

GEORGE P. COBB III

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Department of Environmental Science
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CAREER OBJECTIVES

To lead academic groups in pursuit of excellent student outcomes. To coordinate research and education activities of interdisciplinary teams that increase knowledge and understanding of natural sciences. To improve approaches for quantifying exposure, and trophic transport of toxicants. To influence science policy by using objective facts in risk assessments and balancing risks with holistic and realistic societal needs.

EDUCATION

Ph.D. in Chemistry. 1982-1989. Preconcentration of Atmospheric Organic Compounds in Carbon Hollow Tubes with Subsequent Gas Chromatographic Analysis. University of South Florida, Tampa, FL. 186 pp. Advisors: R.S. Braman (Major Professor), W. E. Swartz, J.A. Llewellyn, T. E. Owen, and G. Wenzinger.

B.S. in Chemistry. 1978-1982. Investigation of Chlorinated Pesticides and Metals in Tissues of Sea Turtles. College of Charleston, Charleston, SC. 18 pp. W. Frank Kinard (Advisor).

PROFESSIONAL POSITIONS**Baylor University**

 Professor & Chair of Environmental Science August 2011 – present
Texas Tech University

 Professor of Environmental Toxicology August 2004 – August 2011
 Tenured Associate Professor of Environmental Toxicology August 2000 – August 2004
 Tenured Associate Professor of Biological Sciences August 1997 – August 2000
Charter Faculty Member: Environmental Toxicology August 2000
 The Institute of Environmental and Human Health August 1997 – 2011
 Branch Leader, Environmental Science and Toxicology January 1999 – 2011
 Section Leader, Analytical and Biochemical Toxicology August 1997 – January 1999
 Adjunct Associate Professor of Chemistry September 2000 – 2005
Clemson University

 Adjunct Professor of Environmental Toxicology July 1997 – 2002
 Tenured Associate Professor of Environmental Toxicology July 1995 – July 1997
 Assistant Professor of Environmental Toxicology October 1989 – July 1995
 Charter Faculty Member: Environmental Toxicology October 1989
 The Institute of Wildlife and Environmental Toxicology June 1989 – August 1997
Western Washington University

 Adjunct Professor of Environmental Studies May 1988 – September 1990
 Institute of Wildlife Toxicology July 1987 – June 1989
TEACHING EXPERIENCE**Baylor University**

Introduction to Environmental	ENV 1301	2012 – 2013
Environmental Capstone	ENV 43C1	2012 – present
Seminar on Environmental	ENV 4102	2014 – 2017
Environmental Chemistry	ENV 3387	2015 – 2018
Environmental Chemistry Laboratory	ENV 3187	2015 – 2017
Advanced Environmental Chemistry	ENV 5387	2015 – 2017
Site Characterization & Assessment	ENV 4390	2017 – present
Aquatic Chemistry	ENV4304	2020

Texas Tech University

Chemical Fate in the Environment ^a	ENTX 6445	1998 – 2011
Analytical Toxicology ^a and Laboratory ^a	ENTX 6351; ENTX 6251L	1999 – 2011
Principles of Toxicology	ENTX 6326 (Guest Lectures)	2001 – 2003
Techniques in Ecological Risk Assessment	ENTX 6371 (Guest Lectures)	2003 – 2011
Seminar in Chem. & and Bio. Terrorism ^a	ENTX 6312 (Co-Instructor)	2002
Seminar in Environmental Toxicology ^a	ENTX 6312	1998 – 2000

Clemson University

Environmental Fate of Chemical Contaminants ^a	ENTOX 621	1991 – 1996
Analytical Toxicology ^a	ENTOX 822	1991 – 1997
Analytical Toxicology Laboratory ^a	ENTOX 822L	1991 – 1997
Advances in Instrumental Analyses ^a	ENTOX 863, CHM 863	1991 – 1992

Western Washington University

Advanced Methods in Analytical Toxicology ^a	HUX 517d	1988
Toxicology Techniques ^a	HUX 457; Senior level	1988 – 1989

University of South Florida**August 1982 – August 1987**

Analytical Chemistry Lab: Coordinating TA	CHM 3310	1985 – 1987
Organic Laboratory TA	CHM 3120L	1983 – 1985
General Chemistry Lab TA		1982 – 1983, 1986

College of Charleston**1979-1982**

Organic Chemistry Laboratory Instructor		Summer 1982
Organic Chemistry TA		1981-1982
General Chemistry TA		1979-1981

^a - Course author or co-author**RESEARCH EXPERIENCE**

Baylor University – Fellow of The Institute for Ecological, Earth, and Environmental Sciences (TIE³S) January 2012-present

Texas Tech University and Texas Tech University Health Sciences Center

The Institute of Environmental and Human Health
 Branch Leader, Environmental Health and Toxicology January 1999 – August 2011
 Section Leader, Analytical and Biochemical Toxicology August 1997 – January 1999

Clemson University – The Institute of Wildlife and Environmental Toxicology

Section Leader and/or Assistant Section Leader June 1989 – August 1997

Western Washington University – Institute of Wildlife Toxicology

Section Leader, Analytical Toxicology July 1987 – June 1989

University of South Florida – Department of Chemistry

Research Assistant May 1985 – December 1985

College of Charleston/South Carolina – Wildlife Marine Resources Research Institute

Pesticide Research October 1984 – August 1985

PROFESSIONAL AFFILIATIONS

American Chemical Society	1981 –present
ACS Fellow	2015 – present
Committee on Environmental Improvement	2012 – present
Policy Subcommittee	2015 – 2016
Member Engagement Subcommittee Chair	2013 – 2015
Environmental Chemistry Division	1984 – present
<i>Councilor</i>	2018 – 2021
<i>Past Chair</i>	2018 – 2019
<i>Chair</i>	2015 – 2017
<i>Chair Elect</i>	2013 – 2015
<i>Alternate Councilor</i>	2008 – 2013
<i>Executive Committee</i>	2002 – present
<i>Treasurer</i>	2009 – 2013
<i>Investment Committee</i>	2019 - present
Member at Large	2003 – 2004
Chairman: Merit Awards Sub-committee	2002 – present
Chairman: International Activities Comm.	2008 – present
Leadership Development Institute	2010 – 2015
Presenter and Participant	2015
Analytical Chemistry Division	1983 – 2006
Western Carolinas Section	1990 – 1998
Society of Environmental Toxicology & Chemistry	1988 – present
SETAC Fellow	2019-present
Rachel Carson Award Committee Chair	2014 – 2015
Global Horizon Scanning Workgroup: NA	2015
<i>Global Chemistry Advisory Group Chair</i>	2018
<i>Global Chemistry Advisory Steering Committee</i>	2015 – 2016
<i>World Council</i>	2009 – 2012
SIACM Steering Committee	2009 – 2012
<i>President, North America</i>	2010 – 2011
<i>Vice President, North America</i>	2009 – 2010
<i>Board of Directors, North America</i>	2006 – 2012
<i>Annual Meeting Chair</i>	2003
Nominating Committee-Board of Directors	1996
Regional Chapters Committee	2000 – 2002
Chemists in SETAC Committee	1994 – 2010
Carolinas Region	1990 – 1996
<i>Board of Directors</i>	1993 – 1995
<i>Secretary</i>	1994 – 1995
Annual Meeting Program Chair	1996
Annual Meeting Planning Committee	1992 – 1993
South Central Region	
<i>Board of Directors</i>	1999 – 2006
<i>Vice-President</i>	2000 – 2001
<i>President</i>	2001 – 2002

Annual Meeting-Program Chair	2002
Alpha Chi Sigma	1981 – present
Sigma Xi	2005 – present

CONFERENCE ORGANIZATION

International Conferences

Program Committee

- International Union of Pure and Applied Chemistry (IUPAC). 2019. Program Organizer for 14th IUPAC International Congress of Crop Protection Chemistry. Ghent, Belgium. 19 – 24 May 2019.
- International Conference on Chemistry and the Environment (ICCE). 2017. “Algae toxins: Methods and Trends” Co-Organizer for the 16th International Conference in Oslo, Norway. June 2017
- National Science Foundation. 2012. Program Organizer for the Pan American Advanced Studies Institute: Air Quality at the Interface of Mega Cities and Agricultural Regions. La Plata, Argentina, 8-16 August 2012.
- Society of Environmental Toxicology and Chemistry. 2001-2003. Chair, Program Committee for the 24th Annual Meeting in Austin, TX. November 2003.
- Society of Environmental Toxicology and Chemistry. 1994-1998. Program Committee for the 19th Annual Meeting in Charlotte NC. November 1998.

Session Chair

- Pacificchem. 2020. Chemistry and the Rice Field Ecosystem. December 2020. Honolulu, HI.
- American Chemical Society. 2018. Challenges of Utilizing Higher-Tier Ecotoxicology Data in Risk Assessment & Risk Management of Pesticides. August 2018. Boston, MA.
- International Conference on Chemistry and the Environment 2017. Algae toxins: Methods and Challenges. June 2017, Oslo, Norway.
- International Conference on Chemistry and the Environment 2017. Challenges in Environmental Chemistry. June 2017, Oslo, Norway.
- Pacificchem. 2015. Gene-Environment Interaction. December 2015, Honolulu, HI.
- Pacificchem. 2015. Chemicals of Emerging Concern. December 2015. Honolulu, HI.
- American Chemical Society. 2011. Environmental Behavior of Veterinary Pharmaceuticals. August 2011, Denver, CO.
- International Union of Pure and Applied Chemistry. 2011. Physiochemical Methods to Evaluate Environmental Processes. August 2011, San Juan, Puerto Rico.
- American Chemical Society. 2009. Session organizer. Environmental Toxicology: From Paracelsus to Probabilistic Risk Assessment. April 2009.
- American Chemical Society. 2008. Session organizer. Environmental Impacts from Natural Disasters. New Orleans, LA. April 2008.
- American Chemical Society. 2006. Session organizer. Chemical and Biological Concerns in New Orleans following Hurricane Katrina. San Francisco, CA. September 10-14, 2006.
- Society of Environmental Toxicology and Chemistry. 2004. Session Co-Chair: Persistent Organic Pollutants, Portland, OR. 14-19 November 2004.
- Society of Environmental Toxicology and Chemistry. 2004. Session Chair: Persistent Organic Pollutants Interactive Poster Discussion. Portland, OR. 14-19 November 2004.

Society of Environmental Toxicology and Chemistry. 1999. Session Chair: Analytical Chemistry, Philadelphia, PA. November 10-14, 1999.
 Society of Environmental Toxicology and Chemistry. 1991. Session Chair: Analytical Chemistry, Seattle, WA. November 3-7, 1991.

National Conferences

American Chemical Society National Meeting. 2017. Chaired the Contaminants in Urban and Coastal Estuarine Ecosystems Symposium. San Francisco, CA April 2-6, 2017
 Wildlife Applications to Remediation Decision-Making. 1999. Meeting Co-chair for three day NIEHS/EPA/ATSDR/DOD sponsored conference in Denver, CO. August 17-19, 1999.
 NIEHS Superfund Basic Research Fund: Tenth Anniversary Symposium. 1997. Chapel Hill, NC. Planning Committee.

Regional Conferences

Institute for Faith and Culture. 2019. Baylor University. Chaired session for Symposium.
 Academic Leadership Seminar. 2019. Baylor University. Speaker/Presenter for Chairs' Panel.
 Institute for Faith and Learning. 2018. Baylor University. Session Moderator for Symposium.
 Society of Environmental Toxicology and Chemistry: South Central Chapter. 2002. Texas Tech University. Chaired Program Committee for Annual Meeting.
 Society of Environmental Toxicology and Chemistry: Carolina's Chapter. 1996. Clemson University. Chaired Program Committee for Annual Meeting.
 Society of Environmental Toxicology and Chemistry: Carolina's Chapter. 1993. Organizing Committee and Sponsorship Committee Chair for Annual Meeting.

EDITORIAL SERVICE

Current:

<u><i>Environmental Toxicol. & Chem.</i></u>	<i>Associate Editor</i>	2017-present
	<i>Critical Review</i>	2014 – 2017
	<i>Guest Editor</i>	July 2010
	<i>Editorial Board</i>	1994 – 1996, 2012 – 2014
<i>Analytical Chemistry</i>	Periodic Reviews	1990 – present
<i>Archives of Environ. Contam. Toxicol.</i>	Periodic Reviews	1989 – present
<i>Chemosphere</i>	Periodic Reviews	1999 – present
<i>Comparative Biochemistry & Physiology</i>	Periodic Reviews	1995 – present
<i>Conservation and Society</i>	Periodic Reviews	2014 – present
<i>Critical Reviews in Analytical Chemistry</i>	Periodic Reviews	2009 – present
<i>Environmental Chemistry</i>	Periodic Reviews	2014 – present
<i>Environmental Pollution</i>	Periodic Reviews	2008 – present
<i>Environmental Science & Technology</i>	Periodic Reviews	1996 – present
<i>J. Agricultural and Food Chemistry</i>	Periodic Reviews	1996 – present
<i>Journal of Environmental Quality</i>	Periodic Reviews	1999 – present
<i>J. Hazardous Materials</i>	Periodic Reviews	2001 – present
		2011 – present

<i>J. Wildl Diseases</i>	Periodic Reviews	1993 – present
<i>J. of Photochem. & Photobio. A: Chem.</i>	Periodic Reviews	2014 – present
<i>J. of the Serbian Chemical Society</i>	Editorial Board	2015 – present
<i>Soil & Sediment Contamination</i>	Periodic Reviews	2006 – present
<i>Toxicology</i>	Periodic reviews	2016 – present
<i>Water, Air & Soil</i>	Periodic Reviews	2002 – present

Previous Editorial Service: *Agronomie* 2003-2005; *Annals of Biomedical Engineering* 2006-2009; *Bulletin of Environ. Contam. Toxicol.* 2001-2005; *Environmental Health Perspectives*, 1994-2001; *Journal of Chromatography* 1999-2010; *J. Nematology*, 1994-1995; *Naturwissenschaften* 2009-2010; *Toxicol. & Environ. Chem.*, 1994-1996; *Soil Biology and Biochem.*, 1994-1995; *ACS Symposium Series*, 1999-2004; *Risk Assessment in Estuarine Environments*, 2000.

