

CURRICULUM VITAE

Ritchie D. Taylor, PhD, MS
WKU College of Health and Human Services
Department of Public Health
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Education

- 2002** **University of North Texas** **Denton, TX**
Ph.D. Environmental Science
Dissertation – Water quality aspects of an intermittent stream and backwaters in an urban North Texas watershed
- 1994** **Tennessee Technological University** **Cookeville, TN**
M.S. Biology
Thesis – A remote satellite-linked automated biomonitoring system for rapid detection of rainbow trout (*Oncorhynchus mykiss*) ventilation responses to stream water quality
- 1989** **Belmont University** **Nashville, TN**
B.S. Biology, Chemistry minor
Undergraduate Research – Radionuclide uptake by mallard ducks (*Anas platyrhynchos*) inhabiting a cooling reservoir on the Savannah River Nuclear Site (Aiken, SC) and environmental health implications

Professional Experience

- 2003 – Present** **Western Kentucky University** **Bowling Green, KY**
- **Faculty Fellow for Research, WKU College of Health and Human Services** - Responsible to lead research, innovation, and creative activities operations for the WKU College of Health and Human Services including review and approval of all internal and external grants and contracts from CHHS faculty and staff, assist with IP disclosure and commercialization, manage the CHHS research portfolio, manage the CHHS Research Office budget, administer internal grant awards and fellowships, chair the CHHS Research and CHHS Applied Research Centers Committees, and serve as the CHHS representative on the WKU Research and Creative Activities Council. A key component of the Faculty Fellow for Research is to work with the WKU Office of Sponsored Programs to provide CHHS faculty and staff with resources and support for successful grant identification, application, and management. A major objective of this role is to create a CHHS research mentorship program for junior faculty. Finally, additional objectives include review of faculty evaluations and contracts. – May 15, 2021 - Current

Ritchie D. Taylor, Ph.D., M.S.

- Full Professor of Environmental Science – WKU Department of Public Health – Attained Rank July 1, 2019
- Director, Graduate Environmental and Occupational Health Science Programs – M.S. in Environmental and Occupational Health Science, Online M.S. in Environmental and Occupational Health Science, Graduate Certificate in Environmental Health and Safety - July 1, 2020 – May 14, 2021
- Director, Environmental and Occupational Health Science Programs – M.S. in Environmental and Occupational Health Science, Online M.S. in Environmental and Occupational Health Science, Graduate Certificate in Environmental Health and Safety, B.S. in Environmental and Occupational Health Science, Certificate in Occupational Safety and Health - July 1, 2015 – June 30, 2020
- Director, Center for Environmental and Workplace Health – August 15, 2017 – May 14, 2021
- Acting Department Head, WKU Department of Public Health, June – July 2018 and 2019, December 2019-January 2020
- Associate Professor of Environmental Science – WKU Department of Public Health – Attained Rank August 16, 2009
- Director – B.S. in Environmental and Occupational Health Science Program – 2004-2012, 2014-June 30, 2015
- Director – CHHS Impact Belize: International Service-Learning Program – 2006-2011
- Assistant Professor of Environmental Science – July 1, 2003
- Member of WKU Graduate Faculty – 2003 – Current

- **Academic Programs Developed and Implemented**
 - JUMP 5-year program for B.S. in EOHS to M.S. in EOHS
 - Online Environmental and Occupational Health Science, M.S. - Western Kentucky University, Department of Public Health, College of Health and Human Services – July 2019
 - Environmental and Occupational Health Science, M.S. - Western Kentucky University, Department of Public Health, College of Health and Human Services – Accreditation Received July 2019. Environmental Health Science and Protection Accreditation Council. Accredited through July 2025.
 - Environmental and Occupational Health Science, M.S. - Western Kentucky University, Department of Public Health, College of Health and Human Services – Approved by Kentucky Council on Postsecondary Education, November 2014, Revised in FY 2017
 - Environmental and Occupational Health Science, B.S. - Western Kentucky University, Department of Public Health, College of Health and Human Services – 2004, Revised in FY 2017
 - Undergraduate Certificate in Occupational Safety and Health - Western Kentucky University, Department of Public Health, College of Health and Human Services – FY 2009
 - Graduate Certificate in Environmental Health and Safety - Western Kentucky University, Department of Public Health, College of Health and Human Services – 2009, Revised FY 2017

- Current Research and Professional Service
 - PI – Centers for Disease Control and Prevention (CDC), The National Institute for Occupational Safety and Health (NIOSH), Training Project Grant WKU EOHS Programs, Funded through June 30, 2022
 - PI – Hazardous Material Commodity Flow Studies in Kentucky, Kentucky Emergency Management and U.S. Department of Transportation, Funded through September 30, 2022
 - PI – Water Quality Assessments to Meet Stormwater Compliance – City of Greenbrier, TN, Funded through December 15, 2021.
 - PI – Water Quality Assessments to Meet Stormwater Compliance – City of Goodlettsville, TN, Proposal in progress for funded through May 31, 2022
 - PI – Assessment of Volunteer and Career Firefighters Exposures to Occupational Hazards in Northwestern Kentucky – Green River Firefighters Association, Firefighter Health Workgroup, Long-term research agenda
 - Co-I – Assessment of Firefighter Exposures during the COVID-19 Pandemic, National Institutes of Health, National Institute of Environmental Health Sciences, University of Louisville, funded through June 30, 2022
 - Co-I – Workplace Violence among black workers ages 18-24 in Southcentral Kentucky, National Institute of Occupational Health and Safety, Education and Research Center, University of Cincinnati, funded through June 30, 2022

- Recent University Service and Leadership Roles
 - Faculty Fellow for Research, WKU College of Health and Human Services, May 2021 - Current
 - Director, Environmental and Occupational Health Science Programs, Department of Public Health, 2015-May 2021 (M.S. in EOHS, M.S. in EOHS Online Program, EHS Graduate Certificate, B.S. in EOHS, Certificate in Occupational Safety and Health)
 - FY 2020 – Developed and Implemented JUMP 5-year program for B.S. to M.S. in EOHS
 - FY 2020 – Developed and Implemented online M.S. in EOHS
 - FY 2020 – Led M.S. in EOHS full accreditation with the National Environmental Health and Protection Accreditation Council through FY 2026
 - FY 2019 – Proposal for CDC/NIOSH Training Program Grant for M.S. in EOHS funded through 2022
 - FY 2019 - M.S. in EOHS Self-study and Environmental Health Accreditation Council Accreditation Site visit
 - FY 2019 - Developed Staffing Plan for Department of Public Health
 - FY 2018 - Curriculum revision – M.S. in EOHS
 - FY 2018 - Development of Internship and Research Portfolio System on Blackboard
 - Director, Center for Environmental and Workplace Health, First WKU CHHS Research Center, 2017-Current

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- FY 2021 – Development of Firefighter Health Workgroup
- FY 2020 – Continuance of NIOSH Training Program Grant
- FY 2019 – Implementation of the CEWH Strategic Plan
- Ribbon Cutting and Opening, November 29, 2017
- FY 2018 – Developed and submitted competitive proposal for the center
- FY 2018 – 12 proposals submitted by CEWH faculty; Nine funded
- FY 2018 Development of Strategic Plan for CEWH
- Served on the CHHS Administrative Council
- WKU Compensation Focus Group, April 2019
- EOHS Self-Study and Site Visit Chair, FY 2019
- EOHS Comprehensive Academic Program Evaluation (CAPE) Committee Chair, FY 2019
- WKU CHHS Comprehensive Academic Program Evaluation (CAPE) Review Committee, appointed, FY 2019
- WKU Research and Creative Activities Program (RCAP), Grants Reviewer, appointed, FY 2017-2018
- CHHS Dean’s Strategic Planning Committee, appointed, FY 2017-2018
- CHHS Strategic Planning Research Subcommittee, FY 2017-Current
- Current Dept. of Public Health committees: Chair and Member - Environmental and Occupational Health Science; Member - Public Health; Member – Junior Faculty Mentorship Committee
- EOHS Search Committee Chair
 - FY 2018 – Search successful – Hired Dr. Edrisa Sanyang
 - FY 2016 – Search successful – Hired Dr. Jooyeon Hwang
- MPH Search Committee Member, FY 2019
- Member of WKU Graduate Faculty
- Recent Teaching
 - Fall 2021
 - PH 501 Research Methods
 - PH 530 Independent Study: EOHS Research
 - EOHS 546 EOHS Internship
 - Spring 2021
 - ENV 280 Introduction to Environmental Science – 3.0 hours
 - ENV 380 Principles of Environmental Toxicology - 3.0 hours
 - EOHS 577 Environmental Toxicology – 3.0 hours
 - Fall 2020
 - EOHS 510 Watershed Management and Science – 3.0 hours
 - EOHS 546 Graduate EOHS Internship – 3.0 hours
 - EOHS 580 Solid and Hazardous Wastes – 3.0 hours
 - PH 501 Research Methods - 3.0 hours

