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Support Physics:
https://giving.bloomu.edu/physics
Department Update

Over the past year, the students and faculty in The Department of Physics & Engineering at Bloomsburg University have undertaken or continued research projects ranging from exploring potential methods for discovering moons around exoplanets to studying the acoustics of the croaking of Fowler’s toads. We designed hybrid energy storage systems and explored micro-hydroelectric power. Through our laboratory courses, co-ops, internships, and independent research projects, we pride ourselves on providing students with hands-on, real world experiences as we offer undergraduate students comprehensive education in physics, health physics, and electronics engineering technology.

Enrollment

As of fall, 2017, 84 students majored in disciplines within the department, with Electronics Engineering Technology comprising the largest group.

Graduating Seniors

The department graduated 28 seniors during 2017 including (up from 22 the previous year):

- 12 in Physics*
- 11 in Electronics Engineering Technology
- 5 in Health Physics*

* Includes one student double majoring in Physics and Health Physics
Naz Afarin Fallahian  
Associate Professor  
Faculty Member

Scholarly Interests  
Study of the effects of low-dose ionizing radiation on biological samples and human health, radiation dosimetry, radon monitoring, and subjects related to Medical Health Physics.

Education  
Idaho State University, Pocatello, Idaho, Ph.D. Applied Physics with emphasis on Health Physics (2005-2008)  
Alzahra University, Tehran, Iran, M.S. Physics (1995-1997)  
University of Tehran, Tehran, Iran, B.S. Applied Physics (1988-1992)

Publications  
* BU student

2017 Professional Activities  
• Became a Board-Certified Health Physicist after successfully completing Parts I and II of the American Board of Health Physics exam.  
• Mentored Joshua Dendler, a Dr. Kozloff scholarship awardee, who is pursuing his B.S. degree in Health Physics. Using funds made available by Dr. Kozloff, Joshua participated at the national meeting of the Health Physics Society in 2017.  
• Worked on a research project during my Summer 2017 sabbatical leave. Joshua Dendler was involved in this project as well.  
• Co-advised two undergraduate students from the Health Physics program, Harrison Ludewig and Derek Stahl, who performed a research study in collaboration with the Health Physics Department at Geisinger Medical Center in Danville, PA.  
• As a participant in the Student Success Collaborative (SSC) Pilot Program, advised about 40 undeclared students each semester and closely monitored their academic performances.

2017 Awards/Funding  
• Dr. Kozloff Fellowship Award to enhance faculty professional development, $2,500.  
• COST Professional Experience Grant (PEG) to supervise an undergraduate student research project.

2017 Teaching  
Spring 2017:  
  General Physics 1 - lecture (Physics 211-01)  
  General Physics 1- lab (Physics 211-01A)  
  Nuclear Radiations 2 (Physics 420)  
  HP Research - Physics 482 -01  
Fall 2017:  
  Radiation Physics (Physics 330-01)  
  General Physics 1- lecture (Physics 211-01)  
  General Physics 1 – lab (Physics 211-01A)  
  General Physics 1 – lab (Physics 211-01B)  
  HP Research - Physics 482 -01

2017 Service Activities
Scholarly Interests
General physics and physics education
Alternative energy

Education
Boston University, Ph.D. in Physics, 1997
Boston University, M.A. in Physics, 1992
Antioch College, Yellow Spring, Ohio, B.S. in Physics, 1986

Recent Publications


2017 Teaching and Sabbatical
Spring: Mechanics: Dynamics (PHYSICS 302)
        CAD Engineering Graphics (ENGTECH 180)
        Electrical Machines and Power Systems (ENGTECH 231)

Fall: Visiting Researcher (micro hydroelectric systems)
      Department of Renewable Energy Technology
      Morrisville State College, Morrisville, NY

2017 Service Activities
- Ongoing service of BU-designed dual-fuel heating system at Bloomsburg Recycling Center
- Chair, Department Evaluation Committee
- Chair, Department Search & Screen Committee
John H. Huckans. Ph.D.
Associate Professor, Department of Physics and Engineering, Bloomsburg University
Ultra-cold Atomic Physics Laboratory, Bloomsburg University
Invited Research Professor, Laboratoire de Physique des Lasers, Paris 13, Sorbonne

Research Interests
Laser cooling and trapping of neutral atoms (rubidium, chromium, strontium), ultra-cold atoms in optical lattices, quantum degeneracy in reduced dimensions, condensed matter analogs, biological acoustics.

