



THE OHIO STATE
UNIVERSITY
COLLEGE OF
EDUCATION AND HUMAN ECOLOGY

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in REVIEW

OFFICE OF RESEARCH NEWSLETTER

FEATURED AWARD

THE OHIO STATE UNIVERSITY PROGRAM IN VISUAL IMPAIRMENTS: PREPARING PERSONNEL TO SERVE SCHOOL-AGE CHILDREN WITH LOW INCIDENCE DISABILITIES

Data from the Ohio State School for the Blind Outreach team show that students with visual impairments in the state of Ohio do not always receive the services they need. From 2005-2010 approximately 70 percent of students with visual impairments were not receiving services due to funding or lack of qualified personnel. The Alternative Pathway Program (APP) at The Ohio State University, implemented in 2004, was developed to help address this issue. The APP allows licensed teachers to add an additional certification as an intervention specialist in visual impairment during one school year while continuing to work full time.

In August of this year, the APP was

awarded a Personnel Preparation grant in Special Education for \$1.25 million from the U.S. Department of Education, Office of Special Education and Rehabilitation Services, Office of Special Education Programs. The grant provides graduate-level tuition, software fees and a small stipend to seven licensed teachers each year for five years in order to obtain an additional licensure as an intervention specialist in visual impairments.

The program accepted the first seven students in the 2013 fall semester. Generally teachers enter the program as either content general education teachers or special education teachers. Adding an intervention specialist licensure makes our scholars more marketable

as they can co-teach, be a teacher of record in multiple core curriculum areas, and provide vision intervention services to students in the district where they are employed.

All coursework required during the school year is delivered online, which increases the pool of possible participants. Scholars are required to attend Saturday class three to four times per semester during the academic year for direct hands-on instruction. Courses that cannot be delivered online are taught during the summer. Student teaching may also take place during the summer. ♥

To learn more about this program, contact Principal Investigator Dr. Tiffany Wild, wild.13@osu.edu.

A MESSAGE FROM OUR DEAN

I was asked recently by a junior faculty member whether our college would still support basic research in the future. My answer was an emphatic yes. The kind of research we support in this college is not divided by any dichotomy of basic versus applied. Rather, all of our work is connected by a common thread, to improve the common good of individuals and our larger society. Our biochemists and bench scientists are not conducting experiments merely for the sake of advancing knowledge;

they are motivated by the deep desire to produce new knowledge and discoveries that contribute to the larger good. Our research in classrooms and other social settings, whether a planned intervention or another form of research, aims to improve the outcomes of teaching and learning or health. But, it is also often to understand basic processes related to teaching, learning and other health outcomes. In fact, in our college there is a great appreciation for all forms of research, all methodologies, all epistemologies,

and all perspectives. I salute all of you engaged in the research enterprise and especially hail those of you bold enough to participate in new and novel research teams. Research is an integral part of what we do, and your work is the life blood of the future, not only for ourselves, but for all. Thank you for your efforts.

Cheryl L. Achterberg
Dean, College of Education and Human Ecology

DISCOVERY THEMES ACROSS OUR COLLEGE

The Discovery Themes are being developed to leverage Ohio State's special strengths to address the technological, social and environmental stresses that define today's global world.

As the nation's largest and most comprehensive public university, Ohio State is focusing an unmatched breadth of expertise on the issues of Health and Wellness, Energy and Environment, and Food Production and Security, grand challenges of the 21st Century. Over the next 10 years, university-wide investment in the Discovery Themes will provide the basis for attracting about 500 research- and teaching-active, tenured/tenure-track faculty working in Discovery Themes areas. These will be individual scholars as well as groups or clusters of faculty in critical areas. Their work will complement the research, teaching, and outreach of existing faculty. Thus, they will spur transformational breakthroughs in our contributions to problem solutions critical to Ohio and the world.

The College of Education and Human Ecology faculty and staff are already doing great work to support the Discovery Themes. The following provides an overview of this work.