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- Spring 2020
 - EOHS 546 Graduate EOHS Internship – 3.0 hours
 - EOHS 577 Environmental Toxicology - 3.0 hours
 - EOHS 570 Industrial Hygiene – 3.0 hours
- Fall 2019
 - ENV 460 Environmental Management – 3.0 hours
 - EOHS 580 Solid and Hazardous Wastes – 3.0 hours
 - PH 599 Thesis Research and Writing – 3.0 hours
- Spring 2019
 - ENV 495 Environmental Risk Assessment – 3.0 hours
 - EOHS 577 Environmental Toxicology – 3.0 hours
 - PH 385 Environmental Health – 3.0 hours
 - PH 599 Thesis Research and Writing – 3.0 hours
- Fall 2018
 - ENV 280 Introduction to Environmental Science – 3.0 hours
 - EOHS 510 Watershed Management and Science – 3.0 hours
 - EOHS 580 Solid and Hazardous Wastes – 3.0 hours
 - PH 599 Thesis Research and Writing – 3.0 hours
- Spring 2018
 - EOHS 577 Environmental Toxicology – 3.0 hours
 - EOHS 580 Solid and Hazardous Wastes – 3.0 hours
 - PH 456 Independent Study in Health and Safety – 3.0 hours
 - PH 546 Graduate EOHS Internship – 3.0 hours
 - PH 599 Thesis Research and Writing – 3.0 hours

2000 – 2003 Western Kentucky University Bowling Green, KY

- Director – Center for Water Resource Studies, Ogden College of Science and Engineering
 - WKU Technical Assistance Center for Small Water Systems
 - Ogden Environmental Water Quality Laboratory
 - Kentucky Center for Wastewater Research
- Adjunct Faculty – WKU, Department of Geography and Geology, Geosciences Program
- *Adjunct Faculty – WKU, Department of Public Health, Environmental Health and Safety Program*

1997 – 2000 University of North Texas Denton, TX

- Environmental Research Assistant – Institute of Applied Sciences (1997 – 2000) – City of Denton, TX – Investigating and modeling water quality impacts of the Pecan Creek Water Reclamation Plant
- GIS Instructor (Teaching Assistant) – Advanced Geographic Information Systems (1999 - 2000)

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- Field Instructor – Water Quality Techniques in Teaching Environmental Sciences (Summer 1999)

1997 – 2000 Ecologic

Denton, TX

- Environmental Consulting in the fields of water resources, wastewater utilities management, solid waste management, biological assessments, wetland delineations, GIS, and environmental planning and compliance

1992 – 1997 AquAeTer, Inc.

Brentwood, TN

- Environmental and Engineering Consulting Firm
- Water Resources Project Manager and Environmental Scientist (1992-1997)
 - Water quality studies, wasteload allocation, and water quality modelling
 - Environmental compliance and permitting, NPDES compliance and permitting
 - Aquatic bioassessments and toxicological studies
 - Project Management, Marketing, and Client Relations
 - Proposal development and report writing
 - Environmental scientist for hazardous waste management, environmental site assessments, and environmental permitting projects

1991 – 1992 The ADVENT Group, Inc.

Brentwood, TN

- Environmental and Engineering Consulting Firm
- Environmental Toxicologist and Scientist (1991 – 1992)
- Environmental Toxicology Laboratory Director (1992)

Additional Professional Experience

- Environmental Consulting – Dickson & Associates (1997 - 1998)
- ERM Southeast – Environmental Scientist (1990 – 1991)
- Tennessee Tech University – Graduate Research Assistant (1991)
- Tennessee Tech University – Graduate Teaching Assistant - Ecology (1989 – 1991)
- University of Georgia - Savannah River Ecology Lab, Savannah River Nuclear Site, Department of Energy – Ecological Research Intern, Ecosystem Transport of Radioisotopes (1988)

Research Grants, Contracts, and Proposals

\$2,444,898 Awarded during tenure at WKU (Dec. 1, 2000 - Current) – WKU Office of Sponsored Programs Records – External Grants and Contracts

Principal Investigator. U.S. Department of Health and Human Services Administration, U.S. Health Resources and Services Administration. 2022-2024. Kentucky Front-Line and Health Care Worker Resiliency Project (KRP). Proposal submitted through U.S. Health Resources and Services Administration, 9/20/2021.

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Ritchie Taylor – PI, Gretchen Macy – Co-PI, Tania Basta – Co-I, Edrisa Sanyang – Co-I , Austin Griffiths – Co-I, Kim Link – Co-I, Kara Haughtigan – Co-I, Kristina Burch – Co-I, and Lily Zhuhadar – Co-I

Collaborators from WKU College of Health and Human Services, Ogden College of Engineering and Science, and Gordon Ford College of Business in partnership with Northern Kentucky University

\$1,140,332

Principal Investigator. Kentucky Emergency Management and United States Department of Transportation. 2021-2022. Hazardous Materials Commodity Flow Study in Northern, KY. Funding through U.S. Department of Transportation/Pipeline and Hazardous Materials Safety Administration, Hazardous Materials Emergency Preparedness Grant.

Ritchie Taylor – PI, Jacqueline Basham – Co-PI, Gretchen Macy – Co-PI, and Edrisa Sanyang – Co-PI

\$129,993

Principal Investigator. Centers for Disease Control and Prevention (CDC). The National Institute for Occupational Safety and Health. 2017-2022. NIOSH Undergraduate Training Project Grant.

Ritchie Taylor -PI, Edrisa Sanyang – Co-PI, and Jacqueline Basham – Co-I

\$250,000

Principal Investigator. Centers for Disease Control and Prevention (CDC), The National Institute for Occupational Safety and Health. 2019-2022. NIOSH Graduate Training Project Grant.

Ritchie Taylor – PI, Edrisa Sanyang – Co-PI, and Jacqueline Basham – Co-I, Gretchen Macy – Co-I, and Cecilia Watkins – Co-I.

\$449,223

Principal Investigator. City of Goodlettsville, TN. 2021-2022. Water Quality Assessments for Stormwater MS4 Compliance. Fee for Service Contract.

Ritchie Taylor – PI and Jacqueline Basham – Co-PI

\$9,981

Principal Investigator. City of Greenbrier, TN. 2021. Water Quality Assessments for Stormwater MS4 Compliance. Fee for Service Contract.

Ritchie Taylor – PI and Jacqueline Basham – Co-PI

\$23,914

Co-Principal Investigator. Centers for Disease Control and Prevention (CDC), The National Institute for Occupational Safety and Health, University of Cincinnati Education and Research Center. Pilot Project: Workplace Violence Among Black Workers Ages 18-24 in Southcentral Kentucky.

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Edrisa Sanyang – PI, **Ritchie Taylor – Co-PI**, Gretchen Macy – Co-I, Jacqueline Basham – Co-I
\$20,800

Co-Principal Investigator. National Institute of Environmental Health Sciences, University of Louisville Center for Integrative Environmental Health Sciences. Pilot Project: Firefighter Practices and Exposure in Response to COVID-19 in Northwestern Kentucky.

Edrisa Sanyang – PI, **Ritchie Taylor – Co-PI**, Gretchen Macy – Co-I, Vijay Golla – Co-I
\$20,800

Principal Investigator. Kentucky Emergency Management and United States Department of Transportation. 2020. Hazardous Materials Commodity Flow Study in Scott County, KY. Funding through U.S. Department of Transportation/Pipeline and Hazardous Materials Safety Administration, Hazardous Materials Emergency Preparedness Grant.

Ritchie Taylor – PI, Jacqueline Basham – Co-PI, and Edrisa Sanyang – Co-PI
\$38,500

Principal Investigator. City of Goodlettsville, TN. 2019/20. Watershed Health Education for Stormwater Management. Fee for Service Contract.

Ritchie Taylor – PI, Jacqueline Basham – Co-PI, and Gretchen Macy – Co-I.
\$9,954

Principal Investigator. City of Louisville, KY MetroSafe, Kentucky Emergency Management, and U.S. Department of Transportation. 2019. Hazardous Materials Commodity Flow Study in Jefferson County, KY. Funding through City of Louisville, KY MetroSafe and U.S. Department of Transportation/Pipeline and Hazardous Materials Safety Administration, Hazardous Materials Emergency Preparedness Grant.

