

# Jaime R. Taylor, Ph.D.

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## PROFESSIONAL PREPARATION

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**Ph.D.** in Engineering Science, 1995. GPA: 3.87/4.0  
University of Tennessee Space Institute, Tullahoma, TN

**M.S.** in Engineering Science, 1991. GPA: 3.94/4.0  
University of Tennessee Space Institute, Tullahoma, TN

**B.S.** in Physics and Mathematics; Minor: Chemistry 1990. GPA: 3.82/4.0  
Austin Peay State University, Clarksville, TN

**A.A.S.** in Industrial Engineering Technology, 1986. GPA: 3.84/4.0  
Nashville State Technical Institute, Nashville, TN

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## APPOINTMENTS

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**Presidential Fellow, 2017-2018**

Austin Peay State University, Clarksville, TN

(On one year sabbatical, will return to Dean's position in the Fall of 2018)

- Serving as APSU's First Presidential Fellow.
- Working directly with APSU's President on strategy and policy related to the State of Tennessee's formula funding model.
- Teaching introductory physics courses and the senior course for the Presidential Emerging Leaders Program.
- Wrapping up research work on optimization of the k-Factor Method (a method I developed in the late 90's).

**Dean, College of Science, Technology, Engineering, and Mathematics, 2015-2017**

Austin Peay State University, Clarksville, TN

- Worked with department chairs to add multiple new degree programs at both the undergraduate and graduate level including APSU's first engineering program, and bachelor and master degrees in cybersecurity.
- Nearly doubled the number of high achieving students (those with a 26 or higher on the ACT) entering the college from Fall 2012 to Fall of 2016.
- Helped the Center for Excellence in Field Biology as they worked to raise \$6 million to start the Southeastern Grasslands Initiative ([www.segrasslands.org](http://www.segrasslands.org)). \$2 Million in funding has been committed as of Fall 2017.

- More than doubled the number of graduates in four departments within college, and quadrupled number of graduates in two departments; increased number of computer science graduates from 17 in 2009-2010 to 88 graduates in 2016-17.
- Added a mechatronics program in engineering technology, a program crucial to the rapid growth in manufacturing in Middle Tennessee and Southern Kentucky. Obtained two grants (\$578,631 and \$60,000) for equipment and faculty training. More than doubled the number of incoming freshmen in engineering technology, increasing to over 100.
- Taught one senior level graduate preparation physics course and the senior course for the Presidential Emerging Leaders Program.

### **Interim Provost and Vice President for Academic Affairs, 2013-2015**

Austin Peay State University, Clarksville, TN

(Did not apply for Provost position.)

- APSU made the Honor Roll of the Chronicle of Higher Education's *Great Colleges to Work for* survey being recognized for *Confidence in Senior Leadership* and *Collaborative Governance* both years I served as Interim Provost. The overall university survey response rate increased from 41% to 57% during my second year as Interim Provost even though the university had just lost a very popular President and Provost. There were ten *Large Colleges* that made the Honor Roll in 2015 including Baylor, Duke, University of Southern California, University of Maryland and University of Michigan (<http://www.chronicle.com/interactives/greatcolleges15#id=hr>).
- APSU experienced a record 30.4% growth in its freshman class (1,458 in 2015 to 1,902 in 2016) after the first year of implementing the recruitment strategies put in place in the Spring of 2015.
- APSU had a successful Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) site visit in the Spring of 2014. This was primarily due to the Deans, Chairs, and members of Faculty Senate's willingness to work closely together to rapidly respond to weaknesses the SACSCOC Off-Site Reaffirmation Committee reported to APSU prior to their on-site visit.
- Developed and implemented strategies to make sure APSU remained the leader in the State of Tennessee's Outcomes Funding Formula. Two examples are the fully guaranteed community college graduate scholarship program ([www.apsu.edu/admissions/applicant/austinpeaypromise.php](http://www.apsu.edu/admissions/applicant/austinpeaypromise.php)) and the out-of-state scholarship program ([www.apsu.edu/admissions/out-of-state/out-state-admissions-scholarship-opportunities.php](http://www.apsu.edu/admissions/out-of-state/out-state-admissions-scholarship-opportunities.php)). Both scholarship programs were copied by other Tennessee universities.
- Met with Faculty Senate President every week and the Faculty Senate Executive Committee once every month to seek input on university initiatives.
- Taught the senior course for the Presidential Emerging Leaders Program.

