Annual Report: 

Faculty Research & Scholarship  

(January 1, 2009—December 31, 2009)
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Schools and Departments

Department of Social and Public Health

This department is distinguished by its breadth of programs addressing community health, environmental and population-level diseases, and health administration. This department has 13.5 Group I faculty; 2.4 Group II-IV, and 1 classified staff member.

Undergraduate programs

- Health (BS)—Community Health; Long-Term Care; Health Administration
- Environmental Health Sciences (BS[EH])
- Industrial Hygiene (BS[IH])
- Human and Consumer Sciences (BS)—Child and Family Studies
- Interdisciplinary Certificate in Gerontology

Graduate programs

- Master of Health Administration (MHA)
- Online Master of Health Administration (MHA)
- Master of Public Health (MPH)
- Human and Consumer Sciences (MS)—Family Studies
- Human and Consumer Sciences (MS)—Early Childhood Education and Family Studies [Child Life Specialist]
- Certificate in African Community Health Services
- Certificate in Health Care Services Administration
- Certificate in Health Policy
- Interdisciplinary Certificate in Gerontology

Accreditation

- Industrial Hygiene (bachelor’s): Applied Science Accreditation Commission (ASAC), 2004-2010; Accreditation Board for Engineering and Technology (ABET), 2004-2010
- Environmental Health (bachelor’s degree): National Environmental Health Science and Protection Accreditation Council (NEHSPAC), 2004-2010
- Long Term Care Administration (bachelor’s degree): National Association of Boards of Examiners for Long Term Care Administrators (NAB), 2005-2010
School of Applied Health Sciences and Wellness

This school includes the WellWorks employee health program, and the Atrium Café, supported by a coherent set of inter-related academic degrees in exercise physiology, nutrition, and athletic training. This school has 13 Group I faculty, 5 Group II-IV faculty, and 1 classified staff member.

Undergraduate programs

- Athletic Training (BS)
- Physiology of Exercise (BS)
- Human and Consumer Sciences (BS)—Nutrition
- Human and Consumer Sciences (BS)—Applied Nutrition (major)
- Human and Consumer Sciences—Applied Nutrition (minor)

Graduate programs

- Athletic Training (MS)
- Physiology of Exercise (MS)
- Human and Consumer Sciences (MS)—Food and Nutrition

Accreditation

- Athletic Training (bachelor’s degree): Commission on Accreditation of Athletic Training Education (CAATE), 2007-2012
- Athletic Training (master’s degree): Commission on Accreditation of Athletic Training Education (CAATE), 2008-2013
School of Nursing

The school is comprised of a comprehensive ladder of nursing programs, from associate degree to Master of Science in Nursing. The RN-to-BSN is an online program with national distribution. On the Athens campus, this School has 6 Group I faculty, 4 Group II-IV faculty (including one simulation lab coordinator), and 2 classified staff members.

Undergraduate programs

- **Associate Degree in Nursing (ADN)**
- **Bachelor of Science in Nursing (BSN)**
- **Registered Nurse-to-Bachelor of Science in Nursing (RN-to-BSN)**
- **School Nurse License**

Graduate programs

- **Master of Nursing (MSN) with three major areas of concentration:**
  - **Education,**
  - **Administration,** and
  - **Family Nurse Practitioner**

Accreditation

- **Associate Degree:** National League for Nursing Accrediting Commission (NLNAC), 2007-2015; and Ohio Board of Nursing (OBN), 2005-2010
- **RN-to-BSN program:** Commission for Collegiate Nursing Education (CCNE), 2001-2011
- **Bachelor of Science in Nursing (BSN):** Commission for Collegiate Nursing Education (CCNE)
- **Master’s of Science in Nursing (MSN):** Commission for Collegiate Nursing Education (CCNE), 2007-2012
School of Rehabilitation and Communication Sciences

The School is comprised of the programs of Physical Therapy and Communication Sciences and Disorders. Physical Therapy offers a doctorate, and the Communication Sciences and Disorders program offers bachelor's and master's preparation, as well as both an Audiology Doctorate and Doctor of Philosophy degrees. This school has 18 Group I faculty members, 3.75 Group II-IV faculty members, and 3.75 classified staff members, some of whom staff to OU Therapy Associates (offering physical therapy, and speech, language and hearing services).