Food Production and Security

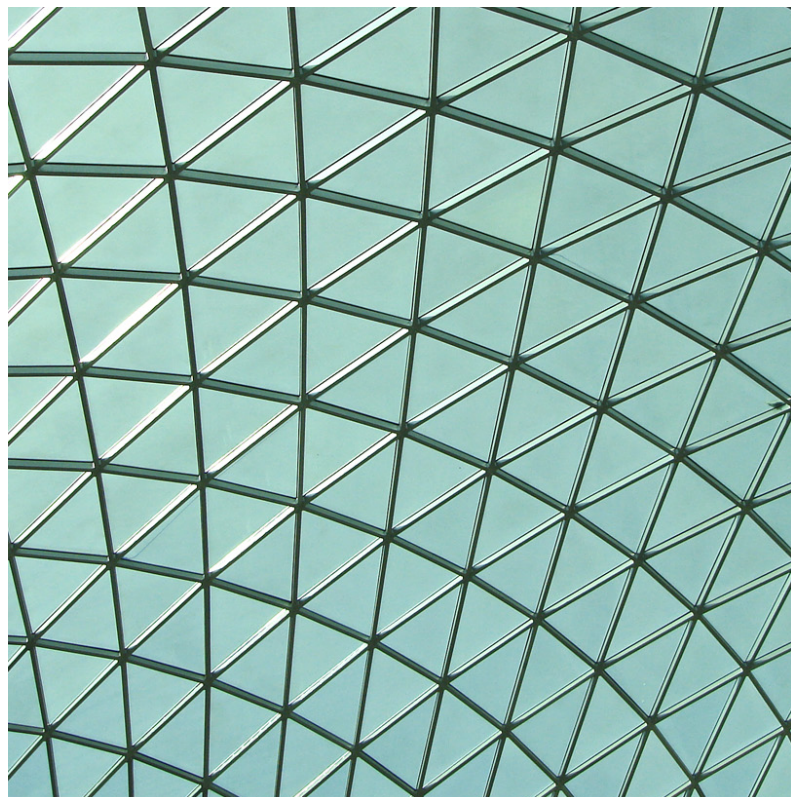
The Discovery Theme for Food Production and Security draws on Ohio State's unique expertise in food, agricultural and environmental sciences as well as the arts and sciences, health sciences, business, law and beyond. Projects will focus on enhancing the quality of food and animal feed and ensuring an adequate, affordable, and safe food supply for a global population. The following projects from faculty and staff in EHE includes the principal investigator, department and title of proposal.

PATRICIA BEBO (OSU Extension/Family and Consumer Sciences), Ohio Family Nutrition Program

CAEZILIA LOIBL (Human Sciences), Connecting saving and food security: Evidence from an asset building program for families in poverty

ROBERT SCHARFF (Human Sciences), An integrated approach to enhance the microbial safety of fresh-cut fruit and vegetable products during processing, packaging and retail distribution

JANE WIECHEL (Schoenbaum Family Center), Child and adult care food program



Energy and Environment

The Discovery Theme for Energy and Environment will create an unprecedented interdisciplinary collaboration of experts spanning the university and touching upon every specialization to fully address issues related to energy and environment. The following projects include the Principal Investigator, department, and title of proposal.

DEAN CRISTOL (Teaching and Learning, OSU Lima), It's about discovery

HUI JIN (Teaching and Learning), Learning progression for carbon-transforming processes

KIMBERLY LIGHTLE (Administration), Beyond weather and the water cycle: An earth systems approach to increasing elementary teachers' understanding of climate and climate change

KIMBERLY LIGHTLE (Administration), Connecting climate science and inquiry in K-6 classrooms

Health and Wellness

The Health and Wellness Discovery Theme focuses on nutrition, social work, health education and public policy and issues such as disease prevention, community health and health systems. The following list of projects from faculty and staff in EHE includes the principal investigator and title of grant projects.

