

# David Bixler, Ph.D.

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## Education

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- Ph.D.** Rice University, Physics May 1999  
Thesis: "The Dynamics of Neutralization of Electron-Spin-Polarized  $^4\text{He}^+$  Ions at Surfaces."
- M.A.** Rice University, Physics May 1995  
Thesis: "Optical Manipulation of  $\text{He}(2^3\text{S})$  Atoms with a Diode Laser."
- B.S.** Tarleton State University, Physics and Mathematics May 1992

## Professional Experience

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- Department Chair, Physics and Geosciences March 2012 to Present  
Angelo State University
- Professor, Physics September 2011 to March 2012  
Angelo State University
- Associate Professor, Physics September 2004 to September 2011  
Angelo State University
- Assistant Professor, Physics September 1998 to September 2004  
Angelo State University
- Science Director, Physics September 2015 to Present  
Texas University Interscholastic League

## Grant History

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Equipment Transfer, PI	China Lake Naval Air Weapons Station	\$318,055	2021
Texas Teacher Quality Grant, Co-PI	"Physics Teacher Quality"	\$119,054	2015
Texas Teacher Quality Grant, Co-PI	"Physics Teacher Quality"	\$120,321	2014
Texas Teacher Quality Grant, Co-PI	"Physics Teacher Quality"	\$94,833	2011

Texas Teacher Quality Grant, Co-PI	"Physics Teacher Quality"	\$209,441	2009, 2010
ASU Faculty Development and Enrichment Grant, Co-PI	"Combined Lecture-Lab-Simulation Electronics Classroom"	\$10,000	2009
Office of Naval Research, Co-PI	"Heterofunctional Materials"	\$300,000	2009
Texas Teacher Quality Grant, Co-PI	"Physics and Technology"	\$86,604	2008
Texas Teacher Quality Grant, Co-PI	"Physics and Technology"	\$90,915	2007
ASU Technology Enhancement Grant, Co-PI	"Advancing Technology and Inquiry in Fundamentals of Physics I and II"	\$9985	2006
Bridging II TAKS Materials Grant, PI	"K-8 Properties of Matter" and "K-5 Light and Optics"	\$6000	2004
Texas Teacher Quality Grant, Co-PI	"IPC/TEKS: Learning Experiences with Meaningful Applications"	\$78,412	2004
ASU Faculty Development Grant, PI	"Standards-Based Alignment of the Advanced Physical Science Curriculum"	\$10,000	2004
ASU Technology Enhancement Grant, PI	"Online Testing in Astronomy I and II"	\$3800	2003
ASU Technology Enhancement Grant, PI	"Inquiry-Based Physics II"	\$7300	2002
National Science Foundation Major Research Instrumentation Grant, Co-PI	"Acquisition of Instrumentation to Establish an Optical and Electrical Materials Characterization Facility for Undergraduate Research"	\$112,000	2001
ASU Faculty Development Grant, PI	"Incorporation of Modern Educational Pedagogy into the Introductory Physical Science Laboratory"	\$10,000	2001
ASU Faculty Development Travel Grant, Co-PI	National Conference on Undergraduate Research	\$761	2001
Sigma Xi Grant in Aid of Research, Co-PI	"Frequency Stabilization of an Infrared Laser"	\$700	2001

Southwest Consortium for the Improvement of Mathematics and Science Teaching Materials Grant, PI	Access Center Materials	\$9582	2000-2004
Planned Learning and Infusion of Technology Throughout Teacher Education, Co-PI	"Incorporation of Instructional Technology into Advanced Physical Science"	\$4000	2000
ASU Technology Enhancement Grant, Co-PI	"Inquiry-Based Physics"	\$9000	2000
Sigma Xi Grant in Aid of Research, Co-PI	"Software for the Analysis of Electron Exchange Interactions"	\$175	2000
ASU Research Enhancement Grant, PI	"Absolute Cross Section Determination of Electron Capture by Proton Impact on Gases"	\$9000	1999