SCIENTIFIC PANELS/WORKGROUPS

USEPA Science Advisory Board (Total 6 completed ; 3 in process)

- USEPA TSCA SACC. Peer Review for EPA Draft Risk Evaluation for Pechloroethylene. Alexandria VA, 26-29 May 2020.
- USEPA TSCA SACC. Peer Review for EPA Draft Risk Evaluation for Trichloroethylene. Alexandria VA, 24-27 March 2020.
- USEPA TSCA SACC. Peer Review for EPA Draft Risk Evaluation for Carbon Tetrachloride. Arlington VA, 25-26 February 2020.
- USEPA TSCA SACC. Peer Review for EPA Draft Risk Evaluation for N-Methyl Pyrrolidone. Alexandria VA, 5-6 December 2019.
- USEPA TSCA SACC. Peer Review for EPA Draft Risk Evaluation for Methylene Chloride. Alexandria VA, 3-4 December 2019.
- USEPA TSCA SACC. Peer Review for EPA Draft Risk Evaluation for 1-Bromopropane. Alexandria VA, 10-12 September 2019.
- USEPA TSCA SACC. Peer Review for EPA Draft Risk Evaluation for Cyclic Aliphatic Bromide Cluster (HBCD). Arlington, VA, 31 July-1 August 2019
- USEPA SACC. Peer Review for EPA Draft Risk Evaluation for of 1,4 Dioxane. Arlington, VA, 29 -30 July 2019.
- Chemical Assessment Advisory Committee: IRIS Assessment for Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX). Washington, DC. October 2016 – May 2017

USEPA Science Advisory Panels (Total 16 completed, Rapporteur 4)

- USEPA EPA OSCPP/OSCP. June 2018. Reviewer for Five PBT Chemicals. Washington, DC.
- Human Health and Ecological Risk Assessments for SmartStax PRO (MON 89034 x TC1507 x MON 87411 x DAS-59122-7), a Plant-incorporated Protectant Intended to Control Corn Rootworm through RNA Interference. September 2016. Reviewer of Chemical Fate. Washington, DC.

- RNAi Technology as a Pesticide: Problem Formulation for Human Health and Ecological Risk Assessment.** January 28, 2014. Reviewer of Chemical Fate. Washington, DC.
- MIR604 Modified Cry3A Protein Bt Corn: Plant-Incorporated Protectant.** March 13-14, 2006. Reviewer of Ecological Risks. Arlington, VA. Reviewer and *Rapporteur*.
- Plant-Incorporated Protectants Based On Virus Coat Protein Genes.** December 6-7, 2005. Reviewer of Ecological Risks. Arlington, VA.
- Review of Product Characterization, Human Health Risk, Ecological Risk, and Insect Resistance Management for Bacillus thuringiensis (Bt) Cotton Products.** June 8-10, 2004. Reviewer of Ecological Risks from Bt Cotton Products. Washington, DC.
- Review of Advances in Terrestrial Probabilistic Risk Assessment.** March 30-31, 2004. Reviewer and *Rapporteur* of EPA refinements to probabilistic risk assessments as applied to the FIFRA process. Washington, DC.
- Review of New Approaches to LD50 Estimation.** December 12, 2001. Reviewer of “Up and Down” technique for use in FIFRA reregistration process. Washington, DC.
- Review of Advances in Terrestrial Probabilistic Risk Assessment.** March 13-14, 2001. Reviewer and *Rapporteur* of EPA refinements to probabilistic risk assessments as applied to the FIFRA process. Washington, DC.
- Review of Advances in Aquatic Probabilistic Risk Assessment.** March 15-16, 2001. Reviewer of EPA refinements to probabilistic risk assessments as applied to the FIFRA process. Washington, DC.
- Review of Advances in Probabilistic Risk Assessment.** March 13-16, 2000. Reviewer of EPA refinements to probabilistic risk assessments as applied to FIFRA registration and reregistration processes. Washington, DC.
- Review of Proposed Approaches to Aquatic Probabilistic Risk Assessment.** April 4-5, 2000. Reviewer of EPA paradigm for probabilistic risk assessment in FIFRA registration and reregistration processes. Washington, DC.
- Review of Proposed Approaches to Terrestrial Probabilistic Risk Assessment.** April 5-6, 2000. Reviewer of EPA paradigm for probabilistic risk assessment in FIFRA registration and reregistration processes. Washington, DC.
- Review of Higher Tier Chlorfenapyr Probabilistic Risk Assessment.** September 1999. Reviewer of EPA and registrants conclusions regarding the risks posed to wildlife by pyrroles, a new class of insecticide. Washington, DC.
- Review of Chlorfenapyr Risk Assessment.** July 1999. *Rapporteur* and reviewer of EPA and registrants conclusions regarding the registration of a new class of pyrrole insecticides. Washington, DC.
- Review of Spray Drift Task Force Report.** July 1999. Reviewed the findings from the last decade of pesticide spray research. Panel recommendations were used to help establish regulatory guidelines for buffer zones surrounding agricultural fields. Washington, DC.

Other Federal Panels (16)

- NSF Panel Reviewer: CBET Grant Review.** September 2019
- NSF Panel Reviewer: CBET Grant Review.** October 2015
- NSF Panel Reviewer: CBET Grant Review.** April 2015
- NSF Frontiers:** Selection Panelist for proposed by various EFRI Program Directors. *This panel determined the Areas in which NSF RFPs would be developed.* March 11, 2015
- EPA/NSF Networks for Characterizing Chemical Life Cycle.** 2013. Reviewed grant proposals.

- USEPA GRO Panel.** 2012. Reviewed student fellowship proposals to NCE's Greater Research Opportunities Program.
- USEPA STAR Panel.** 2010. Reviewed grant proposals to NCER's Nano-initiative Program.
- NSF ARI-R2 Panel.** 2009. Reviewed applications for laboratory infrastructure.
- NSERC Panel.** 2009. Reviewed nanotoxicity proposals for Natural Sciences and Engineering Research Council of Canada.
- USEPA Research Plan Review.** 2007. Reviewed research plans for the USEPA National Ecological Effects Laboratory in Corvallis OR.
- USEPA Science Achievement Awards.** 2006. Reviewed applications for excellence in chemistry research in Federal agencies.
- NSF Proposal Review.** 2004. Provided online review for pollutant uptake study as part of pilot Fastlane review process.
- USEPA Peer Review of ECOFRAM.** June 1999. Peer reviewer for the probabilistic ecological risk assessment processes that were recommended by the Terrestrial ECOFRAM panel. The presentation was made verbally and in written form. Washington, DC.
- USEPA STAR Fellowship Review.** 1999 and 2007. Evaluated the quality of fellowship applications and made recommendations to EPA. Washington, DC.
- NIEHS/BROOKS AFB Exposure Assessment Planning.** 1998. Participated in the chemical detection and monitoring sub-group and worked with the larger group to determine which chemicals should be targeted for evaluation and which health effects endpoints would be likely to show adverse effects in humans. San Antonio, TX.
- NOAA/UNH Cooperative Institute for Coastal and Estuarine Environmental Technology.** April 2000. Provided Peer Review of grant proposals.

International Panels (4)

- Air Quality at the Interface: Megacities and Agroecosystems.** August 2012. National Science Foundation: Pan-American Advanced Studies Institute. Buenos Aires, Argentina. Workshop assembled 30 top prospective young scientist and 10 established researchers to evaluate the current state of science at urban/agricultural interface and to determine future research needs. Cobb was Program Organizer.
- Problem Formulation for Ecological Risk Assessments.** April 2010. SETAC Pellston Workshop in Pensacola FL.
- International Workshop on Environmental Risk Assessment Methodologies for Metals and Inorganic Metal Compounds.** October 1999. Panel drafted guidance for evaluating metal toxicities in natural waters of OECD countries. International Council on Metals and the Environment, Montpellier, France.
- Principles and Processes for Endocrine Disruption.** March 1996. Exposure Assessment Panel Member at Pelston Workshop at Kiawah Island, SC.

Other Panels (10)

- California Environmental Protection Agency.** 2017. Assessed the Water Quality Criteria for the Protection of Aquatic Life for the pesticide fipronil.
- American Chemical Society.** 2016, 2018. Green Chemical Corporate Award Review. Washington D.C.

- Workshop for The Application of Wildlife Toxicology to Ecological Risk Assessment.** July 1996. Presented: Environmental Chemistry of DDT and Mercury in McIntosh, Alabama. Sponsored by ECORISK. Atlanta, GA.
- Exposure Assessment Panel Member** at the ECORISK Endocrine Disruptors Conference. March 1996. Kiawah Island, SC.
- NIH Infrastructure Advisory Board: Benedict College.** 1995-1996. Assisted in development of research goals by NIH research teams consisting of faculty from Universities in South Carolina. Assess progress toward achievement of research and education goals.
- Atrazine Risk Assessment Workshop.** 1995. Sponsored by ECORISK. Kiawah Island, SC.
- Workshop for Ecological Risk Assessment of Environmental Contaminant Exposure in Wildlife.** July 1995. Presented: Analysis of DDT and Mercury in Prothonotary Warblers. Sponsored by ECORISK. Atlanta, GA.
- 2,2-Dibromo-3-nitrilopropionamide Risk Assessment Panel Member.** March 1995. Sponsored by ECORISK. Kiawah Island, SC.

PEER REVIEWED JOURNAL PUBLICATIONS

(137 published, 0 in press, 0 accepted, 1 submitted, 1 in preparation)

(Average Cites per article 38.74 with h-index of 27 according to ISI on 23 Apr 2018)

Invited, featured and accelerated contributions

(15 published, 0 in Press, 0 accepted, 0 submitted):

1. Liu, J.; Dhungana, B.; Cobb, G. P., 2018. Environmental behavior, potential phytotoxicity, and accumulation of copper oxide nanoparticles and arsenic in rice plants. *Environ Toxicol Chem* 37 (1), 11-20.
2. Williamson T, Hathaway R, Exner J, Ford A, **Cobb GP**. 2014. The ACS Division of Environmental Chemistry celebrates its 100th anniversary. *Environ. Sci. & Tech.* 48(1), 1-2.
3. Zhang J and **Cobb GP**. 2012. Effect of Titanium Dioxide Nanomaterials and Ultraviolet Light Coexposure on African Clawed Frogs (*Xenopus Laevis*). *Environ Toxicol. Chem.* 31(1), 176-183.
4. Nations S, Long M, Wages M, Canas J, Maul JD, Theodorakis C, **Cobb GP**. 2010. Effects of ZnO Nanomaterials on *Xenopus Laevis* Growth and Development. *Ecotoxicol. Environ. Safety.* 74(2), 203-210.
5. Slattery M, Willett KL, **Cobb GP**, Benson WH. 2010. Multiple Facets of Environmental Impacts from Hurricane Katrina. *Environ. Toxicol. Chem.* 29(7), 1401-1402.
6. Abel MT, Presley SM, Rainwater TR, Cox SB, Austin GP, **Cobb GP**. 2010. Lead distributions and risks in New Orleans following Hurricanes Katrina and Rita. *Environ. Toxicol. Chem.* 29(7), 1429-1437.
7. Smith PN, McMurry ST, Rainwater TR, Reynolds KD, **Cobb GP**, Anderson TA, Hoff D, Godard CM. 2007. Assessing Exposure to Terrestrial Vertebrates. *Environmental Pollution.* 150, 41-64.
8. Presley SM, Rainwater TR, Austin GP, Platt SG, Zak JC, **Cobb GP**, Marsland EJ, Tian K, Zhang B, Anderson TA, Cox SB, Abel MT, Leftwich BD, Huddleston J, Jeter R, Kendall RJ. 2006. Assessment of Pathogens and Toxicants in New Orleans, LA Following Hurricane Katrina. *Environ. Sci. and Technol.* 40(2), 468-474.

9. **Cobb GP**, Norman DM, Bargar TA, Houlis PD, Pepper C, Anderson TA. 2003. Using Chorioallantoic Membranes for Non-lethal Assessment of Persistent Organic Pollutant Exposure and Effect in Oviparous Wildlife. *Ecotoxicol.: Special Rev. Issue.* 12, 31-45.
10. Dasgupta PK, Huang H, Zhang G, **Cobb GP**. 2002. Photometric Measurement of Trace As(III) and As(V) in Drinking Water. *Talanta.* 58, 153-164.
11. Bargar TA, Scott GI, **Cobb GP**. 2001. Maternal Transfer of Contaminants: A Case Study of the Excretion of Three PCB Congeners and Technical Grade Endosulfan into Eggs by White Leghorn Chickens (*Gallus domesticus*). *Environ. Toxicol. Chem.* 20(1), 61-67.
12. Karen DJ, Ownby DR, Forsythe BL, Bills TP, LaPoint TW, **Cobb GP**, SJ Klaine. 1999. Influence of Water Quality on Silver Toxicity to Rainbow Trout (*Onchrynchus mykiss*), Fathead Minnows (*Pimephales promelas*), and Water Fleas (*Daphnia magna*). *Environ. Toxicol. Chem.*, 18, 63-70.
13. Klaine SJ, **Cobb GP**, Dickerson RL, Dixon KR, Kendall RJ, Smith EE, Solomon KR. 1996. An Ecological Risk Assessment for the Use of the Biocide Dibromonitriopropane-amide (DBNPA) in Industrial Cooling Systems. *Environ. Toxicol. Chem.* 15, 21-30.
14. Dickerson RL, Hooper MJ, **Cobb GP**, Gard NW, Kendall RJ. 1994. Toxicological Foundations of Ecological Risk Assessment: Biomarker Development and Interpretation Based on Laboratory and Wildlife Species. *Environ. Health. Persp.*, 102, 65-69.
15. **Cobb GP**, Braman RS, Gilbert RA. 1989. Identification of Atmospheric Organic Sources Using the Carbon Hollow Tube-Gas Chromatography Method and Factor Analysis. *Anal. Chem.*, 61, 838-843.

