

AWARDS FOR PHYSICS UNDERGRADUATES

(~1994 – May 31, 2017)

The Donald E. Schuele Award for an outstanding junior majoring in Engineering Physics. (*This award was created in spring 2016.*)

Past Winners:

- 2017 Samuel Merriman
 - 2016 Qiaoyi (Joey) Liu, Caroline Novak, Aaron Peterson-Greenberg .
Nicholas Ramey, Steven Tokar & Adele Zawada
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The Albert A. Michelson Prize awarded upon completion of the junior year to a physics major who has demonstrated superior performance. (*This award was created in spring 2015.*)

Past Winners:

- 2017 Raymond Adkins, Joshua Chiel, Axel Gross, Gwendolyn Hildebrandt,
Benjamin Kuznets-Speck, Tianyue Liu, Tyler McMaken, &
Nathaniel Starkman
 - 2016 David Cyncynates, David Hathcock & Shichen Wang
 - 2015 Quang Nguyen, Grace Olivier, Emily Shelton, Alexander Strang,
Joseph Szabo & Jiawei Wu
-

The B. S. Chandrasekhar Prize awarded upon completion of the junior year to a physics major who has demonstrated superior performance. (*This award ended in spring 2014. It was replaced by the similar Albert A. Michelson Prize.*)

Past Winners:

- 2014 Zaarah Mohamed
- 2013 Michael Anderson, Edwin Bernardoni, Matthew Krupcale, Thomas Norton,
Andrew O'Desky, Daniel Pfeffer, Slavko Rebec, Michael Sammon &
Evan Telford
- 2012 Jason Tabachnik
- 2011 Bryan Weinstein & William Flaherty
- 2010 Stephen Fleming
- 2009 Gareth Kafka & Kevin Vick
- 2008 Amit Misra & Zachary Tobin
- 2007 Jeremy Mock & Karen Vaughn
- 2006 Michael Davidson, Kevin Engel & Alexander Grutter
- 2005 James Garrison, Jonathan Glicoes and Edward Hawkins
- 2004 Christian Perez, Brandon Bachler & Adam Light

- 2003 Michael Minar, Nathan Kundtz & Stephanie Bush
2002 Joshua Boehm
2001 Michael Salem & Chad Davis
2000 David Hanneke
1999 David Olson & Robert Kraig
1998 Daniel B. Aubertine
1997 Neil Rubin
1996 Travis Brooks
1995 John Chiaverini
1994 William Dimmock, Russell Fuerst, Eric Kangas and Matthew Lewis
-

The Leslie L. Foldy Award to the outstanding senior in physics

Past Winners

- 2017 Elena Polivka & Shichen Wang
2016 Andrew Blasius, Grace Olivier, Emily Shelton, Jeffrey Subbarao,
& Joseph Szabo
2015 Jonathan Harper & Zaarah Mohamed
2014 Michael Anderson, Thomas Norton & Evan Telford
2013 Jason Tabachnik
2012 William Flaherty & Jacob Wagner & Rebecca Gilson
2011 Stephen Fleming
2010 Gareth Kafka & Katherine Hagen
2009 Amit Misra
2008 Karen Vaughn & Michael Davidson
2007 Benjamin Shank
2006 Christian Perez
2005 Adam Light, Brandon Bachler and Rachel Benish
2004 Stephanie Bush, Matt Finnerty and Michael Rousos
2003 Steven Stroiney, Joshua Boehm & Thomas Bing
2002 Chad Davis & Michael Salem
2001 Megan Smith & Nick Wagner & David Hanneke
2000 David Olson and Eric Linton
1999 Dan Aubertine
1998 Neil Rubin
1997 Travis C. Brooks and Sean P. McGinnis
1996 John Chiaverini
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The Donald A. Glaser Award to an outstanding mathematics and physics student. (*This award was created in 2017.*)

Past Winners

- 2017 David Cyncynates and David Hathcock

The Elmer C. Stewart Memorial Award to the outstanding senior in Engineering Physics. (*Before 2008, this award was for “an outstanding senior in physics who has demonstrated achievement in the applications of physics”.*)

Past Winners:

2017 Nicholas Ramey & Steven Tokar
2016 Yangdong Li & Quang Nguyen
2015 *not given*
2014 Matthew Krupcale & Slavko Rebec
2013 Jonathan Frey
2012 Bryan Weinstein
2011 Kevin Vick & Michael MacDonald
2010 Cody Allen
2009 Zachary Tobin
2008 Daniel Riley
2007 Thomas Boatwright & Kristin Poinar
2006 Edward Hawkins
2005 Justin Thrall
2004 Mark Winkler
2003 Justin Kenny
2002 Jacob Yoder
2001 Oleg Kogan
2000 Robert Kraig
1999 *not given*
1998 Andrew M. Schober
1997 John W. Graff
1996 Radha Venkhat
1995 Russell Fuerst

For the Outstanding Senior in Engineering Physics.

