CURRICULUM VITAE

MICHAEL E. HONEYCUTT, Ph.D.

610 Northwood Drive
West Monroe, LA 71291
Email: mhoneycu@gmail.com

EDUCATION

Ph.D.	May, 1993	Major: Toxicology	University of Louisiana at Monroe, Monroe, LA, 71209
B.S.	May, 1988	Major: Toxicology	University of Louisiana at Monroe, Monroe, LA, 71209

PROFESSIONAL WORK EXPERIENCE

August, 2022 - Present Retired, Consultant

Feb, 2009 – July, 2022 Chief Toxicologist and Director, Toxicology Division, Office of the Executive Director, Texas Commission on Environmental Quality, PO Box 13087, Austin, Texas 78711.

Sept, 2003 – Feb, 2009 Manager, Toxicology Section, Chief Engineer's Office, Texas Commission on Environmental Quality, PO Box 13087, Austin, Texas 78711.

Mar, 2001 – Sept, 2003 Senior Toxicologist & Team Leader, Multi-Media Issues & Assessments Team II, Office of Permitting, Remediation & Registration, Texas Commission on Environmental Quality, PO Box 13087, Austin, Texas 78711.

Oct, 1997 - Mar, 2001 Senior Toxicologist, Toxicology & Risk Assessment Section, Office of Permitting, Texas Natural Resource Conservation Commission, PO Box 13087, Austin, Texas 78711.

Sept, 1996 - Oct, 1997 Toxicologist, Toxicology & Risk Assessment Section, Chief Engineer's Office, Office of the Executive Director, Texas Natural Resource Conservation Commission, PO Box 13087, Austin, Texas 78711.

Managed a group of 14 toxicologists who provided toxicology and risk assessment technical support to other programs in the TCEQ. Led the development of guidelines for the development of inhalation (Effects Screening Levels) and oral toxicology benchmark values (http://www.tceq.state.tx.us/publications/rg/rg-442.html) for the State of Texas and oversaw external peer review by Toxicology Excellence for Risk Assessment (http://www.tera.org/Peer/TCEQ/TCEQWelcome.htm) and the peer review of updates to the guidelines (http://www.tera.org/Peer/TCEQESL/index.html). Oversaw the development and management of over 5,000 chemical toxicity factors, some of which were developed using this peer reviewed process, for use in evaluation of air permits and ambient monitoring data. Oversaw a team of toxicologists specifically focused on the risk assessment of criteria air pollutants. Served as a technical expert in the areas of chemical toxicokinetics and toxicodynamics, and human health and environmental risk assessment. Oversaw and performed human health risk assessments of the direct inhalation of both carcinogenic and non-carcinogenic compounds from air emissions of permitted sources in the State of Texas. Oversaw the review and development of analytical testing methodologies and reviewed data for acceptability in human health risk assessments either performed by or submitted to the TCEQ related to remediation and combustion risk assessment projects. Oversaw and performed the development of oral toxicity benchmark values. Oversaw the critical review of baseline and remedial risk assessments submitted to the TCEQ in support of closure activities at Resource Conservation and Recovery Act (RCRA) and state Superfund sites. Oversaw and performed the evaluation of health risks from contaminants in drinking water. Oversaw and performed the conduct of critical toxicological health effects reviews of the results of ambient monitoring (soil, water and air) projects. Testified at federal Congressional and public hearings, provided expert advice and affidavits for legal proceedings as an expert witness in general toxicology and participated in agency public meetings. Coordinated and/or provided funding for health effects research projects conducted either in-house or by collaborating researchers, including projects related to ozone exposure and asthma incidence, weight-of-evidence analysis, near-roadway pollutant concentrations, and health studies conducted in fenceline neighborhoods. Interpreted toxicological data to determine health risks from public exposure to specific contaminants. Served as a resource witness for the TCEQ on bills during state legislative hearings. Communicated health risks to upper management, public, legislators, and media. Served as agency spokesperson for high-profile environmental issues, having conducted hundreds of television and newspaper interviews.

Jul, 1993 - Sept, 1996 GS-0401-12 Research Biologist, Fate and Effects Branch, Environmental Processes and Effects Division, Environmental Laboratory, US Army Corps of Engineers Waterways Experiment Station, Vicksburg, Mississippi,

39180.