Ritchie Taylor – PI, Jacqueline Basham – Co-PI, Edrisa Sanyang – Co-I, and Vijay Golla – Co-I
Proposal Submitted for Funding January 2019 - \$85,000 – not funded

Principal Investigator. City of Goodlettsville, TN. 2018. Stream Corridor Assessment. Fee for Service Contract.

Ritchie Taylor – PI and Jacqueline Basham – Co-PI.
\$9,950

Principal Investigator. Pike County, Kentucky, Emergency Management. 2018. Funding by United States Department of Transportation through Kentucky Emergency Management. Hazardous Materials Commodity Flow Study.

Ritchie Taylor – PI, Jacqueline Basham – Co-PI, and Vijay Golla – Co-I.

Ritchie D. Taylor, Ph.D., M.S.

\$34,500

Principal Investigator. City of Bowling Green, KY. 2018. Assessment of Diesel Particulate Matter Exposures in Fire Stations.

Ritchie Taylor – PI, Jacqueline Basham – Co-PI, and Vijay Golla – Co-I.

\$2,574

Principal Investigator. City of Goodlettsville, TN. 2018. Turbidity Water Quality Study to Assess Runoff from Construction Sites. Fee for Service Contract.

Ritchie Taylor – PI and Jacqueline Basham – Co-PI.

\$3,819

Principal Investigator. Louisville Paving and Construction (LP&C), Louisville, KY. 2018. Crystalline Silica Exposure Assessment. Fee for Service Contract

Ritchie Taylor – PI, Jacqueline Basham – Co-PI, and Vijay Golla – Co-I.

Proposal Submitted for Funding – \$15K – not funded

Co-Principal Investigator. Centers for Disease Control and Prevention (CDC). The National Institute for Occupational Safety and Health. 2017-2022. NIOSH Training Project Grant.

Vijay Golla – PI, **Ritchie Taylor – Co-PI**, Jooyeon Hwang – Co-I, and Jacqueline Basham – Co-I

\$250,000

Principal Investigator. Oscarware, Inc., Bonnieville, KY. 2017-2018. Environmental Permitting, Compliance, and Sustainability Assessment.

Ritchie Taylor – PI and Jacqueline Basham – Co-PI

Professional Service Collaboration

Principal Investigator. Green River Watershed Watch and Kentucky Watershed Watch. 2017-Current. Analysis of Water Quality Data as Chair of Green River Watershed Watch Science Advisory Board.

Ritchie Taylor – PI and Jacqueline Basham – Co-PI

Professional Service Collaboration

Principal Investigator. Center for Environmental and Workplace Health, Internal funding through Western Kentucky University, College of Health and Human Services. 2017-Current.

Ritchie Taylor – PI, Cecilia Watkins – Co-PI, Jooyeon Hwang – Co-PI, Gretchen Macy – Co-PI, and Jacqueline Basham – Co-PI.

\$269,510 (Internal Approved budget for FY 2018-2019)

Ritchie D. Taylor, Ph.D., M.S.

Principal Investigator. Oldham County, Kentucky, Emergency Management. 2017. Funding by United States Department of Transportation through Kentucky Emergency Management. Hazardous Materials Commodity Flow Study.

Ritchie Taylor – PI, Vijay Golla – Co-PI, and Jacqueline Basham – Co-I.

\$35,000

Principal Investigator. City of Goodlettsville, TN. 2017. Watershed Health Education for Stormwater Management. Fee for Service Agreement.

Ritchie Taylor – PI and Jacqueline Basham – Co-I.

\$9,995

Principal Investigator. City of Portland, TN. 2016-2017. Watershed Health Assessment in the City of Portland, TN MS4 Jurisdiction. Fee for Service Agreement.

Ritchie Taylor – PI.

\$9,994

Co-Principal Investigator. Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH). 2014-2016. NIOSH Undergraduate Training Grant.

Vijay Golla – PI and **Ritchie Taylor Co-PI.**

\$150,000

Co-Principal Investigator, Evaluation of accumulated contaminants in firefighter vehicles. 2016. Internal Funding through WKU RCAP Grant. Research and Development Fund.

Jooyeon Hwang – PI, **Ritchie Taylor – Co-PI, Vijay Golla – Co-PI, and Mac Cann – Co-I.**

\$16,000

Principal Investigator, Development of the Hazardous Materials Information System for Emergency Response (HMISFER). 2016. Internal Funding through WKU RCAP Grant. Research and Development Fund.

Ritchie Taylor – PI, Vijay Golla – Co-PI, Stacey Wilson – Co-I, Ron Rizzo – Co-I

\$15,936

Co-Principal Investigator. Federal Emergency Management Agency. 2016. Evaluation of Firefighters Exposures to Fire Smoke Contaminants.

Jooyeon Hwang – PI, **Ritchie Taylor – Co-PI, Vijay Golla – Co-I, and Mac Cann – Co-I**

Proposal Submitted and Reviewed, not funded

Ritchie D. Taylor, Ph.D., M.S.

Co-Principal Investigator. Kentucky Biomedical Research and Infrastructure Network. 2016. Exposure Assessment of Volunteer Firefighters to Fire Smoke and Residual Contaminants.

Jooyeon Hwang – PI, Vijay Golla – Co-PI, and **Ritchie Taylor – Co-PI**

Proposal Submitted and Reviewed, not funded

Principal Investigator. City of Goodlettsville, TN. 2016. Bacteriological and Water Quality Assessment of the Mansker Creek Watershed. Fee for Service Agreement.

Ritchie Taylor - PI

\$9500

Principal Investigator. City of Goodlettsville, TN. 2016. Bioassessment of the Mansker Creek Watershed. Fee for Service Agreement.

Ritchie Taylor - PI

\$9,500

Principal Investigator. City of Goodlettsville, TN. 2015. Watershed Health Assessment of the Mansker Creek Watershed. Fee for Service Agreement.

Ritchie Taylor - PI

\$9,958

Principal Investigator. Shelby County, Kentucky, Emergency Management. Funding by United States Department of Transportation through Kentucky Emergency Management. 2015. Hazardous Materials Commodity Flow Study.

Ritchie Taylor – PI and Vijay Golla, Co-PI

\$38,000

Principal Investigator. City of Gallatin, TN. 2015. Watershed Health Assessment.

Ritchie Taylor - PI

\$5,773

Co-Principal Investigator. U.S. Health Resources and Services Administration. 2014. HRSA Public Health Traineeship Grant.

Proposal Submitted and Reviewed. Top 15% Score. Not funded. Proposed Budget \$393,740

Gary English – PI, Vijay Golla – Co-PI, and **Ritchie Taylor – Co-PI**

Ritchie D. Taylor, Ph.D., M.S.

Principal Investigator. City of Goodlettsville, TN. 2014. Bioassessment of the Mansker Creek Watershed.

Ritchie Taylor - PI

\$3,500

Co-Principal Investigator. Madison County, KY, Emergency Management. Funding by United States Department of Transportation through Kentucky Emergency Management. 2014. Hazardous Materials Commodity Flow Study.

PI – Vijay Golla and **Co-PI - Ritchie Taylor**

\$15,000

Principal Investigator. Montgomery County, KY, Emergency Management. Funding by United States Department of Transportation through Kentucky Emergency Management. 2014. Hazardous Materials Commodity Flow Study.

PI – **Ritchie Taylor** and Co-PI – Vijay Golla

\$20,000

Principal Investigator. Rowan County, KY, Emergency Management. Funding by United States Department of Transportation through Kentucky Emergency Management. 2014. Hazardous Materials Commodity Flow Study.

PI – **Ritchie Taylor** and Co-PI – Vijay Golla

\$20,000

Principal Investigator. United States Department of Agriculture. Funding through Center for Produce Safety, University of California, Davis. 2014. Produce Safety and Assessment of Pathogen Surrogates for Public Health Protection.

PI - **Ritchie Taylor** and Student Co-I – Ethan Givan

\$67,000

Co-Principal Investigator. Daviess County and Owensboro, KY, Emergency Management. Funding by United States Department of Transportation through Kentucky Emergency Management. 2013. Hazardous Materials Commodity Flow Study.

PI – Vijay Golla and **Co-PI – Ritchie Taylor**

\$25,000

Ritchie D. Taylor, Ph.D., M.S.

Principal Investigator. Henderson County, Kentucky, Emergency Management. Funding by United States Department of Transportation through Kentucky Emergency Management. 2013. Hazardous Materials Commodity Flow Study.

PI – Ritchie Taylor and Co-PI – Vijay Golla

\$25,000

Principal Investigator. Western Kentucky University, College of Health and Human Services, Faculty Research Grant. 2013-2014. Estrogenic Compounds in the Barren River Watershed and Implications for Human Health Protection.