Undergraduate Programs

Hearing, Speech and Language Sciences (BS)
Hearing, Speech and Language Sciences (Minor)
Honors Tutorial Program, Hearing Speech and Language Sciences

Graduate programs

Doctor of Physical Therapy (DPT) and transitional DPT
Speech-Language Pathology (MA)
Doctor of Clinical Audiology (AuD)
Hearing Science (PhD)
Speech-Language Science (PhD)
Teacher Certification for Speech–Language Pathology

Accreditation

Physical Therapy (professional doctorate): Commission on Accreditation in Physical Therapy Education (CAPTE), 2009-2019
Speech-Language Pathology (master’s degree): Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association (ASHA), 2004-2012
Audiology (professional doctorate): Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association (ASHA), 2004-2012
Faculty\textsuperscript{1,2}

(Calendar year 2009; listed alphabetically)

Group I

- Matthew O. Adeyanju, PhD, MPH, CHES, FASHA, Professor & Department Chair (DSPH)
- Tania Basta, PhD, MPH, CHES, Assistant Professor (DSPH)
- Joann Benigno, PhD, Assistant Professor (SRCS)
- Darlene Berryman, PhD, RD, LD Associate Professor (SAHSW)
- Doug Bolon, PhD, Associate Professor (DSPH)
- Robert Brannan, PhD, Assistant Professor (SAHSW)
- Mary E. Bowen, RN, DNS, JD, NEA, School Director (SON)
- Susan Bullard, PhD, Assistant Professor (SAHSW)
- Jenny Chabot, PhD, CCLS, Associate Professor (DSPH)
- Gary S. Chleboun, PhD, PT, Professor (SRCS)
- Sharon A. Denham, DSN, RN, Professor (SON)\textsuperscript{3}
- Jeffrey J. DiGiovanni, PhD, Associate Professor (SRCS)
- Roger Gilders, PhD, NSCAcsacs, Professor & School Director (SAHSW)
- Brooke Hallowell, PhD, Associate Professor (SRCS)\textsuperscript{6}
- Deborah E. Henderson, PhD, RN, Professor (SON)
- David H. Holben, PhD, RD, LD, Professor (SAHSW)
- Gregory Janson, PhD, Associate Professor (DSPH)
- Fuh-Cherng [Fuh] Jeng, MD, PhD, Assistant Professor (SRCS)
- Joan Jurich, PhD, Associate Professor (DSPH)
- Youngsun Kim, PhD, Assistant Professor (SRCS)\textsuperscript{6}
- B. Andrew Krause, PhD, ATC, AT, Assistant Professor (SAHSW)
- Michael Kushnick, PhD, ACSMhfs, Associate Professor (SAHSW)

\textsuperscript{1}This list includes faculty members who held appointments during calendar year 2009 within those schools that remain in the new College of Health Sciences and Professions (7/1/10 forward).

\textsuperscript{2}The acronym after each entry (in parentheses) indicates the current department or school affiliation: DSPH: Department of Social and Public Health; SAHSW: School of Applied Health Sciences and Wellness; SON: School of Nursing; SRCS: School of Rehabilitation and Communication Sciences.