### **Dean, College of Science and Mathematics, 2008-2013**

Austin Peay State University, Clarksville, TN

- Increased the number of students obtaining Bachelors in the College of Science and Mathematics (CoSM) by 104% (141 in 2009 to 288 in 2014), while the university as a whole increased by 29%, (964 in 2009 to 1244 in 2014). Note, Tennessee has a 100% outcomes based funding formula, APSU is funded on its number of graduates, not number of students.

- Grew the enrollment in the CoSM by over 30%, and the college produced its first four Barry Goldwater Scholars, two of whom were in the inaugural Governor’s School for Computational Physics class.
- Assisted the Department of Agriculture in raising \$1.2 million to fund an Animal Husbandry Laboratory.
- Steadily increased the number of grants awarded to the CoSM from 23 in 2010-11 to 45 in 2014-15. The most grants awarded to any other college during this period of time was 9, with the average number of grants per college per year (excluding the CoSM) being less than 3.
- Obtained THEC and TBR approval for a Chemical Engineering Technology (ChET) program, obtained \$6.4 million in special appropriations from the State of Tennessee for a ChET facility, \$2 million from Hemlock Semiconductor for laboratory equipment, and \$200,000 in federal funding for an instructor and industrial software. Achieved our goal of graduating over 90 ChET students in the first year’s graduating class.
- Taught one senior level graduate preparation physics course each year.

**Co-Director of the Governor’s School for Computational Physics, 2013-2017**

**Director of the Governor’s School for Computational Physics, 2008-2013**

Austin Peay State University, Clarksville, TN

- Worked with regional State Representatives to help APSU secure funding for its first Governor’s School.
- Team taught for five weeks each summer with the Chair of the Department of Physics.

**Chair, Department of Physics and Astronomy, 2000-2008**

Austin Peay State University, Clarksville, TN

- Increased the number of physics majors from 8 to over 50 in three years.
- Increased the number of physics graduates from one in 2000-2001 to fifteen in 2008-2009.
- Developed a culture where all physics majors participated in research, with nearly all being accepted to at least one REU program prior to graduation. (This culture still exists within the Department of Physics and Astronomy.)
- All twenty-five physics graduates from 2004-2008 pursued graduate studies.

**Professor of Physics, 2002-Present**

Austin Peay State University, Clarksville, TN

- Continued improvement of teaching methods and research efforts.
- Taught several specialized courses, such as Image Processing, to improve the physics graduates’ success rate in graduate school.
- Used clickers in conceptual physics class to improve “Peer Instruction” method.

**NASA Faculty Fellow, Summer 2001 and 2002**

NASA’s Marshall Space Flight Center, Huntsville, AL

- Applied a genetic algorithm code to solve Phase Retrieval problem.
- Developed a code to model the static and dynamic behavior of tensegrity structures.

**Research Sabbatical**, Spring 1999

U.S. Army Aviation and Missile Command Redstone Arsenal, Huntsville, AL

- Worked with the inventor of Pulsed Coupled Neural Networks (PCNN) on military and space based PCNN applications.
- Work completed during this semester resulted in five publications.

**Associate Professor of Physics**, 1999-2002

Austin Peay State University, Clarksville, TN

- Developed two new courses “Computational Method” and “Theoretical Methods”, and proposed a third course “Experimental Methods”. These three courses continue to be the core of the APSU physics program.
- Developed a 3+2 Dual Degree Program in physics and engineering with UTK.

**Assistant Professor of Physics**, 1996-1998

Austin Peay State University, Clarksville, TN

- Spearheaded the move to a new “applied” physics major with several options.