PI – Ritchie Taylor

\$3,000

Principal Investigator. Kentucky Water Resources Research Institute, University of Kentucky. 2012-2013. Occurrence and Distribution of Estrogenic Compounds in the Barren River Watershed and Drinking Water in the City of Bowling Green, KY.

PI – Ritchie Taylor and Student Co-I – Roni Grigsby

\$5,500

Co-Principal Investigator. Kentucky Cabinet for Economic Development, Kentucky Commercialization Fund. 2012-Current. Development of the HazWatch System for Hazardous Material Commodity Flow Surveillance, HazWatch LLC.

PI – Gordon Bayliss, **Co-PI – Ritchie Taylor**, and Co-PI – Vijay Golla

\$100,000

Co-Principal Investigator. Louisville/Jefferson County Kentucky Emergency Management and Kentucky. 2012. Hazardous Materials Commodity Flow Study.

PI – Vijay Golla and **Co-PI – Ritchie Taylor**

\$65,000

Principal Investigator. Madison County Kentucky Emergency Management and Kentucky Emergency Management. 2011. Hazardous Materials Commodity Flow Study.

PI – Ritchie Taylor and Co-PI – Vijay Golla

\$40,000

Principal Investigator. Warren County Kentucky, Emergency Management. 2010. Hazardous Material Commodity Flow Study.

PI – Ritchie Taylor and Co-PI – Vijay Golla

Ritchie D. Taylor, Ph.D., M.S.

Professional Service collaboration.

Principal Investigator. Kingsford Manufacturing Corporation, Clorox Corporation. 2009-2010. Occupational Safety and Health Certificate Program. Summer Shade, Kentucky. Educational Program for Kingsford Employees developed through WKU DELO.

PI – Ritchie Taylor and Co-PI – Vijay Golla

\$100,000

Principal Investigator. USEPA. 2005-2007. Kentucky Nonpoint Source Education for Land Use Development. Water Education Program for Kentucky. Grant administered through Kentucky Division of Water.

PI – Ritchie Taylor

\$196,000 (including WKU match)

Principal Investigator. ACVPM Exam Prep Course. Developed through WKU DELO support. Distance education project with University of Maryland and ACVPM.

PI – Ritchie Taylor

\$3,250

Principal Investigator. Belize International Service Learning Program. 2005. Environmental Health Science, Research, and Service Learning. Belize, Gales Point Village. Joint Project with University of Louisville. Internal Grant.

PI – Ritchie Taylor

\$3,000

Co-Principal Investigator. USEPA. 2005. Assessment of Atrazine in Agricultural Watersheds in Kentucky: Understanding Use, Drinking Water Impacts, and Stakeholder Involvement. Co-Principal Investigator.

PI – Chris Groves and Co-PI – Ritchie Taylor

\$75,000.

Principal Investigator. Kentucky River Authority. 2005. Comprehensive Source Water Protection Program. Grant with Western Kentucky University.

PI – Ritchie Taylor

\$65,000

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Principal Investigator. Baylor University. 2004. Reservoir Transition Zone Index Project. Research with Baylor University and Parsons, Inc.

PI – Ritchie Taylor

\$9,000

Principal Investigator. Kentucky River Authority. 2004. Comprehensive Source Water Protection Program. Grant with Western Kentucky University.

PI – Ritchie Taylor

\$25,000

Principal Investigator. City of Denton, TX. 2002 - 2003. Water Quality Modeling and Assessment of Clear Creek. City of Denton Water and Wastewater Utilities. Contract with Western Kentucky University.

PI – Ritchie Taylor

\$9,500

Principal Investigator. USEPA, Drinking Water Branch, Washington, D.C. 2002. Technical Assistance Center for Water Quality. Grant with Western Kentucky University, CWRS.

PI – Ritchie Taylor, Co-PI – Chris Groves, Co-PI – Scott Grubbs, and Co-PI – Ouida Meier

\$498,000

Principal Investigator. Investigation of Treatment Methods to Reduce Trihalomethane Formation in BGMU Finished Water. Grant with Western Kentucky University, CWRS.

PI – Ritchie Taylor

\$15,000

Principal Investigator. USEPA, Drinking Water Branch, Washington, D.C. 2001. Technical Assistance Center for Water Quality. Grant with Western Kentucky University, CWRS.

PI – Ritchie Taylor, Co-PI – Chris Groves, Co-PI – Scott Grubbs, and Co-PI – Ouida Meier

\$498,000

Principal Investigator. Kentucky Department of Agriculture. 2001. Atrazine Sampling of Spa Lake. Grant with Western Kentucky University, CWRS.

PI – Ritchie Taylor

\$3,500

Manuscripts

Peer Reviewed – Published and Submitted

Taylor, R.T., G.B. Macy, J. Hwang, V. Golla, and C. Cann. 2021. Using collaborative partnerships to engage firefighters in rural communities. *International Journal of Environmental Research and Public Health*. Submitted April 1, 2021. Manuscript ID ijerph-1187696.

Macy, G.B., J. Hwang, R. Taylor, V. Golla, C. Cann, and B. Gates. 2020. Examining behaviors related to retirement, cleaning, and storage of turnout gear among rural firefighters. *Workplace Health and Safety*. 68(3): 129-138. <https://doi.org/10.1177/2165079919882951>.

Hwang, J., R. Taylor, G. Macy, C. Cann, and V. Golla. 2019. Comparison of use, storage, and cleaning practices for personal protective equipment between career and volunteer firefighters in Northwestern Kentucky in the United States. *Journal of Environmental Health*. 82(5):8-14. <https://www.neha.org/sites/default/files/publications/jeh/JEH12.19-Feature-Comparison-of-Use-Storage-Cleaning-Practices.pdf>

Hwang, J., R. Taylor, C. Cann, V. Golla, W. Gilbert. 2019. Assessment of ambient air diesel particulates in fire departments using different exposure metrics: Pilot Study. *Fire Safety Journal*. 106 (2019): 155-162. <https://doi.org/10.1016/j.firesaf.2019.04.005>.

Hwang, J., R. Taylor, C. Cann, P. Norris, and V. Golla. 2019. Evaluation of accumulated polycyclic aromatic hydrocarbons and asbestiform fibers on firefighter vehicles: Pilot Study. *Fire Technology*. March 30, 2019. <https://doi.org/10.1007/s10694-019-00851-7>.

Statnam, A., V. Golla, S.J. Vasa, R.D. Taylor. 2019. Exposure to computer work and prevalence of musculoskeletal symptoms among university employees: a cross-sectional study. *Journal of Environmental Health*. 81(7):14-19. <https://www.neha.org/node/6057>.

Cook, K.L, E.C. Givan (WKU MPH Student), H.M. Mayton, R.R. Parekh, R.D. Taylor, and S.L. Walker. 2017. Using the agricultural Environmental to select better surrogates for foodborne pathogens associated with fresh produce. *International Journal of Food Microbiology*. 262(2017): 80-88. <https://pubmed.ncbi.nlm.nih.gov/28968533/>.

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- Taylor, R.D., J. White and T. Nicholson. "Radon GIS and zone maps for Kentucky". (2007). Western Kentucky University, Department of Public Health. Completed for Kentucky Department for Public Health.
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Taylor, R.D. and K.L. Dickson. Water quality modeling and characterization of Pecan Creek, Denton County Texas. (2001). University of North Texas, Institute of Applied Sciences. Denton, TX (for Trinity River Authority and Texas Natural Resource Conservation Commission).

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Taylor, R.D. 2004. Partnerships for Source Water Protection. *Pesticide and Nutrient BMP's from the Classroom to the Field*. (2004). Kentucky Department of Agriculture. Environmental Education CD.

Taylor, R.D. 2003. Agricultural Partnerships for Source Water Protection. *AWWA Source Water Protection Symposium Workshop*. (2003). CD Volume I, Materials for the Design of Best Management Practices for the Source Water Protection Workshop. U.S. EPA, Office of Ground Water and Drinking Water, Drinking Water Protection Division.