\textsuperscript{3}Subsequently has taken early retirement (fall 2010).
• Chao-Yang Lee, PhD, Assistant Professor (SRCS)
• Gari Lesnoff-Caravaglia, PhD, Professor (DSPH)
• Margaret Manoogian, PhD, Associate Professor
• Sally A. Marinellie, PhD, Associate Professor (SRCS)
• John McCarthy, PhD, Assistant Professor (SRCS)β
• James W. Montgomery, PhD, Professor (SRCS)
• Michele Morrone, PhD, RS, Associate Professor (DSPH)
• Christina Nyirati, PhD, Assistant Professor (SON)
• Averell S. Overby, DrPH, PT, Associate Professor & School Director (SRCS)
• Helmut W. Paschold, PhD, CIH, CSP, PE (TX), Assistant Professor (DSPH)
• Edward Potkanowicz, PhD, ACSM HFS, Assistant Professor (SAHSW)
• Sharon R. Rana, PhD, ASCMhfs, NSCAcscs, Associate Professor (SAHSW)
• Dennis T. Ries, PhD, Assistant Professor (SRCS)β
• Kathleen Rose-Grippa, PhD, RN, Professor (SON)
• David Russ, PhD, PT, Assistant Professor (SRCS)
• Tim Ryan, PhD, RS, CIH, Associate Professor (DSPH)
• Anthony M. Sallar, PhD, MPH, MBA, Assistant Professor (DSPH)
• Samuel Scott, PhD, Assistant Professor (SRCS)
• Alexander V. Sergeev, PhD, MD, MPH, Assistant Professor (DSPH)
• Betty Sindelar, PhD, PT, Associate Professor (SRCS)
• Therese Snively, PhD, Assistant Professor (SON)4
• Charles [Chad] Starkey, PhD, ATC, AT, Associate Professor (SAHSW)β
• David V. Stretton, PHD, MBA, CPA, Assistant Professor (DSPH)
• Kathleen Fox Tennant, PhD, APRN, BC, Assistant Professor (SON)
• James Thomas, PhD, PT, Associate Professor (SRCS)
• Li Xu, MD, PhD, Associate Professor (SRCS)
• Selena Yearwood, PhD, Assistant Professor (SON)5

4 Subsequently, has resigned (spring 2010).
5 Subsequently has resigned (spring 2010).
Group II

- RuthAnn Althaus, PhD, MPH, MBA, MSLIS, Professor (DSPH)
- Tina Bookman, MS, Instructor (SAHSW)
- Michael Clevendence, MS, CSCS, CPR/AED, Instructor (SAHSW)
- David Dominguese, MS, AT, CSCS, CPR/AED, Instructor (SAHSW)\(^6\)
- Erin Driscoll, MS, AT, CPR/AED, Instructor (SAHSW)
- Denise Ferrell, MSN, RN, Assistant Professor (SON)
- Janice Howman, PT, MEd, Assistant Professor (SRCS)
- Francis McFadden, MS, Assistant Professor (SAHSW), Manager of the Atrium Café
- Juli L. Miller, MSHA, Instructor (DSPH)
- Marianne Malawista, PhD, Instructor and Clinic Coordinator, Speech-Language-Hearing, OU Therapy Associates (SRCS)
- Deborah Murray, MS, RD, LD, Assistant Professor (SAHSW)
- Davida Parsons, MA, Clinic Coordinator (resigned), Director, Speech-Language-Hearing, OU Therapy Associates (SRCS)\(^7\)
- Jason White, MS, Instructor (SAHSW)\(^8\)
- Petra Williams, PT MS NCS, Assistant Professor (SRCS)
- Lisa J. S. Yehl, MSHA, LNHA, Instructor (DSPH)

\(^\beta\): Faculty who were reviewed favorably for tenure and/or promotion during academic year 2009-2010, effective academic year 2010-2011.

\(^6\) Received PhD in 2010.
\(^7\) Resigned mid-year 2009.
\(^8\) Received PhD in 2010, and accepted a Group I faculty appointment effective September 1, 2010.
Research Laboratories at Grover Center\textsuperscript{9,10}