Standard contributions (122 published, 0 in press, 0 accepted, 1 submitted, 1 in preparation):

1. Adair BM, McBride TJ, Hooper MJ, Reynolds KD, Schwarz M, McFarland, C McMurry ST, Hoff D, Olsen W, **Cobb GP**. Effects of Multiple Metal Exposure on Porphyrin Content in the Liver and Kidney of Starlings (*Sturnus vulgaris*) Inhabiting the Anaconda Smelter Hazardous Waste Site. *Environ. Sci. Technol.* In Preparation.
1. Virendera S, Liu J, Lujan H, Dhungana B, Hockaday W, Sayes C, **Cobb GP**. Ferrate(VI) Oxidation before Chlorination and Chloramination of Drinking Water: Decreases in Unsaturated Haloaromatic Disinfection Byproducts and Cytotoxicity. *Env. Intl.* Submitted.
1. Levine SL, Giddings J, Valenti T, **Cobb GP**, Danesha DS, McConnell LL. 2019. Overcoming Challenges of Incorporating Higher-Tier Data in Ecological Risk Assessments and Risk Management of Pesticides: Findings and Recommendations from the 2017 Workshop on Regulation and Innovation in Agriculture. *Integ Environ Assess & Mang.* 1-12.
2. Fairbrother A, Muir D, Solomon KR, Ankley GT, Rudd MA, Boxall AB, Apell JN, Armbrust KL, Blalock BJ, Bowman SR, Campbell LM, **Cobb GP**, Connors KA, Dreier DA, Evans, MS, Henry CJ, Hoke RA, Houde M, Klaine SJ, Klaper RD, Kullik SA, Lanno RP, Meyer C, Ottinger MA, Oziolor E, Petersen EJ, Poynton HC, Rice PJ, Rodriguez-Fuentes G, Samel A, Shaw JR, Steevens JA, Verslycke TA, Vidal-Dorsch DE, Weir SM, Wilson P, Brooks BW. 2019. Toward Sustainable Environmental Quality: Priority Research Questions for North America. *Env. Tox and Chem* 8(38) 1606-1624.
3. Liu, J., Wolfe, K., Potter, P. M., **Cobb, GP**. 2019. Distribution and Speciation of Copper and Arsenic in Rice Plants (*Oryza sativa japonica* 'Koshihikari') Treated with Copper Oxide Nanoparticles and Arsenic during a Life Cycle. *Environ. Sci. Technol* 53(9) 4988-4996

4. Liu, J., Wolfe, K., **Cobb, GP**. 2019. Exposure to Copper Oxide Nanoparticles and Arsenic Causes Intergenerational Effects on Rice (*Oryza sativa japonica Koshihikari*) Seed Germination and Seedling Growth. *Env. Tox and Chem.* 38(9) 1978-1987.
5. Dhungana B, Peng H, Kutarna S, Umbuzeiro, G, Shrestha S, Liu J, Jones PD, Subedi B, Giesy JP, **Cobb GP**. 2019. Abundances and concentrations of brominated azo dyes detected in indoor dust. *Environmental Pollution.* 252(A) 784-793.
6. Liu J, Simms M, Song S, **Cobb GP**. 2018 Physiological Effects of Copper Oxide Nanoparticles and Arsenic on the Growth and Life Cycle of Rice (*Oryza sativa japonica*). *Environmental Science & Technology.* 52(23) 13728-13737.
7. Liu J, Dhungana B, **Cobb GP**. 2018. Copper oxide nanoparticles and arsenic interact to alter seedling growth of rice (*Oryza sativa japonica*). *Chemosphere.* 206. 330-337.
8. Watkins, PS, Castellon, BT, Tseng, C, Wright, MV, Matson, CW, **Cobb GP**. 2018. Validation of a Sulfuric Acid Digestion Method for Inductively Coupled Plasma Mass Spectrometry Quantification of TiO₂ Nanoparticles. *Environ Contamination Toxicol.* 100:6. 809-814.
9. Liu J, Dhungana B, **Cobb GP**. 2018. Environmental Behavior, Potential Phytotoxicity, and Accumulation of Copper Oxide Nanoparticles and Arsenic to Rice Plants. *Environ Toxicol Chem.* 37:1. 11-20
10. Scott GI, Porter DE, Norman RS, Scott CH, Uyaguari-Diaz MI, Maruya KA, Weisberg SB, Fulton MH, Wirth EF, Moore J, Pennington PL, Schlenk D, **Cobb GP**, Denslow ND. 2016. Antibiotics as CECs: An overview of the Hazards Posed by Antibiotics and Antibiotic Resistance. *Frontiers in Marine Science* 3:24. 1-15.
11. **Cobb GP**, Moore AB, Rummel KT, Smith PN, McMurry ST, Hooper MJ. 2015. Dimercaptopropane Sulfonate Chelation Effects in vivo Hg and MeHg Distribution Among Organ Tissues and Blood of Prairie Voles (*Microtus ochrogaster*). *Bulletin of Environmental Contamination and Toxicology.* 95(6): 707-713.
12. Blackwell BR, Johnson BJ, Buser MD, **Cobb GP**, Smith PN. 2015. Transformation Kinetics of Trenbolone Acetate Metabolites and Estrogens in Urine and Feces of Implanted Steers. *Chemosphere* 138(2015): 901-907.
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Peer Reviewed Texts (13 published, 1 in preparation)

1. **Cobb GP**. Environmental Chemistry *in* Introductory Interdisciplinary Toxicology. Pope C, Elsevier Publishers. In Preparation
1. Mortensen S, Eagerton M, **Cobb GP**. Agriculture and Biofuels. *in* Wildlife Toxicology. Taylor and Francis. Kendall RJ, Lacher TE, Cox SB, Cobb GP, eds. Wildlife Toxicology. Taylor and Francis.
2. Coimbatore G, Presley SM, Boyd J, EJ Marsland, **Cobb GP**. 2008. In Kendall RJ, Presley SM Austin GP, and Smith PN, eds; Advances in Biological and Chemical Terrorism. CRC Press. Boca Raton, FL. pp 159-178.

3. Zartman R, Chang C, Presley SM, **Cobb GP**. 2007. Assessment strategies for environmental protection from Chemical and Biological Threats. In Kendall RJ, Presley SM Austin GP, and Smith PN, eds; *Advances in Biological and Chemical Terrorism*. CRC Press. Boca Raton, FL. pp 105-134.
4. Kendall RJ, Anderson TA, Baker RJ, Bens CM, Carr JA, Chiodo LA, **Cobb GP**, Dickerson RL, Dixon KR, Frame LT, Hooper MJ, Martin CF, McMurry ST, Patino R, Smith EE, Theodorakis CW. 2003. *Ecotoxicology*. in *Casarett and Doull's Essentials of Toxicology*. CD Klaassen, JB Watkins eds. Mc Graw-Hill. New York, NY.
5. **Cobb GP**, Anderson TA. 2003. Biological Sampling: Determining routes of wildlife exposure to pesticides. in *Handbook of Residue Analytical Methods for Agrochemicals Vol. II*, PW Lee, H Aizawa, AC Barefoot, JJ Murphy, eds. Wiley Press. San Francisco, CA. pp. 936-959.
6. **Cobb GP**, Brewer LW, Hol EHH, Bens CM. 2002. Diazinon dissipation from vegetation in apple orchards from Pennsylvania and Washington. in *ACS Symposium Series 842: Field Dissipation of Agrochemicals*, E Authur, ed., ACS Press: Washington, DC. pp. 170-188.
7. Adair BM, McBride TJ, McMurry ST, Hooper MJ, Hoff D, Olsen B, **Cobb GP**. 2002. Trophic Transport of Heavy Metals in Birds. in *ACS Symposium Series: Chemicals in the Environment: Fate, Impacts, and Remediation*, RL Lipnick, R. Mason, ML Phillips, CU Pittman, eds., ACS Press: Washington, DC.
8. **Faculty of The Institute of Environmental and Human Health, Texas Tech University**. 2001. Aquatic and terrestrial ecotoxicology. *Casarett and Doull's Toxicology. Sixth Edition*. MO Amdur, J Doull, and CD Klaassen, eds. McGraw-Hill. New York, NY.
9. **Cobb GP**, Bargar TA, Houllis PD, Norman DM. 2000. Using Chorioallantoic Membranes in Non-lethal Assessments of Exposure and Effects. in *ACS Symposium Series: Pesticides in Wildlife*, J Johnson ed., ACS Press: Washington, DC.
10. Scollon EJ, Hooper MJ, Goldstein MI, Parker M, **Cobb GP**. 2000. Chemical and Biochemical Evaluation of Swainson's Hawk Mortalities in Argentina. in *ACS Symposium Series: Pesticides in Wildlife*, J Johnson ed., ACS Press: Washington, DC.
11. Tillitt D, Mihiach E, **Cobb GP**, Toutant L, Solomon K. 1997. Approaches to Exposure Assessment. in RL Dickerson and RJ Kendall eds., *Principles and Processes for Evaluating Endocrine Disruption in Wildlife*. SETAC Special Publication. Lewis Publishers: Chelsea MI.
12. **Faculty of The Department of Environmental Toxicology, Clemson University**. 1995. Aquatic and terrestrial ecotoxicology. in MO Amdur, J Doull, and CD Klaassen, eds. *Casarett and Doull's Toxicology. Fifth Edition*. McGraw-Hill. New York, NY.
13. **Cobb GP**, Hooper MJ. 1994. Nonlethal wildlife monitoring to determine exposure to xenobiotics and resulting impacts. in RJ Kendall and T Lacher, eds. *The Population Ecology and Wildlife Toxicology of Agricultural Pesticide Use: A Modeling Initiative for Avian Species*. SETAC Special Publication, Lewis Publishers, Chelsea, MI.

Non-Reviewed Texts (3)

1. Hooper MJ, Brewer LW, **Cobb GP**, and Kendall RJ. 1990. An integrated laboratory and field approach for assessing hazards of pesticide exposure to wildlife. in L Sommerville and CH Walker, eds. *Pesticide effects on terrestrial wildlife*. Taylor and Francis Publishers: Philadelphia, PA. pp. 271-283.

2. **Cobb, GP.** 1990. Environmental Sample Collection and Storage. *in* T.T. Buerger, R.J. Kendall and M. Wolfe, eds. Wildlife Toxicology. 3rd Edition. The Institute of Wildlife and Environmental Toxicology, Clemson University, Clemson, SC.
3. **Cobb, GP.** 1990. Environmental Sample Preparation. *in* T.T. Buerger, R.J. Kendall and M. Wolfe eds. Wildlife Toxicology. 3rd edition. The Institute of Wildlife and Environmental Toxicology, Clemson University, Clemson, SC.

GENERAL INTEREST ARTICLES (8)

Authored by Cobb (6)

1. Renton K, San Francisco M, Dixon K, **Cobb GP.** 2003. What's on the Golf Towel, and Your Hands?? *Golf Digest.* 54(2).
2. **Cobb GP** and Mora M. 2003. Update on 24th Annual Meeting of SETAC North America. *SETAC Globe*, 4(2):22-23.
3. **Cobb GP**, San Francisco M, Smith S. 2000. What's in the Water Cooler. *Golf Digest.* 51:31.
4. **Cobb GP**, San Francisco M, Smith S. 1999. What's in the Peanut Bowl. *Golf Digest.* 50:30.
5. Rainwater TR, McMurry ST, Bargar TA , **Cobb GP**, Platt SG. 1997. Contaminants in Morelet's Crocodiles. *Crocodile Specialist Group, Newsletter.* 16(1).
6. Boyd JW, **Cobb GP**, Southard GE, Murray, GM. 2004. Development of molecularly imprinted polymer sensors for chemical warfare agents. *Johns Hopkins APL Technical Digest*, 25(1), 44-49.

Articles about Cobb Group (2)

1. Ramkumar S, Purushothaman A. 2008. What's next in the Nanotextiles Wave? Nonwovens Industry.
2. Shussett, Noah. 2007. ACS, Serbian Chemical Society to Forge Ties. *Chem. Eng. News.* 22 October 2007. p. 62.

PUBLISHED PROCEEDINGS (10)

1. **Cobb, GP.** 2008. Acute and Developmental Toxicity of Metal Oxide Nanoparticles in Fish and Frogs. Proceedings of the Interagency Workshop on the Environmental Implications of Nanotechnology. 5-7 September 2007. Washington, DC. National Nanotechnology Initiative.
2. Wentzel R, MacLaughlin M, Stubblefield W, **Cobb GP**, Schoeters I. 2000. Metal Bioavailability in Soil and Water. *in* G Persoone and TW LaPoint eds., Proceedings from the International Workshop on Environmental Risk Assessment Methodologies for Metals and Inorganic Metal Compounds. 18-20 October 1999, Montpellier, France. International Council for Metals in the Environment: Ontario, Canada.
3. Ownby DR, Karen DJ, Shupak DP, Day BS, La Point TW, Klaine SJ, and **Cobb GP.** 1997. Using spectroscopy and voltammetry to evaluate silver activity in aquatic toxicity evaluations. *in* Proceedings of the Fifth Argentum Conference. September 1997. Hamilton, Ont., Can.

4. Karen D, Ownby DR, **Cobb GP**, LaPoint TW. 1997. Influence of Water Quality Parameters on Silver Toxicity to Rainbow Trout (*O. mykiss*). in Proceedings of the Fifth Argentum Conference. September 1997. Hamilton, Ont., Can.
5. **Cobb GP**, Klaine SJ, La Point TW, Jeffers R, Wenzholz M, Forsythe B, Bills T, and Waldrop VC. 1996. Effect of Water Quality Parameters on Silver Availability. Proceedings from The 3rd International Argentum Conference: Transport, Fate and Effects of Silver in the Environment. August 1995, Washington, DC.
6. Klaine SJ, La Point TW, Wenzholz M, Forsythe B, Bills T, Jeffers R, Waldrop VC, **Cobb GP**. 1996. Influence of Water Quality Parameters on Silver Toxicity to *Daphnia magna* and *Pimephales promelas*. Proceedings from the 3rd International Argentum Conference: Transport, Fate and Effects of Silver in the Environment. August 1995, Washington, DC.
7. Sweeney JR, TD Jones, **Cobb GP**. 1995. Faunal safety of boiler ash recycling in southeastern coastal plain forests. Proceedings from the Biennial Southeastern Silvicultural Research Conference. October 1994. Athens, GA.
8. **Cobb GP**, Brewer LW, Kendall RJ. 1989. Degradation of terbufos in soils during drought conditions. in D.L. Weigmann, ed. Pesticides in Terrestrial and Aquatic Environments. May 11-12, 1989. Virginia Polytechnic Institute & State University, Blacksburg, VA.
9. Brewer LW, **Cobb GP**, Hooper MJ, Kendall RJ. 1989. Environmental monitoring: an interdisciplinary approach. in DL Weigmann, ed. Pesticides in Terrestrial and Aquatic Environments. May 11-12, 1989. Virginia Polytechnic Institute & State University, Blacksburg, VA.
10. **Cobb GP**, Braman RS. 1986. Preconcentration and analysis of atmospheric organics using a carbon hollow tube-gas chromatography system. in Measurement of Toxic Air Pollutants. USEPA/APCA. pp. 314-325.