Primary emphasis was research toward the development and validation of *in vitro* biomarker assays utilizing genetically-engineered cell cultures that could be used to assess the presence of genotoxic contaminants and military unique contaminants in sediments and soils, and the implementation of these assays as regulatory screening tools. Conducted research designed to investigate the influence of sediment organic carbon content on the distribution of neutral organic compounds among water, fish and sediment and to develop kinetic models that describe this interaction. Conducted research to assess bioavailability of military unique contaminants and their breakdown products to terrestrial organisms in order to appraise effectiveness of bioremediation techniques. Conducted research on the application of novel sample preparation techniques and analytical methods to sediments and soils.

Provided technical support in experimental design and data interpretation and analysis for project managers and other scientists in the Corps of Engineers. Provided technical support to engineers, scientists, and project managers throughout the Department of Defense concerning potential ecological and human health effects from conventional and military unique contaminants. Supervised junior scientists, technicians and contract students in the performance of laboratory research. Adjunct faculty member of Jackson State University, Jackson, MS, and served on thesis committee for M.S. candidate.

Apr, 1993 - Jul, 1993 Scientist, AScI Corporation, 1720 Clay Street, Suite 3, Vicksburg, Mississippi, 39180.

Worked as a contractor for the US Army Corps of Engineers Waterways Experiment Station in same capacity as Research Biologist position.

RESEARCH ARTICLES

Lange, S.S., S.E. Mulholland, and M.E. Honeycutt. 2018. "What are the Net Benefits of Reducing the Ozone Standard to 65 ppb? An Alternative Analysis." *International Journal of Environmental Research and Public Health*, 15, 1586; doi:10.3390/ijerph15081586.

Haney, J.T., D. McCant, M. Honeycutt, and S. Lange. 2018. "Development of an Inhalation Reference Concentration for Diethanolamine." *Regulatory Toxicology and Pharmacology*, 92:55-66.

McCant, D., S. Lange, J. Haney, and M. Honeycutt. 2017. "The Perpetuation of the Misconception that Rats Receive a 3-5 Times Lower Lung Tissue Dose than Humans at the Same Ozone Concentration." *Inhalation Toxicology,* 29(5):187-196.

Ethridge S., T. Bredfeldt, K. Sheedy, S. Shirley, G. Lopez, and M. Honeycutt. 2015. "The Barnett Shale: From Problem Formulation to Risk Management." *Journal of Unconventional Oil and Gas Resources*, 11:95-110.

Shaw, B.W., S.S. Lange, and M.E. Honeycutt. 2015. "Lowering the Ozone Standard Will Not Measurably Improve Public Health." *Environmental Manager*, May issue, pp. 26-31.

Goldstein, B.D., B.W. Brooks, S.D. Cohen, A.E. Gates, M.E. Honeycutt, J.B. Morris, T.M. Penning, J. Orme-Zavalets, and J. Snawder. 2014. "The Role of Toxicological Sciences in Meeting the Challenges and Opportunities of Hydraulic Fracturing*" Toxicological Sciences*, 139(2):271-283.

Rhomberg, L., J. Goodman, L. Bailey, R. Prueitt, N. Beck, C. Bevin, M. Honeycutt, N. Kaminski, G. Paoli, L. Pottenger, R. Scherer, K. Wise, and R. Becker. 2013. "A Survey of Frameworks for Best Practices in Weight-of-Evidence Analyses" *Critical Reviews in Toxicology* 43(9):753-784.

Capobianco, T., S.M. Hildebrand, M. Honeycutt, J.S. Lee, D. McCant, and R.L. Grant. 2013. "Impact of Three Interactive Texas State Regulatory Programs to Decrease Ambient Air Toxic Levels" *Journal of the Air and Waste Management Association,* DOI:10.1080/10962247.2013.763868.

Grant, R.L., J. Haney, A. Curry, and M. Honeycutt. 2010. "A Chronic Reference Value for 1,3-Butadiene based on an Updated Noncancer Toxicity Assessment" *Journal of Toxicology and Environmental Health, Part B* 13:6, 460-475.

