

## University Research Committee Oakland University

### Annual Report *(Revised)* 2014-2015

**Recipient:** senate@oakland.edu

#### **Charge**

To encourage and promote scholarship, advanced studies, and research among the faculty and staff of the University. The Committee's responsibilities include, in particular, the evaluation of applications for intramural research funds and the allocation of these funds. More generally, they include the protection and development of practices and policies conducive to scholarly activity.

#### **Membership**

- Aigbedo, Henry (SBA) 2013-2015
- Buch, Carrie (SON) 2014-2015
  - (replacing Chris Clason) 2013-2015
- Chavez, Ferman (CAS, Chemistry) 2013-2015
- Cipielewski, Jim (SEHS, Graduate Council Representative) 2014-2015
- Condic, Kris (Library) 2013-2015, Chair
- Goslin, Brian (SHS) 2014-2015
  - (replacing Darlene Groomes (SEHS) 2014-2016)
- Lu, Lunjin (SECS) 2014-2015
  - (replacing Xia Wang (SECS) 2013-2015)
- McGinnis, Deb (CAS, Psychology) 2014-2016
- Nelson, Dorothy (Vice Provost for Research) 2014-2015 ex-officio and non-voting
- Sheridan, Karen (CAS, Theatre) 2014-2016
- Wright, Steve (CAS, Mathematics, Graduate Council Representative) 2014-2015

#### **Workshop**

URC Workshop for Faculty Fellowship Applicants

- Presented by: Dorothy Nelson, Vice Provost for Research
  - September 19, 2014, noon, 1050 Human Health Building
  - In attendance: about 30 faculty members
  - One of the handouts: Checklist for URC Faculty Fellowship Awards
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## Meetings

- September 22, 2014: Charge, budget overview, confidentiality, RAM & Research website, reviewing applications, research misconduct policy – update, first round of student applications – assigning reviewers.
- October 24, 2014: misconduct policy, student applications – Round 1 of 3 (next deadlines are Nov 17, Feb 16; decided to reduce to two deadlines/year), faculty fellowship applications (due Oct 6 – discussion of each application began).
- November 6, 2014 – discussion of faculty fellowship applications continued.
- November 13, 2014 – discussion continued
- November 19, 2014 – discussion continued
- December 1, 2014 – discussion concluded. Decided to fund 27 instead of 26. Deadline extended for Meadow Brook Hall Research Conference Grant Award from November 24 to January 12, 2015.
- Review of Student Research Awards via email; round 2 of 3. Applications were due Nov 17.
- February 3, 2015 – Faculty Research Awards discussion
- February 16, 2015 - Faculty Research Awards discussion
- Review of Student Research Awards via email; round 3 of 3. Applications were due Feb 16.
- April 9, 2015 – Colloquium award, Professor Aigbedo’s proposals (to present a hybrid model for fellowship awards – not supported; concerned that the URC was not awarding fellowship applications in an equitable manner, Professor Aigbedo proposed that information about awards should be compiled by department and distributed. In response, statistics were compiled for the past 11 years. Further discussion is deferred to the next academic year).

## Topics of Discussion

- **Research Excellence Award** – application deadline extended this year from January 26 to February 2 due to lack of applicants. Also, with the extension we opened up the applicant pool so that all OU faculty could apply. In essence, we broke away from this cycle below. As it happens, the winner represented the natural & mathematical sciences. After the award was granted, we discussed retaining this cycle and decided to do so.
    - Professional Schools: 2009-2010, 2012-2013
    - Social Sciences/Humanities: 2010-2011, 2013-2014
    - Natural & Mathematical Sciences: 2011-2012, 2014-2015
  - **Faculty New Investigator Research Excellence Award** – application deadline extended this year from January 26 to February 2.
  - **Student Research Awards** – we received many applications for Student Research
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Awards this year, therefore, we spent a great deal of time evaluating these applications. Additionally, many students applied more than once but we tended to discourage awarding an applicant more than one award per year. A notice may be added to the research website indicating that these awards have become more competitive since past practice illustrated that applicants usually received awards. That is no longer the case.