**NASA Faculty Fellow**, Summer 1996 and 1997

NASA’s Marshall Space Flight Center, Huntsville, AL

- Worked with NASA engineers in the design and development of the hardware to implement a “fast” sunspot tracking algorithm.
- Developed a “fast” algorithm for CCD based sunspot tracking.

**Instructor / Shop Technician**, 1995-1996

Austin Peay State University, Clarksville, TN

- Developed an analog electronics course.

**Quality Control**, 1986-1990

International Label Company, Clarksville, TN

- Reported to production manager on quality improvement projects.

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PUBLICATIONS

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\*J. Taylor and A. King, “Using Computational Methods to Reinvigorate an Undergraduate Physics Curriculum,” *CiSE* (special issue *Computation in Physics Courses*) **8**, 38-43, 2006.

\*J. Taylor, A. King, J. Steincamp, and J. Rakoczy, “Genetic Algorithm Phase Retrieval for the Systematic Image-Based Optical Alignment Test Bed,” *Publications of the Astronomical Society of the Pacific*, **118**:319-323, February 2006.

J. Taylor, “Phase Retrieval Using a Genetic Algorithm on the Systematic Image-Based Optical Alignment Test Bed,” *NASA/ASEE Summer Faculty Fellowship Program NASA/CR-2003-212397*, 2003.

J. Taylor, "Optimization of a Tensegrity Structure," *NASA/ASEE Summer Faculty Fellowship Program NASA/CR-2002-211840*, 2002.

J. Johnson, H. Caulfield, and J. Taylor, "Artificial Conscious Algorithm for an Autonomous System," *IEEE-INNS-ENNS International Joint Conference on Neural Networks, Neural Computing: New Challenges and Perspectives for the New Millennium*, July 24-27, 2000, Como Italy.

R. Robertson, B. McMahan and J. Taylor, "Development of an Integrated Physical Science Course," *NASA Opportunities for Visionary Academics: Creating Change in Higher Education*, pp. 157-160, January 11-14, 2000, Orlando FL.

\*J. Johnson and J. Taylor, "Image Factorization: A New Hierarchical Decomposition Technique," *Optical Engineering*, Vol 38, No. 9, pp. 1517-1523, September 1999.

J. Johnson, J. Taylor and M. Anderson, "Pulsed Coupled Neural Network Shadow Compensation," *Applications and Science of Computational Intelligence II*, Kevin L. Priddy, Paul E. Keller, David B. Fogel and James C. Bezdek, eds., Proc. SPIE. 3722, pp. 452-456, April 1999.

J. Taylor and J. Johnson, "K-Factor Shadow Removal," *Optical Pattern Recognition X*, David P. Casasent, Tien-Hsin Chao, eds., Proc SPIE. 3715, pp. 328-334, April 1999.

J. Johnson and J. Taylor, "K-Factor Image Factorization," *Optical Pattern Recognition X*, David P. Casasent, Tien-Hsin Chao, eds., Proc SPIE. 3715, pp. 166-174, April 1999.

\*J. Taylor, M. Anderson, and P. Bunton, "High Speed Tilt Mirror for Image Stabilization," *Journal of Applied Optics*, Vol. 38, No. 1, pp. 219-223, January 1999.

J. Taylor, "Development of a Sunspot Tracker," *NASA/ASEE Summer Faculty Fellowship Program NASA/CR-1998-208803*, 1998.

\*M. Chiemlowski and J. Taylor, "A Real-Time Sunspot Tracking Algorithm," *Publications of the Astronomical Society of the Pacific*, 109, pp. 837-842, July 1997.

\*J. Taylor, A. Carpenter, and P. Bunton, "Conservation of Energy with a Rubber Ramp," *Physics Teacher*, Vol. 34, No. 3, pp. 146-147, March 1997.

J. Taylor, "A Real-Time Position-Locating Algorithm for CCD-Based Sunspot Tracking," *NASA/ASEE Summer Faculty Fellowship Program NASA/CR-1997-205205*, 1997.