INVITED SCIENTIFIC PRESENTATIONS (98)

1. **Cobb GP**. 2018. Emerging Issues in Environmental Chemistry. Faculty of Science. Presented at Christ University, Bengaluru, India. May 2018.
2. Liu J, Watkins PS, **Cobb GP**. 2017. The behavior and impact of nano copper oxide on the growth, reproduction, and arsenic uptake of common rice and Texas wild rice. Presented at 2017 Annual SETAC Meeting. Minneapolis, MN. 12-16 Nov 2017.
3. **Cobb GP**. 2017. Algae Toxins: Methods & Challenges (ACSEnv). Presented at the International Conference on Chemistry and the Environment. Oslo, Switzerland. June 2017.
4. **Cobb GP**. 2017. Emerging Issues in Water Bodies. Presented at EAWAG, Zurich, Switzerland. 12 June 2017.
5. Dhungana B, Peng H, Subedi B, Jones PD, Giesy JP, **Cobb GP**. 2017. Untargeted Screening and Apportionment of Brominated Compounds in House Dust. Presented at the 254th ACS National Meeting, Washington, DC. 23 Aug 2017.
6. **Cobb GP**. 2017. Nanomaterial Accumulation and Toxicity: Influences of Exposure Duration and Modifying Factors. Presented at Univ of South Carolina Seminar. Charleston, SC. March 2017.
7. Watkins P, Castellon B, Liu J, Matson C, **Cobb GP**. 2016. Method development for quantification of titanium dioxide nanomaterials. Presented at Annual SETAC Meeting. Orlando, FL. 6-10 Nov 2016.
8. **Cobb GP**, Blackwell B, Smith P. 2015. Atmospheric emissions of veterinary pharmaceuticals

- from CAFOs. Presented at Pacificchem 2015. Honolulu, HI. December 2015.
9. **Cobb GP**, Blackwell B, Buser M, Johnson B, Baker M, Smith PN. 2013. Airborne steroids & growth promoters near concentrated animal feeding operations. *Papers of the ACS*. 2013.
 10. **Cobb GP**, Bigorgne E, Baker LF, Nations SL, Matson CM. 2013. Inorganic nanomaterial effects on aquatic organisms. 14th European Meeting on Environmental Chemistry. Budva, Montenegro. 4-6 December 2013.
 11. **Cobb GP**. 2013. Uptake and effects in metal and metal oxide nanomaterials in aquatic organisms. 14th European Meeting on Environmental Chemistry. Budva, Montenegro. 4-11 December 2013.
 12. **Cobb GP**. 2013. Nanomaterial uptake and effects in aquatic organisms. Institute of Applied Sciences, University of North Texas, Denton, TX. 27 Sept. 2013.
 13. **Cobb GP**. 2013. Bioaccumulation and chronic effects of nanomaterials in aquatic organisms. LeTourneau University. Longview, TX. 25 April 2013.
 14. **Cobb GP**. 2013. Nanomaterial behavior and effects in aquatic organisms. Department of Chemistry, College of Charleston, Charleston, SC.
 15. **Cobb GP**. 2011. Airborne Veterinary Pharmaceuticals Near Concentrated Animal Feeding Operations. University of Saskatoon. 6 October 2011.
 16. Blackwell BR, Smith PN, Cai Q, **Cobb GP**, Johnson B, Buser MD, Baker M. 2011. Liquid chromatography mass spectrometry: Analysis of veterinary growth promoters in airborne particulate matter. Presented at the 242nd National ACS Meeting, Denver, CO.
 17. Wang J, **Cobb GP**. 2011. Translating scientific research in policy language for nanomaterial regulation. Presented at the 240th National ACS Meeting, Denver, CO, August 2011.
 18. **Cobb GP**, Smith PN, Cai Q, Blackwell BJ, Johnson B, Buser MD. 2011. Growth promoters in particulate matter released from cattle feeding operations. Presented at the 43rd IUPAC World Chemistry Congress, San Juan, Puerto Rico.
 19. **Cobb GP**. 2010. Atmospheric Transport of Anabolic Steroids. Presented at the Department of Biological Sciences, East Carolina University, Greenville, NC. September 2010.
 20. Smith PN, Blackwell B, Johnson B, Buser M, Cai Q, Baker M, **Cobb GP**. Evaluating androgenic and estrogenic steroids in air near Confined animal feeding operations. Accepted at the 31st Annual Meeting of The SETAC, November 2010. Portland, OR.
 21. Wang J, Maul J, Anderson TA, **Cobb GP**. 2010. Uptake of Fullerenes (n-C60) by *Lumbriculus variegatus*, Presented at the 239th National ACS Meeting. San Francisco, CA. March 2010.
 22. **Cobb GP**, Blackwell B, Smith PN. 2010. Growth Promoters in Particulate Matter Near Animal Feeding Operations. Presented at the SETAC Europe Annual Meeting. Seville, Spain, May 2010.
 23. **Cobb GP**. Airborne Growth Promoters Near Cattle Feedyards. Presented at the Department of Environmental Engineering. Missouri University of Science and Technology. April 2010.
 24. Smith PN, Blackwell B, Johnson B, Buser M, Cai Q, Baker M, **Cobb GP**. The Answer My Friends is...Blowing in the Wind. Presented at the 30th Annual Meeting of The SETAC. New Orleans, LA, 2009.
 25. Wang J, Cai Q, **Cobb GP**. 2009. Extraction of Fullerene (nano-C60) from Artificial Sediment. 237th ACS National Meeting, Salt Lake City, UT, March, 2009.
 26. **Cobb GP**, Rainwater T, Presley SM, Abel MT, Demas CR, Suedel B, Wang J. 2008. Toxicological Impacts of Hurricanes Katrina and Rita on Terrestrial and Marsh Environments. Presented at the Wildlife Society 15th Annual Conference. November 10, 2008. Miami, FL.

27. **Cobb GP**, Presley SM, Abel MT, Demas CR, Suedel B, Wang J. 2008. Contaminant distributions in New Orleans and surrounding areas following Hurricanes Katrina and Rita. Presented at the 29th Annual Meeting of The SETAC, November 2008. Tampa, FL.
28. **Cobb GP**, Nations S. 2008. Acute and Chronic Toxicity of Zinc Oxide Nanoparticles in *Xenopus laevis*, African Clawed Frogs. Chinese Academies of Science: Nanjing Institute of Geography and Limnology. 19 June 2008. Nanjing, China.
29. **Cobb GP**, Pan X. 2008. Environmental Toxicology as a Foundation for Hazardous Waste Assessments. Nanjing University: Department of Environmental Health. 19 June 2008. Nanjing, China.
30. **Cobb GP**. 2008. Environmental Toxicology as a Foundation for Hazardous Waste Identification and Waste site Assessments. Henan Institute of Science and Technology. An'yang, China. 14 June 2008.
31. **Cobb GP**, Theodorakis CT. 2007. Acute and chronic effects of metal oxide nanoparticles on fish and frogs. Presented at the Interagency Workshop on the Environmental Implications of Nanotechnology. September 5-7, 2007. Washington, DC.
32. **Cobb GP**. 2007. Environmental Chemistry and Environmental Toxicology: Foundations for Sound Environmental Guidelines. Presented at the First Symposium of Chemistry and the Environment. 12-15 June 2007. Milocer, Montenegro.
33. **Cobb GP**, Smith JN, Pan X, Muki S, Zhang B, Liu J, Patino R, Smith E, Gentles AB, Smith PN, Anderson TA, Kendall RJ. 2007. Acute and subchronic effects of RDX and its transformation products. Presented at USEPA Toxicology and Risk Assessment Conference. 23-25 April 2007. Cincinnati, OH.
34. **Cobb GP**. 2007. Chemical and Toxicological Analysis of RDX and HMX in Terrestrial Organisms. Presented at the Baylor University Department of Chemistry Seminar Series. 13 April 2007. Waco, TX.
35. **Cobb GP**. 2007. Explosives in the Environment: Uptake, In Vivo Transformation, and Adverse Effects of RDX. Presented at the University of North Texas Institute of Applied Sciences Seminar Series. 30 March 2007. Denton, TX.

Sixty-three additional invited presentations from 1986-2006 (available upon request).

SCIENTIFIC PRESENTATIONS (206)

1. Liu J, **Cobb GP**, Smith PN. Nano-CopperOxide Influences Rice (*Oryza sativa japonica*) Growth and Arsenic Uptake. Presented at the 40th Annual SETAC Meeting, Toronto, ON Canada, November 2019.
2. Shaw K, Hyrenbach D, Fraser L, Liu J, **Cobb GP**, Lynch J, Klein D. Elemental Concentrations in feathers of Bonin Petrel (*Pterodroma hypoleuca*) on Midway Atoll. Presented at the 40th Annual SETAC Meeting, Toronto, ON Canada, November 2019.
3. Tanir J, Satterfield MB, **Cobb GP**, Constable D, Giraud J. 2019. Accelerating the Integration of Green and Sustainable Chemistry into the Formulated Products Supply Chain. 23rd Annual Green Chemistry & Engineering Conference, American Chemical Society Green Chemistry Institute. Reston, VA. June 2019.
4. Castellon B, Baker L, Watkins P, **Cobb GP**, King R, Matson C. Environmental fate and transport of titanium dioxide nanoparticles in municipal wastewater effluent in outdoor stream mesocosms. South Central SETAC 2019, South Central Society of Environmental Toxicology and Chemistry, Waco, Texas. May 2019.

5. Liu, Jing, **Cobb GP**. Effects of Copper Oxide Nanoparticles and Arsenic on the Whole-Life Growth of Rice (*Oryza Savita japonica*), American Chemical Society 256th National Meeting, Boston, MA, 2018.
6. Liu, Jing, Simms M, **Cobb GP**. Effects of Copper Oxide Nanoparticles and Arenic on the Whole-Life Cycle Growth of Rice (*Oryza Savita japonica*). Presented at SETAC-YES, Madison, WS, 2018.
7. Liu J, Dhungana B, **Cobb GP**. 2017. Effect of copper oxide nanoparticles and arsenic on seed germination and seedling growth on rice (*Oryza sativa japonica*). Presented at 38th SETAC Annual Meeting, Minneapolis, MN, November 2017.
8. Dhungana B, Peng H, Subedi B, Giesy JP, **Cobb GP**. 2017. Untargeted Screening and Apportionment of Brominated Compound in House Dust. Presented at the 255th ACS National Meeting, Washington, DC.
9. Liu J, Watkins PS, Dhungana B, **Cobb GP**. 2016. The impact of nano copper oxide and arsenic on the seeds germination and seedling growth conditions of the rice plant (*Oryza sativa*). Presented at 37th SETAC Annual Meeting, Orlando, FL, November 2016.
10. Watkins PS, Castellon B, Liu J, Matson C, **Cobb GP**. 2015. Method development for quantification of titanium dioxide nanomaterials. Presented at SETAC South Central, Lafayette, LA June 2015.
11. Watkins PS, Castellon B, Tseng C, Liu J, Matson C, **Cobb GP**. 2015. Validation of Sulfuric Acid Digestion of Titanium Dioxide Nanoparticles in Multiple Environmental Matrices. Presented at the 36th SETAC Annual Meeting, Salt Lake City, UT. November 2015.
12. Newberger D, **Cobb GP**, Acharya A, Chenot-Rose C, Rose V, Rainwater TR, Mazzottie FJ. Transition Metal Accumulation in Caudal Scutes of American Crocodiles from Belize. Presented at URSA Scholars Week. Baylor University, Waco, TX. March 31- April 4, 2014.
13. Acharya A, **Cobb GP**. Temporal and spatial distribution of inorganic constituents in the John Bunker Sands wetland. Presented at 247th ACS National Meeting, Dallas, TX, March 2014.
14. Newberger D, Abhilasha A, **Cobb GP**, Mazzotti F, Rainwater T, Rose-Chenot C, Rose V. Transition metal accumulation in caudal scutes of American crocodiles (*Crocodylus acutus*) from Belize. Presented at 247th ACS National Meeting, Dallas, TX, March 16-20, 2014.
15. Johnson DR, Godard-Codding C, Anderson T, Ang CY, **Cobb GP**, Canas J, Clarke J, Roberts A, Boysen K, Killgore J, Hoover J. Contaminant Burden Analysis in Wild Shovelnose Sturgeon (*Scaphirhynchus platyrhynchus*) in the lower Mississippi River. Presented at the 53rd SOT Meeting, 24-27 March 2014.
16. Acharya A, Watkins PS, **Cobb GP**. Temporal and spatial distribution of inorganic constituents in water and sediments of John Bunker Sands wetland center. Presented at the 69th Southwest Regional Meeting of the American Chemical Society, 16-19 November 2013.
17. Brown TR, Blackwell BR, Broadway PR, Brooks JC, Johnson BJ, **Cobb GP**, Smith PN. 2013. Characterization of steroidal metabolite excretion from implanted cattle. Presented at the 34th SETAC Annual Meeting, Nashville, TN, November 2013.
18. Blackwell BR, Brown TR, Johnson BJ, **Cobb GP**, Smith PN. 2013. Degredation of steroid metabolites in urine and feces from implanted cattle. Presented at the 34th SETAC Annual Meeting, Nashville, TN, November 2013.
19. Blackwell BR, Wooten KJ, Buser M, Johnson BJ, **Cobb GP**. 2013. Occurrence of steroid growth promoters associated with particulate matter originating from beef cattle feedyards. Presented at the 34th SETAC Annual Meeting, Nashville, TN, November 2013.
20. Yu S, Tang S, Meyer GD, **Cobb GP**, Maul JD. 2013. Endosulfan and α -cypermethrin inhibit repair of DNA photo-adducts and decrease transcription of nucleotide excision repair genes

in *Xenopus laevis*. Presented at the 34th SETAC Annual Meeting, Nashville, TN, November 2013.