Past Winners (*award started in 2004, replaced by the Elmer C. Stewart Award in 2008*)

2007 Alexander Grutter & Amy Orsborn
2006 Christian Perez
2005 Paul Bach
2004 Mark Winkler, David Nielson & Nathan Kundtz

The Polykarp Kusch Prize to an outstanding senior in physics for the best thesis. (*This award was, before 2017, known as The Dayton C. Miller Prize.*)

Past Winners:

2017 Ryan Chaban, *Fast Ion Losses and Edge Localized Modes in Tokamaks*

Elisha Haber, *Bistable Motion of Ferromagnetic Vortices*
Mark Hagemann, *Aspects of Interactions between Localized d and f Electrons*
Nathan Kodama, *Multiscale Neuronal Dynamics*

The Dayton C. Miller Prize to an outstanding senior in physics for the best thesis.

Past Winners:

- 2016 Quang Nguyen, *Battling Optical Losses in Plasmonic Metamaterials*
Emily Shelton, *Rayleigh-Taylor Instability in a Three-Layer Fluid System*
Jeffrey Subbarao, *Computational Modeling of Cell Blebbing*
- 2015 Stephanie Hougen, *Modeling Magnetic Resonance Fingerprinting Signals in the Presence of Exchange*
- 2014 Oliver Ernst, *Sequential Estimation of Discretization Errors in Inverse Problems*
Shay Mathews, *Photovoltaic Degradation Analysis and Simulated Models*
Gregory Stephen, *Rapid Malaria Detection using the Magneto-Optical Properties of the Malaria Pigment*
- 2013 Emily Griffin, *Aluminum Zinc Oxide Transparent Conductors for Optical Cavity Enhanced Polymer Photovoltaics*
Jacob Marx, *The Epitaxial Growth of Topological Insulator Thin Films Using Chemical Vapor Deposition*
Maxwell Service, *Asteroseismology using Kepler*
- 2012 Peter Lee, *Genetic Factors of Alcoholic Steatohepatitis*
Jacob Wagner, *Simulation of Droplet Breakup by Dissipative Particle Dynamics (DPD)*
- 2011 Stephen Fleming, *Oxide Semiconductor Nanowire Biosensors*
David Dashevsky, *Optogenetic Muscle Fiber Recruitment*
- 2010 Gareth Kafka, *Imaging by Magnetic Particles with a Nonlinear Field Response*
- 2009 Dustin Fisher, *Phantom Interference Effects in Quantum Tunneling*
- 2008 Michael Davidson, *Auger Processes in Semiconductor Quantum Dots*
Daniel Riley, *Cryogenic Stepped Rotation and Characterization of the SPIDER Half Wave Plate*
- 2007 Alexander J. Grutter, *VLS Growth of Zinc Silicon Nitride Crystals*
Thomas E. Sanders, *Design of a Novel Microfabricated Antenna for Use in Lossy Media*
- 2006 Joshua Ball, *Adiabatic Quantum Computing*
- 2005 Chiumun (Michelle) Hui, *Simulations for the X-Ray Occulting Steerable Satellite (XOSS)*
Sarah Lehrian, *Continuing the Battle to Find a Cure for Post-Exam Syndrome*
- 2004 Mark Winkler, *Surface Mediated Effects in Liquid Crystals*
- 2003 Steven Rodney, *Simulations for the X-Ray Occulting Steerable Satellite (XOSS)*
- 2002 Michael Salem, *Stability of Oscillatory Solutions in Field Theory*

- 2001 Nick Wagner, *Laser Trapping and Cooling*
2000 David Olson, *Vacuum Bubble Dynamics*
1999 Graeme Lufkin, *Simulating Neutrino Oscillation and Detection at BOREXINO*
1998 Benjamin Ruedlinger
1997 Travis C. Brooks
1996 Andrew J. Harey, Jr.
1995 Eric Kangas
1994 Darren Pierre
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The Senior Award for service and scholarship in physics.