\*J. Taylor, R. Crawford, and D. Keefer, "Muzzle-Fed Railgun Experiments with 3-D Electromagnetic Simulations," *IEEE Transaction on Magnetism*, Vol. 31, No. 1, pp. 360-364, January 1995.

\*R. Crawford, J. Taylor and D. Keefer, "Solid Ring Armature Experiments in a Transaugmented Railgun," *IEEE Transaction on Magnetism*, Vol. 31, No. 1, pp. 138-147, January 1995.

\*D. Keefer, R. Crawford and J. Taylor, "Inductance Gradient Scaling Experiments in an Augmented Railgun," *IEEE Transaction on Magnetism*, Vol. 31, No. 1, pp. 326-331, January 1995.

D. Keefer, R. Crawford, J. Taylor, and D. Kondrashov, "Experimental and Theoretical Railgun Research at UTSL," *11th Electromagnetic Launch Association Meeting*, September 1993, Huntington, West Virginia.

D. Keefer, R. Crawford and J. Taylor, "Plasma Armature Studies in Augmented and Muzzle Fed Railguns," *Twenty-fourth AIAA Plasmadynamics and Lasers Conference*, July 6-9, 1993, Orlando, Florida.

J. Taylor and D. Keefer, "Calculations of the Electromagnetic Force in Railguns," *Ninth IEEE Pulsed Power Conference*, June 21-23, 1993, Albuquerque, New Mexico.

D. Keefer, R. Crawford and J. Taylor "Muzzle-Fed Railgun Experiments," *Ninth IEEE Pulsed Power Conference*, June 21-23, 1993, Albuquerque, New Mexico.

†D. Keefer, J. Taylor and R. Crawford, "The Electromagnetic Force in Railguns," *Fourth European Symposium on Electromagnetic Launch Technology*, May 2-6, 1993, Celle, Germany.

\*J. Taylor, R. Crawford and D. Keefer, "Experimental Comparison of Conventional and Trans-Augmented Railguns," *IEEE Transaction on Magnetics*, Vol. 29, No.1, pp. 496-498, January 1993.

\*Peer reviewed publications

†Selected as "Best Paper" at conference out of more than 100 papers presented by scientists from nine countries.

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## FUNDED PROPOSALS

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J. Taylor and J. Byrd, "Campbell Strong OEA Implementation Grant," 2018, *Sub-Award Total* \$578,631.

A. King and J. Taylor, "Tennessee Governor's School for Computational Physics,"  
2017 - *Award Total* \$111,309.  
2016 - *Award Total* \$129,206.

J. Taylor and J. Byrd, "Mechatronics-to-Jobs (M-2-J)," September 1, 2016 through June 30, 2018, *Sub-Award Total* \$60,000.

A. King and J. Taylor, "Tennessee Governor's School for Computational Physics,"  
2015 - *Award Total* \$129,206.  
2014 - *Award Total* \$129,319.

J. Taylor, K. Harris, J. Hatz, "Grit as a Non-Cognitive Predictor of Academic Success at APSU," TBR-Research Grant 2013. *Award Total* \$25,641.

A. King and J. Taylor, "Tennessee Governor's School for Computational Physics,"  
2013 - *Award Total* \$130,416.  
2012 - *Award Total* \$175,428.  
2011 - *Award Total* \$149,550.  
2010 - *Award Total* \$149,991.

A. King, K. Schultz, J. Oelgoetz, J. Smith and J. Taylor, "Undergraduate Research Projects in Physics and Astronomy," 2009. *Award Total* \$37,783.

A. King and J. Taylor, "Tennessee Governor's School for Computational Physics," 2009. *Award Total* \$149,766.

A. King, K. Schultz, and J. Taylor, "Undergraduate Research Projects in Physics and Astronomy," 2008. *Award Total* \$37,706.

J. Taylor and A. King, "Tennessee Governor's School for Computational Physics," 2008. *Award Total* \$148,853.

J. Taylor, and A. King, "Undergraduate Research in Physics and Astronomy: Identification of Variable Stars, Development of Optical Tweezers, and Searching for Asymmetric Stable Tensegrity Structures," 2007. *Award Total* \$36,020.