MARTHA BELURY (Human Sciences), Bioavailability and activity of dietary naringenin as a chemopreventive agent

JOSHUA BOMSER (Human Sciences), Anti-inflammatory and anti-oxidant properties of XYZ peptides in human intestinal - Caco2 cells

RICHARD BRUNO (Human Sciences), Vasoprotective activities of low-fat milk in individuals with metabolic syndrome

RICHARD BRUNO (Human Sciences), Cardioprotective synergy of smoking cessation and gamma-Tocopherol in restoring vascular endothelial function

STEVEN DEVOR (Human Sciences), Effects of OxyWater on hydration and affective responses in physically active young adults

ROBERT DISILVESTRO (Human Sciences), Zinc status in the preterm infant: Blood analysis

ROBERT DISILVESTRO (Human Sciences), Comparison of the uptake of two sources of supplemental silicon

ROBERT DISILVESTRO (Human Sciences), Acute and sustained effects of spirulina on fatigue-related measures

ROBERT DISILVESTRO (Human Sciences), Acute effects of FruiteX-B on exercise recovery

MARK FAILLA (Human Sciences), Use of the in vitro coupled digestion and Caco-2 intestinal cell model for assessing the effects of plant genotype and cooking styles of cassava, sweet potato and pumpkin on retention and bioaccessibility of pro-vitamin A carotenoids

MARK FAILLA (Human Sciences), Training competitive nutrition scientists from underrepresented backgrounds in 21st century skills to stem the tide of childhood obesity

BRIAN FOCHT (Human Sciences), Feasibility of an exercise and dietary intervention in men on prolonged ADT

DARCY GRANELLO (Educational Studies), OSU campus suicide prevention program

CAROLYN GUNTHER (Human Sciences), Promoting calcium intake in college students through access to on-campus dairy vending machines

CAROLYN GUNTHER (Human Sciences), Determining the impact of milk vending purchases on milk and calcium intake in college students

EARL HARRISON (Human Sciences), Cleavage products of dietary carotenoids: Occurrence and nutritional function

JULIE KENNEL (Human Sciences), Healthy cycle menu project

JULIE KENNEL (Human Sciences), Smarter lunchroom audits and smarter lunchroom implementation plans

DEAN LILLARD (Human Sciences), Alcohol advertising, drinking and driving: A study of underage youth and adults

DEAN LILLARD (Human Sciences), Cross-national patterns and predictors of life-cycle smoking behavior

HELEN MALONE (Educational Studies), Buckeye behavior analysis services

CARLA MILLER (Human Sciences), (ARRA) Mindfulness-based approach to the treatment of obesity and diabetes

CARLA MILLER (Human Sciences), Evaluation of a lifestyle intervention for employees with prediabetes

NANCY NEEF (Educational Studies), Buckeye behavior analysis services

NANCY NEEF (Educational Studies), Buckeye behavior analysis services partnership with Columbus City Schools

NATASHA SLESNICK (Human Sciences), Evaluation of treatments for homeless youth: CRA, MET and case management

NATASHA SLESNICK (Human Sciences), Stage 1 treatment development with homeless mothers and their 2- to 6-year-old children

NATASHA SLESNICK (Human Sciences), OSU STAR House: Engagement and stabilization services for homeless youth in Central Ohio

NATASHA SLESNICK (Human Sciences), Reaching non-system connected, substance-abusing homeless youth

NATASHA SLESNICK (Human Sciences), Adolescent involvement in parental substance abuse treatment: Evaluation of EBFT

DEANNA WILKINSON (Human Sciences), Anti-gun initiative

OULIANA ZIOUZENKOVA (Human Sciences), Encapsulated engineered cells for obesity treatment



2014 EHE FUNDED SEED GRANTS

The objective of this year's program was to encourage creative and synergistic scholarship between one junior-level tenure-track, untenured EHE faculty member who is mentored by at least one senior-level EHE faculty member.