Research Groups
Bloomsburg: Ju Xin; Undergraduate Researchers: Caleb Frantz, Brett Logan
Paris: M. Robert-de-Saint-Vincent, B. Laburthe-Tolra, E. Maréchal, P. Pedri, L. Vernac, O. Gorceix

2015-2017 Publications


2017 Teaching
Spring 2017: Science of Sound lecture (PHYS 206), Introductory Physics 2 lecture (PHYS 202), General Physics 2 lecture (PHYS 212).

Fall 2017: Science of Sound lecture (PHYS 206), General Physics 2 lecture (PHYS 212), Introductory Physics 1 lab (PHYS 201).

2017 Activities
- Performed research as invited professor at Paris 13 of the Sorbonne in Paris, France from June-July, 2017. Assisted in the design and construction of an apparatus to cool strontium to quantum degenerate temperatures. Mentored two student interns (French and American).
- Chaired Departmental committees including Awards, Faculty Evaluation.
- Served on Departmental committees including Search and Screen.
- Served on College of Science and Technology Undergraduate Research Day committee.
- Served on Bloomsburg University URSCA committee.
- Performed research for BU’s Research and Scholarship Grant award “Creation of one-dimensional matter-wave solitons.” (awarded May 2017).
- Submitted $312,000 NSF proposal “RUI: Stabilization of three-dimensional matter-wave solitons.”
- Serve on BU’s Protestant Campus Ministries
Ghassan Ibrahim, PhD
Professor, Physics and Engineering technology

Scholarly Interests
Internet of Things (IoT)/linking the physical and virtual world using RFID
RF Systems with emphasis on RFID systems and their applications
Digital signal processing and their applications

Education
North Carolina State University at Raleigh, PhD Engineering, 1981

2017 Teaching
Spring:  Communication Systems (ENGTECH.441)
          Manufacturing Processes (ENGTECH.321)
Fall:  RF Effects & Measurements (ENGTECH.461)
       Circuit Analysis (ENGTECH.141)
       Senior Design Project (ENGTECH.491). Three projects were implemented in the Fall semester of 2017:
       •  String-less Bass Guitar
       •  Quadcopter
       •  Automated Bartender Machine

2017 Service Activities
  Department of Physics & EE promotion committee
  Department of Physics & EE tenure committee
  Department of Physics & EE search and Screen Committee
  Department of Physics & EE open house Oct 2017
  Department of Physics & EE Faculty Evaluation Committee
  Advisor of IEEE student organization
  Reviewer for IEEE Transactions on Antenna and Propagation
Nada Jevtić, Ph. D.
Assistant Professor
Physics and Engineering Department

Scholarly Interests
Astrophysics of variable stars, analysis of variable-star light curves, nonlinear time series analysis

Member: Kepler Space Telescope Asteroseismic Science Consortium (KASC),
Transiting Exoplanet Survey Satellite Asteroseismic Science Consortium Data analysis workgroup (TASC)

Education
University of Connecticut, Storrs, CT, Physics, 2003
Yale University, New Haven, CT, Engineering and Applied Science, 1982

2015-2017 Presentations
Kepler Space Telescope Data – A Vehicle for Nonlinear Time Series Analysis Development

BKV: Towards a Bloomsburg University K2 Pipeline – Colin Shoop (student poster)
N. Jevtic, P. Stine 8th Kepler Asteroseismic Science Consortium Workshop/1st TESS Asteroseismic Science Consortium Workshop – Space Asteroseisomology: The Next Generation, June 2015, Aarhus, Denmark