### Honors

- **Research Excellence Award:** Xiangquin Zeng, Chemistry
- **New Investigator Research Excellence Award:** Lisa Welling, Psychology
- **Meadow Brook Conference Grant:** Jackie Wiggins, Music, *21<sup>st</sup> Century Arts and Arts Education: Creativity, Diversity, and Integration*
- **President's Colloquium:** Mark Navin, Philosophy, *Values and Vaccine Refusal: Engaging the Issues behind Contemporary Debates.*

### Membership for 2015-2016

The URC continuing members are:

- Deb McGinnis, Psychology (Chair, 2015-2016), and
- Karen Sheridan, Theatre

### In Appreciation

A heartfelt "thank you" goes out to Sue Willner, Office of Research Administration, for her support, assistance, and encouragement throughout the academic year!

Respectfully submitted by:

Kris Condic, Library  
URC Chair, 2014-2015  
July 2, 2015

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# UNIVERSITY RESEARCH COMMITTEE

## Award Summary - FY2015

July 1, 2014 – June 30, 2015

Applications	Approved	Denied	Total
Faculty Research Fellowship Award	27	27	54
Faculty Research Award	16	1	17
Meadow Brook Hall Conference	1	0	1
Student Travel Award	49	29	78
Student Research Award	3	3	6
Faculty Books and Reprints	4	0	4
President Colloquium Series	1	9	10
Faculty Research Excellence Award	1	4	5
New Investigator Research Excellence Award	1	3	4
<b>Total Applications</b>	<b>103</b>	<b>76</b>	<b>179</b>

## URC Funding

Carryover from FY2014	\$ 14,597
Faculty Budget Allocation	305,000
Student Budget Allocation	4,000
Expired Awards	2,899
<b>Total Budget</b>	<b>\$ 326,496</b>
Faculty Research Fellowship Award	\$ 269,026
Stipend Fringe	5,805
Faculty Research Award	19,200
Meadow Brook Hall Conference	3,000
Faculty Books and Reprints	995
President Colloquium Series	-
Faculty Research Excellence Award	-
New Investigator Research Excellence Award	-
Student Research Award	865
Student Travel Award	19,276
<b>Total URC Awards</b>	<b>\$ 318,167</b>
<b>Carryover to FY2016</b>	<b>\$ 8,329</b>