- Alzheimer's Lab (Samuel Scott) (SRCS)
- Athletic Training Lab (Chad Starkey, Director) (SAHSW)
- Auditory Electrophysiology (Fuh-Cherng [Fuh] Jeng, Director) (SRCS)
- Auditory Prosthesis Lab (Li Xu, Director) (SRCS)
- Auditory Psychophysics and Signal Processing Lab (Jeffrey DiGiovanni, Director) (SRCS)
- Augmentative and Alternative Communication Lab (John McCarthy, Director) (SRCS)
- Biomaterials Lab (Betty Sindelar, Director) SRCS)
- Developmental Psycholinguistics Lab (James Montgomery, Director) (SRCS)
- Dysphagia Lab (Youngsun Kim, Director) (SRCS)
- Environmental Health / Industrial Hygiene Lab (Tim Ryan, Director) (DSPH)
- Environmental Research Lab (Tim Ryan, Director) (DSPH)
- Exercise Biochemistry Lab (Michael Kushnick, Director) (SAHSW)
- Exercise Physiology Lab (Sharon Rana and Michael Kushnick, Co-Directors) (SAHSW)
- Exercise Science Lab (Sue Bullard, Director) (SAHSW)
- Food Science Lab (Robert Brannan, Director) (AHSW)
- Motor Control Lab (James Thomas, Director) (SRCS)
- Muscle Physiology Lab (David Russ, Director) (SRCS)
- Neurolinguistics Lab (Brooke Hallowell, Director) (SRCS)
- Postural Control Lab (Averell Overby, Director) (SRCS)
- School-Age Language Lab (Sally Marinellie, Director) (SRCS)
- Sensory Analysis Lab (Robert Brannan, Director) (SAHSW)
- Speech Processing Lab (Chao-Yang Lee, Director) (SRCS)
- T.A.L.K. Lab (Joann Benigno, Director) (SRCS)
- Test Kitchen (Robert Brannan, Director) (SAHSW)
- Ultrasound/Muscle Imaging Lab (Gary Chleboun, Director) (SRCS)
- Vicon Motion Analysis Lab (James Thomas, Director) (SRCS)

\textsuperscript{9} Research laboratories listed are the responsibility of faculty in the new College of Health Sciences and Professions (effective 7/1/10), and do not include research laboratories that have been relocated to other colleges as part of university restructuring.

\textsuperscript{10} DSPH: Department of Social and Public Health; SAHSW: School of Applied Health Sciences and Wellness; SON: School of Nursing; SRCS: School of Rehabilitation and Communication Sciences.
Grants and Contracts Awarded

(July 1, 2008 to June 30, 2009)\textsuperscript{11,12,13}


2. Basta, T. $7,000, Project Consultant, Communication Change (C-Change). Sub-contract: Ohio University School of Communication via Academy for Educational Development.


\textsuperscript{11} This report is primarily intended to report research and scholarship for year ending December 31, 2009. However, due to the “rolling” nature of grant proposals and awards, this part of the College of Health Sciences and Professions report includes two sections for grants and contracts: (a) July 1, 2008 through June 30, 2009; and, (b) July 1, 2009 through June 30, 2010 (to correspond to the University Office of Research and Sponsored Programs [ORSP] reporting periods). The entries reflect only the extramural and intramural grants and contracts for the new College of Health Sciences and Professions not grants and contracts received during the respective periods by academic units that have been relocated to other colleges as part of university restructuring (effective 7/1/10).

\textsuperscript{12} The present College report adopts the convention of the University's ORSP reflecting grants and contracts income from all extramural sources according to the fiscal year in which the award was made. In some cases, a multi-year grant will be awarded \textit{entirely in the first year}; in other cases, funding will occur on a year-to-year basis. For this reason, depending on the award mechanism, the data do not reflect funding for multi-year projects if the funds were technically credited by ORSP to the College in prior years.

