



THE OHIO STATE  
UNIVERSITY  
COLLEGE OF  
EDUCATION AND HUMAN ECOLOGY

VOLUME: 2

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2014

# *in* REVIEW

OFFICE OF RESEARCH NEWSLETTER

## FEATURED AWARD

### GREEN TEA FOR LIVER HEALTH

BY RICHARD BRUNO, PHD, RD; PRINCIPAL INVESTIGATOR



Did you know that, besides water, tea is the most abundantly consumed beverage in the world? Although anecdotal reports suggest diverse

health benefits of green tea against obesity, very little research has been conducted to understand its antioxidant and anti-inflammatory activities in protecting against nonalcoholic steatohepatitis (NASH), a silent but potentially life-threatening liver disease strongly linked to obesity that may afflict 70 million Americans.

Earlier this year, my colleagues and I were awarded a \$450K USDA grant to expand my seminal work in obese rodents showing that green tea protects against obesity-induced NASH by blocking fat accumulation in the liver and by decreasing inflammatory responses that cause liver injury. The current project, which will support the training of an OSU Nutrition Program doctoral student to learn biochemical and molecular biology techniques, is aimed at understanding how green tea exerts these potent health benefits. Our lab will be examining cellular responses by which green tea protects against NASH

through Nrf2, a cytoprotective protein that enhances antioxidant defenses. Answers are also sought to explain whether green tea reduces inflammation by preventing free radical formation inside the liver or by inhibiting the activation of receptors on liver's surface that activate NFkB, a protein regarded as the master regulator of inflammation.

This work is anticipated to provide the foundational basis for future clinical trials in humans at high risk for NASH and could also foster novel dietary strategies that lower inflammatory stress, thereby improving the nation's nutrition and health. Also contributing to this work are Josh Bomser (co-PI; EHE, Human Sciences), a molecular nutritionist, and Jose Manautou (co-PI; University of Connecticut), a biochemical toxicologist. ♥

Richard Bruno, Associate Professor of Human Nutrition, Department of Human Sciences, is a bionutritionist and registered dietitian with expertise in the areas of phytochemical and antioxidant utilization and metabolism in relation to free radical-mediated toxicology.

For more information about Richard Bruno's research or volunteer opportunities, please contact Richard at [bruno.27@osu.edu](mailto:bruno.27@osu.edu) or (614) 292-5522.

### A MESSAGE FROM OUR ASSOCIATE DEAN

There was lots of excitement at this year's EHE Student Research Forum held February 7 at the Ohio Union. Over 100 graduate and undergraduate students presented their research. I'm not sure what was the most fun for me, mingling with our impressive array of budding scholars, or giving the keynote at the luncheon on the importance of research experiences.

The talk began with my research experiences as a student. This led to the following tips:

- 1) ALWAYS be involved in at least one research project;
- 2) take as many research methods courses as possible;
- 3) seek out interdisciplinary research opportunities;
- 4) find the top journals, professional associations and conferences;
- 5) seek out the best mentor(s) and work closely with them;
- 6) show your professors your research interests; and
- 7) find available research resources.

This led to my 24-hour challenge to the students: Volunteer your research services for free to your advisor or mentor. Special thanks for this outstanding event go to the student planning committees and to my great staff.

Richard Lomax  
Associate Dean for Research and Graduate Studies



2014 Keynote Speaker Richard Lomax



## DEPARTMENT OF EDUCATIONAL STUDIES

### ORAL PRESENTATIONS:

**Amanda Baker** (L. Anderman). Investigating The Links Between Expectancies, Values, And Achievement In Higher Education

**Lauren Bailes** (Allen). Mindfulness, and Citizenship: A Complex Path To Effectiveness

**Jessica Bennett & Morris Council** (Gardner). Effects Of Computer-Assisted, Culturally Relevant, Repeated Reading Intervention On Oral Reading Fluency Of Students At-Risk For Reading Failure

**Hollie Byrum** (Malone). Effects Of Reinforcer Quality On Pre-Academic Skill Acquisition With Students With Significant Disabilities

**Ahran Koo** (Hutzel). Art Education For Underprivileged People

**Leah D. Morgan** (Wolters). The Impact Of A Summer Bridge Program On Nontraditional Student Development

**Narmada Paul** (Glassman). Relationship Between Reactive/Generative Self efficacy And Internet Anxiety: A Concern For Educators In The Internet Age?

