

# VITA

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## EDUCATION

- Ph.D. Education – School Improvement  
Texas State University-San Marcos  
San Marcos, TX  
Dissertation: *Influence of Science and Technology Magnet Middle Schools on Students' Motivation and Achievement in Science*  
2011
- M.S. Environmental Science  
Oklahoma State University  
Stillwater, OK  
Thesis: *Trust and Policy-Making Legitimacy: Empirical Support for a Prescriptive Model*  
1999
- B.S. Sci. Ed. Science Education, Biology Emphasis  
Northeastern State University  
Tahlequah, OK  
1989
- A.S. Biology  
Connors State College  
Warner, OK  
1987

## PROFESSIONAL EXPERIENCE

|                       |  |
|-----------------------|--|
| 2013 – Present        | Director, Murray State University Center for Environmental Education   |
| 2012 – Present        | Assistant Professor of Education, College of Education, Murray State University, Murray, KY (tenure track)                       |
| 2006 – 2012           | Assessment Specialist III. Educational Testing Service, San Antonio, TX  |
| 2005 – 2012           | Adjunct Instructor of Geology and Education, Wayland Baptist University, San Antonio, TX   |
| 2004 – 2006           | Project Leader, Educational Testing Service, San Antonio, TX   |
| 2001 – 2004           | Assessment Specialist II. Educational Testing Service, San Antonio, TX   |
| 2000 – 2001           | Assessment Specialist II. Harcourt Educational Measurement, San Antonio, TX  |
| 1998 – 2000           | Applied Mathematics and Science Facilitator, Engineering Technologies Division, Oklahoma State University-Okmulgee, Okmulgee, OK |
| 1992 – 1998           | Science Teacher, Hilldale Middle School, Muskogee, OK  |
| 1997 – 1999           | Algebra Tutor, Eastern Workforce Development, Muskogee, OK   |
| 1996 (Summer)         | Instructor, Northeastern State University Hands-On Physics Academy, Tahlequah, OK  |
| 1991 – 1995 (Summers) | Upward Bound Math and Science Teacher, Connors State College, Warner, OK   |
| 1990 – 1992           | Science Teacher, Braggs High School, Braggs, OK  |
| 1990 (Spring)         | Science Teacher, Muskogee High School, Muskogee, OK  |

## **CONSULTING SERVICES**

|                |  |
|----------------|--|
| 2014 – Present | Expert Reviewer for Student Achievement Partners, Inc. - Science.                                  |
| 2013           | Expert Reviewer for the Kentucky Association for Academic Competition Governor’s Cup science exam. |
| 2012 – Present | Expert Reviewer for Educational Testing Service - Science.   |
| 2006           | Expert Reviewer for USAD Academic Decathlon Super Quiz - Earth Science.                            |

## **PROFESSIONAL LICENSURE AND CERTIFICATIONS**

State of Oklahoma Teaching Certificate

Anatomy/Physiology

Biology

Chemistry

Computer Applications

General Science

Middle School Science

Physical Science

Project Learning Tree certified facilitator

Project Underground certified facilitator

Project WILD certified facilitator

Project Flying Wild certified facilitator

Project WET certified facilitator

Leopold Education Project certified facilitator

National Project for Excellence in Environmental Education Guidelines certified national trainer

## **COURSES TAUGHT AT MURRAY STATE UNIVERSITY**

### **Undergraduate Courses**

|         |  |
|---------|--|
| ELE 383 | Evaluation and Measurement in Elementary Education |
| EDU 405 | Evaluation and Measurement in Education            |

### **Graduate Courses**

|         |   |
|---------|---|
| ELE 608 | Integrating Science Across the Curriculum                         |
| EDU 615 | Introduction to Environmental Education                           |
| EDU 639 | Research to Improve Student Learning                              |
| EDU 660 | Special Problems in Environmental Education                       |
| EDU 661 | Workshop in Environmental Education                               |
| EDU 662 | Workshop in Environmental Education                               |
| EDU 663 | Workshop in Environmental Education                               |
| EDU 664 | Techniques of Teaching Environmental Education                    |
| EDU 669 | Investigation and Evaluation of Issues in Environmental Education |

### **COURSES TAUGHT AT WAYLAND BAPTIST UNIVERSITY**

#### **Undergraduate Courses**

|           |                           |
|-----------|---------------------------|
| EASC 1401 | Earth Science I           |
| EASE 1402 | Earth Science II          |
| EASC 3179 | Environmental Geology Lab |
| EASC 3305 | Planetary Geology         |
| GEOL 3404 | Environmental Geology     |

### **THESIS COMMITTEE**

Hubbard-Sánchez, J. (2015). *Social construction and perceptions of climate change in Kentucky: What we believe, what we know*. (Unpublished master's thesis). Kentucky State University, Frankfort, KY.