### **Student Research Activity**

Conner Dempsey	Solid State Physics and Optical Physics	2021-2022
Troy Long	Solid State Physics and Statistical Mechanics	2020-2021
Eric Jones	Quantum Physics	2020
Kevin Nash	Quantum Physics	2019
Michaela Brown	Astrophysics and Brown Dwarfs	2019
Charlie Brewer	Quantum Field Theory – Honors Thesis – Student Research Fellow	2018-2019
Steven Salas	Physics Education	2018
Michael Rooks and Charlie Brewer	Advanced Quantum Theory	2017-2018
Jose Duran and Michael Burt	Energy of Acoustics	2017
Eric Demo	Projectile Physics	2017
Skylar Wilt	Chaotic Systems	2016
Deyton Riddle	Conformal Coatings Engineering	2016
Josh Sefcik	Aerodynamics	2016

Walter Reed	Computational Physics	2015-2016
James Bufkin	Planetary Physics	2014
James Anderson, Clayton Binns, and Douglas To	Laser Systems	2014
John Blake	Environmental Engineering	2013-2014
Duncan Wallace	Microprocessor Design – Student Research Fellow	2013-2014
Michael Gue and Richard Moore	Environmental Radiation	2013-2014
James Bufkin	Relativity and Advanced Physics	2013-2014
Jonathan Norrell, Duncan Wallace, and James Bufkin	Microprocessor Design	2013
Michael Gue	Environmental Radiation	2012-2013
Armando Maldonado	Aerodynamics	2012
Ashley Wilson, James Anderson, Clayton Binns, and Douglas To	Radio Transmitters	2012
Roy Shafer	Renewable Energy	2012
David To	Optical Tweezers – Carr Research Scholar	2011-2012
Jeremy Brookshire	Microcontrollers	2011-2012
Armando Maldonado	Chaotic Systems – Student Research Fellow	2011-2012
Shivakumar Surendranath	Quantum Physics	2011
Justin Gonzalez	Superstring Theory	2011
Shivakumar Surendranath	Chaotic Systems	2011
Travis Barnett	X-Ray Fluorescence – Carr Research Scholar	2010-2011
Shivakumar Surendranath	General Relativity	2010
Armando Nava	Electronics	2010

Seth Fisher	Physics Education	2010
Nelson Simpson	Electromagnetic Propulsion	2010
Matt Dane	X-Ray Fluorescence	2010
Juan Olvera	X-Ray Fluorescence – Carr Research Scholar	2009-2010
Henry Schreiner	Advanced Quantum Physics	2009
Sterling Beeson	X-Ray Fluorescence	2009
Daniel Bullock and James Matthews	Particle Physics	2009
Karianne Thomas	Ultraviolet Photography – Carr Research Scholar	2008-2009
Denis Myasishchev	Chaotic Systems – Carr Research Scholar	2008-2009
James Matthews	Advanced Quantum Physics	2008
Daniel Bullock	Particle Physics	2008
John Pokorny	Wireless Signals	2008
Morgan Lynch	Quantum Field Theory – Carr Research Scholar	2007-2008
Jennifer Hendryx	X-Ray Fluorescence	2007-2008
Jeremy Swanson and Matt Naul	Robotics	2007
Margaret Hubbell	Molecular Modeling – Carr Research Scholar	2006-2007
Morgan Lynch	Advanced Quantum Physics	2006-2007
Munir Pirbhai	Ultraviolet Spectroscopy – Carr Research Scholar	2005-2006
Michael Hadley	Proton Collisions	2004
Gary Wells	Diesel Engine Conversion	2004
Kremena Gineva	Ultraviolet Spectroscopy – Carr Research Scholar	2003-2004

Emiliano Garcia	Proton Collisions – Carr Research Scholar	2003-2004
Alex Cornelius	Laser Systems	2003
Karen Robertson	Proton Collisions	2003
Aaron Hoelscher	Proton Collisions – Carr Research Scholar	2002-2003
Justin Block	Laser Systems – Carr Research Scholar	2002-2003
Paul Wilson	Laser Systems	2002
Brian McGonagill	Physics Education	2002
David Alvarado	Mathematical Physics	2002
Chris Tiftickjian	Molecular Modeling – Carr Research Scholar	2001-2002
Lucas Phinney	Proton Collisions	2001
Stephen Raif	Laser Systems – Carr Research Scholar	2000-2001
Oscar Sanchez	Nuclear Physics	2000
David Alvarado	Mathematical Physics	2000
Melissa Righetti	Physics Education	2000
Bart Carter	Electromagnetic Propulsion	2000
Stephen Hill	Laser Physics	2000
Sarah Swaim	Proton Collisions – Carr Research Scholar	1999-2000
Hardin Dunham	Proton Collisions	1999
Chris Tiftickjian	Proton Collisions	1999