**Lauren Porter** (O'connell). Examination Of Variability In Educator Access To Early Childhood Professional Development



Susan Mauck.



From Left: Morris Council, Jessica Bennett, Hollie Byrum, Mary Sawyer and Marnie Shapiro.

**Megan Sanders** (Warnick). Evaluating Teacher Preparation Programs: An Interdisciplinary Approach

**Mary Sawyer** (Morgan). The Effects Of Training And Coaching On Treatment Fidelity Of Evidence-Based Practices In A Special Education Classroom

**Marnie Shapiro** (Neef). How Can We Maximize A Supervisor's Efficiency?

### POSTER PRESENTATIONS:

**Jessica Bennett & Gleides Lopes-Rizzi** (Gardner). Deaf And Hard Of Hearing Students' Through-The-Air English Skills: A Review Of Formal Assessments

**Susan Mauck** (Lomax). Assessing The Dimensionality Of The Observation Survey Of Early Literacy Achievement

**Menglin Xu** (D'Agostino). Effects Of Reading Time On Reading Achievement Among US Teenagers: Evidence From Pisa 2009

**Gloria Yeomans-Maldonado** (O'Connell). Effect Sizes In A Single-Level And Multilevel Context

## UPCOMING EVENTS

### WORKSHOPS:

INTRODUCTION TO  
OFFICE OF RESEARCH  
SERVICES

September 18, 2014  
College Commons, 1:00PM

MENTORING GRADUATE  
STUDENTS

October 16, 2014  
College Commons, 10:00AM

### DEADLINES:

ALL TRAVEL GRANT  
APPLICATIONS DUE  
JUNE 1, 2014

Graduate Student Travel  
Grants  
Postdoctoral Travel Grants  
Faculty International Travel  
Grants

To apply, go to  
[go.osu.edu/ORfunding](http://go.osu.edu/ORfunding)

Students from across the College of Education and Human Ecology shared their research during the 2014 Student Research Forum. Over 100 students shared 97 posters and oral presentations highlighting their work. On pages 2-5, we have listed each presenter's name (and their advisor's last name in parentheses) and their presentation title. You can find additional information including photos and abstracts on our website at [u.osu.edu/ehestudentresearch](http://u.osu.edu/ehestudentresearch).

## DEPARTMENT OF HUMAN SCIENCES

### ORAL PRESENTATIONS:

**Lauren Altenburger** (Schoppe-Sullivan). Contributions Of Coparenting And Infant Temperament To Toddler Socioemotional Functioning

**Su Yun Bae** (Rudd). American Apparel, Sweating Or Sweatshop-Free? Sexual Objectification And Ethical Judgment Of Consumers

**David DiSilvestro** (Ziouzenkova). The Effect Of Thermogenic And Appetite Suppressing Capsules On Mice Fed A High Fat Diet

**Shaina Ervin** (Pastore). Exploring Organizational Climate And College Coaches' Intent To Leave The Profession: A Human Resource Development Perspective

**Justin Haegele** (Porretta). Validation Of A Talking Pedometer For Adolescents With Visual Impairments

**Megan Parietti** (Pastore). Parental Influence On Student-Athletes' Academic And Athletic Behaviors

**Stuart Heckman** (Montalto). How Much Are Students Willing To Borrow For A College Degree?

**Travis P. Mountain** (Hanna). Assessing The Impact Of Financial Disclosure Forms On The Mortgage Selection Process

**Eunice Hong** (Hanna). Alternative Estimates Of Spending To Assess Emergency Fund Adequacy Using The Survey Of Consumer Finances

**Emma Hooper** (Feng). Different Types Of

Mothers: Identifying Maternal Profiles In Relations To Child Outcomes

**Bohyun Jang** (Snyder). Mobility Of Emerging Adults: A Cohort Comparison Of College Graduates' And Noncollege Graduates' Moving Experiences

**Jia-Yu Ke** (Belury). Naringenin Decreases Food Intake, Body Weight, Body Fat, And Hepatic Lipid Accumulation In Ovariectomized Female Mice