\textsuperscript{13} For actual dollar amounts credited to the College (per each investigator’s portion of the award), see ORSP’s Annual Award Reports. Available at: \url{http://www.ohio.edu/research/Award_Reports.cfm}
15. Henderson, D., $22,500, Undergraduate and Graduate Nursing Curricular Integration of Electronic Health Record and Clinical Tracking Software, 1804 Award, 2009.
17. Holben, D., $1,000, Marie and August LePresti Endowment Fund Faculty Development Award, American Dietetic Association, 2009.
38. Moss, L., $45,000, Kids on Campus Summer Program CHSE Explorer and Adventure Campus, JP Morgan Chase Foundation, 2009.
46. Parsons, D., $2,400, Pediatric Medical Specialty Clinics, Ohio Department Health, 2009.
47. Parsons, D., $252, Therapy Speech and Hearing, Christ United Methodist Preschool, 2009.
51. Parsons, D., $9,740, Therapy Speech and Hearing, O'Bleness Memorial, 2009.
52. Parsons, D., $22,347, Therapy Speech and Hearing, Doctors Hospital Nelsonville, 2009.
53. Parsons, D., $54,833, Therapy Speech and Hearing, Hocking Valley Community Hospital, 2009.
54. Parsons, D., $744, Therapy Speech and Hearing, Athens County Board of MRDD, 2009.
55. Parsons, D., $4,482, Therapy Speech and Hearing, Meigs County MRDD, 2009.
56. Parsons, D., $5,925, Therapy Speech and Hearing, Meigs County Department of Health, 2009.
57. Parsons, D., $8,473, Therapy Speech and Hearing, Vinton County Health Department, 2009.
60. Ryan, T., $14,573, Pilot Project of M-Learning Efficacy and Assessment Approaches in the Applied Sciences, 1804 Award, 2009.
63. Williams, P., $19,100, Media Enhancement of Graduate Student Instruction and Clinical Research for Observational Movement Analysis, 1804 Award, 2009.
64. Wilson, M., & Kushnick, M., $600, Effects of Eating a Low and High Glycemic Index Meal after Exercise on Fat Oxidation, The Provost's Undergraduate Research Fund, Ohio University, 2009.

**Grants and Contracts Awarded**

*(July 1, 2009 to June 30, 2010)*


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14 See footnotes 10 and 11 above.
18. Jensen-Besaw, D., $7,000, Be Bold: Kids on Campus 2010 Summer Program (Nurse's Station), Sisters of Saint Joseph Charitable Fund, 2010.
22. Malawista, M., $14,600, Therapy Speech and Hearing, Morgan County School, 2010.
26. Malawista, M., $14,600, Therapy Speech and Hearing, Morgan County School, 2010.
32. Oh, H.-J., $1,500, Physical Activity Patterns and Body Composition in School Youth Living in Rural Areas of Southeastern Appalachian Ohio, Ohio Association for Health, Physical Education, 2010.
34. Overby, A., $571,752, Therapy Physical Therapy, O'Bleness Memorial, 2010.
41. Starkey, C., $10,100, Athletic Training Services for Area High Schools, Various, 2010.
43. Xu, L., $18,408, Ruth L. Kirschstein National Research Service Award, Music and Tone Perception and Dichotic Stimulation, National Institutes of Health, 2010.

Scholarship and Creative Activity

THESES AND DISSERTATIONS IN 2009


PUBLICATIONS IN 2009


74. Thorner, M. O. ... Berryman D. E. et al. (2009). Statement by the growth hormone research society on GH/IGF-1 axis in extending health span. Journals of Gerontology Series A: Biological Sciences and Medical Sciences, 64(10), 1039-1044.


**PRESENTATIONS IN 2009**

(Including Published Abstracts of Posters/Presentations)\(^{15}\)


\(^{15}\) Abstracts of posters or presentations are published in conference programs; or, alternatively, in journal supplements (the latter are distinguished in this report by the inclusion of journal name, volume and page number).


55. Jeng, F.-C. (2009). Frequency-following responses to voice pitch: Fundamentals and clinical applications. Invited presentations at the China Medical University Hospital ENT Research Colloquium (two presentations on December 10 and 24 and a one-week workshop starting December 18-24), Taichung, Taiwan.


64. Knutson, M., McGlynn, M., Guiler, M., Wilson, M., Costello, B. A., Hagen, A., Gibb, A., Vance, R., Shubrook, J., & **Kushnick, M.** (2009). *The glycemic and insulinemic response to a standard meal 4-hours after ingestion of glucose and a novel extended release carbohydrate* [Abstract]. Paper presented at the Research and Creativity Showcase, Ohio University (May; first place award for presentation, graduate); College of Health and Human Services Faculty Showcase, Ohio University (June); Diabetes Research Initiative Meeting, Ohio University (June).


67. **Kushnick, M.** (2009, November). *Human studies involving slowly digesting starches.* Symposium conducted on Slowly Digesting Starch conducted at Whistler Center for Carbohydrate Research, Purdue University—USDA Extension, West Lafayette, IN.