Nonlinear time series analysis and Kepler Space Telescope Asterosiesmic Data: A Timely and Mutually Productive Merger, Particles: Astrophysics, and Nuclear Physics Seminar, Physics Department, University of Connecticut, Feb 2016 (invited presentation)

Asteroseismology of red giants from KEPLER data – T. Keiper, M. Yurkovich, S. Kopinetz, R. Vincent, N. Jevtic, P. Stine COST Research and Scholarship Day, April 29, 2016 (poster)


Combining Nonlinear Noise Reduction with in-Painting in the Analysis of Variable Star Light Curves N. Jevtić et al. 10th Chaotic Modeling and Simulation Conference, CHAOS2017, June, 2017, Barcelona, Spain (oral)

2017 Teaching
Spring: Principles of Physical Science 1 (PHYS-103-06)
   Introduction to Astronomy (PHYS-110-02)
   Electricity and Magnetism (PHYS-314-01)
Summer: Introduction to Astronomy (on-line) PHYS-3-110-99
Fall: Principles of Physical Science 1 (PHYS-103-01 and - 03) (two sections)
   Astrophysics: Stars (PHYS-340-01)
   Honors Independent Study (PHYS-494-01)

2017 Service Activities
Chaotic Modeling and Simulation (CMSIM) International on-line Journal of Nonlinear Science, Associate Editor
10th Chaotic Modeling and Simulation International Conference, CHAOS2017, June 2017, Barcelona, Spain (co-chair) “Optical Systems”

COST Curriculum Committee, University-wide Grievance Committee

Departmental committees: Evaluation, Search and Screen (head), Curriculum (head), open-house hosting
Fan Jiang, Ph.D.
Assistant Professor, Department of Physics and Engineering Technology

Education
- **Doctor of Philosophy** in Electrical Engineering (2006)
  University of Nebraska-Lincoln, Lincoln, Nebraska, USA
- **Master of Science** in Electrical Engineering (2001)
  University of Nebraska-Lincoln, Lincoln, Nebraska, USA
- **Bachelor of Science** in Electrical Engineering (1989)
  Central-South University of Technology, Changsha, China

Research Interests
Software defined radio, wireless communications and networking, ad-hoc wireless network, error-control coding,

Publications & Presentations


2017 Teaching
SP17: Electronics (54-315)
  Electronics Laboratory (54-315-01A)
  Computer Electronics (54-317)
FA17: Introductory Physics I (54-201-01, 54-201-02)
  Introductory Physics I Laboratory (54-201-01B, 54-201-02A)

2017 Activities
- TPC member, 2018 IEEE International Conference on Cloudification of the Internet of Things (CIoT’18), Paris, France, July 2-4, 2018.
- Department Representative to the forum
- Served in the sabbatical committee
- Served in the curriculum committee
- Served in the search & screen committee
Francis Kisner  
Adjunct Professor, Department of Physics and Engineering

**Scholarly Interests**  
General physics and physics education  
Mathematics and mathematics education

**Education**  
Mansfield University, M.S. in Secondary Mathematics Education, 2011  
Drexel University, B.S. in Mathematics, 1973

**2017 Teaching**  
Fall: General Physics I (PHYSICS 201)
• The Department of Physics and Engineering liaison for the COST career day event.
• Served as a chapter advisor of the Sigma pi Sigma Physics Honor Society.
• Main contact for the US EPA Radiation Monitoring System, located on the roof of Andruss Library.
• Participated in the Husky decision day on April 8, 2017 to introduce the COST programs to undeclared students.
• Member of the Department committees: Curriculum, Faculty Evaluation, Search and Screen, Promotion, Tenure.
• Member of the University Wide Committee: International Faculty Association—chair of the scholarship committee.
Biswa Ray, Ph.D.
Professor
Coordinator, Electronics Engineering Technology
Department of Physics and Engineering