**Emby Miller** (Wilkinson). Education In Peril: A Comparative Case Study Of Black Male Dropouts And Graduates

**Sin Nee Ng** (Kennel). The Association Of Vitamin D Dietary Intake And Type 2 Diabetes Among African Americans In Central Ohio

**Su Hyun Shin** (Hanna). Racial/Ethnic Difference In Risky Assets Ownership After The Financial Crisis

**Anupama Sukhu** (Kandampully). The Less Sustainable = More Enjoyable Intuition: Negative Effects Of Sustainability On Enjoyment Inferences

**Nicole Walton** (Pratt). Predictors Of Follow-Up For Overweight Youth And Parents

**Qiong Wu** (Feng). Profiles Of Emotionality And Regulation In Preschoolers: Differential Associations With Externalizing And Internalizing Problems And Maternal Socialization

**Tingting Zhang** (Kandampully). Will Length Of Time Of Service Encounter Affect Customer Satisfaction And Relationship In Different Service Contexts?



From Left: Su Yun Bae, Stewart Heckman, Travis Mountain and Tingting Zhang.

### POSTER PRESENTATIONS:

**Ayat Aldoori** (Ziouzenkova). Immune Response Influences In An Adolescent Cohort Examined For The Pathogenesis Of Mood Disorders

**Barbara Boyd** (Buettner). Early Warning Indicators Predicting High School Dropout

**Seung Ho Chang & Emi Tsuda** (Goodway). The Effects Of A Professional Development Workshop On Elementary Physical Education Teachers' Pedagogical Content Knowledge And Student Learning

**Hye Yoon Choi** (Kandampully). Investigating Green Hotel Consumer's Green Decisionmaking Process: Integrating Tpb Theory Into Vbn Theory

**Jihee Choi** (Scharff). Does Adopting A Colorcoded Restaurant Grading System Help Foodservice Staff Make More Efforts To Ensure Food Safety?

**Sean Dahlin** (Pastore). Coaching Efficacy: A Literature Review

**Jessica Dicke** (Devor). Reliability Of A Wireless Accelerometer For The Assessment Of Postural Control In Older Adults

(Continued on Page 4 )



Human Sciences (Continued from Pg. 3)

## POSTER PRESENTATIONS:

**Ruri Famelia** (Goodway). Children's Motor Skill Description, Intervention, And Relationship With Other Factors

**Yi Guo** (Bruno). A Quercetin Nanoemulsion Enhances Oral Bioavailability And Hepatic Accumulation Of Quercetin

**Justin Haegele** (Porretta). Physical Activity And School-Aged Individuals With Visual Impairments: A Literature Review

**Songyee Hur** (Stoel). Examination Of Customer generated Knowledge Using Nethography

**Seulki Ku** (Feng). Preschool Children's Lying: Effects Of Gender, Temperament, And Parenting

**Anne Kunkler** (Folden). Oncolytic Virotherapy For Neuroblastoma

**Richard Lafountain** (Devor). Validation Of Vo2max Assessment And Magnetic Resonance Cardiac Function Measurements Utilizing An Mri Compatible Treadmill

**Jae Min Lee** (Stafford/Hanna). Income Expectation, Saving, And Loss Aversion Using The Scf 2007-2009 Panel

**Heidi Liou** (Kandampully) & **Anupama Sukhu** (Scharff). Will 'Doing Right' Lead To 'Doing Well'? An Examination Of Purchase Intentions Of Hotel Consumers From A Green Perspective

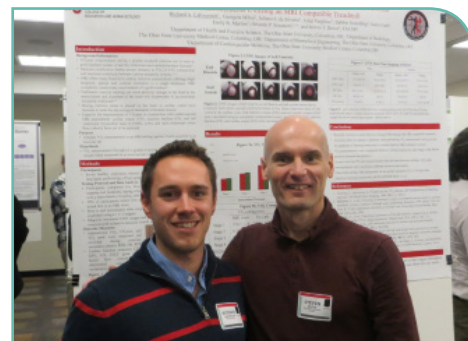
**Kristy Mccray** (Pastore). Embracing Interdisciplinary Research: An Epistemological Argument For Critical Inquiry In Sport Management