Scholarly Presentations

Selected Peer-reviewed Abstracts, Conference and Symposia Presentations

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- Sanyang, E., R. Taylor, G. Macy, A. Adams (student), V. Golla, R. Carrico, L. Huntington-Moskos. October 2021. Firefighter practice and exposure in response to COVID-19 in Northwestern Kentucky. CIEHS Research Symposium, Center for Integrative Environmental Health Sciences, University of Louisville, NIH funded Center. Louisville, KY.
- Sanyang, E., J.R. Basham, G. Macy, R.D. Taylor, and J.B. Richardson. October 2021. Workplace violence among young black workers ages 18-24 in Southcentral Kentucky. PRP Symposium, University of Cincinnati, NIOSH Education and Research Center. Cincinnati, OH.
- Gilbert, W. (student), M. Chaudhari (student) and R.D. Taylor. June 2020. Analysis of real-time particulate monitoring in career, volunteer, and mixed career-volunteer fire stations. AIHACE EXP 2020 – Virtual Annual Conference and Exhibition. American Industrial Hygiene Association. Falls Church, VA.
- Chaudhari, M. (student), W. Gilbert (student) and R.D. Taylor. June 2020. Evaluation of particulate matter concentrations in the day rooms of career, volunteer, and mixed career-volunteer fire stations. KPHA 2020, Virtual Annual Conference. Kentucky Public Health Association. Frankfort, KY.
- Hartman, S. (student), J.R. Basham, and R.D. Taylor. May 2020. Atrazine concentrations in public drinking water supplies in three Kentucky counties. KPHA 2020, Virtual Annual Conference. Kentucky Public Health Association. Frankfort, KY.
- Ibekwe, O. (student), R.D. Taylor, and W. Mkanta. November 2019. Evaluation of water fountains for secondary contamination: How safe is the quality of drinking water on-campus? APHA 2019, Annual Meeting and Expo. American Public Health Association. Philadelphia, PA.
- Gadde, D. (Student), V. Golla, R.D. Taylor, and X. Ding. November 2018. Assessment of ergonomics in Indian dental practice. APHA 2018, Annual Meeting and Expo. American Public Health Association. San Diego, CA.
- Hwang, J., R. Taylor, W. Gilbert (student), and V. Golla. October 2018. Assessment of diesel particulates using different exposure metrics: pilot study. PRP Symposium, University of Cincinnati, NIOSH Education and Research Center. Cincinnati, OH.
- Hwang, J., R. Taylor, C.M. Cann, P. Norris, and V. Golla. May 2018. Exposure to residual polycyclic aromatic hydrocarbons in firefighter vehicles: Pilot Study. American Industrial Hygiene Association, Annual Conference, AIHCE EXP 2018. Philadelphia, PA.
- Taylor, R.D. and J.R. Basham. February 2018. Hazardous Materials Commodity Transport in Kentucky and a Tool for Emergency Management. Kentucky Environmental Health Association, Annual Conference 2018. Bowling Green, KY. (Invited Speaker)
- Hwang, J., R. Taylor, V. Golla, and C.M. Cann. October 2017. Assessment of diesel particulates in fire departments using different exposure metrics. NIOSH PRP Symposium. University of Cincinnati.
- Hwang, J., R. Taylor, M. Cann, G. Macy, and V. Golla. April 2017. A Mixed-Methods Approach to Assessing Exposure of Firefighters in Kentucky to Fire Smoke and Occupational Air Contaminants. Council of State and Territorial Epidemiologists. 6th Annual Southeastern States Occupational Network (SouthON) Meeting. Nashville, TN.
- Stanam, A., V. Golla, S. Vasa, and R.D. Taylor. November 2017. Exposure to computer work and prevalence of musculoskeletal symptoms among university employees: a cross-sectional study. APHA 2018, Annual Meeting and Expo. American Public Health Association. Atlanta, GA.

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- Basham, J.R., R. Taylor, and V. Golla. May 2016. A comparison of hazardous materials in five Kentucky counties: urban vs. rural gradient. American Industrial Hygiene Association Annual Conference and Exhibition. Baltimore, Maryland.
- Shirley, M. (student), R. Lauth (student), and R. Taylor. April 2016. Watershed Health Assessment for a Small MS4 in the Mansker Creek Watershed. Western Kentucky University Student Research Conference. Bowling Green, KY.
- Taylor, R., M. Shirley (student), and R. Lauth. April 2016. Watershed health as a model for human health protection and water quality. Kentucky Public Health Association Annual Conference. Owensboro, KY.
- Cook, K., R. Taylor, and E. Givan (student). June 2015. Selection of *E. coli* surrogates with attachment and survival patterns similar to pathogens associated with produce. *CPS Produce Research Safety Annual Symposium*. Atlanta, GA.
- Givan, E. (student), R. Taylor, and K. Cook. April 2014. Selection of *E. coli* surrogates for Produce Safety. *Kentucky Public Health Association, Annual Conference*. Owensboro, KY.
- Grigsby, R. (student) and R. Taylor. March 2013. Occurrence of Synthetic Estrogen in Surface Water, Sourcewater and Drinking Water in the Barren River Watershed. *Kentucky Water Resources Research Symposium*. Lexington, KY.
- Taylor, R.D., J.R. Brown (student), A. Murray and K. Smith. November 2012. An innovative approach to service learning and watershed management. *American Water Resources Annual Conference*. American Water Resources Association. Jacksonville, FL.
- Ibekwe, O. (student), R.D. Taylor and W. Mkanta. November 2012. Assessment of the drinking water quality from on-campus water fountains. *APHA 140th Annual Meeting and Expo*. American Public Health Association. San Francisco, CA.
- Chavan, P. (student), V. Golla, R.D. Taylor and C. Ellis (student). April 2012. Hazardous material commodity flow analysis in Madison County, Kentucky. *KPHA Annual Meeting*. Kentucky Public Health Association. Louisville, KY.
- Brown, J.R. (student), R.D. Taylor, E.R. Barringer (student). April 2012. Water quality measurements as a tool to assess stormwater Impacts. *KPHA Annual Meeting*. Kentucky Public Health Association. Louisville, KY.
- Taylor, R.D., V. Golla, and S. Advani (student). 2011. November 2012. Hazardous materials commodity flow analysis: Warren County, Kentucky. *APHA 139th Annual Meeting and Expo*. American Public Health Association. Washington, D.C.
- Advani, S. (student), R.D. Taylor and V. Golla. April 2011. Commodity flow of hazardous materials in Warren County, Kentucky. *KPHA Annual Meeting*. Kentucky Public Health Association. Louisville, KY.
- Taylor, R.D., B. Strenecky, D. Carter, B. Petty, D.G. Wright, M.E. Main, M.B. Kerby, J. Norris (student), M. Calico (student), and R. Nair (student). November 2010. *APHA 138th Annual Meeting and Expo*. American Public Health Association. Denver, CO.
- Kerby, M.B., D.G. Wright, M.E. Main, R.D. Taylor and D.M. Carter. June 2010. IMPACT Belize 2010. *8th Annual American Democracy Project National Meeting*. American Democracy Project and the American Association of State Colleges and Universities. Providence, RI.
- Taylor, R.D., S. Ranapurwala (student), and M. Hill (student). November 2009. Protection of Public Health and Capacity Development for a Rural Water System in Gales Point, Belize – An Environmental Health

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- Service Learning Project. American Public Health Association. APHA 137th Annual Meeting and Expo. Philadelphia, PA.
- Mishra, S. (student), V. Golla, R. Taylor, and J. Nelms (student). November 2008. Atrazine in Drinking Water: Exposure Assessment and Analysis. American Public Health Association. APHA 136th Annual Meeting and Expo. San Diego, CA.
- Taylor, R.D., V. Golla, J. Willcox, J. Nelms (student), and S. Melky (student). November 2007. An Integrated Approach to Source Water Protection and Awareness in Rural Agricultural Watersheds. American Public Health Association. *APHA 135th Annual Meeting and Exposition*. Washington, D.C.
- Kinthead, G. (student), R. Grigsby (student), B. Vickous (student), and R.D. Taylor. November 2007. A Hazardous Chemical Release Analysis and GIS for Environmental Protection and Emergency Management in Bowling Green and Warren County, Kentucky. *Southeast Regional Environmental Science and Health Symposium*. Centers for Disease Control, Atlanta, GA.
- Nelms, J. (student), Taylor, R.D., and V. Golla. November 2007. Sourcewater protection in rural agricultural watersheds in Kentucky and implications of atrazine monitoring. American Water Resources Association. AWRA Annual Water Resources Conference. Albuquerque, NM.
- Taylor, R.D., K.L. Dickson, and V. Golla. May 2006. Drought induced dissolved oxygen dynamics of an effluent dominated stream entering a reservoir backwater and implications for environmental compliance. *5th International Conference on Environmental Informatics*. Vol. 4 (2006). Presentation of paper # 94. <http://www.iseis.org/Events/ISEIS2006/confPapers.htm#wwt>
- Taylor, R.D., E. Collins, and J. Burns. January 2005. Kentucky Pesticide Workgroup: An Integrated Approach to Source Water Protection in Kentucky's Agricultural Basins. *AWWA 2005 Source Water Protection Symposium*. Session T6 – Effective Partnerships for Protecting Source Water Part II. Palm Beach Gardens, FL.
- Taylor, R.D. and J. Willcox (student). November 2004. Partnerships for Source Water Protection in Agricultural Watersheds within Kentucky. *Public Health and the Environment*. APHA 132nd Annual Meeting and Exposition. Washington, D.C.