Scholarly Interests
Energy harvesting technologies
High reliability power electronics for commercial and military avionics
Modeling and simulation of hybrid energy-storage systems
Application of wide-bandgap power semiconductor devices

Education
University of Toledo, Ohio, Ph.D., Electrical Engineering, 1987
University of Calcutta, India, B.E., Electrical Engineering, 1981

Recent Publications (2016-2017)

2017 Teaching
Spring: Linear Signals and Systems (ENGTECH-331)
Engineering Applications in Industry I (ENGTECH-381)
Industrial Process Control (ENGTECH-431)

Fall: Introduction to Engineering and Technology (ENGTECH-101)
Electronic Instrumentation and Data-Acquisition (ENGTECH-241)

Received TALE Outstanding Teaching Award, May 2017

2017 Professional Activities
• “Development of an indoor photovoltaic energy harvesting power module,” B.U. Research and Scholarship Mini-Grant ($3,965)
• Recruited three new members for the Electronics Engineering Technology program’s Industrial Advisory Board from ISS Solutions, Girton Manufacturing, and Thermal Product Solutions
• Helped place seven Electronics Engineering Technology students in five Pennsylvania companies for the required six-month industry co-op experience, and monitored employer feedback on student performance during the co-op period

2017 Service Activities
Department Committees: Tenure, Promotion, Faculty Evaluation, and Curriculum
College of Science and Technology Committees: Faculty Recognition, Curriculum
University Committee: TALE Teaching Award
Technical Program Reviewer: American Society for Engineering Education Annual Conference
Technical Reviewer: IEEE Transactions on Circuits and Systems
Reviewer: DOE-SBIR and NASA-CAN grant proposals
David R. Simpson  
Associate Professor and Coordinator of the BU Health Physics Program  
Certified by the American Board of Health Physics

Scholarly Interests
Medical Health Physics, Radiation Safety, Response to Radiation Accidents, Criticality Safety

Education
University of Illinois, Urbana Il., PhD, Nuclear Engineering 1981
University of Illinois, Urbana Il., MS, Nuclear Engineering 1975
Northwestern University, Evanston Il., BS Science Engineering, 1973

2015-2017 Publications


2017 Presentations

D. Simpson, *Criticality and Nuclear Radiation*, lecture and associated lab given as part of courses for professional Health Physicists sponsored by the DOE Radiation Emergency Assistance Center/Training Site in Oak Ridge, TN, June 20, 2017.

On August 21 and 22, 2017, D. Simpson presented four lectures for twenty-two professional health physicists in a course conducted by the Oak Ridge Associated Universities entitled *Radiation Safety Officer Training* in Oak Ridge TN.

**2017 Teaching**

Spring:  *Applied Physics for Health Sciences* (lecture and 2 associated labs) (Phys107)

  - *Energy: Sources and Environmental Effects* (Phys105)

Summer:  *Principles of Physical Science* (Phys103)

  - Lab section of Introductory Physics (Phys111)

Fall:  *Energy: Sources and Environmental Effects* (2 sections) (Phys105)

  - *Contemporary Physics* (Phys123)

  - *Health Physics* (Phys360)

**2017 Service Activities**

Continued to serve as a volunteer for the radiological emergency response team (PaRAP) for the State of Pennsylvania

Extramural Faculty and Consultant for the Radiation Emergency Assistance Center/Training Site (REAC/TS), Oak Ridge, TN
Scholarly Interests
Astrophysics, Kepler Space Telescope data analysis, red giant stars, planetary nebulae, time series analysis