**Emiliano Melgar-Bermudez** (Ziouzenkova). Regulation Of Thermogenic And Lipogenic Adipogenesis By Branched Chain Amino Acids And Their Oxidized Metabolites

**Alexandra Norris** (Buell). Nutritional Performance Factors In Collegiate Female Swimmers

**Fabiola Gutierrez Orozco** (Failla). Dietary A-Mangostin, An Abundant Xanthone Compound In Mangosteen Fruit, Exacerbates Colitis And Adversely Alters The Gut Microbiota

**Elizabeth Palmer** (Pratt). Couple And



From Left: Richard LaFountain and Steven Devor

Family Therapists' Views On A Weight And Body Awareness Curriculum And Preliminary Weight-Bias Results

**Jackie Palmer, Allison Burgess & Valerie Heiss** (Buckworth). Social Relationships And Bmi In Undergraduate Students

**Seung Yeon Park** (Porretta). Motor Skill Learning Of Individuals With Intellectual Disability: A Review Of The Literature

**Kevin Schill** (Devor). Oxygen Consumption And Muscle Fibrosis In The Mdx Mouse: Influence Of Treadmill Running

**Theresa Settle** (Schoppe-Sullivan). A Picture Is Worth A Thousand Words

**Nicole Walton** (Pratt). Childhood Obesity And The Role Of Child Protection

## DEPARTMENT OF TEACHING AND LEARNING

### ORAL PRESENTATIONS:

**Umar Abdullah** (Samimy). Foreign, Second, & Multilingual Language Education. English Teachers' Learning Experiences Associated With Instructional Practices And Classroom Management

**Theresia Anggraini** (Lehman). Literature For Children And Young Adults. Characteristics Of Child-To-Adult Crossover Literature

**Elizabeth Beggrow** (Haury). STEM. Exploring The Role Of Context In Student Learning And Assessment: A

Comparison Of Biological Anthropology And Biology Students

**Eileen Buescher** (Newell). Adolescent, Postsecondary, & Community Literacies. Teaching And Learning Literary Argumentation Through Classroom Discourse

**Tamara Butler** (Kinloch). Multicultural And Equity Studies In Education. "React To Our...Revolution": Exploring The Art Of Youth Activist Narratives

**Juhyun Do** (Hirvela). Foreign, Second, & Multilingual Language Education. NS Scholars: From Novice Language

Teachers To Experienced Academics

**Gilbert Kaburu** (Tyson). Multicultural And Equity Studies In Education. Social Justice (Pedagogy): The Case Of Mission Girls' School

**Carolyn Kaplan** (Hirvela). Foreign, Second, & Multilingual Language Education. Foreign Language Teachers' Cognitions And Practices Related To Student Assessment

**Hwewon Kim** (McGee). Reading & Literacy In Early & Middle Childhood. Quality Of Kindergarteners' Writing: Changes Over Time For Lower-

Average-, And Higher-Quality Writers

**Jungsook Kim** (Richardson), Language, Education, And Society. Negotiating Language Ideologies And Identities Among International Teaching Associates In A University Spoken English Classroom

**Deborah Lan** (Jin), STEM. Enhancing Secondary Science Teachers' Understanding Of Argumentation On Energy Consumption

**Cynthia Lin** (Hirvela), Foreign, Second, & Multilingual Language Education. Learning Ballet As A Foreign Language

**Ashley Patterson** (Tyson), Multicultural And Equity Studies In Education. "Well, In America, You Are Black": 'Tragic Mulatta' Narratives In Tia & Tamera

**Allison Prasad** (Kinloch), Multicultural And Equity Studies In Education. Lift Every Voice: The Counter-Stories And Narratives Of African American Students At Predominately White Institutions Of Higher Education

**Theodoto Ressa** (Katz), Multicultural And Equity Studies In Education. The Path To College: Narrative Experiences Of Students With Disabilities

**Amanda Roble** (Brosnan), STEM. Formative Assessment In Connected Classrooms: Gaining Insight Into Student Thinking

**Sanghee Ryu** (Bloome), Language, Education, And Society. (Re) Constructing Rationality In The Teaching And Learning Of Argumentative Writing In One Suburban Advanced Placement High School English Language Arts Classroom



From Left: Jungsook Kim, Theodoto Ressa and Gilbert Kaburu.