### **Professional Affiliations**

American Association of Physics Teachers  
Texas Association of College Teachers  
Geological Society of America

## Professional and Community Service

Freshman College Retention Committee	2021-Present
Halliburton Grant Steering Committee	2019-Present
Roy Moon Lecture Committee	2014-Present
College Curriculum Committee	2002-2003, 2012-Present
College Leadership Committee	2012-Present
Department Honors Program Advisor	2009-Present
Faculty Advisor, Sigma Pi Sigma Physics Honor Society	2000-Present
Member of the Graduate Faculty	1999-Present
Science Fair Student Mentor	2019, 2021
Classroom Caps Committee	2019-2020
Faculty Sponsor, Mu Epsilon Kappa	2014-2020
Department Search Committees	1999 (2), 2000, 2001 (2), 2002 (2), 2003 (3), 2004 (2), 2005 (2), 2007, 2008 (3), 2009, 2010 (2), 2012, 2013, 2014 (2), 2015, 2016, 2017, 2018 (2), 2019 (4), 2020
Agriculture Chair Search Committee	2019
Physics Lab organizer for Wall High School	2012-2019
Library Director Search Committee	2018
Ballet San Angelo, Board of Directors	2013-2017
Library Committee	2002-2005, 2007-2010, 2014-2017
Advisor, Texas Alliance for Minorities in Engineering	2014-2016
Santa Rita Elementary Spelling Bee Word Caller	2012-2016
Elementary School Science Night Liaison	2008-2015
Peer Review Committee, Chemistry Department	2011-2014
College Tenure and Promotion Revision Committee	2010, 2012-2013
Department Peer Review Committee	1998-2012 (Chair 2010-2011)
Tenure and Promotion Committee, College of Arts and Sciences	2011-2012

Texas Section Physics Spring Meeting Planning Committee	2005-2006, 2011-2012
Angelo State University Laser Safety Officer	1998-2012
Department Program Prioritization Committee	2010-2011
Faculty Mentor to Dr. Tony Bartl, Political Science Department	2010-2011
Santa Rita Elementary School Site-Based Committee	2010-2011
Chemical Inventory Software Review Committee	2009-2011
Faculty Sponsor, Animayhem	2005-2006, 2010-2011
The E. James Holland Symposium on American Values Organizing Committee	1999-2011
Director, Eisenhower National Clearinghouse Regional Access Center	1999-2011
OP06-23 Hearing Pool	2010
Environmental Scanning Committee (Strategic Planning)	2009-2010
Research consultant for Dr. Mason, Physical Therapy Department	2005-2006, 2009-2010
Academic Excellence Committee	2000-2006, 2007-2010
Virtual Physics Lab Reviewer	2009
Chair, Physics Section, Texas Academy of Science	2001-2002, 2003-2009
Research Enhancement Committee	2000-2006, 2009
Faculty advisor for the Alpha Chi Honor Society	1999-2009
Science Contest Director for UIL Region I-AAAA	1998-2008
University Tenure and Promotion Committee	2005-2008
College of Sciences Mission Statement Committee	2006-2007
Elementary Education NCATE Committee	2006-2007
Travel Process Committee	2006-2007
Honors Program Council	2002-2006
Academic Master Plan "Goal One" Committee	2005
Physics Textbook Reviewer	2005
Faculty Senate, Physics Department Representative	2003-2005



Chair, Faculty Senate External Affairs Committee	2003-2005
Member, Southwest Consortium for Improvement of Math and Science Teaching	1999-2005
Physics consultant for Dr. Trey Smith, Mathematics Department	2005
Angelo State University Archery Instructor	2001, 2002, 2004
Honors Program Development Committee	2000-2002

## **Awards and Honors**

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Friend of 4-H Award, Tom Green County 4-H	2016
Promotion to Chair, Department of Physics and Geosciences	2012
Promotion to Professor	2011
Texas Tech Chancellor's Award for Excellence in Teaching	2010
ASU University Teaching Excellence Award	2010
ASU College of Sciences Teaching Excellence Award	2010
Promotion to Associate Professor	2004
Sigma Pi Sigma Physics Honor Society	1991
Alpha Chi Honor Society	1990

## **Publications**

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David Bixler and Christian Poppeliers, *Advanced Physical Science*, volume 2, Angelo State University, January 2008.