Faculty Fellowship Awards		
<b>Nicole Asmussen</b> Political Science	Amending Activity and the Shifting Dimensions of Partisan Conflict in the Post-Reform Congress	10,000
<b>Fabia Battistuzzi</b> Biological Sciences	Beyond Fossils: Optimizing Molecular Clock Calibrations for Large Microbial Datasets	10,000
<b>Miles Brown</b> Music, Theatre, & Dance	Miles Brown's Middle Game CD Recording	10,000
<b>Aycil Cesmelioglu</b> Mathematics & Statistics	Understanding Blood Artery Interaction: A Numerical Study	10,000
<b>Jeffrey Chapman</b> English	Exile: A Graphic Novel	10,000
<b>Shravan Chintala</b> Eye Research Institute	Role of CREB and DREAM proteins in the death of retinal ganglion cells in Glaucoma	10,000
<b>Erin Dwyer</b> History	A Proposal to Fund Research for a Second Book Project on Slavery and Poison in the United States and the Caribbean	10,000
<b>Todd Estes</b> History	The Length of Their Shadows: Federalist Funerals, Commemoration, and Partisanship in the Early American Republic	10,000
<b>Matthew Fails</b> Political Science	The Curse of Oil: Why Cheap Gasoline is Good for Dictators but Bad for Citizens, the Economy, and the Environment	10,000
<b>Rebekah Farrugia</b> Communication & Journalism	(A) Pure Girl Meets Mic Against All Odds: The Power and Production of Socially Conscious Rap Music in Detroit	10,000
<b>Stephen Goody</b> Art and Art History	The Transitional Article: Meta-Forms, and Synthesis in the Millennial Object	9,148
<b>Wendi Johnson</b> Sociology & Anthropology	Parental Influence on Stability and Change of Children's Antisocial Behavior Across Adolescence and Young Adulthood	10,000
<b>Ali Woerner, Thayer Jonutz</b> Music, Theatre, & Dance	Disorder to Order: Take Root and the Gwang Jin International Summer Dance Festival	10,000
<b>Evgeniy Khain</b> Physics	Evolution of Cell Size Distributions in Expanding Dense Cell Cultures	10,000
<b>Heidi Lyons</b> Sociology & Anthropology	Casual Sex and Condom Use During Emerging and Older Adulthood	10,000
<b>Khalid Mahmood</b> Computer Science and Engineering	Bridging the Semantic Communication Gap Between Physicians and Electronic Medical Records through Semantic Web and Wearable Computing Technologies	10,000
<b>Melissa McDonald</b> Psychology	Menstrual Cycle Shifts in Women's Mating Preferences: Extensions to Intergroup Dating	10,000
<b>Daniel L Obregon</b> Electrical and Computer Engineering	Self-Reconfigurable Architectures for the Next-Generation Video Compression Standard: HEVC (High Efficiency Video Coding)	9,878
<b>Maria Paino</b> Sociology & Anthropology	Academic Achievement in Michigan Charter Schools: 1994-2013	10,000
<b>Lakshmi Raman</b> Psychology	Children's and Adults' Recognition of the Role of Parentage, Nutrition, and Physical Activities on Height and Weight.	10,000
<b>Elizabeth Shesko</b> History	Conscript Nation: Negotiating Authority and Belonging in the Bolivian Barracks, 1900-1956	10,000
<b>Sally Tardella</b> Art and Art History	Memory Palace	10,000
<b>Nghia Tran</b> Mathematics & Statistics	Full Stability Approach to Augmented Lagrangian Methods in Nonlinear Programming	10,000
<b>Yuejian Wang</b> Physics	Nano Crystalline Semiconductors Under High-Pressure Conditions	10,000
<b>Lisa Welling</b> Psychology	Hormonal Variation and Human Mate Preferences	10,000
<b>Anja Wieden</b> Modern Languages & Literatures	Gendered Investigations of the Holocaust: The Jewish Rape Victim in Postwar German Literature and Film	10,000
<b>Jeff Youngquist</b> Communication & Journalism	The Relationship Between Interruptions, Resisting Topic Changes, and Perceptions of Dominance	10,000
<b>Total Fellowship Awards</b>		<b>\$269,026</b>