### **PUBLICATIONS**

#### **Refereed Journals**

Waite, D., & Allen, D. (2003). Corruption and abuse of power in educational administration. *Urban Review*, 35(4), 281-296.

#### **Book Chapters**

Bentley, J., Fillion, S., Allen, D., Ross, J., & Gordon, S. (2005). Standards for instructional supervision: Questions and issues. In S. Gordon (Ed.), *Standards for Instructional Supervision: Focus on Professional Development*. Larchmont, NY: Eye on Education.

## Conference Proceedings

Allen, D. (2015). Project Learning Tree survey of use. 日本環境教育学会 第26回大会 (名古屋) (26th Annual conference of the Japanese Society of Environmental Education, Nagoya, Japan), 124.

Allen, D. E. (2013). The impact of previous assessments on adult learners. *CASAE/ACÉÉA Conference Proceedings, University of Victoria, British Columbia, 32*, 657-659. Retrieved from [http://www.casae-aceea.ca/sites/casae/files/2013\\_CASAE\\_Proceedings\\_0.pdf](http://www.casae-aceea.ca/sites/casae/files/2013_CASAE_Proceedings_0.pdf)

## PRESENTATIONS

### National and International Refereed Presentations

Allen, D. (October 2015). *Impact of a pre-service environmental education class*. Annual conference of the North American Association for Environmental Education, San Diego, California.

Hubbard-Sanchez, J., & Allen, D. (October 2015). *Climate change education in Kentucky: Assessing our knowledge and beliefs*. Annual conference of the North American Association for Environmental Education, San Diego, California.

Bennett, W., Wilson, T., Kerlin, S., Haight, A., Allen, D., & Santos, R. (October 2015). *NASA STEM fellows: Using the environment to enhance STEM instruction*. Annual conference of the North American Association for Environmental Education, San Diego, California.

Allen, D. (August 2015). *Project Learning Tree survey of use*. Annual conference of the Japanese Society of Environmental Education, Nagoya, Japan.

Allen, D. (October 2014). *Perceptions of environmental education from across a university campus*. Annual conference of the North American Association for Environmental Education. Ottawa, Ontario, Canada.

Allen, D. (June, 2013). *The impact of previous assessments on adult learners*. Annual conference of the Canadian Association for the Study of Adult Education. Victoria, British Columbia, Canada.

Allen, D., Price, L. & Reardon, R. (April, 2012). *Science magnet middle schools and their influence on student motivation and achievement in science*. Annual conference of the American Educational Research Association. Vancouver, British Columbia, Canada.

Allen, D. (April, 2005). *Parent perceptions of a magnet middle school program*. Annual conference of the American Educational Research Association, Montreal, Quebec, Canada.

Allen, D., Fillion, S., Butters, J. Gordon, S., & Bentley, J. (April, 2004). Symposium: *Considering national standards for instructional supervision: A review of the literature*. Annual conference of the American Educational Research Association, San Diego, CA.

Cox, B., & Allen, D. (July, 2003). *The keys to offender success once they leave prison: From the caretaker's point of view*. Annual meeting of the International Correctional Education Association Conference, Oklahoma City, OK.

Waite, D., & Allen D. (September, 2002). *Corruption, the antithesis of democracy in educational leadership*. Biennial meeting of the Commonwealth Conference on Educational Administration and Management, Umeå, Sweden.

Slater, C., Garcia, J., Boone, M., Allen, D., Bentley, J. Butters, J., Cox, B., Fillion, S., Higdon, K., & Malek, K. (April, 2002). *Using biography to understand educational leadership*. Annual meeting of the International Society for Educational Biography, San Antonio, TX.

Allen, D., & Elliott, J. (December, 1999). *What is so distinctive about distinctive manufacturing technology*. Annual convention of the Association for Career and Technical Education, Orlando, FL.