David Bixler, *Advanced Physical Science*, volume 1, Angelo State University, August 2004.

David Bixler, *Physics 1301/1302 Online Testing Software with Automatic Gradebook*, Angelo State University, June 2003.

David Bixler and Andrew Wallace, *Physics 2342 Online Homework Code*, Angelo State University, June 2002.

David Bixler and Toni Sauncy, *Introductory Physical Science Laboratory Experiences*, vol. 2, Angelo State University, 2002.

D. L. Bixler, *Electronic Instruments Laboratory Manual*, Campus Custom Publishing, 2001.

Toni Sauncy and David Bixler, *Introductory Physical Science Laboratory Experiences*, vol. 1, Angelo State University, 2001.

Andrew Wallace and David Bixler, *Physics 1331 Online Homework Code*, Angelo State University, June 2000.

D. L. Bixler, J. C. Lancaster, F. J. Kontour, P. Nordlander, F. B. Dunning and G. K. Walters, "Spin Dependent Studies of the Dynamics of He<sup>+</sup> Ion Neutralization at a Au(100) Surface," Phys. Rev. B 60, 12, 9082 (1999).

D. L. Bixler, J. C. Lancaster, F. J. Kontour, P. Nordlander, G. K. Walters, and F. B. Dunning, "Use of Spin-Labeling Techniques to Probe the Dynamics of He<sup>+</sup> Ion Neutralization at Clean Metal Surfaces," Nucl. Inst. Meth. B 157, 68 (1999).

D. L. Bixler, J. C. Lancaster, F. J. Kontour, F. B. Dunning and G. K. Walters, "An Improved Electron-Spin-Polarized 4He<sup>+</sup> Ion Source," Rev. Sci. Instrum. 70, 1, 240 (1999).

D. L. Bixler, J. C. Lancaster, R. A. Popple, F. B. Dunning and G. K. Walters, "Low-Energy, Electron-Spin-Polarized <sup>4</sup>He<sup>+</sup> Ion Source," Rev. Sci. Instrum., 69, 5, 2012 (1998).

## **Presentations**

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David Bixler, "Hands-on Physics Workshop," Three workshops presented at Educational Service Centers, Regions 14, 15, and 18. June 2021.

David Bixler, "Virtual Physics Workshop," Three workshops presented through Educational Service Centers, Regions 14, 15, and 18. June and July 2020.

David Bixler, "Physics and Forensics," Girl Scouts STEM Event, San Angelo, TX, February 2019

David Bixler, "Science," Educational Service Center Region 15 STEAM Expo, San Angelo, TX, June 2018

David Bixler, "Light and Color," Girl Scouts STEM Event, San Angelo, TX, March 2018

David Bixler, "Light and Color," Girl Scouts STEM Event, San Angelo, TX, March 2016

David Bixler and Scott Williams, "TSAAPT Presents: Hands-on Electromagnetism," Conference for the Advancement of Science Teaching, Dallas, TX, November 2014.

David Bixler, "The Physics of 'Pacific Rim'," Tom Green County Summer Series, San Angelo, TX, June 2014.

David Bixler, "Regional Collaborative Physics Workshop," Two workshops presented at Educational Service Center Regions 14, and 15. June 2013.

David Bixler and Andrew Wallace, "Light, Waves, and Lightwaves: Polarization and Diffraction," Texas Section Meeting of the American Association of Physics Teachers, San Angelo, TX, March 2012.

David Bixler and Andrew Wallace, "Hands on Electricity and Magnetism," Conference for the Advancement of Science Teaching, Dallas, TX, November 2011.

Andrew Wallace and David Bixler, "Hands on Electricity and Magnetism," Conference for the Advancement of Science Teaching, Houston, TX, November 2010.

D. Bixler and A. Wallace, "Hands on Force and Motion," Conference for the Advancement of Science Teaching, Galveston, TX, November 2009.

David Bixler and Andrew Wallace, "Hands on Electricity and Magnetism," Conference for the Advancement of Science Teaching, Ft. Worth, TX, November 2008.

