

# ANDREW B. WALLACE, Ph.D.

## PROFESSIONAL EXPERIENCE

**ANGELO STATE UNIVERSITY**, San Angelo, TX

**1989-Present**

**Professor of Physics** (2015-present)

**Professor and Dean of the Freshman College** (2012-2014)

**Professor and Head of Physics Department** (2004-2011)

**Associate Professor and Head of Physics Department** (1998-2004)

As Professor, I teach introductory and advanced physics and physical science courses, conduct undergraduate research, and serve the department, college, and university through committees.

As Dean, I managed 6 staff and 1 office coordinator to over 1400 freshman. Full responsibility for 1<sup>st</sup> to 2<sup>nd</sup> year retention, academic support services, budget, employee appraisals, freshman seminar, learning communities, and predeclared advising. As department head, I managed 9 professors and 1 staff to over 2000 students. Department head duties include scheduling, student advising, degree plans, budgets, mentoring, hiring, evaluations, and recruiting. Key accomplishments include:

- Chancellor's Council Distinguished Teaching Award
- President's Award Faculty Excellence in Teaching
- Rodgers Distinguished Administrator Award
- Air Force ROTC Distinguished Educator Award

## EDUCATION

Ph.D., Physics, University of North Texas, Denton, TX

Dissertation topic: Quantum wells with internal and external fields.

M.S., Physics, University of North Texas, Denton, TX

B.S., Electrical-Electronic Engineering, Texas Tech University, Lubbock, TX

Graduated *cum laude*

## MEMBERSHIPS

- American Association of Physics Teachers
- Science Teachers Association of Texas
- Sigma Pi Sigma
- Society of Physics Students

## RESEARCH EXPERIENCE

- Undergraduate Research 2015-2019: Microcontrollers with Jonathan Carter, Environmental Contaminants with Joe Tyler, Jeremiah Pray and William Graves, General Relativity with Shrikrishna Bhattarai and Johnathan Huffman, Lithium-ion Technology with Patrick Hennecke and Justin Gonzales, Solid State Electronics with Palmer Wilson, and Metal Coatings with Ethan Anderson.
- Radiation in the Air, Environmental Protection Agency, 2007-2011 and 2015-present
- Physics Teacher Quality, Teacher Quality Grant, Texas Higher Education Coordinating Board (2009-2012)
- Physics Teacher Quality, Teacher Quality Grant, Texas Higher Education Coordinating Board (2008)
- Physics and Principles of Technology, Teacher Quality Grant, UT Dana Center (2007)
- Security Audit, MyMail™ Technologies, Angelo State University. Advanced architecture and algorithms for MyMail™ Technologies secure-encrypted email solution for everyone. (2007)

## WORKSHOPS AND PRESENTATIONS

- “Teaching Non-majors”, Webcast, Faculty Learning Commons, San Angelo, October 2018.
- “Hands-on Electricity and Magnetism”, Conference for the Advancement of Science Teaching, Dallas, November 2011.
- “Hands-on Electricity and Magnetism”, Conference for the Advancement of Science Teaching, Houston, October 2010.
- “Hands-on Force and Motion”, Conference for the Advancement of Science Teaching, Galveston, November 2009.
- “Hands-on Electricity and Magnetism”, Conference for the Advancement of Science Teaching, Ft. Worth, November 2008.
- “Inquiry-based Physics for Pre-service Science Teachers”, Concho Valley Regional Technology Conference, San Angelo, November 2003.
- “Inquiry-based Physics for Pre-service Science Teachers”, National Meeting of the American Association of Physics Teachers, Madison, August 2003.
- “Inquiry-Based Physics”, National Meeting of the American Association of Physics Teachers, San Diego, January 2001.

## SERVICE

- Bachelor of General Studies Committee 2018-2019
- Carr Distinguished Scholarship Committee, 2016-2018
- Faculty Senate, 2016-2019
- Chair, Department of Engineering Peer Review Committee 2017-2018
- Building Emergency Response Team, 1998-2012 and 2015-present
- Tenure Select Committee, 2015-present
- College Tenure and Promotion Committee, 2016-2017
- Co-chair, Academic Course Guide Manual Committee, THECB, 2012-2015
- Academic Dean’s Council, 2012-2014
- Title V HSI Steering Committee, 2012-2014
- P-16+ Committee, 2012-2014
- SACS Compliance Library Committee Chair, 2011-2013
- Faculty Assessment Committee, 2011-2012
- Vice President, Texas Section of the American Association of Physics Teachers 2011-12
- University Budget Task Force 2011-2012
- SACS Compliance Certification Steering Committee, 2011-2013
- Acting Department Head, Computer Science, Fall 2010
- Executive Steering Group, Center for Security Studies
- Academic Master Plan Committee Chair, 2009
- Department of Physics Program Review, Metro State College Denver, 2009
- Building Manager and Emergency Coordinator NIMS/ICS, 2008-2012
- Texas College Readiness-CCRI, 2008-2010
- Texas College Readiness Standards-Science Committee, 2006-2008
- Student Government Association Sponsor, 2003-2009
- Spin-UP TYC Committee, Green River Community College 2003
- President, Region I Alpha Chi, 2000-2002
- Academic Master Plan, 1999-2000
- Student Services Committee, 1999-2001

## CREDENTIALS

References furnished upon request.