21. **Cobb GP**, Blackwell B, Buser M, Johnson B, Baker M, Smith PN. 2013. Airborne steroids and growth promoters near concentrated animal feeding operations. Presented at 246th ACS National Meeting, Indianapolis, IN, September 2013.
22. Yu S, Wages M, **Cobb GP**, Maul JD. 2012. Acute toxicity of the fungicide chlorothalonil to two amphibians, *Xenopus laevis* and *Spea multiplicata*. Presented at 33rd SETAC Annual Meeting, Long Beach CA, November 2012.
23. Wang J, Maul JD, Mayer GD, **Cobb GP**. 2012. Uptake of Fullerene (C60) induced catalase (CAT) activity in *Lumbriculus Variegatus*. Presented at 244th ACS National Meeting, Philadelphia, PA. August 2012.
24. Coimbatore G, McDaniel LN, Dallas T, **Cobb GP**. 2012. Response characteristics of a liquid crystal based diagnostic sensor for gaseous organophosphonates. Presented at 243th ACS National Meeting, San Diego, CA. March 2012.
25. Wang J. **Cobb GP**. 2011. Translating scientific research in policy language for nanomaterial regulation. Presented at 244th ACS National Meeting, Denver CO, August 2011.
26. Blackwell BR, Johnson BJ, Baker M, Buser MD, **Cobb GP**, Smith PN. 2011. Liquid chromatography mass spectrometry: Analysis of veterinary growth promoters in airborne particulate matter. Presented at 244th ACS National Meeting, Denver, CO August 2011.
27. Buser M, Blackwell BR, Johnson BJ, PN, **Cobb GP**, Smith PN. 2011. Growth promoters, wind, and human/ecological health: Preliminary feedyard PM analysis. Presented at 244th ACS National Meeting, Denver CO, August 2011.
28. Yu S, Wages M, **Cobb GP**. 2011. Toxicity of Pesticides of African Clawed Frog (*Xenopus laevis*) Embryos and Larvae. Presented at 32nd SETAC Annual Mtg, Boston, MA, Nov 2011.
29. Blackwell BR, Cai Q, Buser MD, Johnson BJ, Baker M, Green BB, **Cobb GP**, Smith PN. 2010. Steroidal growth promoters in particulate matter from beef cattle feedyards of the Southern High Plains, USA. Presented at the 31st SETAC Annual Meeting, Portland, OR, November 2010.
30. Wang J, Maul JD, Anderson T, Hope-Weeks L, **Cobb GP**. 2010. Uptake of Fullerenes by Benthic organism (*Lumbriculus variegatus*). Presented at the 31st SETAC Annual Meeting, Portland, OR, November 2010.
31. Chase D, Karnjanapiboonwong A, Fang Y, Wooten K, **Cobb GP**, Morse A, Anderson TA. 2010. Occurrence and Fate of Synthetic Musk Fragrances in Effluent and Non-Effluent Impacted Environments. Presented at the 31st SETAC Annual Meeting, Portland, OR, November 2010.
32. Wang J, Cai Q, Maul JD, Anderson TA, **Cobb GP**. 2010. HPLC Quantification of Fullerene (nano-C60) in Aquatic Worm (*Lumbriculus variegatus*) tissues. Presented at the 31st SETAC Annual Meeting, Portland, OR, November 2010.
33. Johnson DR, Godard-Codding C, Anderson TA, Ang C, **Cobb GP**, Canas JE, Suedel BC, Boysen K, Hoover J. 2010. Baseline Chemical and Toxicological Analyses of Shovelnose Sturgeon (*Scaphirhynchus platyrhynchus*) in the lower Mississippi River. Presented at the 31st SETAC Annual Meeting, Portland, OR, November 2010.
34. Weisbrod A, Lavoie E, Scholz N, **Cobb GP**, Vigon B. 2010. Sustainability Science and SETAC's Sustainability. Presented at the 31st SETAC Annual Meeting, Portland, OR, November 2010.

35. Coimbatore G, Smith M, Hoffarth A, Gibson A, Austin G, Presley SM, **Cobb GP**. 2010. Temperature stability in quartz crystal microbalance studies. Presented at 239th ACS National Meeting, San Francisco, CA.
36. Nations S, Wages M, **Cobb GP**. 2009. Subchronic and Chronic Developmental Effects of CuO Nanomaterials on *Xenopus laevis*. Presented at South Central Regional Chapter of the SETAC Annual Meeting, San Marcos, TX.
37. Cai Q, Blackwell BR, Shannahan R, Brausch JR, Coimbatore G, Smith PN, **Cobb GP**. 2009. Liquid chromatography-tandem mass spectrometry analysis of major non-conjugated metabolites of trenbolone acetate in particulate matter. Presented at the 30th SETAC Annual Meeting, New Orleans LA, November 2009.
38. Blackwell BR, Cai Q, **Cobb GP**, Smith PN. 2009. Trenbolone acetate metabolites in particulate matter originating from beef cattle feeding operations. Presented at the 30th SETAC Annual Meeting, New Orleans, LA, November 2009.
39. Zhang J, Wages M, **Cobb GP**. 2009. Effect of Titanium Dioxides Nanomaterials and Ultraviolet Light Coexposure on *Xenopus laevis*. Presented at the 30th SETAC Annual Meeting, New Orleans, LA, November 2009.
40. Wang J, Cai Q, **Cobb GP**. 2009. Extraction of Fullerene (nano-C60) from Artificial Sediment. Presented at the 237th ACS National Meeting, Salt Lake City, UT, March, 2009.
41. Cai Q, Wang J, Shannahan RD, Blackwell BR, Brausch JM, Smith PN, **Cobb GP**. 2009. Determination of free trenbolone acetate and its major metabolites in bovine milk by liquid chromatography-tandem mass spectrometry. Presented at the 237th ACS National Meeting, Salt Lake City, UT, March, 2009.
42. Chumchal MM, Rainwater TR, Osborn SC, **Cobb GP**, Smith PN, Bailey FC. Assessment of mercury biomagnification in a subtropical freshwater ecosystem (Caddo Lake, Texas/Louisiana, USA). Presented at the 9th International Conference on Mercury as a Global Pollutant, Guiyang, Guizhou, China.
43. Chumchal MM, Rainwater TR, Osborn SC, **Cobb GP**, Smith PN, Bailey FC. 2009. Assessment of mercury biomagnification in Caddo Lake, Texas/Louisiana. Presented at the South Central Regional Chapter of the SETAC Annual Meeting, San Marcos, TX.
44. Chumchal MM, Rainwater TR, Osborn SC, **Cobb GP**, Smith PN, Bailey FC. 2009. Assessment of mercury biomagnification in Caddo Lake, Texas/Louisiana. Presented at the Texas Academy of Science Annual Meeting, Junction, TX.
45. Abel MT, Presley SM, Rainwater TR, Austin GP, Cox SB, McDaniel LN, Zartman R, Leftwich BD, Anderson TA, Kendall RJ, **Cobb GP**. 2008. Toxic metal evaluation on soils and sediments in New Orleans, LA. Following hurricane Katrina. Presented at the 29th SETAC Annual Meeting, November 2008. Tampa, FL.
46. McDaniel LN, Coimbatore G, **Cobb GP**. 2008. Capillary Column Gas Chromatographic-Mass Spectrometric Determination of the Organophosphonate Nerve Agent Surrogate Dimethyl Methyl Phosphonate (DMMP) in Gaseous Phase Without Derivatization. Presented at the 29th SETAC Annual Meeting, November 2008. Tampa, FL.
47. Nations S, Wages M, Long M, Theodorakis C, and **Cobb GP**. 2008. Developmental Toxicity of Zinc Oxide Nanoparticles to African Clawed Frogs. Presented at the 29th SETAC Annual Meeting, November 2008. Tampa, FL.
48. Nations S, Wages M, Long M, Theodorakis C, and **Cobb GP**. 2008. Acute and Chronic Toxicity of Metal Oxide Nanoparticles to African Clawed Frogs. South Central Regional Chapter of the SETAC Annual Meeting, June 2008. Clear Lake, TX.

One hundred fifty-eight presentations from 1986-2007 (available upon request).

TECHNICAL REPORTS (81)

1. Vigon B, Mozur M, McConnell LM, **Cobb GP**. 2013. Pan-American Advanced Studies Institute -- Air Quality at the Interface: Megacities and Agroecosystems. Submitted to National Science Foundation. PASI Program. 10 pp.
2. Unsworth JB, Linders JBH, **Cobb GP**, Volz D, Parker R, Chen W, Zhou J. 2013. Global Framework for Implementing Consistent Ecological Risk Assessment of Pesticides for Sustainable Agriculture. IUPAC Project 2010-056-1-600. International Union of Pure and applied Chemistry, Advisory Committee on Crop Protection Chemistry. 76 pp.
3. **Cobb GP**, Cai Q, Canas J, Anderson TA, Godard-Codding CM. 2010. Contaminant Analysis in Sturgeon Tissues. US Army Corps of Engineers. 65 pp.
4. Coimbatore G, **Cobb GP**. 2010. Characterizing Liquid Crystal Based Sensor for Nerve Agents: Annual Report. Submitted to Research Development and Engineering Command, USDOD. 12 pp. submitted to RDECOM.
5. **Cobb GP**, Yu S, Canas J, Anderson TA. 2010. Assessment of Air Contamination in and around the Texarkana Wood Preserving Site in Bowie County, Texas. Submitted to Texas Commission on Environmental Quality.
6. Smith PN, **Cobb GP**. 2010. Assessment of Airborne Anabolic Hormones from Confined Animal Feeding Operations. Norman Hackerman ARP Research Fund. 3 pp.
7. **Cobb GP**, Anderson TA. 2009. Microbial response to remediation solution for oil and salt contaminated soils. Green Farms Inc. 6 pp.
8. **Cobb GP**. 2007. Continuation of PAH Analysis in fish by gas chromatography- mass spectrometry. Universidad Juárez Autónoma de Tabasco. 3 pp.
9. Coimbatore G, **Cobb GP**. 2007. Liquid Crystal Based Sensor for Nerve Agents: Interim Report. Submitted to Research Development and Engineering Command, USDOD. 9 pp.
10. **Cobb GP**, Smith PN, Smith EE. 2006. Evaluating Uptake of Incurred Explosives Residues. Submitted to Strategic Environmental Research Defense Program, USDOD. MRT-05-01. 13 pp.
11. **Cobb GP**. 2006. Soil trophic transfer of military unique compounds into mice, *Peromyscus maniculatus*. Submitted to US Army Corps of Engineers. Vicksburg, MS. 32 pp.
12. **Cobb GP**. 2005. Analysis of PAHs in fish by gas chromatography- mass spectrometry. Universidad Juárez Autónoma de Tabasco. 4 pp.
13. **Cobb GP**, Boyd J, Murray G. 2004. Cost effective, Near-real-time Sensors of Chemical Warfare Agents. Submitted to TAC, Patrick AFB, Cocoa Beach, FL.
14. **Cobb GP**, Boyd J, Murray G. 2004. Testing, Near-real-time Sensors of Chemical Warfare Agents. Submitted to RDE Com, US Army. 27 October 2004.
15. **Cobb GP**, San Francisco M, Scollon EJ, Dixon K. 2003. Chemical and Microbial Presence on Golf Towels and Player's Hands. Report submitted to Golf Digest. 10pp.
16. **Cobb GP**, Boyd J, Murray G. 2003 Development of a Cost Effective Near-real-time Sensor for Chemical Warfare Agents in Indoor Environments. Submitted to Soldier Biological Chemical Command, US Army. 15 March 2003.
17. Smith EE, **Cobb GP**. 2002. Metals, Organochlorines and Organophosphates in Colonias near El Paso, TX. Submitted to Houston Endowment on 15 December 2002.

18. Hooper MJ, **Cobb GP**, McMurry ST, Reynolds KD, Adair BM, Schwarz M, McBride T, McFarland C, Bens CM. 2002. Wildlife Biomonitoring at the Anacanda Smelter Site: Final Report. Submitted to FWS of USGS, Helena, MT. on 30 May 2002. 537 pp.

Sixty-three Technical Reports submitted from 1988-2001 are available upon request.

**GRADUATE COMMITTEE SERVICE
(Current 5, Alumni 79)**

Major Professor (2 current, 32 alumni)

Current (1 PhD, 1 MSc)

Penrose, Mike. PhD Student. Department of Environmental Science, Baylor University.
Hellinger, Deanna. MSc Student. Department of Environmental Science, Baylor University.

Alumni (14 PhD and 18 MSc)

- Liu, Jing. PhD. 2019.** Interactive Effects of Cooper Oxide Nanoparticles and Arsenic on Rice (*O. sativa japonica* Koshihikari) Plant Growth and Development. Department of Environmental Science, Baylor University. Employed at Chinese Research Academy of Environmental Sciences. China
- Watkins, Preston. MSc. 2016.** Metal constituents in water from a constructed wetland. Department of Environmental Science, Baylor University. Employed at Environ Pack, Dallas, TX.
- Acharya, Abhilasha. MSc. 2014.** Metal movement in sediments from a constructed wetland. Department of Environmental Science, Baylor University. Employed at Washington University School of Medicine, St Louis MO.
- Yu, Shuangying. PhD. 2014.** Investigating the interactive effects of ultraviolet-B radiation and pesticides in amphibians. Department of Environmental Toxicology, Texas Tech University. Employed with Queens College, Charlotte, NC.
- Wang, Jiafan. PhD. 2012.** Behavioral effects of frogs exposed to metal oxide nanoparticles. Department of Environmental Toxicology, Texas Tech University. *Winner SETAC/ACS ENVR Student Exchange Award.* Employed with OWENS CORNING addressing Product Stewardship/Sustainability. Columbus, Ohio.
- McDaniel, Les. PhD. 2011.** Detecting trace toxicants using liquid crystal technologies. Department of Environmental Toxicology, Texas Tech University. *ARCS Scholar.* Employed as Clerk at TraceAnalysis in Lubbock, TX.
- Zhang, Junling. MSc. 2010.** Effects of TiO₂ nanoparticles and UV light on frog embryo growth and survival. Department of Environmental Toxicology, Texas Tech University. Employed with KaMin LLC in Macon, GA.
- Able, Mike. PhD. 2009.** Trace metal profile of soils and sediments in New Orleans, LA, USA. Department of Environmental Toxicology, Texas Tech University. Water Chemistry Manager at DowDupont in Freeport, TX.
- Biggs (née Nations), Shawna. MSc. 2009.** Toxicity of metal-oxide nanoparticles to *Xenopus laevis*. Department of Environmental Toxicology, Texas Tech University. *Winner SETAC Jeff Black Award.* Employed at AnalySis, Inc. in Austin, TX.
- Pan, Xiaoping. PhD. 2007.** Toxicological Effects of Trinitroso-explosive on deer mice. Department of Environmental Toxicology, Texas Tech University. *Winner ACS Environmental Chemistry Best Student Paper Award. Winner Cash Family Fellowship.* Employed as a Faculty member in Chemistry at East Carolina University.