Education
Penn State University, University Park, PA
PhD, Astronomy, 1990

Wesleyan University, Middletown, CT
BA, Astronomy, 1984

Presentations


2017 Teaching
Spring: Introduction to Astronomy (PHYSICS 110)
   Electronics and Instrumentation for Audiologists (AUDSLP 606)
   Physics Research 1 (PHYSICS 492)
Summer: Introduction to Astronomy (PHYSICS 110)
Fall:   Introduction to Astronomy (PHYSICS 103)
   Digital Electronics (PHYSICS 316)
   Physics Research 1 (PHYSICS 492)
Winter: Introduction to Astronomy (PHYSICS 110)

2017 Service Activities
Pennsylvania State System of Higher Education Committee on Collaborative Programs
Member, Engineering Committee
Host, Departmental Session for Husky Decision Days
Member, Faculty Professional Development Travel Committee
Department of Physics & Engineering Technology Curriculum Committee
Scholarly Interests
Molecular Physics, Laser Spectroscopy, and Optics.

Education
Marquette University—Milwaukee, WI, USA, MS in Computer Science, 2001.
Shanxi University - Taiyuan, Shanxi, China, BS of Physics, 1982.

2017 Teaching
Spring: Principles of Physical Science (PHYS.103, 2 sections)
  General Physics II Lab (PHYS.212L)
  Modern & Atomic Physics (PHYS.310)
Fall: Principles of Physical Science (PHYS.103, 1 sections)
  Introductory Physics I Lab (PHYS.201L, 2 sections)
  Physics research 2 (PHYS.493)

2017 Activities
Research Activities: Collaborating with John Huckans in ultra-cold atoms project, mentored and mentoring more than dozen students.


Service activities: University-wide Promotion Committee; Department Search & Screen Committee, Faculty Evaluation Committee, Curriculum Committee, Sabbatical and Tenure Committee.
Sabbaticals

Ned Greene was awarded a sabbatical for the 2017/2018 academic year for developing and advancing micro-hydroelectric projects in Pennsylvania. He is a visiting researcher at the Department of Renewable Energy Technology at Morrisville State College.

Naz Fallahian was awarded a sabbatical for summers 2017 and 2018 to gather and organize the RadNet data collection to examine variations in radiation levels in Bloomsburg, Pittsburgh, and Philadelphia.

Senior Design Projects
Electronics Engineering Technology seniors presented senior design projects in December 2017. They included:

- An automated Drink Dispensary (Ian Lamey, Matthew Mantz, and Grant Morrow).
- A Quadcopter (Paul Karcher, Nate Henry, Nenyi Micah, and Steven Thompson).
- A Stringless Bass Guitar (Michael Unitis, Michael Dreyer, and Robert Chambers).
Research Presentations
Students presented results of research from independent study projects at The College of Science & Technology Research day on April 7, 2017.


Electronics Engineering Technology co-ops
As part of the Electronics engineering Technology program, students gain practical experiences by working in a six month co-operative program with industry. In 2017, students were placed in co-ops with the following:

- TAIT towers, Lititz
- East Penn Manufacturing, Lyon Station
- GES Automation Technology, Harrisburg
- Structural Integrity Associates, State College
- L3 Communications, Williamsport
- Amphenol FCI, Etters

Career Day
On October 6, 2017, the Department participated in a Physics & Engineering panel at the College of Science & Technology Career Day. We welcomed the following alumni:

- Tom Malkemes a physics teacher at Mahoney Area High School
- Daniel Snyder, a radiation safety officer, laser safety officer and senior health physicist at Geisinger Medical Center
- Jonathan Wolfe, a field supervisor for PPL.
2017 Meeting participation by students

Students attended the following professional meetings:

- Annual meeting of the Health Physics Society; Raleigh, North Carolina. July 2017 (Joshua Dendler)
- Penn State Radiation Roundtable, State College PA (Chris Sanchez)
- Women in Nuclear Power Conference, State College PA (Anna Guernsey, Candace Kraut)


Guest Speakers & topics

The following speakers presented to the Department of Physics and Engineering during 2017:

- Pat Yorks (medical imaging)
- Eric Aelquist, President Health Physic Society (Status of Health Physics, Career Outlook)
Laboratories

The Department of Physics & Engineering has nine laboratories dedicated to teaching.