Focht, W., & Allen, D. (April, 1998). *Trust and political participation: Empirical support for a prescriptive model*. Annual meeting of the National Association of Environmental Professionals, San Diego, CA.

### **Regional Refereed Presentation**

Cox, B., & Allen, D. (July, 2002). *Negotiating the changes to the GED*. Annual meeting of the Corrections Education Association, Region V, Norman, OK.

### **State Refereed Presentations**

Allen, D., Davis, S., Redd, C., Stubblefield, D., & Bloodworth, H. (September, 2015). *Graduate student environmental education research*. Kentucky Association for Environmental Education 2015 Conference, Prestonsburg, KY.

Schmitz, E., & Allen, D. (September, 2015). *Nonformal environmental education programs: Guidelines for excellence*. Kentucky Association for Environmental Education 2015 Conference, Prestonsburg, KY.

Allen, D., Loganathan, B., & Mitchner, W. (September 2014). *Think global: Comparing environmental education in Japan and Kentucky*. Kentucky Association for Environmental Education 2014 Conference, Lexington, KY.

Allen, D. (November, 2013). *Issues in science assessment: Measuring what you intend to measure*. Kentucky Science Teachers Association 2013 Conference. Lexington, KY.

Allen, D. & Schmitz, E. (November, 2013). *Correlations between the Next Generation Science Standards and the North American Association for Environmental Education Guidelines for Excellence*. Kentucky Science Teachers Association 2013 Conference. Lexington, KY.

Allen, D. & Hoffman, A. (November, 2013). *Using the environment to facilitate learning*. Kentucky Science Teachers Association 2013 Conference. Lexington, KY.

Allen, D. & Hoffman, A. (November, 2013). *Environmental education for early childhood learners*. Kentucky Science Teachers Association 2013 Conference. Lexington, KY.

Allen, D. (February, 2013). *Find X. Here it is!* Kentucky Center for Mathematics 2013 conference. Lexington, KY.

Hodges, R., Slater, C., & Allen, D. (October, 2001). *Southwest Texas' master of arts program in developmental and adult education and new Ph.D. program in education*. College Academic Support Programs Conference, Houston, TX.

Allen, D. (November, 2000). *Science assessment: Writing valid test items*. Annual fall convention of the Oklahoma Science Teachers Association, Stillwater, OK.

### **Local Refereed Presentations**

Allen, D., Loganathan, B., & Mitchner, W. (November, 2014). *Environmentalism in Japan: Past, present, and future*. Murray State University International Education Week, Murray, KY.

### **National and International Invited Presentations**

Allen, D. (October, 2013). *Environmental education within Murray State University's College of Education*. Annual conference of the North American Association for Environmental Education. Baltimore, MD.

### **Regional Invited Presentations**

Allen, D. (May, 2005). *School improvement, even in prisons*. Annual teacher conference of the Geo Group, Inc., Central Region, Salado, TX.

### **State Invited Presentations**

Allen, D. (October, 2003). *Bureaucracy and corruption*. Panelist for the Special Session entitled "Taking Back Our Schools." Annual conference of the Texas Association for Supervision and Curriculum and Development, San Antonio, TX.

Allen, D. (October, 2002). *Test-taking strategies*. Annual meeting of the Southwest Texas Teachers' Conference, San Marcos, TX.

## **GRANTS**

### **Externally Funded**

- Kentucky Environmental Education Council PRIDE Grant. The Murray State University Center for Environmental Education was awarded a \$1085 grant to work with the Kentucky University Partnership for Environmental Education to identify the top five research priorities in environmental education. (2015).
- Kentucky Environmental Education Council PRIDE Grant. The Kentucky University Partnership for Environmental Education has awarded a \$122,500 grant to be divided among the seven partner schools. Serves as the co-investigator and re-authored the \$17,500 Murray State University component (2013).
- NASA Space Grant College and Fellowship Program. Increasing the Number of Qualified STEM Educators Through the Use of the Interdisciplinary STEM Theme of the Environment. Awarded summer 2013. Total grant of \$497,990 across seven Kentucky Institutions. Serve as the co-investigator for the \$40,000 Murray State University component.