Selected Invited Presentations

- Basta, T., Macy, G., Taylor, R., Basham, J.R., Watkins, C., and Sanyang, E. February 2021. The Center for Environmental and Workplace Health: Engaging Students and the Community through Focused Research, Training, and Outreach. The CHHS Research Seminar Series, WKU College of Health and Human Services. Bowling Green, KY. https://www.youtube.com/watch?v=MITvog_GU0s
- Taylor, R.D. January 2021. NIOSH Training Program Grant at WKU and Recruitment of Underrepresented Minority Students. Centers for Disease Control and Prevention, National Institute of Occupational Safety and Health. NIOSH Training Program Grant Workgroup Video Conference. Atlanta, GA.
- Taylor, R.D. and Gilbert, W. (student). July 2019. Watershed Health in the Mansker Creek Watershed: Turbidity and Habitat Assessment Studies. Goodlettsville Stormwater Management Council. City of Goodlettsville, TN. City Hall, Goodlettsville, TN.
- Taylor, R.D. and J.R. Basham. January 2019. Assessment of Diesel Particulate Matter in City of Bowling Green Fire Stations. City of Bowling Green, KY. Fire Administration Building. Bowling Green, KY.

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- Taylor, R.D., J. Hwang, and G. Macy. 2018. Review of recent firefighter health studies conducted by Western Kentucky University. Kentucky Fire Commission, Defend Yourself from Carcinogens, Learn What You Can Do. State Fire Training Center, # 6. Louisville, KY.
- Basham, J.R. and R.D. Taylor. 2018. Green River Watershed Water Quality Data Review - 2018. Green River Watershed Watch Annual Conference. Bowling Green, KY.
- Basham, J.R. and R.D. Taylor. 2018. Oldham County, KY Hazmat Commodity Flow Study. Oldham County Local Emergency Planning Commission, January Meeting. Oldham County Emergency Management. LaGrange, KY.
- Taylor, R.D., J. Hwang, G.M. Macy, J.R. Basham, and C.M. Watkins. 2018. Firefighter Health Research: WKU Center for Environmental and Workplace Health. Plenary Address at the Bryant Stiles Officers School, Kentucky Fire Commission Assembly. Owensboro Convention Center, Owensboro, KY.
- Taylor, R.D., W. Mkanta, J. Hwang, D. Babb, K.J. Crandall, and L. Winchester. 2018. How to Prepare A Successful RCAP Application. CHHS Research Methods Workshop. WKU College of Health and Human Services. Bowling Green, KY.
- Taylor, R.D. and J.R. Basham. 2018. Citizen Science: Assessing Watershed Health. Green River Watershed Watch Annual Conference. Bowling Green, KY.
- Basham, J.R. and R.D. Taylor. 2017. Hazardous Materials Commodity Flow Studies in Kentucky and Future Directions. Kentucky Emergency Response Commission, Kentucky Emergency Management. Versailles, KY.
- Hwang, J. and R.D. Taylor. 2017. Firefighters, Occupational Exposures and Lessons Learned in Northwest Kentucky. CHHS Works in Progress Workshop. WKU College of Health and Human Services. Bowling Green, KY.
- Taylor, R.D. and J. Basham. 2016. Comparison of Hazardous Materials Commodity Flow Studies in Five Kentucky Counties: Urban vs Rural Gradient. Kentucky Governor's Emergency Management Workshop, Kentucky Emergency Management. Louisville, KY.
- Taylor, R.D. and J. Basham. 2016. Hazardous Materials Commodity Flow Studies, Future Needs, and New Directions. Kentucky Governor's Emergency Management Workshop, Kentucky Emergency Management. Louisville, KY.
- Taylor, R.D. and J. Basham. 2016. Hazardous Materials Commodity Flow Study. Kentucky Governor's Emergency Management Workshop, Kentucky Emergency Management. Louisville, KY.
- Taylor, R.D. and J. Basham. 2016. Rural to Urban Gradient Hazmat Commodity Flow Study in Western Kentucky. Kentucky Emergency Management Workgroup. Frankfort, KY.
- Taylor, R.D. and M. Shirley. 2016. Watershed Health Assessment in the Mansker Creek Watershed. Middle Tennessee Stormwater Association. Quarterly Meeting. White House, TN.
- Groves, C. and R.D. Taylor. 2015. Karst and Human Health Considerations. Tennessee Stormwater Association Workshop: Stormwater and Karst Geology. Lebanon, TN.
- Taylor, R.D., V. Golla, and J. Eagleson. 2013. Henderson County, Kentucky Hazardous Materials Commodity Flow. Henderson County Emergency Management and Local Emergency Planning Committee, Quarterly Meeting. Henderson, KY.

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- Taylor, R.D., V. Golla, and J. Eagleson. 2013. Daviess County, Kentucky Hazardous Materials Commodity Flow. Daviess County Emergency Management and Local Emergency Planning Committee, Quarterly Meeting. Owensboro, KY.
- Taylor, R.D. and V. Golla. 2013. Conducting a Hazardous Materials Commodity Flow Study in Your Community. Kentucky Emergency Management, Commonwealth Emergency Response Commission, Quarterly Meeting. Frankfort, KY.
- Taylor, R.D. and V. Golla. 2012. Louisville/Jefferson County Hazardous Materials Commodity Flow Study. Louisville/Jefferson County Local Emergency Planning Committee, Quarterly Meeting. Louisville, KY.
- Taylor, R.D. 2009. Belize International Health Service Learning. National Meeting for the \$100 Solution. Western Kentucky University, Alive Center.
- Taylor, R.D. 2008. International Environmental Service Learning: The Belize Experience. International Service Learning Symposium, Murray State University.
- Taylor, R.D. 2007. Communicating with students through online course content. WKU Online Teacher's Summer Workshop. Western Kentucky University. Online Teaching Panel Discussion.
- Golla, V., R.D. Taylor, and J. Nelms. 2007. Farm Families' Potential Exposures to Pesticides through Drinking Water. Kentucky Pesticide Workgroup, Spring Meeting. Frankfort, KY.
- Taylor, R.D. 2006. Reducing the Risks of Waterborne Illnesses and Improving Public Health in Gales Point, Belize. Rotary International Water Summit. Louisville, KY.
- Taylor, R.D. January – April 2005 – April 2006. Kentucky Pesticide Workgroup: Assisting Farmers and Rural Communities in the Protection of Drinking Water Supplies. In Cooperation with Kentucky Department of Agriculture. Five Regional Best Management Practices Workshops in Kentucky.
- Taylor, R.D. January 2005. Implementing Source Water Protection Programs in Rural Agricultural Communities. *AWWA 2005 Source Water Protection Symposium*. Best Management Practices Workshop. Palm Beach Gardens, FL.
- Taylor, R.D. 2004. Partnerships for Source Water Protection: Kentucky Case Studies. *AWWA Sources of Water Conference*. BMPs for Source Water Protection Workshop. Austin, Texas.
- Taylor, R.D. 2003. Developing Partnerships for Source Water Protection in Agricultural Basins. *USEPA National Source Water Protection Conference*. Leveraging Rural Partnerships, Session C4. Washington, D.C. <http://www.epa.gov/safewater/protect/conference/presentations.html#c4>
- Brooks, B., T. Riley, and R.D. Taylor. 2003. Water Quality of Effluent Dominated Ecosystems: Ecotoxicological, Hydrological, and Management Considerations. *North American Benthological Society, 5th International Poster Session Conference, Aquatic Ecosystems and Organisms*. Invited distant participants. Moscow, Russia.
- Taylor, R.D., P. East, and A. Lange. October 2002. The Utility Management Institute: Providing Opportunities for Capacity Development of Small Water Systems. Association of State Drinking Water Administrators, Annual Conference. Invited speaker. Salt Lake City, Utah.
- Taylor, R.D. April 2002. Assisting Small Systems in Capacity Development: the Technical Assistance Center for Water Quality at Western Kentucky University. EPA Region 4, State Water Administrators Workshop. Atlanta, GA.
- Taylor, R.D. April 2002. The Utility Management Institute and On-line Courses for Water Utility Managers. EPA Region 4 and 6, Capacity Development Workshop. Dallas, TX.

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Taylor, R.D. April 2002. The Utility Management Institute and On-line Courses for Water Utility Managers. EPA Region 4 and 6, Capacity Development Workshop. Dallas, TX.

Taylor, R.D. January 2002. Storm Water Management in Warren County, Kentucky. Warren County Planning and Zoning Commission, Training Session. Warren County KY Planning and Zoning.