J. Taylor, L. Griffy, M. Jones, A. King, and K. Schultz, "STEM Scholarships in Mathematics and Physics at Austin Peay State University," 2007. *Award Total* \$582,740.

A. King and J. Taylor, "MRI: Acquisition of a Distributed Computing Cluster for Multidisciplinary Research, Research Training, and Education at Austin Peay State University," 2007. *Award Total* \$176,177.

J. Taylor and A. King, "Enhancing Tennessee Space Grant Ties with NASA Centers through Student Research," 2006. *Award Total* \$35,548.

J. Taylor and A. King, "Establishing and Enhancing Tennessee Space Grant Ties with NASA Centers: IMAGE Mission - Space Sciences MSFC, Tensegrity Structures - Astrionics MSFC, Autonomous Vehicles - Robotics GSFC," 2005. *Award Total* \$17,417.

J. Taylor and A. King, "Application of Genetic Algorithms to Scientific and Engineering Problems of Interest at NASA's Marshall Space Flight Center: Tomographic Algebraic Reconstruction using a Genetic Algorithm," 2005. *Award Total* \$17,275.

A. King and J. Taylor, "Tomographic Algebraic Reconstruction Applied to IMAGE EUV Data Performed using a Genetic Algorithm Technique on an AppleSeed Computer Cluster," 2004. *Award Total* \$21,346.

A. King and J. Taylor, "Application of Genetic Algorithms to Scientific and Engineering Problems of Interest at NASA's Marshall Space Flight Center," 2003. *Award Total* \$19,990.

J. Taylor, S. Buckner, and A. King, "Evolutionary Design and Construction of an N-Stage M-Bar Cylindrical Tensegrity Structure," Unsolicited NASA Proposal, 2002. *Award Total* \$23,920.

J. Taylor and A. King, "Genetic Optimization of the Frequency Response of a Cylindrical Tensegrity Structure," 2002. *Award Total* \$13,557.

J. Taylor and A. King, "Tomographic Algebraic Reconstruction Applied to IMAGE EUV Data," 2001. *Award Total* \$13,386.

J. Taylor, "Optimal Segmentation of Edge Enhanced Magnetosphere Images using Pulsed Coupled Neural Networks," Unsolicited NASA Proposal. 2000 *Award Total* \$8,096.

J. Taylor, "Image Inversion and Edge Detection Techniques Applied to Simultaneous Images of Component Regions of the Magnetosphere," Subcontract 14031-A4-S1. *Award Total* \$12,077.

J. Taylor, "Image Processing of Space Based Earth Imagery," Subcontract 14031-A2-S1. Feb. 1, 1999 through Jan. 31, 1999. *Award Total* \$10,080.

J. Taylor and P. Bunton, "Development of an Image Deflection System for MSFC's EXVM Polarimeter," Subcontracts 10765-S8 Nov. 1, 1996 through Jan. 31, 1997, Subcontract 14031-S1 Feb. 1, 1997 through Jan. 31, 1998. *Award Total* \$54,165.

J. Taylor, A. Carpenter, R. McMahan, D. Luck, and R. Robertson, "Development of an Integrated Physical Science Course," Project NOVA Implementation Planning Subcontract under Grant No. NAGW-4405, April 1997. *Award Total* \$47,392

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### SELECTED PRESENTATIONS

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‡A. King and J. Taylor, "Computational Methods at Austin Peay State University, Three Years Later," American Association of Physics Teachers Winter Meeting, Chicago, IL, February 2009.

‡J. Taylor and A. King, "Using Computational Methods to Reinvigorate an Undergraduate Physics Curriculum," American Association of Physics Teachers Conference, Syracuse, NY, July 22-26, 2006.

J. Taylor and S. Buckner, "Enhancing the Educational Quality and Retention of Physics Majors through the use of Learning Communities," TAAAPT Conference, March 31-April 1, 2006.