**Shiao-Chen Tsai** (Hirvela), Foreign, Second, & Multilingual Language Education. Are Chinese-English Bilinguals' Note-Taking Strategies Related To Their Working Memory Capacity And L2 Proficiency?

**Jennifer Vanderheide** (Newell), Adolescent, Postsecondary, & Community Literacies. How High School Students Learn To Write Analytically About Literature Over Time

**Yanty Wirza** (Samimy), Foreign, Second, & Multilingual Language Education. Eit, Language Ideology And Globalization: A Case Of Indonesia

**Ya-Li Wu** (Samimy), Foreign, Second, & Multilingual Language Education. The Use Of Technology And International Students' Academic Acculturation

**Ruilan Zhao** (Hirvela), Foreign, Second, & Multilingual Language Education. "What Is Synthesis?": L2 Students Learning To Write New Academic Genre

## POSTER PRESENTATIONS:

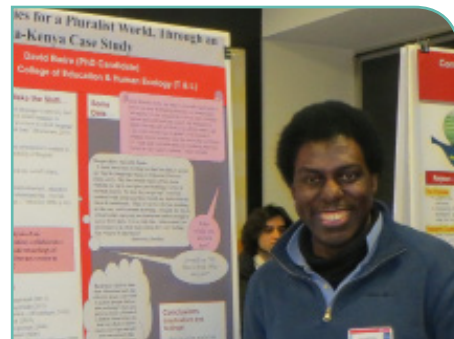
**Triubaida Ardianti** (Rodgers), Reading & Literacy In Early & Middle Childhood. Teachers As Agents Of Change In The US And Indonesian Education

**David Bwire** (Kinloch), Language, Education, And Society. Local Meanings, Global Conversations: Exploring Intercultural Pedagogies For A Pluralist World, Through An Alaska-Kenya Case Study

**Sarah Campbell** (Wilkinson), Reading & Literacy In Early & Middle Childhood. Context And Instructional Models For Engaging Literacy Instruction For Adolescents

**Brent Goff** (Newell), Adolescent, Post-Secondary, & Community Literacies. The Social Construction Of Evidence: A Case Studies Of How Argumentative Writing Is Taught In A High School English Class

**Risa Haridza** (Irving), STEM. Comparison The Development Of Science Education Curriculum In Indonesia And The US



David Bwire.

**Daud Jiwandono** (Rodgers), Foreign, Second, & Multilingual Language Education. Student Teaching: An Essential Period In Preparing Professional Teachers

**Hwewon Kim** (McGee), Reading & Literacy In Early & Middle Childhood. The Quality Of Low Achieving First Grade Children's Writing Compared To Average Writers

**Katherine Mollohan** (Ding), STEM. Undergraduates' Epistemological Beliefs About Biology And Learning Biology

**Kimberly Murphy** (Justice), Reading & Literacy In Early & Middle Childhood. Predicting Reading Risk At The End Of Kindergarten For Children With Language Impairment

**Riana Permatasari** (Rodgers), Reading & Literacy In Early & Middle Childhood. Teachers' Limitations And Challenges That Impede Their Roles As Agents Of Change In The US And Indonesia

**Tara Strang** (Piasta), Reading & Literacy In Early & Middle Childhood. Date Of Entry Into A Childcare Program And Verbal Outcomes

**Shiao-Chen Tsai** (Hirvela), Foreign, Second, & Multilingual Language Education. Literature Review On Linguistic Relativity And Focusing On Studies That Comparing Chinese-Speaking Participants With English-Speaking Participants

For additional information about the forum, including photos and abstracts, please visit our website at [u.osu.edu/ehstudentresearch](http://u.osu.edu/ehstudentresearch)

# AWARDS AWARDS AWARDS

## POSTDOCTORAL TRAVEL AWARDS

Xiamei Guo,  
Human Sciences

## FACULTY INTERNATIONAL TRAVEL AWARDS

Bryan Warnick,  
Educational Studies

For additional  
information on how to  
apply for travel awards,  
please visit  
[go.osu.edu/ORfunding](http://go.osu.edu/ORfunding)

# TRAVEL AWARDS

The following individuals received EHE Travel Grants for travel related to conference presentations. These grants were awarded in February 2014.