### **Institutional**

- College of Education Faculty Incentive Grant. Awarded a \$4900 grant for Measurement and Evaluation of the Educational Impacts of Environmental Education in Japan (2014).
- International Initial Site Visit Grant. Awarded a \$4000 grant for International Environmental Education: Japan (2013).

## **CURRICULUM**

### **Murray State University**

Program Coordinator: Environmental Education Endorsement Graduate Program

Developer: EDU 667 – International Environmental Education (course title and objectives revised from an Austria focus to a global focus).

Lead Instructor: EDU 405 - Evaluation and Measurement in Education

Developer and Lead Instructor (2012 – 2014): ELE 383 - Evaluation and Measurement in Elementary Education

### **Oklahoma State University-Okmulgee**

Integrated mathematics and science into existing and developing engineering technologies curriculum



## **Hilldale Public Schools**

Developed curriculum for middle school Earth Science and Physical Science

## **PROFESSIONAL AFFILIATIONS**

### **Current**

American Educational Research Association

Division H – Research, Evaluation and Assessment in Schools

Special Interest Groups: Classroom Assessment  
Early Education and Child Development  
Environmental Education  
Large-Scale Assessment  
School Effectiveness and School Improvement  
Science Teaching and Learning

Association for Supervision and Curriculum Development

Kentucky Association for Environmental Education

Kentucky Association for Supervision and Curriculum Development

National Science Teachers Association

North American Association for Environmental Education

### **Recent**

American Educational Research Association Special Interest Groups:

Middle-Level Education Research

Motivation in Education

Test Validity Research and Evaluation

School Choice

American Association of Physics Teachers

Association for Career and Technical Education

Association for Middle Level Education (formerly National Middle School Association)

Canadian Association for the Study of Adult Education

Magnet Schools of America

Oklahoma Science Teachers Association

Oklahoma Vocational Association

Paleontological Association of South Texas

Society of Manufacturing Engineers, San Antonio 121

Society of Manufacturing Engineers, Tulsa 90 – Chair, Vice-Chair

## **SERVICE ACTIVITIES**

### **National and International Service**

- Serve on the development team for the NAAEE: Framing Water Issues So Citizens Can Make Choices public discourse module in collaboration with the Kettering Foundation (2015-2016)
- Serve on the International Service Team for the World Scout Jamboree, Kirara-hama, Yamaguchi, Japan (July-August, 2015).
- Serve on the Project Learning Tree Tri-State planning committee (2015)
- Proposal reviewer for AERA Division H, Section 3: Assessment in Schools (2014)
- Proposal reviewer for AERA Environmental Education Special Interest Group (2014)
- Proposal reviewer for NAAEE Research Symposium (2014)
- Proposal reviewer for NAAEE Annual Conference: Leadership and Professional Development strand (2014)
- Serve on the inaugural editorial board for the Journal of Research Initiatives, October 2012 to present.
- Session chair for Session 10.2 at the Annual conference of the Canadian Association for the Study of Adult Education. Victoria, British Columbia, Canada (2013).

### **State Service**

- Kentucky Environmental Education Council - served as a grant reviewer for schools developing environmental education programs through implementation of the Kentucky Environmental Literacy Plan (2015).
- Kentucky Association for Environmental Education board of directors (2013 – present)  
Long-Range Conference Planning Committee  
Conference Poster Session Planning Committee
- Kentucky Environmental Education Council – served on the committee to develop correlations between the Next Generation Science Standards and the North American Association for Environmental Education Guidelines for Excellence (2013)
- Kentucky Interagency Subcommittee on Environmental Education (2013 - present).
- Kentucky State Environmental Education Consortium (2013 – present)

## **Community Service**

- Serve as assistant scoutmaster for Troop 3, First Baptist Church, Murray, KY (2012 – present)
- Alzheimer's Association, San Antonio Chapter - fundraising (2008-2009)
- Make-a-Wish Foundation, Texas Gulf Coast & Louisiana chapter - fundraising (2007-2009)
- Habitat for Humanity of San Antonio - Labor (2008)
- Gatesville, TX Exchange Club - fundraising (2008)
- Multiple Sclerosis Society, Lone Star chapter- fundraising (2005-2007)

## **Murray State University Service**

- Serve on the Executive Director – Institute for International Studies position search committee (2014).
- Serve on the Faculty Study Abroad Ambassadors committee (Fall 2014 – Present).
- Serve on the advisory committee for the Sustainability Science Master of Science program. Fall 2013 – Present.
- Serve on the President’s Commission in Campus Sustainability. Fall 2013 – Present.
- Serve on the University Assessment Committee – Fall 2012 – Present.
- Service to Elizabeth College – Fall 2012 – present.
  - Great Beginnings Move-in Day – Fall 2013, Fall 2014.
  - Judged “Lizo Idol” competition– Fall 2012.
  - Supported off-campus charity fundraisers – Fall 2012.
  - Serve as faculty editor for Lizo publications – Fall 2012 – present.
  - Volunteer as science tutor – Fall 2012 – present.