David Bixler, *et al*, "Physics Education Round Table," American Physical Society Texas Section Meeting, Corpus Christi, TX, March 2008.

S. Abernathy, A. Wallace, and D. Bixler, "Building a Light Box," American Association of Physics Teachers Texas Section Meeting, San Angelo, Texas, March 2006.

A. Wallace and D. L. Bixler, "Inquiry-Based Physics for Preservice Science Teachers," American Association of Physics Teachers National Meeting, Madison, Wisconsin, August 2003.

David Bixler, "Sixteen IPC Equations from the TAKS," SCIMAST Workshop, San Angelo, Texas, July 2003.

David Bixler and Mark Sonntag, "Observational Astronomy," SCIMAST Workshop, San Angelo, Texas, June 2003.

D. Bixler, "Atomic Physics," Texas Pre-Freshman Engineering Program, San Angelo, Texas, June 2003.

D. Bixler and A. Wallace, "Inquiry-Based Introductory Physics at Angelo State University," American Association of Physics Teachers National Meeting, Austin, Texas, January 2003.

David Bixler and Mark Sonntag, "Observational Astronomy," SCIMAST Workshop, San Angelo, Texas, June 2002.

David Bixler, "Communications Technology," SCIMAST Workshop, San Angelo, Texas, June 2002.

D. Bixler, "Atomic Physics," Texas Pre-Freshman Engineering Program, San Angelo, Texas, June 2002.

David Bixler, "Computer Based Laboratories," Regional Collaborative Workshop, San Angelo, Texas, May 2002.

D. Bixler and C. Tiftickjian, "Computation of the Electronic Structure of Borane Reagents," Annual Meeting of the Texas Academy of Science, Laredo, Texas, February 2002.

D. Bixler and Joel Callaway, Children's Program: FOX Kid's Club "Science Week," January 2002.

D. Bixler, "An Introduction to the ENC Access Center at Angelo State University," TEES Math and Science Conference, San Angelo, TX October 2001.

David Bixler, "Coin Collecting," ASU Faculty Luncheon, San Angelo, TX, September 2001.

David Bixler, "Technology in the Classroom," SCIMAST Workshop, San Angelo, Texas, July 2001.

David Bixler, "Science Activities for Elementary and Middle Schools," Texas Rural Systemic Initiative Annual Meeting, San Angelo, TX, June 2001.

Jarvis Hampton and David Bixler, "Internet Resources for Teachers," Texas Rural Systemic Initiative Annual Meeting, San Angelo, TX, June 2001.

D. Bixler, "Atomic Physics," Texas Pre-Freshman Engineering Program, San Angelo, Texas, June 2001.

D. L. Bixler "Undergraduate Research with a Proton Accelerator," National Conference on Undergraduate Research, Lexington, KY, March 2001.

A. B. Wallace and D. L. Bixler, "Inquiry-Based Physics," American Association of Physics Teachers National Meeting, San Diego, CA, January 2001.

D. L. Bixler, "Studies of Charge Exchange Interactions in Proton Collisions with Gas Targets," an invited talk at the Conference on the Application of Accelerators in Research and Industry, Denton, TX, November 2000.

D. L. Bixler, "Inquiry-Based Physics," American Association of Physics Teachers Texas Section Meeting, Houston, TX, October 2000.

D. L. Bixler, "Studies of Charge Exchange Interactions between Protons and Gas Targets," Gaseous Electronics Conference, Houston, TX, October 2000.

D. Bixler, "An Introduction to the ENC Access Center at Angelo State University," TEES Math and Science Conference, San Angelo, TX October 2000.

David Bixler, "Instructional Technology," SCIMAST Workshop, San Angelo, Texas, July 2000.

D. Bixler, "Atomic Physics," Texas Pre-Freshman Engineering Program, San Angelo, Texas, June 2000.

D. Bixler, "Interactions of keV Protons with Gas Targets," DAMOP Annual Meeting, Storrs, CT, June 2000.

J. C. Lancaster, F. J. Kontour, D. L. Bixler, R. A. Popple, P. Nordlander, F. B. Dunning, and G. K. Walters, "Spin-Dependent Studies of the Dynamics of He<sup>+</sup> Ion Neutralization at Surfaces," American Physical Society Centennial Meeting, Atlanta, GA, March 1999.