## GRADUATE STUDENT TRAVEL AWARDS

### Educational Studies

Mariah Barber  
Blossom Barrett  
Jessica Bennett ✦  
Paula Chan  
Morris Council ✦  
Emily Curiel  
Joshua Garner  
DeLayna Green  
Leona Houston  
Hui Jiang  
Hae Na Kim ✦  
Nicole Leach  
Ross Leighner  
Susan Mauck ✦  
Megan Miller  
Charles Okonkwo  
Marnie Shapiro ✦  
Jamie Teeple  
Ya-Li Wu ✦  
Douglas Yacek

### Human Sciences

Jessica Dicke ✦  
Yi Guo ✦  
Justin Haegele ✦  
Stuart Heckman ✦  
Jonathan Jensen  
Pielah Kim  
Richard LaFountain ✦  
Jae Min Lee ✦  
Yi-Hsuan Liu  
Leeann Lower  
Elizabeth Palmer ✦  
Hanna Paulose  
Kevin Schill ✦  
Liye Suo  
Tingting Zhang ✦

### Teaching and Learning

Tami Augustine  
Julia Averill  
Katherine Brownfield  
Juhyun Do ✦  
Sinead Harmey  
Brooke Harris Garad  
Heon Jeon  
Candace Joswick  
Gilbert Kaburu ✦  
Seo Hyun Park ✦  
Theodoto Ressa ✦  
Sirad Shirdon  
Se Jeong Yang

✦ indicates student participated in the 2014 EHE Student Research Forum

## EHE DISSERTATION FELLOWSHIP AWARDEES

The EHE Office of Research, in partnership with the departmental graduate study committees, awarded graduate dissertation research fellowships to the following students. The intent of the Dissertation Fellowships is to support outstanding students in the completion of their programs by allowing them to focus on their dissertation research. Fellowships include a monthly stipend, benefits and postcandidacy fee waivers for the academic year.

### EDUCATIONAL STUDIES:

S. Mei-Yen Ireland  
Emma Merry

### HUMAN SCIENCES:

Eunice Hong  
Jonathan Jensen  
Sara Sandberg-Thoma  
Su Hyun Shin  
Anupama Sukhu

### TEACHING AND LEARNING:

Ashley Patterson  
Jenna Tague  
Ruilan Zhao

# NEW RESEARCH AWARDS

Faculty and staff in the college received 30 new awards between November 1, 2013, through February 28, 2014. The anticipated total award amount for all 30 awards is \$7,475,6256. For additional information on these and previous awards, go to [ehe.osu.edu/research/awards/](http://ehe.osu.edu/research/awards/).