Grant, R.L., J. Haney, A. Curry, and M. Honeycutt. 2009. "Development of a Unit Risk Factor for 1,3-Butadiene Based on an Updated Carcinogenic Toxicity Assessment" *Risk Analysis* 29(12): 1726-1742.

Grant, R.L., B.J. Kadlubar, N.K. Erraguntla, and M. Honeycutt. 2007. "Evaluation of Acute Inhalation Toxicity for Chemicals with Limited Toxicity Information." *Regulatory Toxicology and Pharmacology*.47: 261-273.

Grant, R.L., V. Leopold, D. McCant, and M. Honeycutt. 2007. "Spatial and Temporal

Trend Evaluation of Ambient Concentrations of 1,3-Butadiene and Chloroprene in Texas." *Chemico-Biological Interactions* 166: 44-51.

Hofelt, C.S., M. Honeycutt, J.T. McCoy, and L.C. Haws. 2001. "Development of a Metabolism Factor for Polycyclic Aromatic Hydrocarbons for use in Multipathway Risk Assessments of Hazardous Waste Combustion Facilities." *Regulatory Toxicology and Pharmacology* 33(1): 60-65.

Jarvis, A.S., V.A. McFarland, and M.E. Honeycutt. 1998. "Assessment of the Effectiveness of Composting for the Reduction of Toxicity and Mutagenicity of Explosive-Contaminated Soil." *Ecotoxicology and Environmental Safety* 39: 131-135.

Honeycutt, M.E., A.S. Jarvis, and V.A. McFarland. 1996. "Cytotoxicity and Mutagenicity of 2,4,6-Trinitrotoluene (TNT) and its Metabolites." *Ecotoxicology and Environmental Safety* 35(3): 282-287.

Jarvis, A.S., M.E. Honeycutt, V.A. McFarland, A.A. Bulich, and H.C. Bounds. 1996. "A Comparison of the Ames Assay and Mutatox™ in Assessing the Mutagenic Potential of Contaminated Dredged Sediment." *Ecotoxicology and Environmental Safety* 33:193-200.

Honeycutt, M.E., D.S. Roane, and B.L. Roberts. 1995. "Cadmium Disposition in the Earthworm, *Eisenia fetida*." *Ecotoxicology and Environmental Safety*, 30:143-150.

Honeycutt, M.E., V.A. McFarland, and D.D. McCant. 1995. "Comparison of Three Lipid Extraction Methods for Fish." *Bulletin of Environmental Contamination and Toxicology*, 55(3):469-472.

Honeycutt, M.E. and B.L. Roberts. 1995. "Assessment of DNA Strand Breaks in the Earthworm, *Eisenia fetida*, as a Bioindicator of Soil Contamination." *Environmental Sciences*, 3(4):199-207.

Honeycutt, M.E. and B.L. Roberts. 1994. "*In Vivo* Metabolism of Aldrin by the Earthworm, *Eisenia fetida*." *Environmental Sciences* 2(4):217-225.

BOOK CHAPTERS

Honeycutt, M., Shirley, S., 2014. Aldrin. In: Wexler, P. (Ed.), Encyclopedia of Toxicology, 3rd Edition, Volume 1. Elsevier Inc., Academic Press, pp. 126–129.

Honeycutt, M., Shirley, S., 2014. Dieldrin. In: Wexler, P. (Ed.), Encyclopedia of Toxicology, 3rd Edition, Volume 2. Elsevier Inc., Academic Press, pp. 107–110.

Honeycutt, M., Jones, L., 2014. Endrin. In: Wexler, P. (Ed.), Encyclopedia of Toxicology, 3rd Edition, Volume 2. Elsevier Inc., Academic Press, pp. 344–347.

LETTERS TO THE EDITOR

Honeycutt, M.E. 2011. "Hexavalent Chromium in Texas Drinking Water." *Toxicological Sciences* 119(2): 423-424.