### **Supervised Student Presentations**

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CJ Brewer, "Quantum Field Theory," ASU Research Showcase, San Angelo, Texas, April 2019.

C.J. Brewer, "Quantum Field Theory," Honors Program Senior Thesis Defense, San Angelo, TX, April 2019.

James Bufkin, "Mathematical Modeling of Protoplanet Accretion," Mathematical Association of America Meeting, San Antonio, TX, April 2015.

D. Wallace, "A Microprocessor from Discrete Components," ASU Undergraduate Research Symposium, San Angelo, Texas, April 2014.

A. Maldonado, and D. Bixler, "Explorations in Chaos Physics" ASU Undergraduate Research Symposium, San Angelo, Texas, April 2012.

D. To, T. Sauncy, and D. Bixler, "Construction of a Single Beam Optical Trap with a Modified Design for Undergraduate Labs" ASU Undergraduate Research Symposium, San Angelo, Texas, April 2012.

T. Barnett, J. Satterfield, and D. Bixler, "Chert Archaeometry Using X-Ray Fluorescence" ASU Student Research Symposium, San Angelo, Texas, April 2011.

T. Barnett, J. Satterfield, and D. Bixler, "Archaeometry Using X-Ray Fluorescence" ASU Research Showcase, San Angelo, Texas, November 2010.

J. Olvera and D. Bixler, "Archaeometry Using X-Ray Fluorescence," ASU Carr Research Symposium, San Angelo, Texas, April 2010.

J. Olvera and D. Bixler, "Archaeometry Using X-Ray Fluorescence," American Physical Society Texas Section Meeting, Austin, TX, March 2010.

J. Olvera and D. Bixler, "Archaeometry," ASU Research Showcase, San Angelo, Texas, November 2009.

S. Beeson, D. Bixler and C. Allen, "X-ray Fluorescence," ASU Heterofunctional Materials Symposium, San Angelo, TX, August 2009.

Karianne Thomas and David Bixler, "Ultraviolet Photography with a Digital Camera," ASU Carr Research Symposium, San Angelo, Texas, April 2009.

Denis Myasishchev and David Bixler, "Chaotic Electronic and Mechanical Systems," ASU Carr Research Symposium, San Angelo, Texas, April 2009.

Denis Myasishchev and David Bixler, "Chaotic Electronic Systems," American Physical Society Texas Section Meeting, Stephenville, TX, March 2009.

Denis Myasishchev and David Bixler, "Chaotic Electronics," ASU Research Showcase, San Angelo, Texas, November 2008.

Karianne Thomas and David Bixler, "Ultraviolet Photography," ASU Research Showcase, San Angelo, Texas, November 2008.

Daniel Bullock and David Bixler, "A Classical Model for Virtual Particle Exchange," 2008 Sigma Pi Sigma Congress, Chicago, IL, November 2008.

Daniel Bullock and David Bixler, "A Classical Model for Virtual Particle Exchange," American Physical Society Texas Section Meeting, El Paso, TX, October 2008.

Morgan Lynch and David Bixler, "Deriving the Inverse-Square Law from Quantum Field Theory," Carr Research Symposium, San Angelo, Texas, April 2008.

Morgan Lynch and David Bixler, "Deriving the Inverse-Square Law from Quantum Field Theory," American Physical Society Texas Section Meeting, Corpus Christi, TX, March 2008.

Jennifer Hendryx, "Effectiveness of Sunscreen at Blocking Ultraviolet Light," American Physical Society Texas Section Meeting, Corpus Christi, TX, March 2008.

Morgan Lynch and David Bixler, "Rayleigh-Ritz Approximation of the Ground State Energy for a Particle in a Semicircular Well," ASU Research Showcase, San Angelo, Texas, November 2007.

Margaret Hubbell, "Manipulating the Conformations of Crambin and other Viscotoxins using GROMACS," Carr Research Symposium, San Angelo, Texas, April 2007.

Morgan Lynch and David Bixler, "Rayleigh-Ritz Approximation of the Ground State Energy for a Particle in a Semicircular Well," American Physical Society Texas Section Meeting, Abilene, TX, March 2007.

