

# Michael Ray Sawey

## Curriculum Vitae

Department of Biology  
2800 South University Drive  
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## Educational Background

M.S. in Environmental Science, Texas Christian University, 2008

B.S. with Honors in Biology, Texas Wesleyan University, 1994

## Current Position

Instructor II, Biology Department, Texas Christian University, 2014-present

## Previous Professional Positions

2008-2014 Instructor I, Biology Department, Texas Christian University

2006-2008 Graduate Teaching Assistant, Texas Christian University

2003-2006 High School Teacher - Biology, Environmental Science, Health, Cassata High School, Fort Worth, TX

2002-2003 High School Teacher - Algebra II & Pre-Calculus, Rio Vista High School, Rio Vista, TX

1995-2003 Director of Music, St. Bartholomew Catholic Church

1994-1995 Water Quality Technician, Tarrant Regional Water District

## Courses Taught

Contemporary Issues in Biology (BIOL 10003)

Teaching Intro Level Biology (BIOL 40320)

Biology Seminar – Graduate Teaching in Biology (BIOL 60910)

## Presentations at Scholarly Meetings

Sawey, M. 2014. University Student Responses to the Inclusion of Environmental Curricula. North American Association of Environmental Educators (NAAEE), Ottawa, Canada.

Sawey, A., Sawey, M., Place-based environmental education: Creating a professional learning community. 2013 Ecological Society of America, Life Discovery Conference. St. Paul, MN.

Sawey, M., Sawey, A., Using Wikispaces for collaborative content creation in a non-major's biology lab. 2013 Ecological Society of America, Life Discovery Conference. St. Paul, MN.

Park, A. J., M.R. Sawey, M.M. Chumchal, R.W. Drenner, Y. Deng, and W.H. Nowlin. Biomagnification of mercury within the macroinvertebrate community of

Caddo Lake. 2011 South Central Regional Chapter of the Society of Environmental Toxicology and Chemistry Annual Meeting, Denton, Texas.

Park, A. J., M.R. Sawey, M.M. Chumchal, R.W. Drenner, Y. Deng, J. Wadlington, W.H. Nowlin. 2010. Biomagnification of mercury within the macroinvertebrate community of Caddo Lake. Texas Academy of Science Annual Meeting, Stephenville, Texas.

Sawey, M.R.\*, M.M. Chumchal, R.W. Drenner, and J.E. Pinder III. 2008. Habitat-specific differences in mercury concentrations of Mississippi grass shrimp from Caddo Lake, Texas. South Central Regional Chapter of the Society of Environmental Toxicology and Chemistry Annual Meeting, Houston, Texas.

## **Professional and Creative Activities**

### ***Invited Seminars/Workshops***

Environmental Science with Emphasis on ELL. Biology Content Specialist for Teacher Quality grant funded by Texas Higher Education Coordinating Board. Andrews Institute of Mathematics and Science Education, Texas Christian University, July 25-29, 2016.

BRIT CARES: About Water. Intensive professional development for K-12 teachers focusing on current water issues in North Texas. Botanical Research Institute of Texas, Fort Worth, TX. July 9-13, 2012

Energy Crisis – Is it for real this time? Andrews Institute of Mathematics and Science Education, Texas Christian University, April 2011

Biodiversity – Who needs it? Andrews Institute of Mathematics and Science Education, Texas Christian University, March 2011

Using Contemporary Issues in Biology to engage non-Biology majors in large lecture classes. Non-Major's Biology Leadership conference. Annual meeting, Atlanta, Georgia. February 2011

Environmental Systems & Science for TX Public Schools, Andrews Institute of Mathematics and Science Education, Texas Christian University, September 2010

Trees of North Texas, Andrews Institute of Mathematics and Science Education, Texas Christian University, July 2010

North Texas Weather, Andrews Institute of Mathematics and Science Education, Texas Christian University, March 2010

Environmental Systems Crash Course – *Part 3*, Andrews Institute of Mathematics and Science Education, Texas Christian University, November 2009

Environmental Systems Crash Course – *Part 2*, Andrews Institute of Mathematics and Science Education, Texas Christian University, October 2009

Environmental Systems Crash Course – *Part 1*, Andrews Institute of Mathematics and Science Education, Texas Christian University, October 2009

Solid Waste, Andrews Institute of Mathematics and Science Education, Texas Christian University, 2009

North Texas Water Issues, Andrews Institute of Mathematics and Science Education, Texas Christian University, 2009

Our Energy Future, Andrews Institute of Mathematics and Science Education, Texas Christian University, September 2009

Introduction to Water and the Water Cycle, Andrews Institute of Mathematics and Science Education, Texas Christian University, 2008

The Water Crisis in North Texas, Andrews Institute of Mathematics and Science Education, Texas Christian University, 2008

Wastewater and Stormwater, Andrews Institute of Mathematics and Science Education, Texas Christian University, 2008

### ***Popular Press and Digital Publications***

Contributing author for species description in the digital app, *Flora of Texas: Fort Worth Prairie Region*. Published by the Botanical Research Institute of Texas and High Country Apps, LLC. 2015.

Sawey, M.R., Got a Big Class? i>Clickers Can Bring it Down to Size, *Insights into Teaching and Learning*, Spring 2013, Koehler Center for Teaching Excellence, Texas Christian University.