The seed grants provide funding for research teams to collect preliminary data and prepare a competitive research proposal for submission to a federal agency or major foundation to secure funds for continuation of the research. The funding period runs from January 1 to December 31, 2014.

PROPOSAL TITLE: A preschool-based telehealth intervention teaching parents how to improve the communication and engagement of toddlers with autism

Junior PI: KATHY LAWTON, Educational Studies (lawton.18@osu.edu)

Senior PI: LAURA JUSTICE; Co-PIs: JANE CASE-SMITH and ANDREA WITWER

This pilot project will determine the extent to which a manualized intervention is efficacious, feasible and socially valid for parental use with toddlers who have Autism Spectrum Disorder (ASD) deficits.

PROPOSAL TITLE: Documenting emergent bilinguals' educational resources (DEBER) across elementary school and home contexts: A pilot study and mentoring partnership

Junior PI: SARAH GALLO, Teaching and Learning (gallo.85@osu.edu)

Senior PI: MILEIDIS GORT

The study will use ethnographic and discourse analytic methods to document emergent bilinguals' (EBs) complex language and learning resources across elementary school and home contexts in Columbus, the state's capital and largest city and home to a growing number of EBs.

PROPOSAL TITLE: Enhancing positive interactions between depressed mothers and their young children: A pilot intervention targeting emotional exchange

Junior PI: XIN FENG, Human Sciences (feng.88@osu.edu)

Senior PI: NATASHA SLESNICK; Co-PI: EMMA HOOPER

The goal of this study is to develop and evaluate a family therapy-based intervention aimed at improving the emotional exchanges between depressed mothers and their young children.

PROPOSAL TITLE: Effect of omega-3 fatty acids and dietary sucrose on chemotherapy-induced neuroinflammation and cognitive symptoms

Junior PI: TONYA ORCHARD, Human Sciences (orchard.6@osu.edu)

Senior PI: MARTHA BELURY; Co-PIs: A. COURTNEY DEVRIES and MARYAM LUSTBERG

This study will examine the inflammation in the brain and blood of mice that are fed diets that contain low or high amounts of table sugar and no or high amounts of specific omega-3 fatty acids. Results of this study could be an important first step toward developing effective dietary strategies for prevention of side effects related to chemotherapy in breast cancer patients.

UPCOMING EVENTS

SAVE THE DATES

RESEARCH ROUNDTABLE
ON SURVEY DEVELOPMENT
& INTRO TO QUALTRICS

February 26, 2014
College Commons, 10AM

POWER ANALYSIS 101
March 21, 2014
College Commons, 10AM

INSIDER'S PERSPECTIVES
OF FEDERAL FUNDING
OPPORTUNITIES
April 11, 2014
College Commons, 10AM

Look for registration
information to come in the
EHE News!

For additional
information on how to
apply for EHE internal
funding opportunities,
please visit
go.osu.edu/ORfunding.

OSU EXTENSION: YOUR TICKET TO DISCOVERY

The Ohio State University Extension's Family and Consumer Sciences program is about creating better lives and stronger communities. This is done by translating research into practical application.

The 173 Family and Consumer Sciences faculty and staff focus on three areas: healthy people, healthy finances and healthy relationship, as they connect the university to local communities. We work as teams of state specialists, (Department of Human Sciences faculty), field specialists (faculty in the Department of Extension with adjunct status in Human Sciences or Public Health), county-based educators and program specialists (faculty or A&P staff), program assistants and community partners to conduct research and develop and implement community -based curriculum.

Nutrition education has been the backbone of our work for healthy people for decades. Childhood obesity is a major focus today. Faculty-designed community nutrition programs teach and change family and individual choices. Three multimillion dollar multistate Agriculture and Food Research Institute grants in childhood obesity and food

security are helping us better understand these issues.

Food safety is in high demand. From food service employees and managers to the growing interest in local foods, there is an explosion of participants in food preservation and food safety programs in urban and rural counties.