Munir Pirbhai, "Spectral Patterns of Ultraviolet Reflection from Flowers," Carr Research Symposium, San Angelo, Texas, April 2006.

Munir Pirbhai and David Bixler, "Ultraviolet Reflectance Spectra of Texas Flora," American Physical Society Texas Section Meeting, San Angelo, TX, March 2006.

Munir Pirbhai and David Bixler, "Ultraviolet Reflection Spectra of Texas Flora," ASU Research Showcase, San Angelo, Texas, November 2005.

Kremena Gineva, Bonnie Amos and David Bixler, "Floral Spectral Analysis of Four Big Bend National Park Cacti," Beta Beta Beta Spring Meeting, Boulder, Colorado, May 2004.

Kremena Gineva, "Spectral Patterns of UV Reflection in Different Plant Species of the Concho Valley flora," Beta Beta Beta Spring Meeting, Boulder, Colorado, May 2004.

Kremena Gineva, Bonnie Amos, and David Bixler, "Spectral Patterns of UV Reflection in Different Species of Flowers," Carr Research Symposium, San Angelo, Texas, April 2004.

Emiliano Garcia, "Studies of Proton Collisions with Gas Targets," Carr Research Symposium, San Angelo, Texas, April 2004.

Emiliano Garcia and David Bixler, "Studies of Proton Collisions with Gas Targets," Texas Academy of Science Annual Meeting, Kerrville, Texas, March 2004.

Kremena Gineva, Bonnie Amos, and David Bixler, "Spectral Patterns of UV Reflection in Different Species of Plants of the Concho Valley," Texas Academy of Science Annual Meeting, Kerrville, Texas, March 2004.

Kremena Gineva, Bonnie Amos, and David Bixler, "Spectral Patterns of UV Reflection in Different Species of Flowers," ASU Research Showcase, San Angelo, Texas, November 2003.

Emiliano Garcia and David Bixler, "Studies of Light Emission in Proton Collisions with Gas Targets," ASU Research Showcase, San Angelo, Texas, November 2003.

Aaron Hoelscher, "Proton Interactions with Gas Targets," Carr Research Symposium, San Angelo, Texas, April 2003.

Justin Block, "Frequency Stabilization of a Semiconductor Laser," Carr Research Symposium, San Angelo, Texas, April 2003.

Aaron Hoelscher and David Bixler, "Proton Interactions with Gas Targets," American Physical Society National Meeting, Austin, Texas, March 2003.

Justin Block and David Bixler, "Frequency Stabilization of a Semiconductor Laser," American Physical Society National Meeting, Austin, Texas, March 2003.

Aaron Hoelscher and David Bixler, "Proton Interactions with Gas Targets," ASU Research Showcase, San Angelo, Texas, November 2002.

Justin Block and David Bixler, "Frequency Stabilization of a Semiconductor Laser," ASU Research Showcase, San Angelo, Texas, November 2002.

Chris Tiftickjian, "Computation of the Electronic Structure of Borane Reagents," Carr Research Symposium, San Angelo, Texas, April 2002.

L. Phinney and D. L. Bixler, "Studies of Charge Exchange Interactions in Proton Collisions with Gas Targets" American Physical Society Texas Section Meeting, Fort Worth, TX, October 2001.

Stephen Raif, "Semiconductor Laser Frequency Stabilization Using an Atomic Transition of Rubidium," Carr Research Symposium, San Angelo, Texas, April 2001.

S. Raif and D. L. Bixler "Semiconductor Laser Frequency Stabilization Using an Atomic Transition of Rubidium," National Conference on Undergraduate Research, Lexington, KY, March 2001.

Sarah Swaim, "Studies of Electron Transfer Processes in Gas-Phase Collisions," Carr Research Symposium, San Angelo, Texas, April 2000.

B. Carter, and D. Bixler, "Construction of a Gaussgun," Meeting of the Texas Section of the Society of Physics Students, College Station, TX, March 2000.

S. Swaim, and D. Bixler, "Studies of Electron Transfer Processes in Gas-Phase Collisions," Meeting of the Texas Section of the Society of Physics Students, College Station, TX, March 2000.

A. Tijerina, D. Bixler, and A. Wallace, "Wavelet Analysis in an Optical Computer, " Centennial Meeting of the American Physical Society, Atlanta, GA, March 1999.