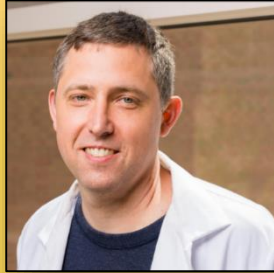
Steven Louis
*Electrical and Computer
Engineering*

Spintronics is a new discipline that applies quantum mechanics to real-world devices and systems. It makes electronics faster, smaller, and more powerful. OU has received \$5.5 million in external funding since 2016.



**Adam
Avery**

Chemistry
NIH R15



**Valance
Washington**

*Biological
Sciences*
NIH R01



**Luca
Cucullo**
OUWB
NIH R01

**Randy
Westrick**

*Biological
Sciences*
NIH R01



**Alexey
Tonyushkin**

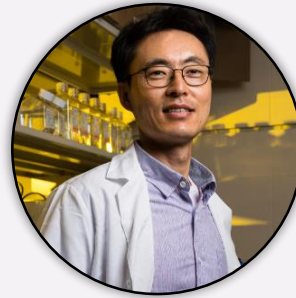
Physics
NIH R15



Biomedical research at OU seeks to understand how both healthy and diseased bodies or systems work, as well as how to diagnose and treat them.

OU's research in biological sciences at the molecular level explores the questions:

- How do cellular mechanisms operate?
- How do genes regulate those processes and mechanisms?
- How do structures in the body develop from the embryonic stage forward?
- How do bodily systems communicate with each other around disease processes?



Sang Rhee

Biological Sciences

NIH R15



Elizabeth Delorme-Axford

Biological Sciences

Cayman Chemical Company,
Sapphire North America

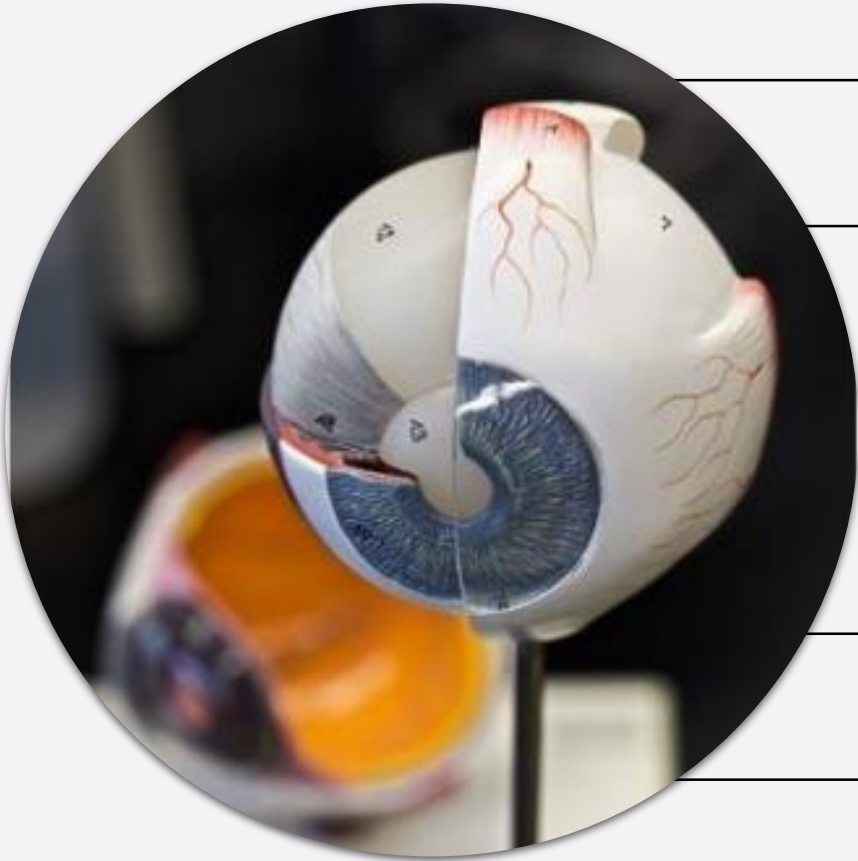


Lan Jiang

Biological Sciences

NIH R15

Eye Research



Mohamed Al-Shabrawey, *Founding Director, Eye Research Center, OUWB and Director, Eye Research Institute*
NIH R01