Family and Consumer Sciences faculty teach nutrition, food buying and food safety skills to low-income Ohioans. The SNAP Ed and Expanded Food and Nutrition Education Program (EFNEP) reach families in over 70 of Ohio's 88 counties.

Empowering families to manage their finances healthfully is another pillar of our work. We teach financial lessons in schools and teach families about saving money effectively, making smart home buying decisions, and how to grapple with debt or bankruptcy. With the energy boom in Ohio, we are studying issues impacted by changing family wealth.

Co-parenting classes show divorcing parents how to work together to achieve the best possible outcome for their children. Parenting, child development, fathering, grandfathering are just some of our healthy relationship programs. With new partnerships across campus, we are implementing workshops on mindfulness.

Interested in partnering with OSU Extension colleagues? Visit the fcs.osu.edu website to see the types of Family and Consumer Sciences programs primed for collaboration. Have a research idea or results to share? OSU Extension has direct access to Ohioans all across the state, and a reputation of trustworthy programming that is waiting for innovation and partnership. Let's impact Ohio together!♥

Contact Dr. Karen Bruns, assistant director, OSU Extension Family and Consumer Sciences, 381 Campbell Hall, bruns.1@osu.edu or 614-292-9613.

POSTDOCTORAL FELLOW ACHIEVEMENTS

JACLYN M. DYNIA (Crane Center), served as a consultant for The Ohio Child Care Resource and Referral Association and Learn4life. Recent publications include "Shared-reading Volume in Early Childhood Special Education Classrooms" in press in Reading Psychology and "Text Features and Preschool Teachers' Use of Print Referencing" published in the Journal of Research in Reading.

EUNICE MAH (Human Sciences), was the grand prize winner of the 2013 Post-Doctoral Research Award Competition of the American Society of Nutrition. Recent co-authored publications include "γ-Tocopherol-rich Supplementation Additively Improves Vascular Endothelial Function During Smoking Cessation" in Free Radical Biology & Medicine and "Low-fat Milk Ingestion Prevents Postprandial Hyperglycemia-mediated Impairments in Vascular Endothelial Function in Obese Individuals with Metabolic Syndrome" in the Journal of Nutrition.

SUNNY MUNN (Educational Studies and OERC), had an article entitled "Unveiling the Work-Life System: The Influence of Work-Life Balance on Meaningful Work" published in Advances in Developing Human Resources.

JENNIFER RIGGIE (Crane Center), provided coaching to Early Head Start educators and was honored with the Volunteer of the Year Award by Kids Incorporated of the Big Bend. Jennifer presented her dissertation research findings at the Division of Early Childhood of the Council for Exceptional Children's annual conference in San Francisco, CA. In October, Jennifer co-authored a literature review titled "Supporting Individuals with Fetal Alcohol Spectrum Disorders: A Summary of Effective Practices" published in Physical Disabilities: Education and Related Services.

AWARDS AWARDS AWARDS

The following individuals received EHE Travel Grants for travel related to conference presentations.

GRADUATE STUDENT TRAVEL AWARDS

EDUCATIONAL STUDIES

Zak Foste, Royel Johnson, Joseph Kitchen, Shiang-Yu Lin, Lauren Porter, Tricia Shalka, Derrick Tillman-Kelly

TEACHING AND LEARNING

Cathy Brant, Moonsun Choi, Rong Cong, Ashley Dallacqua, Robert Drewry, Tati Durriyah, Brent Goff, Jason Harshman, Heejeong Kang, Hwewon Kim, Leroy Long, Kimberly Murphy, Mandy Smith, Jennifer Vanderheide, Larkin Weyand, Pingping Zhang

FACULTY INTERNATIONAL TRAVEL AWARDS

Brian Edminston, Teaching and Learning

POSTDOCTORAL TRAVEL AWARDS

Kelly Schussler and Sherine Tambyraja, Crane Center for Early Childhood (CCEC)

All travel grants were awarded in October 2013.

For additional information on how to apply for travel awards, please visit go.osu.edu/ORfunding.