<b>Faculty Research Awards</b>		
<b>Claude Baillargeon</b> Art and Art History	Nuclear Representations of the Nevada Test Site	1,200
<b>Anica Bowe</b> Teacher Devlp and Educ Stud	Instrument Development: Needs Assessment Tool for Health Related Topics for the Parents at Alcott Elementary school, Pontiac MI	1,200
<b>Cynthia Carver</b> Education and Human Services	Teacher Leadership by Design	1,200
<b>Myung Choi</b> Exercise Science	Natural Products, Inflammation and Fat Metabolism in Humans	1,200
<b>Drake Dantzer</b> Music, Theatre and Dance	Advanced Role Study: Britten and Bernstein	1,200
<b>Claudia Grobbel</b> Nursing	Using High Fidelity Simulation to Improve Competencies in Leadership, Quality Care and Caring Practice for Undergraduate Nursing Students: A Pilot Project	1,200
<b>Mary Hartson</b> Modern Languages and Literatures	Casting Spanish Masculinity in a Consumer Age	1,200
<b>Lynnae Lehfeltd</b> Music, Theatre and Dance	Experiencing Speech	1,200
<b>Susanah Lily Mendoza</b> Communication and Journalism	Grounding Multicultural Communication in Reflexive Self-Exploration: Ethnoautobiography as Transformative Practice	1,200
<b>James Naus</b> History	Royal Ideology and the Crusades	1,200
<b>Richard Olawoyin</b> Health Sciences	Analysis of Environmental Health Risk Perception and Communication from Directional Drilling and Hydraulic Fracturing from Proxy Communities	1,200
<b>Cheryl Riley-Doucet</b> Nursing	Health Professions Students' Lifelong Learning Orientation: Associations with Self-Assessed Competency in Information Skills	1,200
<b>Galina Tirnanic</b> Art and Art History	Triumphal Gateway of Venice	1,200
<b>Elizabeth Kattner Ulrich</b> Music, Theatre and Dance	From Totenmal to Trend: German Expressionist Choreography and the Development of American Modern Dance.	1,200
<b>Crystal VanKooten</b> Writing and Rhetoric	Collecting Interview Data for a Multimodal Oral History	1,200
<b>Byungwon Woo</b> Political Science	Global-Local Politics of International Monetary Fund Programs: Austerity and Economic Reforms, Domestic Opposition, and the IMF	1,200
<b>Total Faculty Research Awards</b>		<b>\$19,200</b>

<b>Meadow Brook Hall Conference Award</b>		
<b>Jacqueline Wiggins</b> Music, Theatre and Dance	Arts Education Research Conference	<b>\$3,000</b>

<b>Faculty Books and Reports</b>		
<b>Gary McDonald</b> Mathematics and Statistics	An Application of Bayesian Inference on the Modeling and Estimation of Operational Risk using Banking Loss Data, published by Scientific Research Publishing	150
<b>George Milne</b> History	Natchez Country: Indians, Colonists, and the Landscapes of Race in French Louisiana, published by University of Georgia Press	346
<b>Thomas Raffel</b> Biological Sciences	Ecological stoichiometry quantitatively predicts responses of tadpoles to a food quality gradient	200
<b>Justin Remeselnik</b> English	Motion (less) Pictures: The Cinema of Stasis, published by Columbia University Press	299
<b>Total Faculty Book and Report Awards</b>		<b>\$995</b>

<b>Faculty Awards</b> funded by the President and Provost Offices		
<b>Mark Navin</b> Philosophy	President Colloquium Series, Values and Vaccine Refusal, Engaging the Issues behind Contemporary Debates	<b>\$1,000</b>
<b>Lisa Welling</b> Psychology	New Investigator Research Excellence Award, Nominated by Jennifer Vonk	<b>\$1,500</b>
<b>Xiangquin Zeng</b> Chemistry	Research Excellence Award, Nominated by Arthur Bull	<b>\$2,500</b>

<b>Student Awardee</b> Mentor	<b>Student Research Awards</b>	
<b>Taraneh Matloob</b> Linda Pavonetti, Reading and Lang. Arts	Toward Multicultural Narratology: A Narrative Approach to Examine Persian Authenticity in Multicultural Children's Literature	500
<b>Robert Mey</b> Dana Driscoll, Writing and Rhetoric	Assessing Agency in Endometrial Cancer Patients through Social Media	65
<b>Adam Savine</b> Barbara Penprase, Nursing	Driven to Distraction: Individual Differences Modulate How Alarms Impact Nursing Practice	300
<b>Total Student Research Awards</b>		<b>\$865</b>