### ***Professional Development***

Bystander Intervention Training for Faculty. October 27, 2016. Koehler Center for Teaching Excellence, TCU. Fort Worth.

D2L Boot Camp (TCU Online). July 20-23, 2016. Koehler Center for Teaching Excellence, TCU. Fort Worth.

Annual Conference of the North American Association of Environmental Educators. October 2014. Ottawa, Canada.

Forest and Nature School: Place, Play, and Inquiry-Based Education. Presented by David Sobel and Marlene Power. October 2014. Forest and Nature School Canada, Ottawa.

LearningStudio Dropbox with Turnitin Integration. January 2014. Koehler Center of Teaching Excellence, TCU. Fort Worth.

Publish and Flourish. November 2012. Text and Academic Authors Association, Fort Worth, TX.

Non-Majors Biology Leadership Conference IV: The Scholarship of Teaching and Learning. September 2012. Pearson – Benjamin Cummings. Seattle.

Using i>Clicker 2 to engage students in a large lecture setting. April 2012. Koehler Center for Teaching Excellence, TCU. Fort Worth.

Non-Majors Biology Leadership Conference III: Course Redesign. February 2011. Pearson – Benjamin Cummings. Atlanta.

Non-Majors Biology Leadership Conference II: Increasing student participation using technology and best practices. February 2010. Pearson – Benjamin Cummings. San Francisco.

SoftChalk Workshop. April 2010. Koehler Center for Teaching Excellence, TCU. Fort Worth

How to help prevent suicide with SafeTALK. April 2010. Dr. Monica Kintich. TCU HR Helps. Fort Worth.

Collecting Electronic Homework Using eCollege Dropbox and MS Word. February 2010. Koehler Center for Teaching Excellence, TCU. Fort Worth.

.NExT Hands-on workshop. November 2008. Koehler Center for Teaching Excellence, TCU. Fort Worth

## **Professional Consultation**

### ***Textbook Review***

Forensic Toxicology: Principles and Concepts. Lappas, Lappas, 1<sup>st</sup> Ed. Academic Press (Jan 2017).

Biology Now with Physiology. Houtman, Scudellari, 1<sup>st</sup> Ed. W.W. Norton  
Physiology Chapters (5 chapters) reviewed for accuracy (Mar-Apr 2015).

Biology Now. Houtman, Scudellari, 1<sup>st</sup> Ed. W.W. Norton.

Entire core book (19 chapters) reviewed for accuracy (July - Dec 2014).

Biology: A guide to the natural world. David Krogh, 5<sup>th</sup> Ed. Pearson – Benjamin Cummings, 2011.

Biology: Science for Life. Belk, C., Borden Maier, V. 4<sup>th</sup> Ed. Pearson – Benjamin Cummings, 2012.

Prospectus review, Name TBD. Zurawski. Pearson – Benjamin Cummings, publication TBD

Biology: Science for Life. Belk, C., Borden Maier, V. 3<sup>rd</sup> Ed. Pearson – Benjamin Cummings, 2010.

Biology for a Changing World, W.H. Freeman and Scientific American, 2009 (pub. 2011)

### ***Textbook Publication***

Issues in Biology. Michael & April Sawey, 1<sup>st</sup> Ed. Pearson – Benjamin Cummings, In development (scheduled publication 2018)

### ***Manuscript/Presentation review***

North American Association of Environmental Educators conference in Ottawa October 2014. Manuscript/Presentation reviewer. Three (3) reviewed. April 2014

### **Public Speaking and Community Outreach**

Member of panel discussing Science and Religion. Religion and Science (RELI 30723). Dr. David Grant, TCU, April 2017.

Member of panel discussing Science and Religion. Religion and Science (RELI 30723). Dr. David Grant, TCU, April 2015.

Science and Religion: Why can't they get along? Theology on Tap, Young Adult Ministry, Diocese of Fort Worth, December 2012

Careers in Science. Invited to speak to students at Monnig Middle School about careers in science. October 2012.

### **Departmental Service**

Bystander Intervention Training for Faculty, 2016-2017

"Monday's at TCU" for prospective Biology students, 2014-present

Ad hoc committee on departmental website redesign, 2013

Provide summer training sessions for graduate TA's, 2009-present

Lab Coordinator for BIOL10003, 2009-present

Assessment Committee, 2008-present

Curriculum Committee, 2009-2015

### **College Service**

College Advisory Committee, 2016-2017

Ad hoc committee on Instructor ranks and promotion, 2011

Chancellor's Award Selection Committee, 2009

### **University Service**

Pilot Program for TCU Online, 2016

Search committee for new Learning Management System (LMS), 2014-2015

Faculty Senate, 2009-2012

Student Relations Committee, 2009-2012

### **Public Service**

Board of Trustees, Fort Worth Academy, 2014-2015

### **Membership in Professional Organizations**

North American Association for Environmental Education, 2014-2015

Textbook and Academic Authors, 2011-present

American Academy for the Advancement of Science, 2008-2014

### **Professional Honors and Awards**

Graduate Teaching Assistant of the Year, Biology Department, TCU, 2008

Outstanding Graduate Student of the Year, Biology Department, TCU, 2008  
1<sup>st</sup> place poster (Biology), Student Research Symposium, TCU, 2008  
Texas Christian University, Adkins Research Fellowship (\$3000), 2007

*Updated January 13, 2016*