PI/Co-I	Department	Sponsor Name
BEBO, PATRICIA	Human Sciences	Ohio Department of Jobs and Family Services
BLACKBURN, MOLLIE	Teaching and Learning	American Educational Research Association
BRUNO, RICHARD/Bomser, Joshua	Human Sciences	National Institute of Food & Agriculture
EVERTS, HELEN	Human Sciences	Cicatricial Alopecia Research Foundation
GOODWAY, JACQUELINE	Human Sciences	North American Society for the Psychology of Sport and Physical Activity
GOODWAY, JACQUELINE	Human Sciences	Ohio Association of Health, Physical Education, Recreation and Dance
GUNTHER, CAROLYN	Human Sciences	Cardinal Health Foundation
HARRISON, EARL/Curley, Robert; Schwartz, Steven	Human Sciences	National Heart, Lung, and Blood Institute
JULIAN, DAVID	CETE	Opportunities for Ohioans with Disabilities
JULIAN, DAVID/Lepicki, Traci; Mahlman, Robert; Ross, Melissa	CETE	Wargo-Brock Workforce Dimensions LLC
JULIAN, DAVID/Mahlman, Robert	CETE	Ohio Department of Health
JUSTICE, LAURA	Teaching and Learning	Columbus Metropolitan Library
KATZ, LAURIE	Teaching and Learning	University of Dayton
KENNEL, JULIE	Human Sciences	Ohio Department of Education
LI, WEIDONG	Human Sciences	Ohio Association of Health, Physical Education, Recreation and Dance
LUTHY, NICOLE	Ohio Resource Center	EDUCAUSE
MAHLMAN, ROBERT/Parker, Rebecca	CETE	Ohio Department of Education
MALONE, HELEN	Educational Studies	Franklin County Board of Mental Retardation and Development Disabilities
NEEF, NANCY	Human Sciences	Columbus City School District
PASTORE, DONNA	Human Sciences	North American Society for Sport Management
PAUL, PETER	Teaching and Learning	Ohio Department of Education
PENTIMONTI, JILL	Crane Center	Columbus Foundation
ROSS, MELISSA	CETE	Ohio Department of Education
SLESNIK, NATASHA	Human Sciences	Community Shelter Board
WIECHEL, JANE	Weinland Park Lab School	Child Development Council of Franklin County, Inc.
WIECHEL, JANE	Weinland Park Lab School	Homeless Families Foundation
WIECHEL, JANE	Weinland Park Lab School	Ohio Department of Education (2 awards)
WILD, TIFFANY	Teaching and Learning	National Federation of the Blind
ZIOUZENKOVA, OULIANA	Human Sciences	American Egg Board
ZIOUZENKOVA, OULIANA	Human Sciences	Nova Nordisk Pharmaceuticals

# EHE CENTERS

Here is the latest from CETE and ORC, two of the EHE centers. Read about the work of all of EHE's centers and how to collaborate with them by going to the Fall 2013 issue of the EHE Office of Research newsletter — [go.osu.edu/EHENewsletterFall2013](http://go.osu.edu/EHENewsletterFall2013).

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## CETE PROJECTS SUPPORT OSU DISCOVERY THEMES

CETE is excited to highlight two new evaluation projects aligned with Ohio State's Discovery Themes. The first project, which supports the Energy and Environment theme, is working with the **Great Lakes Fuel Cell Education Partnership**. This partnership is focused on aggregating and evaluating innovative solutions for advancing fuel cell education and training, researching and defining essential technical skills to advance workforce development. The Great Lakes Fuel Cell Education Partnership will serve as a clearinghouse to share proven curriculum materials. As an external evaluator, CETE supports these goals through a three-tiered evaluation framework of outputs, outcomes, and impacts. Visit [go.osu.edu/CETE1](http://go.osu.edu/CETE1) for additional information about this project.

In the second project, which supports the Health and Wellness theme, CETE has designed a state-of-the-art evaluation study to gain insight into the impact of an online training program, **InJoy Understanding Birth eClass**. This training program is an intervention aimed at improving health outcomes for Ohio mothers and their children. Visit [go.osu.edu/CETE2](http://go.osu.edu/CETE2) for additional information about this project.

For more information about all the ongoing projects at CETE, please contact Bob Mahlman, Director, at [mahlman.1@osu.edu](mailto:mahlman.1@osu.edu) or visit [cete.osu.edu](http://cete.osu.edu).

## OHIO RESOURCE CENTER (ORC) FOCUSES ON ARGUMENTATION AND ONLINE INSTRUCTION

EHE doctoral candidate Deborah Lan from the department of Teaching and Learning (Hui Jin, advisor) is studying argumentation in elementary science. Lan has written an e-publication on teaching argumentation in the K–12 classroom, to be published by ORC this spring. She is also working with ORC's director of STEM initiatives, Terry Shiverdecker, to plan and present the first of a series of ORC TIP (Theory into Practice) seminars. The inaugural seminar (to be held on April 17) will focus on argumentation in the classroom—for all grades and in the four core subjects.

Graduate research associate and EHE doctoral candidate James Kerr from the department of Educational studies (David Stein, advisor) is using his expertise to create an online course to introduce K–12 teachers to the basics of online instruction. The course will be piloted this spring.

For more information about the latest efforts at the Ohio Resource Center, please contact Nicole Luthy, Director, at [nluthy@ohiorc.org](mailto:nluthy@ohiorc.org) or visit [ohiorc.org](http://ohiorc.org).