Professional Awards, Honors, and Service

- Research Award, Prolific Research Grant Proposal Development, FY 2018. Awarded by Western Kentucky University, Office of Sponsored Programs.
- Chair, Firefighter Health Research Committee, Community Based Participatory Research, WKU and Green River Firefighters Association Partnership, September 2016 - Current
- Chair, Firefighter Health Research Committee, Community Based Participatory Research, WKU and City of Bowling Green Partnership, September 2018 - Current
- Appointed Member of University of Cincinnati, NIOSH Education and Research Center, Pilot Research Grant Committee, October 1, 2018 - Current
- Appointed Member of Supporting Heroes, Nonprofit Organization, Cancer Review Committee, August 1, 2018-Current
- Appointed Science Advisory Board Chair, Green River Watershed Watch, Member of Science Advisory Board, Kentucky Watershed Watch, August 1, 2017-Current
- Research Award, Prolific Research Grant Proposal Development, FY 2017. Awarded by Western Kentucky University, Office of Sponsored Programs.
- Research Award, Prolific Research Grant Proposal Development, FY 2016. Awarded by Western Kentucky University, Office of Sponsored Programs. December 7, 2016.
- Outstanding Faculty Award for Public Service, Western Kentucky University, College of Health and Human Services. 2014. This award is given to a faculty member in the College of Health and Human Services for distinguished activity in Public Service. Categories of public service, which are encompassed, include technical assistance services; consultation activities; service to public and professional organizations; special services to individual clients; and application of knowledge to the resolution of public problems.
- Bill Patton Environmental Service Award. 2013. Awarded by Kentucky Public Health Association. In honor of demonstrated exceptional performance, outstanding achievements and meritorious service in Environmental Services. Awarded for meritorious service and applied research in Kentucky communities focused on emergency preparedness and response to hazardous materials transport. April 18, 2013. Presented at the Kentucky Public Health Association Annual Conference, Louisville, KY.
- Most Prolific Proposer, WKU, College of Health and Human Services. 2012. Awarded by Western Kentucky University, Office of Sponsored Programs. November 26, 2012.

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- Award for Grant Funding at Western Kentucky University, 1.0 M Level, WKU Office of Sponsored Programs - 2001
- Social Contract with village of Gales Point, Belize. 2008.
- Moderator – AWWA 2005 Source Water Protection Symposium – Session T7 – Land Use Issues on the Protection of Source Water
- Board of Directors, Kentucky Health and Safety Network – 2005-2007
- Member of the Kentucky Pesticide Workgroup – 2002-2008
- Member of the Watershed Trainers Group, Kentucky Division of Water – 2006 – 2010
- Scientific Advisor, Rough River Source Water Protection Council – 2003 – 2004
- Scientific Advisor, Lake Linville Watershed Protection Advisory Group – 2005 - 2006
- Member of the KY Dept. of Agriculture’s Pesticide and Nutrient BMP’s Training Group –2005-2008
- Technical Advisor, City of Goodlettsville, Stormwater Management Program, 2006-Current
- Chair, Science Advisory Board, Green River Watershed Watch, 2017-Current
- Member, Science Advisory Board, Kentucky Watershed Watch, 2017-Current

University Service

- Director, WKU Center for Environmental and Workplace Health in the College of Health and Human Services (August 15, 2017 – Current) – Direct all aspects of planning, management, research, development, and outreach related to the Center. Research and outreach initiatives include Firefighter Health, Occupational Safety and Health, Environmental Health, Stormwater Management, Workplace Health Promotion, and Emergency Management and Preparedness.
- Director, Department of Public Health, Environmental and Occupational Health Science Programs (June 1, 2016 – Current) - Direct program curriculum development, manage program assessment, faculty development and mentoring, lead program faculty and collaboration, advise students, direct internship programs, strategic planning, and ensure attainment of program goals and objectives.
- Member, CHHS Strategic Plan Subcommittee, International Experiences and Study Away (November 1, 2016 – June 30, 2018) – Served to develop strategies to accomplish the international experiences and study away objectives stated in the CHHS 2016 Strategic Plan.
- Member, CHHS Strategic Plan Subcommittee, Research (November 1, 2016 - Current) – Serve to develop strategies to accomplish the research objectives stated in the CHHS 2016 Strategic Plan.

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- Member, CHHS Dean's Strategic Planning Committee – Serve to develop a strategic plan for the College of Health and Human Services. (2016 - 2018). Reviewed and updated the 2006 strategic plan and revised vision, mission, and values.
- Chair, EOHS Assistant Professor Search Committee (October 15, 2017 – May 15, 2018). Reviewed and interviewed candidates for the Assistant Professor tenure track position. Successful search. Dr. Edrisa Sanyang selected as the candidate for the position.
- Chair, EOHS Assistant Professor Search Committee (October 14, 2015 – March 15, 2016). Reviewed and interviewed candidates for the Assistant Professor tenure track position. Successful search. Dr. Jooyeon Hwang selected as the candidate for the position.
- Environmental Institute Steering Committee (2013-2014) – Development of an Environmental Institute at WKU for Research, Service, and Outreach, appointed by the Vice President for Research
- Public Health Committee (2003-Current) – Development and review of Dept. of Public Health policies and procedures, curriculum review, and assessment of student and alumni data
- Master of Public Health Committee (2003-2017) - Preparation of materials for CEPH accreditation of MPH program, graduate comprehensive exam, policies and procedures, program assessment, and evaluation of program goals and objectives
- Director, Dept. of Public Health, Environmental Health Science Program (2004-2012, 2014-May 31, 2016), faculty development and mentoring, undergraduate program and graduate MPH concentration, direct academic programs, advise students, manage internship program, market program to extended campuses, assess program, and develop business plans for future growth
- Member, WKU Graduate Faculty, 2003 - current
- Member, WKU Graduate Council, 2009-2010
- Chair, Environmental and Occupational Health Science Committee, faculty development and mentoring, curriculum development and review, policies and procedures, development of a research agenda, space and facilities, program review and assessment – 2015 - Current
- Chair, Environmental Health Science Committee, faculty development and mentoring, curriculum development and review, policies and procedures, space and facilities, develop growth plans, and provide recommendations to Department Head, 2004 – 2012, 2014-2015
- College of Health and Human Services, Space and Facilities Committee, review space and facilities for CHHS, develop recommendations for space and facilities, and report findings to CHHS Dean, 2004-2012
- College of Health and Human Services, Graduate Curriculum Committee, Alternate Member, review graduate curriculum changes and make recommendations for graduate curriculum, 2012-Current

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- Environmental Health Science Student Association, Faculty Advisor, advise students on actions to attain the goals of the EHSSC Student Association, and direct service learning and research – 2012-Current

Public and Community Service

- Member, University of Louisville, Center for Integrative Environmental Health Sciences, External Advisory Board, 2020-Current
- Member, Technical Advisor, Kentucky Department of Public Health, Environmental Public Health Tracking Network, 2014-Current
- Technical Assistance to Kentucky Emergency Management, Hazardous Materials Emergency Preparedness, Development of Program Goals, Research Needs, and Program Proposals, 2010 – Current
- Technical Assistance to Communities Throughout Kentucky, Hazardous Materials Emergency Preparedness, 2010 – Current
- Technical Advisor for Stormwater and Watershed Management. Includes Student Research and Service Learning. City of Goodlettsville, TN. Public Works, Stormwater Management, 2010 – Current
- Technical Advisor for Stormwater and Watershed Management. Student Research and Service Learning. City of Portland, TN. Public Works, Stormwater Management, 2016 – Current
- Technical Advisor for Stormwater and Watershed Management. Includes Student Research and Service Learning. City of Millersville, TN. Public Works, Stormwater Management, 2010 – 2015
- Technical Assistance to Warren County Emergency Management, Local Emergency Planning Committee, Development of Grant Proposal for Hazardous Chemical Transport and Safety in Warren County, KY, Spring 2010
- Technical Assistance to City of Bowling Green, Public Works Department, Stormwater Management Program, Illicit Discharge Detection, Directed Student Research and Service Learning Project, Fall 2007 – 2008
- Technical Assistance to Warren County, Kentucky, Stormwater Management Program, Illicit Discharge Detection, Directed Student Research and Service Learning Projects, Assistance with Household Hazardous Waste Day, Fall 2013 – Current
- Technical Assistance to City of Bowling Green and Warren County, Emergency Management Program, Analysis of Hazardous Chemical Use and Transportation in Bowling Green and Warren County, Directed Student Research and Service Learning Project, Spring 2006-2007
- Scientific Advisor and Technical Assistance to water systems and communities in rural Kentucky for Source Water Protection and Water Quality Issues – 2000 - Current
- Volunteer, Science Lab Volunteer Lecturer and Classroom Volunteer, McNeill Elementary School, 2001-2007
- Deacon, Teacher, Missionary and Volunteer, Eastwood Baptist Church, Bowling Green, KY, 2001 – 2021
- Volunteer and Missionary, Hillvue Heights Church, Bowling Green, KY, 2021-Current