Amany Tawfik, *Eye Research Institute*
NIH R01



Andrew Goldberg, *Eye Research Institute*
NIH R01



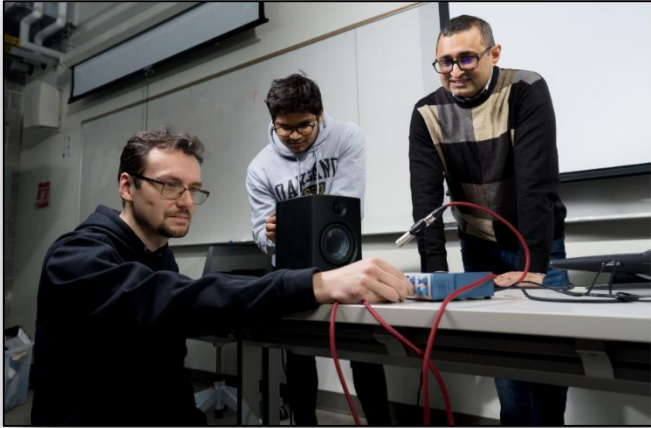
Dao-Qi Zhang, *Eye Research Institute*
*NIH R01 pending



Ken Mitton, *Eye Research Institute*
NIH

With over \$4M in recent funding, these scientists are researching causes of blindness and the structures of the cells in the retina that detect light.

Cybersecurity Research



OU's cyber research impacts multiple areas of cyber vulnerability, including cyber attacks on control systems and power grids, and detection of deepfake audio, video, and images.



Julian Rrushi

*Computer Science and Engineering,
DARPA Young Investigator,
Fortinet Corporation, Dept. of
Energy/Idaho National Lab*



Khalid Malik

*Computer Science and Engineering,
National Science Foundation,
Imam Mohammad IBN Saud
Islamic University*



Industry-University Cooperative Research Center for Composite and Hybrid Materials Interfacing (CHMI)



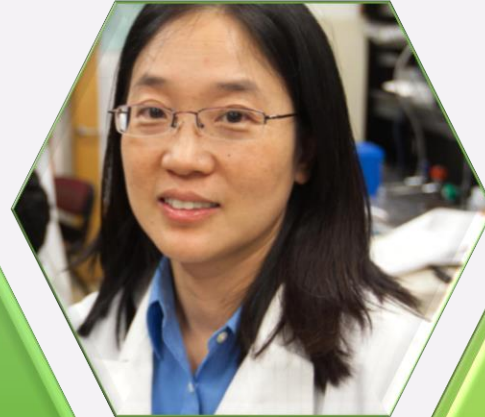
Prof. Sayed Nassar, PI
OU Site Director, IUCR for CHMI
SECS-Mechanical Engineering
NSF, DOD



Ziming Yang,
Chemistry
NSF (CAREER)



**Xiangqun
Zeng**
Chemistry
NIH/LabSys LLC,
NSF, DOE, Alpha
Foundation



**Thomas
Bianchette**
Chemistry
NSF



Dr. Zeng:

2017 – Ora Hirsch Pescovitz
Innovation Award, Most
Active Grant Seeker

2018 – Most Active Grant
Seeker

2019 – Most Active Grant
Seeker

2020 – Frank Giblin Lifetime
Achievement Award



Fundamental research in the geosciences is a new area of concentration for OU and broadens the kind of education we provide to students.

Initiatives include sustainability and the H2OU faculty cluster.

Disability Research and Rehabilitation Practice



Ed Rohn
SHS
DOD



Christina Papadimitriou
SHS
NIDILRR



Sara Arena
SHS
MI Health
Endowment
Fund



Chris Wilson
SHS
MI Health
Endowment
Fund

Understanding the experience of pain in persons with disabilities and how to address it

Improving care for persons with disordered consciousness and other disabilities



(HOP-UP-PT) Home-based Older Person Upstreaming Prevention Physical Therapy: a program providing early preventative interventions to senior citizens at risk of being homebound

Working to Improve Healthcare Access and Outcomes



Mark Manning
Psychology
NIH R21



Deidre Hurse
OUWB
DHHS

- Addressing disparities in cancer screening among African American men
- Exploring social determinants of health