- Liu, Jun. MSc. 2007.** HMX depuration into quail eggs and chorioallantoic membranes. Department of Environmental Toxicology, Texas Tech University. Employed with an Environmental Consulting Lab in Atlanta GA.
- Smith, Jordan. PhD. 2007.** Genetic Alterations in Mice exposed to RDX metabolites. Department of Environmental Toxicology, Texas Tech University. *USEPA STAR Fellow. ARCS Scholar.* Employed as a Research Scientist at Battelle NW Labs.
- Radtke, Corey W. PhD. 2005.** Laboratory investigation of explosives degradation in vadose zone soil using carbon source additions. Department of Environmental Toxicology, Texas Tech University. Founder VERD Technologies, Houston TX.
- Boyd, Jonathan A. PhD. 2004.** Sensor development for gaseous neurotoxicants. Department of Environmental Toxicology, Texas Tech University. Faculty member, West Virginia University School of Medicine.
- Cruz-Li, Emilia I. PhD. 2004.** Octylphenol and perchlorate effects on growth and development of zebrafish. Department of Environmental Toxicology, Texas Tech University. Employed at El Centro Universitario Regional del Litoral Atlántico in Arlantida, Honduras.
- Scollon, Edward J. PhD. 2003.** Organochlorine pesticide accumulation in white crowned sparrows during artificial migration. Department of Environmental Toxicology, Texas Tech University. *Runner-up Platform Competition SETAC South Central 2003.* Employed with as a Risk Assessor with Valent, Sacramento, CA.
- Adair, Blakely M. PhD. 2002.** Trophic transport of metals from mining waste into avian species. *Karen Wetterhahn Memorial Award Recipient, NIEHS/USEPA.* Faculty member at The Citadel, Charleston, SC.
- Moore, Andrew B. MSc. 2002.** Mercury distribution and excretion from prairie voles following exposure to methyl mercury and chelation treatment. Department of Environmental Toxicology, Texas Tech University. (*Winner Best Presentation, TIEHH Annual Symposium*). Employed by Dallas County Institute of Forensic Science, Dallas, TX.
- Gentles, B. Angela. PhD. 2001.** Developmental effects of cadmium chloride on offspring from Streptozocin treated Sprague-Dawley Rats. Department of Environmental Toxicology, Texas Tech University. Faculty member at South Plains College, Levelland Texas.
- Bargar, Tim A. PhD. 2000.** Chorioallantoic Membrane Use as a Non-Lethal, Non-Invasive Indicator of Oviparous Organism Exposure to Organochlorine Contaminants: A Laboratory Validation Study. Environmental Toxicology, Texas Tech University. Employed with USGS, Cooperative FWS Research Unit. Gainesville FL.
- Bouknight, Janet. MSc. 1998.** Synthesis and Application of a new polymer for treatment of metals in waste streams. Department of Environmental Toxicology, Clemson University. Employed as an Instructor at Santa Fe Community College, Gainesville FL.
- Cruz-Li, Emilia I. MSc. 1998.** Pesticide movement in a watershed from coastal South Carolina. Department of Environmental Toxicology, Clemson University. (*Fulbright Scholar; Winner Best Platform Presentation, Carolinas SETAC*).
- Adair, Blakely M. MSc. 1997.** Mercury accumulation in Prothonotory warblers at designated hazardous waste sites. Department of Environmental Toxicology, Clemson University. (*Winner Best Platform Presentation, Carolinas SETAC and South Central SETAC; Runner-up Best Platform Presentation, SETAC*).
- Ownby, David. MSc. 1997.** Influence of Aqueous Constituents on Silver Determination. Department of Environmental Toxicology, Clemson University. Employed as Faculty member in Chemistry at Towson University, Towson MD.

- Shupack, Debbie. MSc. 1997.** Influence of Vegetation on Mineralization of Propylene Glycol in Soil: Reducing Environmental Impact of De-icing Fluids in Runoff Water. Department of Environmental Toxicology, Clemson University. (*US Department of Defense Scholar*). Employed as environmental consultant in Atlanta. Cobb served as co-advisor.
- Pattenayek, Mala. MSc. 1996.** Enhanced bioremediation of hazardous materials using surfactants. Department of Environmental Toxicology, Clemson University. Employed with Integral, environmental consultants in San Francisco, CA.
- Sands, Kristin. MSc. 1995.** Bioaccumulation of lead, cadmium, arsenic and zinc in garden vegetables grown in mine tailings. Department of Environmental Toxicology, Clemson University. Employed as a High School Science Teacher, Auburn, AL.
- Wood, Pattie D. MSc. 1995.** Chorioallantoic membrane as an indicator tissue for polychlorinated biphenyls in eggs of american alligators (*Alligator mississippiensis*) and loggerhead sea turtles (*Caretta caretta*). Department of Environmental Toxicology, Clemson University. Employed with Portland Community College in Portland, OR.
- McCoy, Torin J. MSc. 1994.** Qualitative ecological risk assessment at hazardous waste sites in South Carolina. Department of Environmental Toxicology. Clemson University. Environmental Systems Branch Chief with NASA, Houston, TX.
- Rudolph, Sharon A. MSc. 1992.** Environmental monitoring for toxic substances near the Skagit County, Washington waste incinerator. *Department of Environmental Systems Engineering*, Clemson University. Employed with Kleinfelder Consultants, Whittier CA.
- Phillips, Michelle T. MSc. 1991.** Analysis of polychlorinated biphenyls in duck eggs. *Department of Chemistry*, Clemson University.
- Norman, Donald M. MSc. 1989.** Organochlorine pesticides and polychlorinated biphenyl congeners in great blue herons from the Puget Sound ecosystem. *Wildlife Toxicology*. *Huxley College. Western Washington University*. Operates Norman Consulting, Seattle, WA. Cobb was research advisor for Norman.

Committee Member (3 active, 47 graduated)

Current (3 PhD, 0 MSc)

- Castellon, Ben.** PhD Student. Fate, Transport and Bioavailability of Metallic Nanoparticles in Simulated Aquatic Ecosystems. Department of BioMedical Studies, Baylor University.
- George, Marina.** PhD Student. Physical and toxicological characterization of Nanomaterials. Department of Environmental Science, Baylor University.
- Yoon, Subin.** PhD Candidate. Carbon Sources and Air Quality. Department of Environmental Science, Baylor University.

Alumni (23 PhD and 24 MSc)

- Kristofco, Lauren.** Age Matters: Developmental Stage of Zebrafish (*Danio rerio*) Influences Bioconcentration, and Survival and Behavioral Photomotor Response Thresholds. Department of Environmental Science, Baylor University. Employed as Environmental Stewardship Manager with Chevron in San Francisco, CA.

- Breed, Chris. MSc 2015.** Modeling the Transport of Sucralose, an Anthropogenic Tracer, in an Effluent Dependent Watershed with the Soil and Water Assessment Tool during an Extreme Drought. Department of Environmental Science, Baylor University.
- Gibson, Anna. PhD 2014.** Diagnostic procedures for plague detection in free ranging rodents. Department of Environmental Toxicology, Texas Tech University. Research Compliance & International Lab Safety Manager at Metabiota in Washington, D.C.
- Blackwell, Brett. PhD. 2015.** Occurrence of Steroid Growth Promoters Associated with Particulate Matter Originating from beef Cattle Feedyards. Department of Environmental Toxicology, Texas Tech University. Employed with the USEPA, Duluth, MN
- Connors, Kristin. PhD 2014.** Pharmaceutical Effects in Aquatic Species. Institute of Biomedical Studies. Baylor University. Employed as Product Stewardship Manager for Proctor and Gamble in Cincinnati, OH.
- Du, Bowen. PhD 2014.** Pharmaceutical Uptake and Distribution. Institute of Biomedical Studies. Baylor University. Employed as Water Quality Chemist at SCWRP in San Diego, CA.
- Reed, Tyler. MSc. 2013** Earthquake association with specific California and Nevada Fault Systems. Department of Geology, Baylor University.
- Nallathamby, Punith. MSc. 2013.** Qualitative and qualitative assessment of Unresolved Complicated Mixture (UCM) in PM_{2.5} in Bakersfield, CA. Department of Environmental Science. Baylor University. Employed as an Environmental Consultant in the DFW Metroplex.
- Subedi, Bikram. PhD. 2012.** Behavior of Personal care products in the environment. Institute of Ecological, Earth and Environmental Sciences. Baylor University. Employed as a Faculty Member at Murray State University, Murray, KY.
- Chase, Darcey. MSc. 2011.** Fate of synthetic musks in waste water treatment facilities and land application sites. Department of Environmental Toxicology, Texas Tech University. Ecotoxicology Study Director, Bayer Crop Protection.
- Dacko, Nina. MSc. 2011.** Arsenic effects on larval insect growth in post mortem vertebrates. Department of Environmental Toxicology, Texas Tech University.
- Vadan, Rodica. PhD. 2010.** Fullerene toxicity to algae. Department of Environmental Toxicology, Texas Tech University. Employed as postdoctoral researcher, Department of Geosciences, Texas Tech University. Deceased.
- Long, Monique. MSc. 2009.** Mechanisms of Metal Toxicant and Nutrient Uptake via the GI. Department of Environmental Toxicology. Texas Tech University. Technology Commercialization/Research Economist, University of Texas, San Antonio.
- Peden, Norka. PhD. 2008.** Effects of TNT on Rana tadpoles. Department of Environmental Toxicology, Texas Tech University. Idaho Department of Environmental Quality.
- Bealle, Blake. MSc. 2007.** Acute, Sub-acute, and Sub-chronic Effects of Polycyclic Aromatic Hydrocarbons in Northern Bobwhite Quail (*Colinus virginianus*). Department of Environmental Toxicology. Texas Tech University. Major Offshore Repairs Manager at Kirby Corporation in Houston, TX.
- Jones, Lindsey. MSc. 2007.** Accumulation and Effects of HMX in the Green Anole (*Anolis carolinensis*). Department of Environmental Toxicology, Texas Tech University. Senior Advisor for Science and Policy at USEPA, Washington, DC.
- Ferenbaugh, Joy. PhD. 2007.** Contaminant accumulation in sea lions. Department of Biological Sciences, Texas Tech University.
- Zhang, Baohong. PhD. 2006.** Uptake of RDX by earthworms and resultant effects. Department of Environmental Toxicology, Texas Tech. Professor of Biology at East Carolina Univ.

- Lui, Funjin. PhD. 2005.** Response of Aquatic organisms to metal and perchlorate exposures. Department of Environmental Toxicology, Texas Tech University. Employed at University of Rhode Island.
- Bell, Janeanne. MSc. 2006.** Molecular modeling for catalysis of nitrogen fixation. Interdisciplinary Studies. Texas Tech University.
- McFarland, Craig. PhD. 2005.** Metal effects on ALAD activity in wildlife. Department of Environmental Toxicology, Texas Tech University. Employed by USDOD, Aberdeen Proving Grounds.
- Reynolds, Kevin D. PhD. 2004.** Development and characterization of reproductive and immunological wildlife biomarkers for use at national priorities list sites. Department of Environmental Toxicology, Texas Tech University. Employed as Assistant Regional Director for Gulf Restoration, USFWS Atlanta, GA.
- Yu, Lu. PhD. 2004.** Perchlorate and heavy metal uptake in terrestrial plants. Department of Environmental Toxicology, Texas Tech University. Risk Assessment at Syngenta.
- Fredricks, Timothy. MSc. 2004.** Lead uptake by upland game birds in southern Texas. Department of Wildlife Management, *Texas A&M University, Kingsville*. Senior Risk Assessor, Bayer Crop Science.
- Schwartz, Matt. MSc. 2003.** Effects of mining wastes on deer mouse demographics. Department of Environmental Toxicology, Texas Tech University. Employed as a USFWS Contaminants Specialist in Colorado.
- Rainwater, Thomas. PhD. 2003.** Candidate. Mercury effects on alligator behavior. Graduate Program of Environmental Toxicology, Texas Tech University. Employed as a Wildlife Research Coordinator with Clemson University. Georgetown, SC
- Borth-Peterson, Leahanne. PhD. 2003.** The role of pheromones in symbiotic existence of aphids and parasitic wasps. Department of Biological Sciences. Texas Tech University.
- McBride, Toby. MSc. 2002.** Effects of heavy metal contaminants on American kestrel health and reproduction. Department of Environmental Toxicology, Texas Tech University. Employed as a USFWS Contaminants Specialist in Sacramento, CA.
- Olivares (nee Landrum), Mindy. MSc. 2002.** Uptake of perchlorate in riparian vertebrates. Department of Environmental Toxicology, Texas Tech University.
- Yu, Lu. MSc. 2002.** Comparative study of Perchlorate Uptake in Terrestrial Plants. Department of Environmental Toxicology. Texas Tech University. Consultant at RiskNomics, Phoenix, Arizona.
- Godard, Celine. PhD. 2000.** Novel cytochrome P450 I genes in Marine Vertebrates. Department of Environmental Toxicology. Texas Tech University in collaboration with Woods Hole Oceanographic Institute. Faculty member at Texas Tech University.
- Rummel, Kevin. PhD. 1999.** Porphyrin profile and chelator techniques in the assessment of mercury exposure and effects. President and COO at REDLattice Inc, Washington, DC.
- Smith, Phil N. PhD. 1999.** Effect of metal and chlorinated contaminants on opossums at the Paducha gaseous diffusion plant. Graduate Program of Environmental Toxicology, Texas Tech University. Employed as a faculty member at Texas Tech University.
- Awata, Hiroshi. MSc. 1999.** Modeling the bioavailability of organochlorine pesticides in soil. Graduate Program of Environmental Toxicology, Texas Tech University. Employed with Environmental Analytical Firm in Houston, TX.
- Reynolds, Kevin, MSc. 1998.** Relationship between passerine movement patterns and contaminant exposure. Department of Environmental Toxicology, Clemson University. Lead Scientist on the Deep Water Horizon project, USFWS.