<b>Student Awardee Mentor</b>	<b>Student Travel Awards</b>	
<b>Daniel Arnold</b> Julia Smith, Organization Leadership	Covarying Characteristics that Affect Outcomes in Online Classes	400
<b>Howard Barrons</b> Scott Tieg, Biological Sciences	The Role of Community-Level Fish Excretion in Nutrient Cycling of Streams along a Land-use Gradient	400
<b>Miranda Belcher</b> Roman Dembinski, Chemistry	Synthesis of Pyrazol-1-yl-benzenesulfonamides	400
<b>Todd Bidlack</b> Eileen Johnson, Organization Leadership	Reflections: How Leaders can Shape a Culture of Thinking	400
<b>Nicholas Bongers</b> Julia Smith, Organization Leadership	Covarying Characteristics that Affect Outcomes in Online Classes	400
<b>Christian Brigolin</b> Shailesh Lal, Biological Sciences	In Vivo and in Vitro Analysis of the Maize RNA Binding Motif Protein 48 Splicing Factor Essential for Seed Development and Plant Viability	400
<b>Alaina Bur</b> Heidi Lyons, Sociology & Anthropology	Presentation of Research Findings at ASA Conference's Undergraduate Honors Program	400
<b>Lauren Caravello</b> Andrea Kozak, Psychology	Is Low Distress Tolerance Linked to Addictive Eating?	400
<b>Rachana Chandran</b> Lan Jiang, Biological Sciences	Novel Smad Protein Dysmorphic Regulates Drosophila Tracheal Tub Size through Luminal Matrix Maintenance	400
<b>Jane Dixon</b> Alan Epstein, Political Science	The Biotech Revolution: Corporate Collusion and Intervention Abroad	400
<b>Marc DuBuis</b> Matthew Fails, Political Science	Natural Resource Wealth and Norm Compliance: Rent Revenues and the Continuity of State Behavior in International Politics	400
<b>Hatem Elgothamy</b> Hoda Zohdy, Electrical & Computer Eng.	Design and Application of an Enhanced GA	400
<b>Stephanie Fields</b> David Szlag, Chemistry	An Active Fluorescence Method for Monitoring the Control of Microcystis Species	400
<b>Laura Gabrion</b> Bong Gee Jang, Writing & Rhetoric	Unifying Feedback: Encouraging Positive Relationships between Students and their Writing	380
<b>Min Guo</b> Xiangqun Zeng, Chemistry	Comparison of Electroreduction of Sulfur Dioxide in Ionic Liquid at Gold and Platinum Electrodes	400
<b>Xiang He</b> Jia Li, Electrical and Comp. Engineering	Presentation of paper "A novel UWB imaging system setup for computer-aided breast cancer diagnosis" in ICUWB conference	400
<b>Xiang He</b> Jia Li, Electrical and Comp. Engineering	WiFi Based Indoor Localization with Adaptive Motion Model Using Smartphone Motion Sensors	400
<b>Dawnelle Henretty</b> John McEaney, Reading & Lang. Arts	Assessing a Grammar of Comics through Constraints Representing Author Intent	400
<b>Lisa Hine</b> Bong Gee Jang, Reading & Lang. Arts	Oral Presentation Entitled "Unifying Feedback: Encouraging Positive Relationships between Students and their Writing."	348
<b>Nicole Jarrett</b> Debra McGinnis, Psychology	Life Event Levels Influence Resilience and Future Time Perspectives in Middle-aged and Older Adults	400
<b>Jennifer Johnson</b> Eileen Johnson, Organizational Leader.	Reflections: How Leaders can Shape a Culture of Thinking	400
<b>Deanna Katto</b> Karen Markel, Psychology	An Examination of Workplace Bullying and Discrimination: Is Discrimination Inherently Bullying?	350
<b>Kendall Kosikowski</b> Matthew Fails, Political Science	Immigration's Impact on the Resource Curse in the Gulf States	400
<b>Spencer Kovar</b> Hongwei Qu, Electrical & Computer Eng.	Mechanism for Measurement of Flow rate of Cerebrospinal Fluid in Hydrocephalus Shunts	400
<b>Courtney Krawczyk</b> Kristine Thompson, Physical Therapy	Combined Sections Meeting Conference	400
<b>Lu Lin</b> Xiangqun Zeng, Chemistry	Gordon Research Conferences - Ionic Liquids	400