Nursing Education



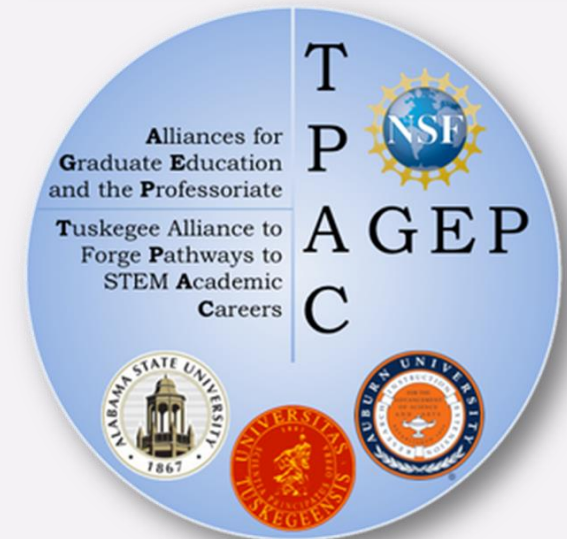
Julie Kruse
Nursing
HRSA

Increasing retention and graduation for nursing students from diverse and/or disadvantaged backgrounds, focusing specifically on racial and ethnic minorities under-represented among practicing RNs.

Working to identify and overcome barriers to minority participation in STEM



Martha Escobar
Psychology
NSF

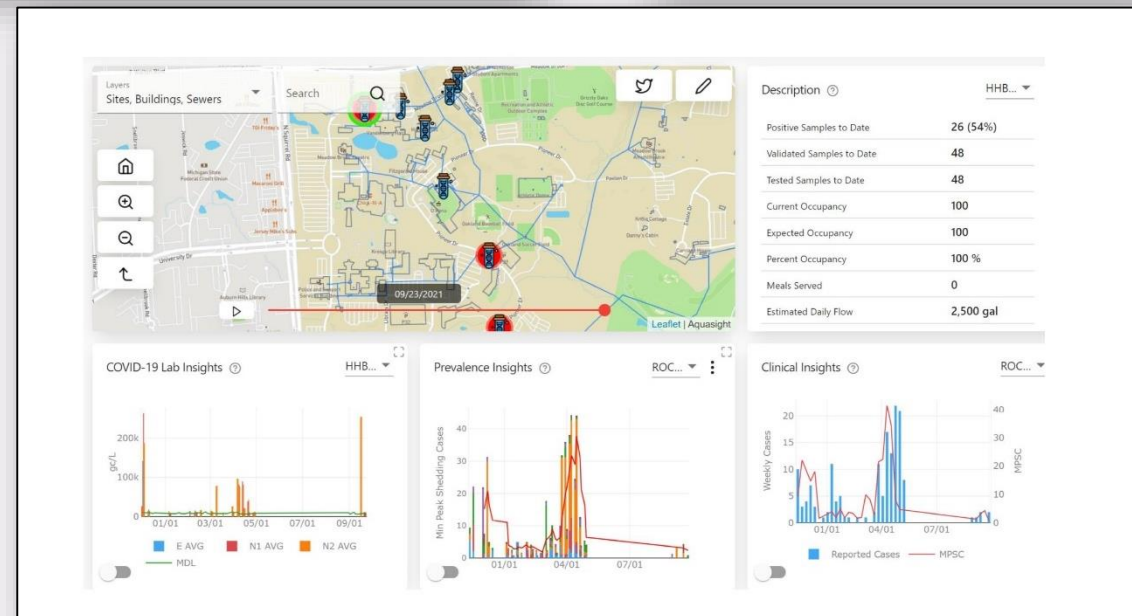


Work Related to COVID

COVID in Wastewater



David Szlag,
Chemistry
State of MI/DHHS



Vaccine Confidence



Nelia Afonso
OUWB
Merck Corporation

Cases among Arab Americans



Florence Dallo
Public & Environmental Wellness
US Dept. of Edu. /
Access

Human-Computer Interaction (Robots, Autism)



Geoff Louie
SECS
NSF, DOD



Michael Kranak
SEHS
*NIH R01 pending

Telehealth



Patti Cameron
Nursing
*NIH pending

Ethical Policing



Jay Meehan
Sociology
SSHRC

New Capacity

1. New **research building: Innovation and Research Center for SECS**
2. MATILDA high-performance **computing cluster**
3. Building on the **new affiliation agreement** with Beaumont and BRI



It Takes a Village

Thanks to:

- Research Office Staff
- The Deans and Chairs

- Departmental Business Officers
- Office of Legal Affairs
- Purchasing Department
- Finance and Administration
- Facilities
- The Provost's Office

- All the Graduate and Undergraduate Students who do so much of the work and the faculty who teach and mentor them
- **PI Academy: Over \$9M in funding after 4 years!!!!**





School of Education and Human Services (SEHS)