- Summers, Jeannie. MSc. 1998.** Effect of hydrophobic chemicals on aquatic invertebrates. Dept of Environmental Toxicology, Clemson Univ. Employed with Oregon State Univ.
- Brown, Trey. PhD. 1997.** Mercury transformations by benthic organisms. Department of Environmental Toxicology, Clemson University. Employed as a Lecturer in Environmental Science at Baylor University, Waco, TX.
- Settechan, Daam. MSc. 1997.** Toxicodynamics of TCDD in laying hens. Department of Environmental Toxicology, Clemson University. Employed with Laboratory of Environmental Toxicology, Chulabhorn Research Institute, Bangkok, Thailand.
- Goldstein, Michael. MSc. 1997.** Effect of pesticides on Swainson's Hawk populations in Argentina. Department of Environmental Toxicology, Clemson University.
- Bills, Todd. MSc. 1996.** Silver Toxicity to *Daphnia Magna*. Department of Environmental Toxicology, Clemson University. Employed as a consultant in Detroit, MI.
- Cowles, Jim. PhD. 1996.** Supercritical fluid extraction of polar organic compounds from environmental matrices. Department of Environmental Toxicology, Clemson University. Employed as Director of Product Safety for Tessenderlo Kerley Inc. in Phoenix, AZ.
- Joab, Bruce. MSc. 1996.** Skeletal effects of organophosphorus toxicants. Department of Environmental Toxicology, Clemson University. Employed as Risk assessor for California EPA, Sacramento, CA.
- Smink, John. MSc. 1996.** Use of constructed wetlands to control pesticide runoff from agricultural fields in TN. Department of Environmental Toxicology, Clemson University.
- Waters, Melissa. MSc. 1996.** Metal uptake by plants grown in amended mine tailings. Dept. of Environmental Toxicology, Clemson University. Employed by NOAA, Atlanta, GA.
- Akins, Jon. PhD. 1995.** Porphyrins as biomarkers of contaminant exposure. Department of Environmental Toxicology, Clemson Univ. Employed with Syngenta, Greensboro, NC.
- Feng, Zouzohn. PhD. 1994.** Polynomial nonparametric techniques for data analysis. *Department of Mathematical Sciences.* Clemson University. Employed as trend analyzer with Health Care Services, Indianapolis, IN.
- Wall, Stephen. MSc. 1994.** Toxicity of cadmium to *Daphnia magna* in the presence of bioturbation by carp. Department of Environmental Toxicology, Clemson University. Employed as Global Strategy Lead at Syngenta, Durham, NC.

Moderator/Dean's Representative (7)

- Arindam Mazumdar. 2010. (PhD in Chemistry). Texas Tech University. Development of novel catalytic syntheses of aziridines and [2]rotaxanes.
- Li, Shengfu. 2007. (PhD in Chemistry). Synthesis, Properties, and Applications of Ionic Liquids.
- Kattuboina, Venkata. 2007. (PhD in Chemistry). Texas Tech University. Development of chiral n-phosphonyl imines chemistry and new tandem bond-formation reactions.
- Hu, Fang. 2006. (PhD, Biological Sciences) Texas Tech University. Endocrine disruption of reproductive and thyroid axis in anuran amphibians.
- Karunasena, Enusha. 2005. (PhD, Medical Microbiology & Immunology). Texas Tech University Health Sciences Center. The Mechanisms of neurotoxicity induced by trichothecene mycotoxins produced by *Stachybotrys chartarum* in an *in vitro* model.
- Morse, Audra. 2003. (PhD, Civil Engineering). Texas Tech University. Antibiotic lifetimes and antibiotic resistance in circulating and flow through wastewater treatment systems.
- Rodgers, Brenda. 2000. (PhD, Biological Sciences). Texas Tech University. Genetic alterations in small mammals following the release of radionuclides in Chernobyl.

External Examiner (1)

Naile, Jonathan. 2011. (PhD in Environmental Toxicology). University of Saskatchewan, Saskatoon, Sask, CAN. Evaluation of perfluorinated compounds in east Asia.

UNDERGRADUATE THESIS ADVISING (15)

- McLane, Justin. 2016.** (B.Sc. Environmental Science) Baylor University. Plastic Deggradation in the Environment
- Newberger, Derek. 2014.** (B.Sc. Biology, Honors College Student) Baylor University. Transition metal accumulation in caudal scutes of American Crocodiles (*Crocodylus acutus*) from Belize. Won best poster presentation at the CSG.
- Nogelmier, Eric. 2009.** (Biology and Spanish Student) Texas Tech University. Availability of metals from soils in New Orleans.
- Ochoa, Kelli. 2008.** (Biochemistry Student). Texas Tech University. Anaerobic microbial conversion of nitramine explosives in vivo. *See 2007 publications.* Currently in Medical School at University of Houston.
- Jennings, Colin. 2006.** (B.Sc., Chemistry). Texas Tech University. Self-Assembled Monolayer Alterations to Enhance Chemical Sensor Responses.
- Moore, A. 1998.** (B.Sc. Biological Sciences). Texas Tech University. Mercury speciation in prairie vole urine following methyl mercury exposure.
- Leverette, Chad. 1995.** (B.Sc., Chemistry). Erskine College. Evaluating DDT residues in avian brain tissue. Employed as Faculty member at USC-Aiken.
- Delorme, Peter. 1995.** (B.Sc., Chemistry). Clemson University. Solid Phase Extraction for Separation of Alkylphosphates, p-Nitrophenol, and Methylparathion Prior to Gas Chromatography.
- Johannsen, K.L. 1994.** (B.Sc., Forestry Resources). *University of Georgia.* Heavy Metal Levels in Male Mink from Georgia, North Carolina, and South Carolina. Employed by Kentucky Environmental Quality Commission.
- Crawford, Leslie. 1991.** (B.Sc., Chemistry.) Clemson University. Method Development for Analysis of Phenol and Chlorophenol. Employed with Proctor and Gamble.
- Cardwell, Audra. 1989.** (B.Sc., Aquatic Chemistry.) Western Washington University. The Effects of DIAZINON Application and Temporal Conditions on Starling Nestling Survival. Employed with Compliance Services International. Seattle, WA.
- Cowles, Jim. 1989.** (B.Sc., Aquatic Toxicology.) Western Washington Univ. Polychlorinated Biphenyls in Puget Sound. **Winner of the Huxley College Research Award.**
- Kouri, Steve. 1989.** (B.A., Chemistry) Western Washington University. Organochlorine Concentrations in Whale Blubber.
- Larson, David. 1989.** (B.Sc., Huxley College.) Western Washington University. Determination of Diazinon Residues in Invertebrate Food Items of Starling Nestlings.
- Leonard, Sean. 1989.** (B.Sc., Aquatic Chemistry) Western Washington University. Squalicum Creek Water Quality Assessment.

HIGH SCHOOL STUDENT ADVISEMENT (15)

- Barney, Darci.** 2006. Toxicity of MNX to nematodes.
- San Francisco, Brian.** 2004. Explosives determination in biota. Currently in Boston College for graduate school.
- San Francisco, Brian.** 2003. Survival of zebrafish eggs following second generation of exposure to mixtures of endocrine disrupting chemicals.
- Crasta, Davies.** 2003. Temporal profile of perchlorate and octylphenyl in exposure solutions for multigenerational aquatic toxicology studies.
- Gallaway, Clayton.** 2003. Dissolution of RDX by vapor phase esters. Rice alumnus, High School Science Teacher in Houston TX.
- Gallaway, Clayton.** 2002. DDT and its transformation products in kidneys of sparrows following flight. *Runner up Open Division International Science Fair.*
- Grier, Matthew.** 1996. Evaluation of Residual Oil Following a Pipeline Rupture on the Reedy River. *Third place SC JAS 1997, Winner Baruch Award for Environmental Research.*
- McDaniel, Shane.** 1996. Nutrient movement in the Pee Dee Watershed.
- Neimi, Jennifer.** 1996. Mercury accumulation in Alligators in coastal South Carolina.
- Petzold, Molly.** 1996. Chorioallantoic membranes as indicators of PCB uptake in alligators.
- Bowles, Marshall.** 1995. Mercury accumulation in alligators from the coastal plain of South Carolina.
- Daniels, Christine.** 1995. Physical and chemical properties of new surfactant formulations.
- Saul, B.** 1995. Effect of Dissolved Chemicals on Silver Dissipation in Water.
- O'Quinn, Michael.** 1994. S.C. Governor's School for Mathematics and Science. PCB determinations in American alligator and Loggerhead sea turtle eggs. *See 1997 publications.* Virginal Commonwealth University – Division of Cardiology
- Pitts, Thomas.** 1992. Alkyl phosphate and other OP metabolite analyses in fecal urates of birds. Restaurant Manager in New York City NY.

CONTINUING EDUCATION (15)

- Cobb GP.** 2017. Emerging Issues in Environmental Chemistry at the Research Centre for Toxic Compounds in the Environment. 26 June 2017 at the Masaryk University, Brno, Czech Republic. As part of Summer School in Environmental Chemistry and Passive Sampling.
- Cobb GP.** 2012. Air Quality at the Interface of MegaCities and Agricultural Regions. 8-16 August 2012. National Science Foundation Pan American Advanced Studies Institute, La Plata, Argentina.
- Cobb GP.** 2006. Introducing Environmental Science in Elementary Schools. Interacted with Teachers to connect Environmental Toxicology personnel with local teachers.
- Cobb GP.** 2003. Teaching Environmental Science. Provided one lecture to Secondary School Science Teachers as part of Texas Tech College of Education Program.
- Cobb GP.** 2001. Environmental Concerns at Local, Regional, National and Global Scales. Lecture for Primary and Secondary Science Teachers.
- Cobb GP.** 2000. Environmental Concerns at Local, Regional, National and Global Scales. Texas Tech College of Education. Presented to Primary & Secondary Science Teachers.
- Kendall RJ, Cobb GP, Smith EE.** Environmental Toxicology. Spring 1998. Texas Tech Health Science Center, Lubbock, TX and satellite linked to various other locations.

- Cobb GP.** Toxicology. 1996. Environmental Technology Innovation Series. Greenville, SC.
- Cobb GP, Smith EE, Dickerson RL.** Environmental Toxicology II. October 16-20, 1995 at the Charleston Navy Shipyard, Charleston, SC.
- Cobb GP and Dickerson RL.** Environmental Toxicology. September 25-29, 1995 at the Charleston Navy Shipyard, Charleston, SC.
- Cobb GP.** Chemistry for Non-chemists. August 10-11, 1995 at Hilton Head, SC.
- Cobb GP, Stephens MD, Jeffers R, Waldrop VC.** June 1995. Applications of Analytical Environmental Toxicology to Streams. Attended by 15 science teachers within the Anderson, Pickens, Oconee HUB area.
- Cobb GP, Klaine SJ, Dickerson RL.** Environmental Toxicology. March 16-22, 1995 at the Charleston Navy Shipyard, Charleston, SC.
- Cobb GP.** Environmental Sample Collection and Storage. December 15-17, 1987 at the Wildlife Toxicology Workshop for The U.S. Fish and Wildlife Service. Western Washington University, Bellingham, WA.
- Cobb GP.** Environmental Sample Preparation. December 15-17, 1987 at the Wildlife Toxicology Workshop for The U.S. Fish and Wildlife Service. Western Washington University, Bellingham, WA.

PROFESSIONAL DEVELOPMENT (2)

- Cobb GP.** 2009. ACS Leadership Conference. Designed to assemble those with leadership potential within ACS to develop management and interpersonal skills as well as knowledge of ACS operations. Ft Worth Texas. 23-25 Jan 2009.
- Cobb, GP.** 1996. Spent one week at KODAK facilities (Rochester, NY) learning anodic stripping voltammetry techniques. See resulting output by David Ownby.

PROFESSIONAL EXCHANGES (10)

- Hong Kong Student Exchange: Nurturing Global Environmental Stewardship.** Exchange of undergraduate students and faculty from Hong Kong and Baylor University to better understand the varying approaches and histories of environmental stewardship.
- Wong, C.** 2013. Traveled to Hong Kong to establish research and education collaborations with Hong Kong Baptist University.
- Wong, C. and Chiu, J.** 2013. Faculty from Hong Kong Baptist University traveled to Baylor University to solidify research and education collaborations.
- Zakharov, V.** 2001. Eisenhower Fellow. Dr. Zakharov is a member of the Russian Academy of Sciences and his visit was sponsored by the Eisenhower Fellowships, which are designed to foster exchange of ideas among national leaders in selected fields of study.
- Radtke, C.** 2001-2003. Doctoral Residency for employee of Idaho National Environmental and Engineering Laboratory. Research addresses microbial degradation of explosives in soil.
- Rintoul, D.** 2001. Big Twelve Faculty Exchange. Technology Transfer visit to strengthen his ability to determine chlorinated hydrocarbons in wildlife. March 2001.
- Thorne, S.** 1999. Summer exchange student from Edinburgh Univ. who learned metal analysis and speciation in my laboratory and molecular toxicology with Dr. RL Dickerson.
- Canavelli, SB.** 1996. Exchange of Argentine Government Employees so that they could learn our non-lethal techniques for pesticide exposure assessment to strengthen research efforts into forensic evaluation of raptor mortality. Co-hosted with Dr. Mike Hooper.

- Chuiko, GM; Stepanova, VM.** 1995-1996. IREX exchange of personnel from the Inst. Biology of Inland Waterways, Rubinsk, Russia. Victor improved his metals analysis and computer skills in my laboratory. Dr. T.W. LaPoint was primary host as indicated in grant history.
- Hol, EHH.** 1988. Post graduate exchange from Wageningen University, Neth. to learn pesticide analysis techniques and incorporate contaminants data into risk assessments.

EXTERNAL PEER REVIEW (21)

Program Reviews

- Lamar University. 2016.** Environmental Science Program Review.
- Hong King Baptist University. 2015, 2017.** Review and Assess the Centre for the Croucher Institute for Environmental Science.

Dossier Reviews

- Indiana University. 2019.** O'Neill School of Public and Environmental Affairs (SPEA) Bloomington, IN. Promotion Review.
- Government College University. 2018.** Faisalabad, Pakistan. Promotion Review.
- University of Canterbury. 2016.** Department of Chemistry. Promotion Review.
- University of South Carolina. 2013-2016, 2018.** External Reviewer of School of Public Health. Tenure Dossier
- Hong Kong Baptist University. 2015.** Department of Biology. Appointment Extension Review.
- Oklahoma State University. 2013.** External Reviewer for tenure candidate.
- University of Florida. 2012.** Department of Soil & Water Science. Tenure Dossier.
- Texas Tech University. 2012, 2017.** Department of Environmental Toxicology. Tenure Dossier.
- Canada Research Chairs Secretariat. 2012.** University of Saskatchewan. Department of Veterinary Biomedical Sciences. Continuation of Research Chair Appointment.
- University of Kansas 2011, 2018.** Department of Environmental Engineering. Tenure Promotion Dossiers.
- University of William and Mary 2008.** Promotion Review.
- US Department of Agriculture. 1993.** Personnel Evaluation Panel: Reviewed four scientists in grades GS 11 to GS 14 for APHIS, Denver, CO on May 25- 26, 1993.