W E L C O M E N E W F A C U L T Y

The College of Education and Human Ecology's three departments have welcomed 15 new faculty members.

Department of Educational Studies:

CHRISTOPHER WOLTERS, Professor and Director of the Dennis Learning Center.
Interests: Self-regulated learning models

SHIRLEY L. YU, Associate Professor.
Interests: Relationship of self-regulated learning to achievement in STEM

MARC JOHNSTON, Assistant Professor.
Interests: Social identity, equity and social justice in higher education

Department of Human Sciences:

SANJA ILIC, Assistant Professor and OSU Extension State Specialist in Food Safety.
Interests: Microbial food safety of fresh vegetables

TONYA ORCHARD, Assistant Professor.
Interests: Polyunsaturated fatty acids and musculoskeletal diseases

KEELEY PRATT, Assistant Professor.
Interests: Family-based pediatric obesity and diabetes treatment; parent and family factors that contribute to or are modifiable in childhood obesity treatment

MICHAEL BETZ, Assistant Professor and OSU Extension State Specialist, Family Policy/ Decision Making. Interests: Ohio's Appalachia family policy issues

JEN WONG, Assistant Professor.
Interests: Daily stress processes; employment and work-family processes; daily well-being and physical health; biomarkers of health (e.g., cortisol).

Department of Teaching and Learning:

MICHELLE ABATE, Associate Professor.
Interests: Children's and adolescent literature, LGBTQ studies, women's studies and gender studies, U.S. literature and culture

MILEIDIS GORT, Associate Professor.
Interests: Bilingual language acquisition in early childhood and emergent bilingual writing development

YOUNGJOO YI, Associate Professor.
Interests: Multilingual learners, Asian students, immigrant students, foreign language pedagogy

SARAH GALLO, Assistant Professor.
Interests: Bilingual/biliteracy education, elementary education, family/school involvement, Mexican immigrant fathers, urban education

MINDI RHOADES, Assistant Professor.
Interests: Multimodal critical literacies; active and arts-based pedagogies; interdisciplinary arts integration; digital media and visual culture; science, technology, engineering, arts and math (STEAM); equity and diversity in education

TIMOTHY SAN PEDRO, Assistant Professor.
Interests: Native American urban education, Native American adolescent literacies, equity and praxis

FRANCIS TROYAN, Assistant Professor.
Interests: Foreign language education; language assessment; functional linguistics

More information on the new faculty can be found at go.osu.edu/EHENewFaculty2013.

NEW AWARDS

Faculty and staff in the college received 20 new awards between July 1, 2013, through October 31, 2013. The anticipated total award amount for all 20 awards is \$6,314,368. For additional information on these and previous awards, go to ehe.osu.edu/research/awards/.

PI/Co-I	Department	Sponsor Name
BLOOME, DAVID M.	Teaching and Learning	National Writing Project Corp. (The John D. & Catherine T. MacArthur Foundation)
BRUNO, RICHARD	Human Sciences	University of Connecticut (Dairy Research Institute)
DING, LIN; Heckler, Andrew	Teaching and Learning	National Science Foundation
DISILVESTRO, ROBERT A.; Swain, Carmen B.	Human Sciences	Applied BioClinical, Inc.
DISILVESTRO, ROBERT ARNOLD; Devor, Steven Thomas	Human Sciences	FutureCueticals
DISILVESTRO, ROBERT ARNOLD; Devor, Steven Thomas	Human Sciences	Cyanotech Corporation
GABBE, PATRICIA	Weinland Park Lab School	Ohio Governor's Office for Faith-Based & Community Initiatives
GIMBERT, BELINDA G; Mahlman, Robert Alan	CETE	Ohio Department of Education
JUSTICE, LAURA M; O'Connell, Ann A.	Teaching and Learning	W.K. Kellogg Foundation
LOADMAN, WILLIAM EARL	Educational Studies	Ohio Department of Education
LUTHY, NICOLE; Justice, Laura M; Ross, Melissa Camille	Ohio Resource Center	Ohio Child Care Resource and Referral Assoc
MAHLMAN, ROBERT ALAN	CETE	Ohio Department of Education
MAHLMAN, ROBERT; Lepicki, Traci L.	CETE	Ohio Board of Regents
MALONE, HELEN I	Educational Studies	National Institute on Disability and Rehabilitation
ROSS, MELISSA; Mahlman, Robert	CETE	Athens-Meigs Educational Service Center
SLESNICK, NATASHA	Human Sciences	Ohio Department of Mental Health
WIECHEL, JANE MARIE	Schoenbaum Family Center	Ohio Child Care Resource and Referral Assoc
WILD, TIFFANY ANN	Teaching and Learning	US Department of Education
ZIOUZENKOVA, OULIANA	Human Sciences	Novo Nordisk Pharmaceuticals
ZIRKLE, CHRISTOPHER J	CETE	Ohio Department of Education