<b>Student Awardee Mentor</b>	<b>Student Travel Awards</b>	
<b>Joseph Love</b> David Szlag, Chemistry	Rapid Testing for Beach Water Quality Using qPCR	400
<b>Steven Louis</b> Andrei Slavin, Physics	Magnetism and Magnetic Materials Conference	400
<b>Shannon McPherson</b> Jacqueline Drouin, Health Sciences	A Pre-Operative 5-Meter Walk test as a Predictor of Hospital Length of Stay and Intensive Care Unit Length of Stay in Individuals Following Open Heart Surgery	400
<b>Robert Mey</b> Dana Driscoll, Writing and Rhetoric	Assessing Agency in Endometrial Cancer Patients through Social Media	400
<b>Daniel Mittelstaedt</b> Yang Xia, Physics	Quantification of Glycosaminoglycans in Articular Cartilage by micro Computed Tomography	400
<b>Viktoria Mladenovik</b> Sumi Dinda, Health Sciences	The Effects of Black Cohosh on the Regulation of Estrogen Receptor Alpha in Breast Cancer Cells	400
<b>Justin Mogilski</b> Lisa Welling, Psychology	Polyamory and Monoamory: Alternative Approaches to Pursuing a Strategically Pluralistic Mating Strategy	400
<b>Shaun Moore</b> Julia Smith, Organization Leadership	Covarying Characteristics that Affect Outcomes in Online Classes	400
<b>Linda Murphy</b> Ka C Cheek, Electrical & Computer Eng	The 27th International Conference on Computer Applications in Industry and Engineering	400
<b>Claire Nicolas</b> Lisa Welling, Psychology	Women's Sexual Strategies and Perceptions of their Partners over the Menstrual Cycle	400
<b>Murphy Odea</b> Laila Guessous, Mechanical Engineering	Simulation of Wind Turbine Flow using the Actuator Line Method in NEK5000.	400
<b>Michael Pham</b> Todd Shackelford, Psychology	Development and Initial Validation of the Coalitional Mate Retention Inventory	400
<b>Ashton Prasatek</b> Terri Towner, Political Science	Emergency Legislation: A Case Study of the American Recovery and Reinvestment Act	400
<b>Julie Rains</b> Eileen Johnson, Organization Leadership	Reflections: How Leaders can Shape a Culture of Thinking	400
<b>Susan Schoenherr</b> Roberta Michel, Intergrative Studies	What Hat Fits?	198
<b>Ellen Searle</b> Jennifer Vonk, Psychology	FMRE	400
<b>Mikaela Strech</b> Diana Orces, Political Science	Why Good Environmental Policies Have Failed in the Amazonian Eco-Ecoregion	400
<b>Michael Stubenvoll</b> Mi Hye Song, Biological Sciences	Defining the Role of PP2A-SUR-6 in Centrosome Assembly	400
<b>Poornima Venkat</b> Brad Roth, Physics	Neurorestorative Therapy of Stroke in Type two Diabetes Rats Treated with Human Umbilical Cord Blood Cells.	400
<b>Aundrea Walenski</b> Kanako Taku, Psychology	APA Convention: Cross-Cultural Differences in the Relationships between Hope and Posttraumatic Growth	400
<b>Xinhui Wang</b> Jing Tang, Electrical and Computer Eng.	Improved Myocardial Perfusion PET Imaging with MRI Learned Dictionaries	400
<b>Mary Warren</b> Jacqueline Drouin, Health Sciences	A Pre-Operative 5-Meter Walk test as a Predictor of Hospital Length of Stay and Intensive Care Unit Length of Stay in Individuals Following Open Heart Surgery	400
<b>Nicholas Willis</b> Cristian Cantir, Political Science	Midwest Political Science Association Annual Conference	400
<b>Total Student Travel Awards</b>		<b>\$19,276</b>