INVITED CONGRESSIONAL TESTIMONY

US House of Representatives Committee on Science, Space, and Technology; Subcommittee on Energy and the Environment Hearing: "EPA's 2015 Ozone Standard: Concerns Over Science and Implementation". October 22, 2015

US House of Representatives Committee on Science, Space, and Technology; Subcommittee on Energy and the Environment Hearing: "Improving EPA's Scientific Advisory Processes". March 20, 2013

US House of Representatives Committee on Science, Space, and Technology; Subcommittee on Energy and the Environment Hearing: "EPA's Impact on Jobs and Energy Affordability". June 6, 2012

US House of Representatives Committee on Energy and Commerce; Subcommittee on Environment and the Economy Hearing: "Chemical Risk Assessment: What Works for Jobs and the Economy?" October 6, 2011

US House of Representatives Committee on Science, Space, and Technology; Subcommittee on Energy and the Environment Hearing: "Quality Science for Quality Air". October 4, 2011

COMMITTEE, BOARD, WORKSHOP, AND PANEL MEMBERSHIPS

USEPA Chartered Scientific Advisory Board, Chair, October 2017 - September 2020
Texas A&M University Interdisciplinary Toxicology Training Program Review Committee, 2017-2022
Texas A&M University Superfund Research Center External Advisory Committee, 2017-2022
Institute of Medicine Health Impact Assessment of Shale Gas Extraction Workshop, 2014
Harvard/MACCHE/HEI/NRDC Workshop to Develop Recommendations for Environmental

Monitoring Related to Unconventional Oil and Gas Extraction, 2013
Member of Society of Toxicology Hydrofracturing Issue Statement Work Group, 2013
Alliance for Risk Assessment Steering Committee, 2007-2022
Texas A&M University Superfund Basic Research Program External Advisory Board, 2004
Adjunct Associate Professor, Texas A&M University School of Rural Public Health, Department of Environmental and Occupational Health, 2005 - 2022
Strategic Health Effects Review Panel II, Houston Endowment, 2005-2006
Forging Partnerships on Emerging Contaminants: A Forum for State and Federal Stakeholders, November 2-3, 2005, San Diego, CA
Strategic Health Effects Review Panel, Texas Council on Environmental Technology, 2002
Environmental Toxicology & Chemistry Editorial Board, 1998-2000

WORKSHOP ORGANIZING COMMITTEES

Served on Steering Committee for Independent Workshop on Ozone NAAQS Science and Policy, April 7-9, 2015, Texas Commission on Environmental Quality, Austin, TX

Served on Program Committee for Symposium on Understanding the Health Risks of Lower Olefins, November 5-6, 2014, Texas Commission on Environmental Quality, Austin, TX; Served as Guest Editor for Proceedings Published in Special issue of *Chemico-Biological Interactions* (Volume 241, November 2015)

Served on Steering Committee for Dose-Response Approaches for Nuclear Receptor-Mediated Modes of Action, September 27-29, 2010, National Institutes of Environmental Health Sciences, Research Triangle Park, NC

Serve on Steering Committee for the Alliance for Risk Assessment's Beyond Science and Decisions: From Issue Identification to Dose-Response Assessment Workshop Series
Workshop I, March 16-18, 2010, Austin, Texas
Workshop II, October 11-13, 2010, Crystal City, Virginia
Workshop III, May 4-6, 2011, Falls Church, Virginia

PEER REVIEWS

Bioavailability of Dioxins in Soil and Soil-like Materials. USEPA. July 2010

EXPERT/FACT WITNESSING

The Matter Against William Rea Before The Texas Medical Board, SOAH Docket

#503-07-4032
The Matter Against Alfred Raymond Johnson Before The Texas Medical Board, SOAH Docket #503-08-0531
United States District Court, Southern District of Texas, Houston Division, Civil Action No. 4:14-cv-1698; Keith Cole and others v. Brad Livingston, Roberto Herrera, and Texas Department of Criminal Justice

AWARDS

SOT Risk Assessment Specialty Section Honorable Mention – Published Papers Demonstrating an Application of Risk Assessment - 2009
TCEQ Manager of the Year - 2008
Chief Engineer's Office Manager of the Year - 2008
Chief Engineer's Office Employee of the Quarter - July-September, 2008
USACE Fort Worth District Recognition Award - Bosque/Leon Rivers Perchlorate Study Team, 2004
TNRCC Team of the Year – TXI Hazardous Waste Incineration and Air Permit Team, 2000