CONGRATULATIONS FACULTY

Promoted to professor

Teaching and Learning

Mollie Blackburn
Diana Erchick (OSU Newark)
Laurie Katz
Valerie Kinloch

Educational Studies

Lynley Anderman
Susan Jones

Promoted to associate professor with tenure

Human Sciences

Cynthia Buettner

Teaching and Learning

Young Ah Lee (OSU Lima)
Leslie Moore

EHE CENTERS

DLC and IDEAS are just of two of the EHE Centers. Read about the work of EHE's other centers and how you can collaborate with CETE, the Crane Center, ORC, and the Schoenbaum Family Center in the last issue of the EHE Office of Research newsletter – go.osu.edu/EHENewsletterFall2013.

THE DENNIS LEARNING CENTER

The Walter E. Dennis Learning Center (DLC) is operated through the Department of Educational Studies and supported, in part, through a generous 2005 endowment from the Dennis family. Located within the Younkin Success Center on Neil Avenue, the mission of the DLC is to provide Ohio State students of all backgrounds and academic levels with strategies for success that will enable them to enter, excel in and complete programs of postsecondary education.

DLC is hoping to partner with faculty and students from EHE in order to expand its role as a context for conducting research that adds to the understanding of college students' motivation and self-regulated learning, including how these processes can be improved through instruction, and how they impact students' engagement, achievement, retention and graduation. More information about the DLC can be found at dennislearningcenter.osu.edu or by contacting Christopher Wolters (wolters.21@osu.edu), who began serving as its director in August 2013.

IDEAS

This year marked the launch of a new unit, the Center for Inclusion, Diversity and Academic Success (IDEAS), located within the college in 163 Arps Hall. The Center for IDEAS specializes in providing national and local support for fostering inclusion, promoting diversity and ensuring academic success for all students, faculty and staff at Ohio State and beyond through research, outreach and advocacy.

There are many ways to get involved with the Center for IDEAS, and we welcome opportunities for collaboration, especially with partnerships focusing on college completion, precollege programs, student identity and those adversely affected by socioeconomic disadvantages in K-12 or higher education. For more information, contact Center for IDEAS Director Terrell Strayhorn at ideas@osu.edu or strayhorn.3@osu.edu or (614) 292-1936 or visit the website at ideas.ehe.osu.edu.

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OERC

The Ohio Education Research Center (OERC), a collaboration of Ohio-based researchers, thrives on a dynamic cycle of research and practice where the needs of education stakeholders drive the statewide, preschool-through-workforce research agenda and high-quality research has a rapid impact upon practice in the field. A few topics include teacher supply and demand, student growth measures, early childhood education, teacher preparation, and STEM education. Take note of the Ohio Longitudinal Data Archive (OLDA), the OERC's repository of administrative records from Ohio's workforce and education agencies; research products; and the OERC Learning Network, an online resource library and discussion space for trending education topics. For collaboration opportunities contact Sunny Munn, OERC Project Manager at munn.12@osu.edu. To learn more visit oerc.osu.edu.