Past Winners:

- 2017 Qiaoyi (Joey) Liu & Joshua Ziegler
2016 Elizabeth Tarantino
2015 Stephanie Hougen
2014 Andrew Oriani
2013 Dan Baxter
2012 Kim Star, Jessica Hatch, Lauren Nicholson, Elizabeth McNany, Chelsea Spengler & Rebecca Gilson
2011 Keith Lupton
2010 Sander Zandbergen
2009 Jeremy Harchelroad
2008 Jeremy Mock
2007 Jennifer Kalb
2006 Benjamin Lawrie
2005 Adam Light
2004 Stephanie Bush & Mike Minor
2003 Joshua Boehm & Sonali Mehandru
2002 not given
2001 Andrew Stickrath
2000 Mark Hartman
1999 not given
1998 Eliezer Guararie and Alan F. Fetters
1997 Michael J. Hornish and Mathew W. Banning
1996 Ezekeil Johnston-Halperin
1995 Jason Kasper & Matthew Lewis
1994 Matthew Knepley
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The Krumhansl Family Prize to an outstanding undergraduate woman for her academic accomplishments in the department of physics [*This award ended after 2011.*]

Past Winners:

2011 Rebecca Gilson & Jessica Hatch & Elizabeth McNany
2010 Lisa Bauer & Seraina Murphy
2009 Katherine Hagen & Katarzyna Oldak
2008 Karen Vaughn
2007 Kristin Poinar & Amy Orsborn
2006 Amy Orsborn & Kristin Poinar
2005 Chiumun (Michelle) Hui & Rachel Benish
2004 Marisa Quattrone
2003 Sonali Mehandru & Stephanie Bush
2002 Stephanie Bush
2001 Amanda Kepley
2000 Megan Smith and Elizabeth Hedrick
1999 Emily Jalics
1998 Jacqueline Monkiewicz
1997 Elizabeth A. Shack
1996 Tanya Kosc
1994 Sue-mee Shin

The Physics and Society Essay Competition Award to the physics major who writes the best essay on the application of physics to societal problems [*This award ended after 2003.*]

Past Winners

2003 *not given*
2002 William Sherwin, "*Science versus Creationism and Intelligent Design: Why No Conflict Exists*"
Sonali Mehandru, "*Juxtaposition*"
2001 *not given*
2000 Andrew Stickrath, "*Alcohol as a Fuel Source - Economic and Energy Feasibility*"
1999 *not given*
1997 Timothy B. Eagan

EXTERNAL AWARDS FOR CWRU/CASE UNDERGRADUATES

Goldwater Scholarship for juniors <http://www.act.org/goldwater/>

Churchill Scholarship <http://www.thechurchillscholarships.com/6838.html>

NSF Fellowship <http://www.ehr.nsf.gov/dge/programs/grf/>

DOD Fellowship <http://www.asee.org/resources/fellowships/ndseg/>

<i>STUDENT</i>	<i>CLASS</i>	<i>AWARDS</i>
Benjamin Kuznets-Speck	2018	Goldwater Scholarship
Nathaniel Starkman	2018	Goldwater Scholarship honorable mention in 2016 & 2017
David Hathcock	2017	NSF Graduate Fellowship
Zaarah Mohamed	2015	Phi Beta Kappa
Todd Norton	2014	Goldwater Scholarship
Jason Tabachnik	2013	Gates Cambridge & Goldwater Scholarships
Bryan Weinstein	2012	DOE Graduate Scholarship
Stephen Fleming	2011	Churchill Scholarship
Gareth Kafka	2010	Goldwater Scholarship honorable mention
Michael Davidson	2008	Fulbright
Karen Vaughn	2008	NSF Fellowship & National Defense Fellowship
Amy Orsborn	2007	NSF Fellowship
Kristin Poinar	2007	NSF Fellowship
Stephanie Bush	2004	Goldwater Scholarship & Churchill Fellowship
Mark Winkler	2004	NSF Fellowship
Thomas Bing	2003	NSF Fellowship
David Hanneke	2001	DOD Fellowship for Harvard
David Olson	2000	Goldwater Scholarship NSF Graduate Fellowship for Princeton
Dan Aubertine	1999	Goldwater Scholarship for Stanford (Mat. Sci.)
Neil Rubin	1998	Churchill & NSF Graduate Fellowship for Stanford
Travis Brooks	1997	NSF Graduate Fellowship for Stanford
Erik Kangas	1995	NSF Graduate Fellowship for MIT
Darren Pierre	1994	NSF Graduate Fellowship for MIT
Erik Raines	1991	Churchill & NSF Graduate Fellowship for Harvard
Christopher Rella	1990	NSF Graduate Fellowship for Stanford
Richard Garwin	1947	National Medal of Science https://en.wikipedia.org/wiki/Richard_Garwin
Donald Glaser	1946	1960 Nobel Prize in Physics - http://en.wikipedia.org/wiki/Donald_A._Glaser
Polykarp Kusch	1931	1955 Nobel Prize in Physics - http://en.wikipedia.org/wiki/Polykarp_Kusch

NOBEL PRIZES in PHYSICS for CWRU FACULTY

1907: Albert Michelson (*chair of the Department of Physics*) is named first American scientist to win the Nobel Prize in physics.

http://en.wikipedia.org/wiki/Albert_Michelson

1995: Frederick Reines, professor and chair of physics.

http://en.wikipedia.org/wiki/Frederick_Reines