- Physical Science laboratory
- Two laboratories for General Physics
- Industrial Technology Laboratory
- Electronics Laboratory
- Radio Communications Laboratory
- Advance Physics Laboratory
- Nuclear Physics Laboratory
- Health Physics Laboratory

In 2017, we upgraded the function generators and vector network analyzer for engineering technology labs and replaced the projectile launchers for the general physics labs. The nuclear physics laboratory received new amplifier/pulsers and power supplies.

Research labs include:

- The Astrophysics Laboratory, in which ongoing investigations focused on analyzing delta Scuti and gamma Doradus variable stars as observed by the Kepler Space Telescope. In another project, we are seeking out new methods for discovering moons around exoplanets. The laboratory is currently gearing up for the launch of the Transiting Exoplanet Survey Satellite (TESS).

- Ultracold Bloom is designed to produce temperatures close to absolute zero to produce Bose Einstein condensates. The laboratory is adding a Fabry-Perot interferometer and acousto-optical modulators.

- The Power Electronics Laboratory, where activities include modeling and simulation of hybrid energy-storage systems consisting of aircraft generators, ultracapacitors, Li-Ion batteries, and flywheel subsystems and PSpice simulation of 3 GHz RF power limiters, including SiC PIN diodes.

Graduating Seniors

Spring 2017

Mike Algeo (Health Physics)
Lauren Kerstetter (Physics)
Racquel Kreisher (Physics)
Luke Long (Physics)
Harrison Ludwig (Physics, Health Physics)
Patrick Matera (Health Physics)
Zachary Romano (Health Physics)
Daniel Sampson (Physics)
Bryan Semon (Physics)
Hannah Shriver (Physics)
Derek Stahl (Health Physics)
Stephan Vajdic (Physics)
Lucas Whitten (Physics, Electronics Engineering Technology)
Mark Yurkovich (Physics)
Fall 2017
Darnell Baldwin (Physics)
Robert Chambers (Electronics Engineering Technology)
Michael Dreyer (Electronics Engineering Technology)
Nathan Henry (Electronics Engineering Technology)
Paul Karcher (Electronics Engineering Technology)
Ian Lamey (Electronics Engineering Technology)
Matthew Mantz (Electronics Engineering Technology)
Micah Nenyi (Electronics Engineering Technology)
Grant Murrow (Electronics Engineering Technology)
Steven Thompson (Electronics Engineering Technology)
Michael Unitis (Electronics Engineering Technology)
Rachel Yenney (Physics)

Publications by faculty and students (2015 to 2017)


Dubil, C., Stacy, S., Dendler, J., Simpson, D., Fallahian, N., Bloomsburg University; Investigation of Indoor Radon Levels in Bloomsburg University Campus Building; Health Physics, July 2016 Vol. 111, No. 1 page S98; (abstract)


Presentations by faculty and students (2015 to 2017)


D. Simpson, “Criticality and Nuclear Radiation,” lecture and associated lab given as part of courses for professional Health Physicists sponsored by the DOE Radiation Emergency Assistance Center/Training Site in Oak Ridge, TN, June 20, 2017.

D. Simpson, four lectures in a course conducted by the Oak Ridge Associated Universities entitled Radiation Safety Officer Training in Oak Ridge TN. On August 21 and 22, 2017


D. Simpson, Criticality and Nuclear Radiation, lecture and associated lab given as part of courses for professional Health Physicists sponsored by the DOE Radiation Emergency Assistance Center/Training Site in Oak Ridge, TN, March 15 and June 21, 2016.