J. Taylor, "Revitalization of the APSU Physics Program," TAAAPT Conference, April 12-13, 2002.

J. Taylor and A. King, "Application of a Model-to-Image Impulse Matrix," Huntsville 2000 - A New View of Geospace, October 30 - November 3, 2000, Callaway Gardens, GA.

‡J. Taylor, "Constructing a Model-to-Image Transfer Matrix," IMAGE Team Meeting, August 3-4, 2000, Southwest Research Institute, San Antonio, TX.

‡J. Taylor and R. Robertson, "Implementation of a Physics and Chemistry Course for Preservice Teachers," Alabama Science Teachers Association, October 22-23, 1999.

‡J. Taylor and R. Robertson, "Implementation of a Physics and Chemistry Course for Preservice Teachers," NOVA Workshop, Western Kentucky University, May 19-21, 1999

‡J. Taylor and R. Robertson, "Innovative Strategies at Austin Peay State University: Introduction to Chemistry and Physics," National Science Teachers of America Regional Conference, November 19-20, 1998, Birmingham, AL.

J. Taylor and A. King, "Application of a Model-to-Image Impulse Matrix," Huntsville 2000 - A New View of Geospace, October 30 - November 3, 2000, Callaway Gardens, GA.

J. Taylor, "MatLab - Mathematical Visualization and Simulation Software," Tennessee Section of The American Association of Physics Teachers, April 8, 1999, Chattanooga, TN.

J. Taylor, "The k-Factor Method: A New Image Processing Tool," Tennessee Academy of Science's 109th meeting, November 19, 1999, Memphis, TN.



‡J. Taylor and R. Robertson, "Implementation of a Physics and Chemistry Course for Preservice Teachers," Alabama Science Teachers Association, October 22-23, 1999.

R. Robertson and J. Taylor, "Chemistry and Physics for Preservice Teachers with project NOVA," Southeast Regional Meeting of the American Chemical Society, October 17-20, 1999.

‡J. Taylor and R. Robertson, "Implementation of a Physics and Chemistry Course for Preservice Teachers," NOVA Workshop, Western Kentucky University, May 19-21, 1999

‡J. Taylor and R. Robertson, "Innovative Strategies at Austin Peay State University: Introduction to Chemistry and Physics," National Science Teachers of America Regional Conference, November 19-20, 1998, Birmingham, AL.

R. Robertson and J. Taylor, "Chemistry and Physics with Hands-On Inquiry Based Learning for Preservice Teachers," Tennessee Academy of Science's 108th meeting, November 20, 1998, Cookeville, TN.

R. Robertson and J. Taylor, "Introduction to Chemistry and Physics," Project NOVA Leadership Forum, November 8-10, 1998, The University of Maryland, MD.

R. Robertson, J. Taylor, C. Smith, and A. Edmondson, "Physical Science Activities from Project NOVA," Tennessee Science Teachers Association, October 29.

J. Taylor, "Physics and Chemistry with Hands-On Inquiry Based Learning for Preservice Teachers," American Association of Physics Teachers, August 3-8, 1998, Lincoln, Nebraska.

J. Taylor, "Image Stabilization: A Project Funded by the TN Space Grant Consortium," Tennessee Section of The American Association of Physics Teachers, April 4, 1998, Knoxville, TN.

R. Robertson, B. McMahan, A. Carpenter, D. Luck, and J. Taylor, "Introduction to Chemistry and Physics," Project NOVA Leadership Forum, November 3-4, 1997, Goddard Space Flight Center, MD.

J. Taylor, "Development of a Sunspot Tracker," Tennessee Academy of Science's 107th meeting, November 21, 1997, Tullahoma, TN.

J. Taylor, "A Real Time Position Locating Algorithm for CCD Based Sunspot Tracking," Tennessee Academy of Science's 106th meeting, November 22, 1996, Sewanee, TN.

J. Taylor, "Electronic Workbench - An Interactive Electronic Simulation Package," Tennessee Section of The American Association of Physics Teachers, April 12-13, 1996, Clarksville, TN.

‡Invited presentations.