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- Youth Baseball, Softball, Basketball, and Football Coach, Warren County Parks and Recreation and City of Bowling Green, 2001- 2014, 2018-2020

Theses, Capstones, and Directed Student Research

- Doctoral Dissertation Chair. Basham, Jacqueline. “Effect of Safety Leadership on Safety Education in Manufacturing Settings”. (To be completed Spring 2022). *Doctor of Education, Educational Leadership*.
- Capstone Chair. Chaudhari, Mamata. “Comparison of Particulate Matter Concentrations in Career and Volunteer Fire Stations”, (Spring 2019). *Master of Science, Environmental and Occupational Health Science*.
- Capstone Project. Students - Merkson, F., W., Gilbert, G., A. Patel, and G. Patrick. “Watershed Health Assessments in Mansker Creek Watershed, City of Goodlettsville, TN”, (Completed Spring 2019).
- Master Thesis Chair. Gadde, Divya. “Assessment of Ergonomics in Indian Dental Practice: A Workplace Analysis” (2018). *Master of Science, Environmental and Occupational Health Science*.
- Master Thesis Chair. Givan, Ethan. “Evaluation of E. Coli Surrogates for Produce Safety and Public Health Protection” (2015). *Master of Public Health, Environmental Health*.
- MPH Capstone Chair. Obuhoro, Olosengbuan. “Noise Assessment of Workers in a Bedding Manufacturing Facility” (2015). *Master of Public Health, Environmental Health*.
- Graduate Assistant Supervisor. Rebecca Lauth. Watershed Health Assessment of the Mansker Creek Watershed and Evaluation of *E. coli* Surrogates for Produce Safety (2015).
- Graduate Student Research Supervisor. Matthew Shirley. Watershed Health Assessment of the Mansker Creek Watershed (2015).
- Graduate Research Assistant Supervisor. Ethan Givan. Evaluation of *E. coli* Surrogates for Produce Safety (2014-2015).
- MPH Capstone Chair. Joshi, Awijeeta. “Analysis of the Mercury Fish Consumption Advisory for Public Health Protection in Kentucky” (2015). *Master of Public Health, Environmental Health*.
- MPH Capstone Chair. Yang, Qi. “Evaluation of Foodborne Illnesses in the Barren River District Kentucky from 2003 through 2011” (2015). *Master of Public Health, Environmental Health*.
- MPH Capstone Chair. Yang, Qi. “Evaluation of Foodborne Illnesses in the Barren River District Kentucky from 2003 through 2011” (2015). *Master of Public Health, Environmental Health*.
- MPH Capstone Chair. Ruizi, Ge. “Evaluation of Atrazine Contamination of a Community Water Supply in Kentucky” (2015). *Master of Public Health, Environmental Health*.

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- MPH Capstone Chair. Sagi, Vishwaneth. "A Retrospective Analysis of Lung Cancer Demographics and Outcomes in the United States: A SEER Database Analysis." (2015). *Master of Public Health, Environmental Health*.
- Honor's Thesis Chair. Hunter, Alexandra L., "Assessment of Estrogenic Compounds in a Wastewater Treatment Plant Influent and Effluent" (2015). *Honors College Capstone Experience/Thesis Projects*. Paper 584. http://digitalcommons.wku.edu/stu_hon_theses/584
- Honor's Thesis Chair. Center, Rebecca, "Risk Assessment of Hazardous Materials Transported by Rail through the WKU and Bowling Green, Kentucky Corridor" (2015). *Honors College Capstone Experience/Thesis Projects*. Paper 583. http://digitalcommons.wku.edu/stu_hon_theses/583
- MPH Capstone Chair. Smith, Derek. "Public Health Risk Assessment of Emissions from Power Plants in Daviess County, Kentucky." (2014). *Master of Public Health, Environmental Health*.
- MPH Capstone Chair. Brown, Jacqueline. "Trends of Hazardous Materials Transport on the Interstate System in Kentucky." (2014). *Master of Public Health, Environmental Health*.
- MPH Capstone Chair. Eagleson, Jacob. "Risk Assessment of Hazardous Materials Incidents in Henderson, Kentucky" (2013). *Master of Public Health, Environmental Health Capstone*.
- MPH Capstone Chair. Grigsby, Roni. "Detection of Estrogenic Compounds in the Barren River Watershed" (2013). *Master of Public Health, Environmental Health Capstone*.
- MPH Capstone Chair. Nwosu, Usonwanne. "Drinking Water Fluoridation and Dental Caries in Children of South Central Kentucky" (2013). *Master of Public Health, Environmental Health Capstone*.
- Honor's Thesis Chair. Barringer, Ellen R. "Impact of Storm Events on Water Quality of a Karst Stream and Implications for Public Health Protection at a Historic Landmark" (2013). *Honors College Capstone Experience/Thesis Projects*. Paper 416. http://digitalcommons.wku.edu/stu_hon_theses/416
- Honor's Thesis Chair. Brown, Jacqueline, "The Evaluation of Water Quality and Weather Patterns as Indicators for Escherichia Coli in Slaters Creek Watershed in Millersville, Tennessee" (2012). *Honors College Capstone Experience/Thesis Projects*. Paper 347. http://digitalcommons.wku.edu/stu_hon_theses/347
- MPH Capstone Chair. Nair, Rasmi. 2010. "Water Use and Public Health Implications in Gales Point, Belize" (2010). Proposal complete, research conducted, and paper in review.
- Undergraduate Student Research Supervisor. Cuarta, Jacob and A. Kirk. 2010. Senior Seminar Research Project, Assessment of water quality treatment in a constructed wetland roadway runoff during storm events. Proposal in progress.
- Graduate Student Research Project Supervisor. Norris, Jordan and M. Calico. 2009-2010. MPH Research Project, Assessment of public health in the village of Gales Point, Belize. Work published at KPHA conference 2009, on WKU TopScholar, and presented at the WKU International Service Learning Symposium.

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- Graduate Student Research Project Supervisor. Hill, Matthew and S. Ranapurwala. 2008-2009. MPH Research Project, Environmental health assessment of the village of Gales Point, Belize. Work published at APHA conference 2009.
- Graduate Student Research Project Supervisor. Hill, Matthew. 2008-2009. Environmental health assessment of the village of Gales Point, Belize. Work published at APHA conference 2009.
- MPH Capstone Chair. Melky, Shaden. “Assessment of foliar ozone injury at Mammoth Cave National Park in the Cumberland–Piedmont Network of National Parks in the United States” 2009. Western Kentucky University, Department of Public Health, MPH Capstone Project.
- Master Thesis Chair. Gubari, Najla. “Exposure assessment of mercury in fish from Kentucky surface waters” (2005). Western Kentucky University, Department of Public Health, MPH Thesis.
- Master Thesis Research Supervisor and Committee Member. Golla, Vijay. “Study of the distribution and variation of the herbicide atrazine in finished drinking water at a small community water system in Kentucky” (2003). Western Kentucky University, Department of Public Health, MPH Thesis. 98 pp.

Student Engagement Research and Service

- Air Quality Assessment of H₂S emissions from Pig Lagoons. 3 graduate students and 9 undergraduates in the ENV 360 Air Quality course. July 2020 - Current
- NIOSH Training Project Grant. 43 undergraduate students and 18 graduate students engaged in field trips to local industries, internships, and seminars. July 2019 – Current.
- Evaluation of Particulate Matter in Vehicle Bays and Living Quarters of Fire Stations by Real-time Monitoring. Three graduate students conducted research. Spring and Summer 2019.
- Assessment of Diesel Particulate Matter in City of Bowling Green Fire Stations. 15 students (five graduate and 10 undergraduate students) conducted air sampling and particulate matter monitoring. Spring 2019.
- Watershed Health Corridor Assessment. Eight graduate students conducted research to assess the watershed health of stream corridors in the City of Goodlettsville, TN. Students collaborated with the stormwater manager. Fall 2018, Spring 2019, and Summer 2019.
- Evaluation of Construction Site Runoff on Stream Water Quality in the City of Goodlettsville, TN. Five graduate students conducted research to assess the impact of construction site stormwater runoff on stream water quality, analyze data and develop a final report. Spring and Summer 2019.
- NIOSH Training Project Grant. 20 undergraduate students and 8 graduate students engaged in field trips to local industries, internships, and seminars. July 2018 – June 2019.