D. Simpson, series of lectures for the course, Radiation Safety Officer, 2016 Oak Ridge Associated Universities; Oak Ridge TN. August 22-26, 2016

• Inventory Control and Records for HP programs
• Security of Radioactive Materials
• Radiation Sources and Equipment
• Organizational Structure of HP Programs

Courses offered

Spring 2017

ENGTECH 180 Computer Aided Design
ENGTECH 231 Electrical Machines and Power Systems
ENGTECH 241 Electrical Instrumentation and Data Acquisition
ENGTECH 331 Linear Systems & Signals
ENGTECH 381 Engineering Applications in Industry
ENGTECH 431 Industrial Process Control
ENGTECH 441 Communications Systems
PHYSICS 103 Principles of Physical Science
PHYSICS 105 Energy: Sources & Environmental Effects
PHYSICS 110 Introduction to Astronomy
PHYSICS 202 Introduction to Physics 2
PHYSICS 206 Science of Sound
PHYSICS 211 General Physics I
PHYSICS 212 General Physics 2
PHYSICS 310 Modern Atomic Physics
PHYSICS 315 Electronics
PHYSICS 317 Digital Electronics
PHYSICS 420 Nuclear Radiations II
PHYSICS 492 Physics Research 1
PHYSICS 493 Physics research 2

Summer 2017

PHYSICS 103 Principles of Physical Science
PHYSICS 110 Introduction to Astronomy
PHYSICS 201 Introduction to Physics 1
PHYSICS 202 Introduction to Physics 2

Fall 2017

ENGTECH 101 Introduction to Engineering Technology
ENGTECH 141 Circuit Analysis
ENGTECH 380 Coop in Industry
ENGTECH 461 RF Effects & Measurements
ENGTECH 491 Senior Design Project
PHYSICS 103 Principles of Physical Science
PHYSICS 105 Energy: Sources & Environmental Effects
PHYSICS 110 Introduction to Astronomy
PHYSICS 123 Contemporary Physics
PHYSICS 201 Introduction to Physics I
PHYSICS 206 Science of Sound
PHYSICS 211 General Physics I
PHYSICS 212 General Physics 2
PHYSICS 316 Digital Electronics
PHYSICS 340 Astrophysics: Stars
PHYSICS 360 Health Physics
PHYSICS 422 Thermodynamics
PHYSICS 450 Introduction to Quantum Mechanics
PHYSICS 492 Physics Research 1
PHYSICS 493 Physics research 2
Faculty awards
Nathaniel Greene won the Distinguished Teaching Award in the College of Science & Technology; presented Feb 3, 2017.

Student awards
On Spring, 2017, the college of Science and Technology held its annual honors banquet. The following students from the Department of Physics & Engineering received awards:

- P. James Moser Scholarship: Robert Sherman and Charles Brochyus
- Outstanding Student of Physics: Derek Stahl and Stephan Vajdic
- Levi Gray Scholarship: Mitchell Kile
- Outstanding Achievement in Electronics Engineering Technology: Robert Chambers and Nathan Henry
- Summa cum laude graduate: Derek Stahl
- Cum laude graduates: Lauren Kerstetter, Harrison Ludewig, Stephan Vajdic

Sigma Pi Sigma inductees
The following students were inducted into the physics honor society, Sigma Pi Sigma on March 31, 2017:

- Mike Algeo
- Adam Beck
- Richard Gusick
- Ian Lamey
- Harrison Ludewig
- Timothy Mackiw
- Robert Sherman
- Hannah Shriver
- Anastasia Timofeeva
**Student organizations**

There are two independent student organizations with interests closely related to the Department: The Society of Physics Students and the student chapter of the IEEE.

**Society of Physics Students**

The Bloomsburg University chapter of the Society of Physics Students (SPS) serves to increase camaraderie among physics students. Weekly meetings provide a forum for upperclassmen to share their physics insights and enthusiasm with newer students. Meeting topics include physics content, career planning, and current events within STEM fields. SPS members also volunteer as tutors for introductory-level physics courses.

**IEEE, student chapter, Bloomsburg University**

IEEE is a professional organization for the advancement of technology.

**Officers:**

President: Roberto Reyes  
Vice President: Jimmy Cotorroja