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## SELECTED STUDENT PRESENTATIONS

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\*†P. Mallote and J. Taylor, "Aurora Borealis Image Segmentation Using Pulsed Coupled Neural Networks," Tennessee Section of The American Association of Physics Teachers, April 8, 1999, Chatanooga, TN.

\*\*J. Evans and J. Taylor, "Tired-light Redshifts of Extragalactic Objects," Tennessee Academy of Science's 109th meeting, November 19, 1999, Memphis, TN.

\*†P. Mallote and J. Taylor, "Aurora Borealis Image Segmentation Using Pulsed Coupled Neural Networks," Tennessee Academy of Science's 109th meeting, November 19, 1999, Memphis, TN.

\*\*Presidential Research Scholar, Best poster in Physics and Astronomy Division.

\*†Best poster in the Engineering and Engineering Technology Division of TAS, and second place in student division at TAAPT meeting

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## COMMITTEE ASSIGNMENTS and UNIVERSITY SERVICE at APSU

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Chaired Search Committee for Dean of College of Education - 2017.

Transition Taskforce (Oversee process of APSU's transition away from Tennessee Board of Regents to its own Governing Board) - 2016-2017.

Strategic Planning Committee (Oversee the development of APSU's 2015-2025 Strategic Plan) - 2015-2016.

Chaired Search Committee for Associate Vice President and Chief Information Officer - 2016.

Chaired Search Committee for Associate Vice President for Finance - 2015.

Chaired Naming Committee for the Maynard Mathematics and Computer Science Building - 2015.

Chaired Search Committee for Vice Provost and Associate Vice President for Academic Affairs - 2015.

University's Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) Liaison - 2014-2015.

Academic Council - 2011-Present.

Chaired Naming Committee for the Hemlock Semiconductor Building - 2011.

Chaired Search Committee for Associate Provost for Enrollment Management - 2011.

Patents and Copyrights Committee (Chaired Committee from 2004 to 2008) - 2000-2008.

Research Committee of the Graduate and Research Council - 2000-2008.

Faculty Professional Development Assignment Committee - 2000, 2003, 2004.

Presidential Research Scholars Review Committee - 1999-2008.  
Chaired Committee to Name Planetarium in Honor of Dr. Robert Sears Jr. - 1999.  
Visiting Speakers and Artists Committee - 1999-2004.  
Socrates' Award Selection Committee - 1999, 2001.  
Search Committee for Physics Department Chair - 1999.  
Faculty Senate Nominations and Elections Committee - 1999-2002.  
Faculty Senate - 1999-2002.  
Pre-engineering Advisor - 1999-2008.  
Library Liaison for Physics - 1999-2008.  
Physics Freshman Student Advisor - 1998-2008.  
Physics Transfer Student Advisor - 1998-2008.  
University Transfer Student Recruitment Committee - 1997-1999.  
University Technology Lab Subcommittee - 1997-2005.  
University Scholarships Committee - 1997.  
Multiethnic Hiring Committee - 1997.

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#### PROFESSIONAL MEMBERSHIP

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AAPT - American Association of Physics Teachers - 1982-1992, 1995-Present.  
AIAA - American Institute of Aeronautics and Astronautics - 1992-2000.  
TAS - Tennessee Academy of Science - Lifetime member.  
Tennessee Section of the American Association of Physics Teachers - 1995-2008.  
Phi Kappa Phi - Lifetime member.  
ΣΠΣ Physics Honor Society - Lifetime member.

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#### SELECTED AWARDS

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Honored as Austin Peay State University's "Outstanding Alumni" for 2014.  
Achievement Award presented by the APSU Foundation for efforts to "enhance the APSU Physics Program and the entire University" - 2008.  
Award for Innovative Excellence in Teaching, Learning and Technology - 2007.  
Socrates Award (Outstanding Teacher Award) - APSU - 1998.  
Selected by APSU students as Alumni member of Omicron Delta Kappa - 1998.  
"Best Paper" 4th European Symposium on Electromagnetic Launch Technology 1993.