Jon Margerum-Leys, Dean

Board of Trustees Presentation – October 10, 2021



Thanks / Introduction



We have an amazing faculty

OAKLAND
UNIVERSITY™



We have an amazing staff

OAKLAND
UNIVERSITY™



An amazing leadership team

Deans



Department Chairs



Directors



And of course, amazing students

- **About 1,700 students**
- **Highest retention and graduation rate of any school on campus**
- **About 60 in the honors college, 14 new this year**
- **Service oriented individuals**



We're breaking down walls



- **Curriculum**
- **Scholarship**
- **Community engagement**
- **SEHS and other schools**

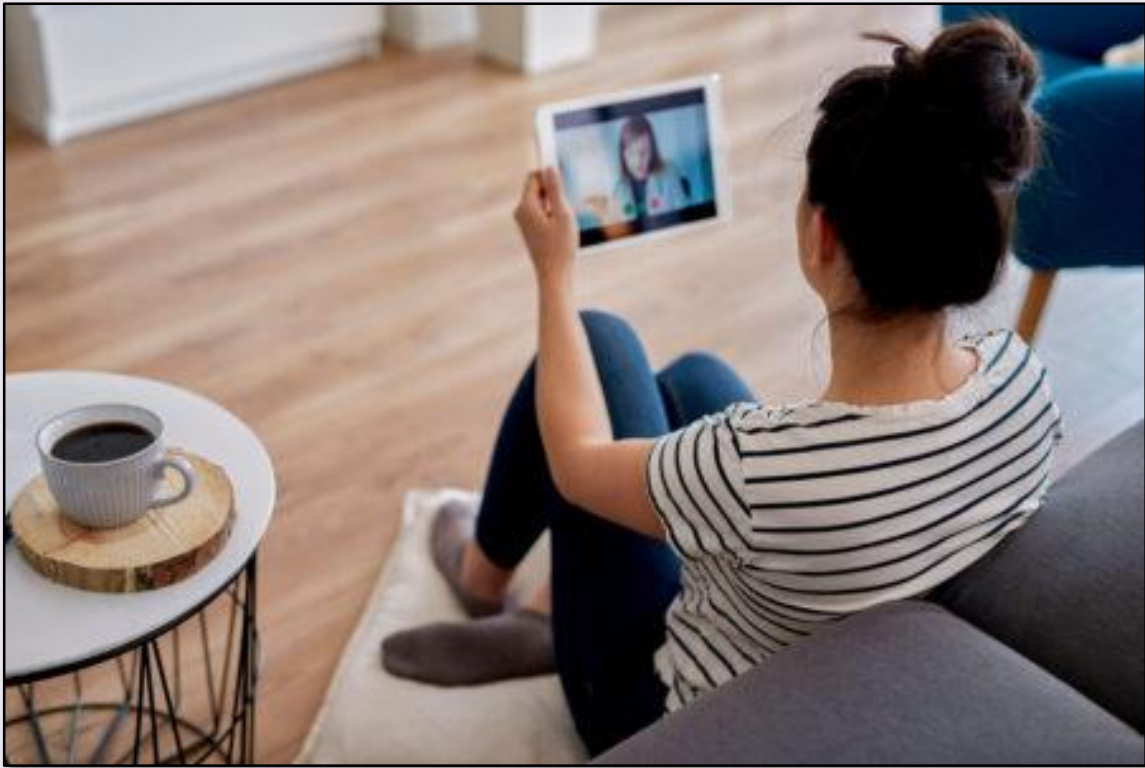
New and coming programs

- Education Doctorate
- Organizational Leadership
- Elementary teacher preparation
- MAT Special Education
- Human Resource Development
- Child/Adolescent Play Therapy



- **Four legs: Outreach, Clinical, Academic, Research**
- **Robotics project**
- **OUCARES**





- **Bringing together teaching and community**
- **Telehealth in a time of pandemic**

And the outcome is ...

- **More than 40 local K-12 school superintendents are Oakland grads**
- **The President of the American Mental Health Counselors is an Oakland Grad**
- **A Human Resources Development grad was Chair of the Board of Trustees ... twice**

COVID response

- Shift to online and remote operation
- Pontiac schools support
- Departmental and business operations
- Advising
- Virtual and remote field experiences
- ABA Clinic, Lowry Center



Increased development



- Leaders in this area
- Scholarship funds increased from \$85K to more than \$130K
- SEHS giving \$283K in 2017; \$438K in 2021. Change of 54%
- Additional endowments
- Resource Development Board

Thanks!