FUNDED GRANTS (125)

	Totals	Baylor Total
Principal Investigation	61 grants = \$5,600,000+	5 grants = \$239,861
<i>Co-Principle Investigator</i>	<i>33 grants = \$7,375,000+</i>	
Investigator	31 grants = \$11,000,000+	
Total grants	125 grants = \$24,000,000 +	

Completed Grant Funded Research Listed by Year of Initiation

2017 (\$110,861)

- 1. Analysis of Polychlorobiphenyl (PCB) Concentrations in Environmental Samples. GP Cobb.** Sponsor: Universidad de Puerto Rico. Duration: 2017. Award: \$2,000.
- 2. Evaluation of biomass health in the wastewater treatment basins. R Lavado and GP Cobb.** Sponsor: DOW Chemical. Duration: 2017-2018. Award: \$108,861.

2016 (\$19,000)

- 3. Community Efforts to Increase Awareness and Consumption of Locally Grown Fresh Foods. GP Cobb.** Sponsor: US Department of Agriculture. Duration: 9 March 2016-29 September 2017. Award: \$19,000.

2015 (\$10,000)

- 4. Evaluation of Plastic Degradation in the Environment. GP Cobb.** Sponsor: City of Denton Environmental Services and Sustainability. Duration 1 March 2015-30 November 2015. Award: \$10,000.

2011 (\$100,000)

- 5. Pan American Advanced Studies Institute: Air Quality at the Interface of MegaCities and Agricultural Regions. GP Cobb, L McConnell, K Miglioranza.** Sponsor: National Science Foundation. Duration 2011-2012. Award: \$100,000.

2010 (\$1,071,500)

- 6. Growth Promoters, Wind, and Human/Ecological Health.** BN Smith, B Johnson, M Buser, MBaker, **GP Cobb.** Sponsor: USDA. Duration: 2010-2012. Award: \$600,000
- 7. Interference and longevity evaluation for Liquid Crystal Sensors for Airborne Toxicants. GP Cobb and G Coimbatore.** Sponsor: Department of Defense. Duration: 2010-2012. Award: \$334,000
- 8. Terrestrial Toxicity Investigation of Gas-to-Liquid Fluids for Land-Based Drilling Applications.** TA Anderson and **GP Cobb.** Sponsor: Royal Dutch Shell. Duration: 2010. Award: \$70,000.
- 9. Contaminant Assessment in sturgeon eggs.** CM Godard-Codding, TA Anderson, **GP Cobb.** Sponsor US Army Corps of Engineers. Award: \$67,500. Duration: 2010.

2009 (\$433,000)

10. **Assessment of Air Contamination in and around the Texarkana Wood Preserving Site in Bowie County, Texas.** GP Cobb, J Canas, TA Anderson. Sponsor: Texas Commission on Environmental Quality. Duration: 2009-2010. Award: \$250,000.
11. **Continuation for Design of a Field Deployable, Remotely Monitored, Area Wide Biological Pathogen Detection System.** SL Presley, GP Cobb. Sponsor: Department of Defense. Duration: 2009-2010. Award: \$183,000.

2008 (\$495,500)

12. **Continuation of Liquid Crystal Sensors for Airborne Toxicants.** GP Cobb and G Coimbatore. Sponsor: Department of Defense. Duration: 2008-2010. Award: \$334,000.
13. **Bioremediation byproduct assessment.** GP Cobb, TA Anderson. Sponsor: Green Farms Inc. Duration: 2008. Award: \$11,500.
14. **Assessment of Airborne Anabolic Hormones from Confined Animal Feeding Operations.** PN Smith and GP Cobb. Sponsor: Texas ARP, Duration 2008-2009. Award: \$150,000.

2007 (\$281,900)

15. **Continuation for Design of a Field Deployable, Remotely Monitored, Area Wide Biological Pathogen Detection System.** SL Presley, GP Cobb. Sponsor: Department of Defense. Duration: 2007-2008. Award: \$250,000.
16. **Mercury Occurrences in Wildlife from Caddo Lake.** T Rainwater, PN Smith and GP Cobb. Sponsor Caddo Lake Institute. Duration 2007 Award: \$31,400.
17. **Continuation of PAH Analysis in fish by gas chromatography- mass spectrometry.** GP. Cobb. Sponsor: Universidad Juárez Autónoma de Tabasco. Duration: 2005. Award: \$500.

2006 (\$315,400)

18. **Defining microsatellite alterations in mice exposed to N-nitroso metabolites of RDX.** GP Cobb, J Smith. Sponsor: NIEHS. Duration: 2006-2007. Award: \$71,400.
19. **Continuation of Liquid Crystal Sensors for Airborne Toxicants.** GP Cobb and G Coimbatore. Sponsor: Department of Defense. Duration: 2006-2008. Award: \$244,000.

2005 (\$445,535)

20. **Acute and Developmental Toxicity of Metal Oxide Nanoparticles in Fish and Frogs.** C Theodorakis, GP Cobb, E Carraway. Sponsor: USEPA. Duration: 2005-2009. Award: \$275,000.
21. **Reproductive Effects of Chronic TNT Exposure in Deer Mice.** GP Cobb and PN Smith. Sponsor: Department of Defense, SERDP. Duration: 2005-2007. Award: \$99,421.
22. **Analytical Core For Explosives Analysis.** GP Cobb and TA Anderson. Sponsor: Department of Defense, SERDP. Duration: 2005-2007. Award: \$69,314.
23. **Analysis of PAHs in fish by gas chromatography- mass spectrometry.** GP. Cobb. Sponsor: Universidad Juárez Autónoma de Tabasco. Duration: 2005. Award: \$1,800.

Over \$21,500,000 from 102 grants obtained during 1989-2004. Provided upon request.

UNIVERSITY SERVICE

Baylor University

University Tenure Committee. Committee Chair	2019-2020
Tenure Review Committee. Assigned by President Livingstone	2017-2020
Illuminate: Human Flourishing Committee Assigned by President Livingstone	2018-2019
Big 12 Water Research Conference: Program Chair. Assigned by Judge Starr	2016
Inaugural Big 12 Water Research Workshop. Assigned by Judge Starr	2014
Institutional Animal Care and Use Committee	2013-2017
Advisor Baylor Student SETAC. (Best New Student Organization 2013)	2012-present

College of Arts and Sciences

Core Curriculum Advisory Committee	2018-2019
Pro Futuris Planning	2014
Becoming a Nationally Recognized Research University	
Planning for Master’s Programs: writing team	
Developing Top Tier Tenure Guidelines: some input	
Increasing Doctoral Production: data input and writing team participation	
ASPIRE: Informed Engagement Committee	2015-present
Faculty Mentor for Dr. Garrett Cook	2016-present
Department Chairman Evaluation Committee	2016

Department of Environmental Science

Graduate Admissions	2011-present
Undergraduate Curriculum Revision	2012-2013
PhD Program Development	2013-2015

Texas Tech University

Mentor Tech. 2008-2010. Mentorship program to provide advice to entering freshmen

Research Committee. 2007-2009. Empaneled by the Vice President for Research to help increase research infrastructure and productivity.

Search Committee: Endowed Chair of Meat Science. 2007. Appointed by the Provost.

Institutional Biosafety Committee. 2004-2009.

Safety Committee. 1999-2004.

Radiation Safety Committee. 1999.

Department of Defense Strategic Planning Committee. 1998.

Llano Estacado SETAC. 2001-2009. Faculty advisor for the student SETAC chapter.

The Institute of Environmental and Human Health

Security Committee. 2001- 2006.

Environmental Audit. 2000-2002.

Strategic Planning Committee. 1998-1999. Appointed by the President of the University to chart the course for interdisciplinary research at TTU and the TTUHSC.

Advisory Committee. 1998. Build campus-wide consensus for integrated research

Renovation Oversight. 1997-1999. Coordinated interactions with architects and subcontractors

Department of Environmental Toxicology

Faculty Search Committees 1) *Aquatic Toxicologist: 1999. Chairman*; Aquatic Toxicologist: 2005, Member.

Tenure and Promotion Committee. 1999-present.

Graduate Admissions Committee. Chairman: 2007-present; Member 2003-present.

Faculty Mentor. 2006-present. Provide professional guidance to Dr. Celine Godard-Codding.

Department of Biological Sciences

TIEHH Integration Ad hoc Committee: 1999

Graduate Student Policy Committee: 1997-1999

Departmental Seminar Committee: 1997

Clemson University

Honors Curriculum Committee. 1996. Update and approve curriculum for honors programs.

Indoor Air Quality Committee. 1994. Addressed legionella, passive smoke, & other syndromes.

Site Selection for Radioisotope Storage. 1994.

Environment Committee. 1990-1996. Charted University environmental policy.

Environmental Safety and Health Committee; Chairman. 1992-1996.

Hazardous Waste Committee; Chairman. 1990-1992.

Building Committee. 1989-1990. Environmental Toxicology Research Facility:

Department of Environmental Toxicology

Tenure and Promotion Committee. 1995-1997. Chairman 1996-1997.

Graduate Admissions Committee. Inception -1995.

Curriculum Committee. Inception-1997.

Faculty Search Committees - 1) *Pesticide Chemist: Chairman*; 2) Aquatic Toxicologist; 3) Aquatic Ecologist; 4) Biochemical Toxicologist; 5) Terrestrial Toxicologist; 6) Ecological Modeler; 7) *Pesticide Chemist: Chairman*.

Graduate Policy Committee. Inception-1994. Designed initial guidelines for students.

Policy Committee. 1994-1997. Advise Department Head and Institute Director

Western Washington University

Hazardous Waste Coordination. 1988-1990.

COMMUNITY SERVICE

- Zoo Crew.** Board of Directors. 2010-2011. Provide scientific and educational advice to program for elementary school students.
- Clothes Closet Volunteer.** 2008-2011. Arrange clothes, help people find items that they need.
- United Blood Services.** 2006-2011. Donor of 2 gallons of blood components, normally RBC.
- Texas State Science Fair Judge.** April 2004. Lead judge for physical sciences area.
- Local School Tours and Lectures.** 1997-2011. Provide demonstrations of research findings and tours of TIEHH facilities to primary and secondary students interested in science.
- Teacher Tours and Lectures.** 2005-2011. Provide demonstrations of research findings and tours of TIEHH facilities to teachers interested in science education.
- Science Demonstrations.** 1998-2011. Primary Schools in Frenship School District.
- Career Day.** 1998-2011. Primary and Intermediate Schools in Frenship School District.
- Lubbock Rotary Club.** 2000. Provided information and facility tour to civic leaders.
- New Century Leadership.** 2000-2001. Discuss career opportunities in science with promising students from Lubbock County.
- Executive Forum.** 1998. Presentation of research at TIEHH that addresses community health.
- South Plains Water Quality Association.** 1998. Presentation of research and economic development activities of TIEHH.
- Frenship Baseball League.** Assistant Coach, 2003-2008.
- Frenship Basketball League.** Coach or Assistant Coach, 2004-2008.
- Lubbock Soccer Association.** Coach (F-license), 2000; Assistant Coach, 1999, 2001-2002.
- Tri-County Soccer League.** Assistant Coach, 1995-1997; Registrar, 1996-1997.
- Wren Youth League.** Assistant Coach, 1996.
- South Carolina Junior Academy of Sciences.** 1994-1997. An invited speaker for annual conferences at The Governor's School in Hartsville, SC.
- Planning for SRS Citizens Advisory Board.** 1994. Attended meetings to establish goals and personnel requirements for the Savannah River Site Citizens Advisory Board.
- South Carolina Department of Wildlife and Marine Resources.** 1993. Assisted in litigation for establishment of an environmental trust to provide stewardship of the Pinewood hazardous waste landfill in Pinewood, SC.
- South Carolina Hazardous Waste Select Oversight Committee.** 1992-1995. An invited participant in quarterly meetings of SC Senate Committee.
- Wendell Davis Fund Raiser.** 1992. Participated in a Clinton High School "celebrity" basketball game to raise funds for cancer treatment of a former classmate.
- South Carolina Department of Health and Environmental Control.** 1991-1997. Supervise analytical determinations from periodic wildlife mortalities that are suspected to have arisen from misuse of chemicals.
- Summer Program for Minority Students.** 1991. Taught a one month Environmental Science course to promising high school students.
- Palmetto Conservation Foundation.** 1990-1997. Advisory Board and Research Fellow.

HONORS & AWARDS**SETAC Fellow. Society of Environmental Toxicology and Chemistry 2019-present.**

Recognizing fundamental contributions to environmental science service to SETAC.
Limited to 1% of ACS members.

ACS Fellow. American Chemical Society. 2015-present. Recognizing fundamental contributions to chemistry and for service to ACS. Limited to 1% of ACS members.

SETAC Herb Ward Exceptional Service Award. 2013.**SETAC Presidential Citation for Excellent Service. 2012.**

TIEHH Outstanding Faculty Award - October 1999. Presented by the Graduate Student Group to the faculty member demonstrating outstanding commitment to student education.

TIWET Distinguished Service Award - April 1993. For accomplishments in research program and grant development.

Sigma Xi Doctoral Research Award - May 1987. For novel dissertation topics and completion of outstanding research at The University of South Florida. Cash award and a banquet.

Ashford Fellowship - April 1987. For completion of the year's most promising research in pursuit of a doctoral degree in Chemistry at The University of South Florida. \$1000.

University of South Florida Graduate Council Fellowship - August 1985. Presented to graduate students demonstrating exemplary classroom, research and teaching skills. \$1000.

Edward E. Towell Award - May 1981. Awarded for the highest score among College of Charleston students who took the American Chemical Society Organic Chemistry Examination. CRC Handbook of Chemistry and Physics.

Student Senator - 1977-1978. Freshman representative to College of Charleston Student Government Association.

Tuition Scholarship - 1978. Awarded by The College of Charleston to incoming freshmen whose high school performance demonstrated wide ranging potential. \$750.

Furman Scholar - 1978.

South Carolina Governor's School - Summer 1977.

Boys' State - Summer 1977

REFERENCES

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