## **College of Education and Human Services Service**

- Serve on the Collegiate Research Committee (Fall 2014 – Present).
- Serve on the Curriculum Materials Center Committee (Fall 2014 – Present).
- Serve on the College of Education Diversity Committee (Fall 2012 – Spring 2014).

- Serve on the Transitions Committee (Spring 2014 - Present).

### **Department of Early Childhood and Elementary Education Service**

- Serve on the department Scholarship Committee (2014).
- Serve on the department Professional Learning Community (2013 – present).
- Serve on the department leadership team (2013 – present).
- Serve on the Instructional Technology faculty position search committee (2013 – 2014).
- Serve as lead teacher for EDU 405 (2012 – present).
- Represented the department at the Majors Fair (Fall 2012).

### **Oklahoma State University-Okmulgee Service**

- Serve on Faculty-Staff Association Committee
- Serve as Chair of the OSU-Okmulgee Faculty Committee
- Serve on Human Resources Development Committee
- Serve on Navigation Committee
- Serve on Scholarship Committee
- Serve on Student Success Committee
- Serve on Technology Fee Committee

### **Department of Engineering Technology Service**

- Society of Manufacturing Engineers Student Chapter Faculty Advisor

### **Hilldale Middle School Service**

- Faculty sponsor for the science club
- Faculty sponsor Teens for Christ
- Faculty sponsor for the Freshman Class
- Faculty sponsor for the middle school Chess Club

- High-challenge tutor
- School activity bus driver

### **Braggs Public School Service**

- Faculty sponsor for the senior class
- Faculty sponsor for the junior class
- Faculty sponsor for the chess club

### **PROFESSIONAL DEVELOPMENT**

- KATE technology training (2014)
  - Google Suite of Products (Gmail, Hangouts, Calendar, Drive, Forms, Sheets)
  - iPad Apps for the Creative Classroom
- Project Learning Tree Facilitator Training (2014)
- Project Underground Facilitator Training (2014)
- Project WILD Facilitator Training (2014)
- Project Flying WILD Facilitator Training (2014)
- Project WET Facilitator Training (2014)
- Leopold Education Project Facilitator Training (2014)
- Collaborative Institutional Training Initiative (CITI) Social & Behavioral Research – Basic/Refresher Course (2014)
- Safe Zone Training (2014)
- Canvas Training II (2013)
- Canvas Training I (2013)
- Project Learning Tree Facilitator Training (2013)
- Project Underground Facilitator Training (2013)
- Environmental Education Guidelines in Kentucky facilitator training (2013)

- Grant Writing 101, West Kentucky Educational Cooperative (2012)
- Proposal development workshop, Murray State University (2012)
- Online Teaching: Education Without Walls training (2012)
- Blackboard training (2012)
- Tegrity training (2012)
- Digital Measures training (2012)
- Senate Bill 1 training (2012)
- New Faculty Orientation (2012)
- Academic Advisor Training (2012)
- Senate Bill 1 Technology Day (2012)

#### **HONORS, AWARDS, RECOGNITIONS**

- Braggs High School Teacher of the Year 1992
- Braggs High School Teacher of the Year 1991
- Muskogee Chamber of Commerce Contribution to Education Recognition (1991)
- Oklahoma House of Representatives Teacher Citation
- Legislature of the State of Oklahoma Teacher Citation
- Oklahoma School of Science and Mathematics Award of Excellence
- Teacher-Volunteer Citation
- Three Hilldale School Board Citations
- Numerous ETS Spot Awards for exceptional client and company service
- Eagle Scout

#### **RESEARCH INTERESTS**

Best practices in educational assessment

Domestic and international (Japan) environmental education