

Faculty, Graduate Student and Undergraduate Honors & Distinctions -Department of Physics and Astronomy, University of Rochester Dec. 10, 2003)

Research Awards

Teaching/Educational Awards

Editorial Boards

Harry E. Gove

R. T. French Visiting Professor (1983-84)

Board of Trustees Associated Universities, Inc. (1978-83)

Fellow, APS

JARI Award recipient (1980)

Director NSRL (1963-1988)

Associate Editor Annual Review of Nuclear and Particle Science (1978-1994)

Division Associate Editor Phys Rev. Lett. (1975-1979)

C. Richard Hagen

Award for Excellence in Undergraduate Teaching, Department of Physics and Astronomy, University of Rochester (1996, 1999)

H. Lawrence Helfer

John Simon Guggenheim Memorial Foundation Fellow (1965-66)

Research Fellow Radio Astronomy, Carnegie Institute (1953-54)

John Howell

Junior Research Fellow, Wolfson College, Oxford University

Duncan Fellowship, Penn State University

Athletic Track and Field Scholarship, Utah State University

Co-Physics Teaching Assistant of the Year, Penn State University (1999-2000)

Govind P. Agrawal

Distinguished Alumni Award, Indian Institute of Technology, Delhi (2000)
 Honorary Professor, South China Normal University, China (1999)
 Fellow, Institution of Electrical and Electronics Engineers (1996)
 Exceptional Contribution Award. AT&T Bell Laboratories (1987)
 Gold Medal, University of Lucknow, India (1970)
 Fellow, Optical Society of America (1986)

Editorial Board Member, Microwave and Optical Technology Letters (1998--current).
Editorial Board Member, Book series, Progress in Optics (2001--current).
Associate Editor, Optics Express, Optical Society of America (2001--current).
Topical Editor, Journal of Optical Society of America, Part B (1993--1998).
Editorial Board Member, Journal of European Optical Society, Part B (1994--1997).
Editor, Academic Press Book Series on Time Optics and Photonics (1998--2002).

Priscilla S. Auchincloss (Senior Lecturer)

Goergen Award for Distinguished Contribution to Undergraduate Learning
 shared with (A. Bodek, L. Orr, and C. Jones), for the Women in Science and Engineering (WISE) Program 1998
 Fellow American Physical Society

Riccardo Betti

T. J. Thompson Fellowship, MIT, (1990)
 Ansaldo Fellowship, Ansaldo S.p.A., Genova, Italy (1988)
 Fulbright Fellowship (1986)
 Fellow American Physical Society (2001-)

Nicholas P. Bigelow

Lee A. DuBridge Chair (2000-present)
 NSF Young Investigator Award (1994-99)
 David and Lucile Packard Fellow (1994-99)
 Alfred P. Sloan Foundation Fellow (1993-95)
 Clark Distinguished Teaching Award, Cornell University (1983)
 Elizabeth Major Nevius Award for Distinguished Scholarship, Lehigh University (1980)
 Tau Beta Pi Honorary Engineering Society, Lehigh University (1980)
Award for Excellence in Undergraduate Teaching, Department of Physics and Astronomy, University of Rochester (1998)
University Dean's Award for Meritorious Service in Ph.D. Defenses in 2003

Topical Editor for Optics Letters (OSA)- presentEric G. Blackman

DOE Junior Faculty Development Award (2000-2003)
 Hewlett Fund Prize, Harvard University (for highest graduate GPA (1993-94)
 Trinity College Bursary Award, Cambridge University (1990-91)
 American Nuclear Society Full Tuition Fellowship, MIT (1989-90) (declined)
 Harvard Book Award, Bausch and Lomb Science Prize, Sisson Mathematics Award, Language Scholar Award, Harley School, Rochester, NY (1985-86)
 Ralph S. McKee Trophy (Top Male Athlete) and Wooden Award (Sportsmanship), Harley School, Rochester, NY (1985-86)
Editor, Cross Sections, UR Dept. of Physics & Astronomy

Mark Bocko

2002 – University of Rochester Student Association Senate “Professor of the Year”
2002 – University of Rochester School of Engineering and Applied Sciences “Undergraduate Teaching Award”.
1991 Excellence in Undergraduate Teaching Award: College of Engineering and Applied Science, University of Rochester

Arie Bodek

American Physical Society W. K. Panofsky Prize in Experimental Particle Physics 2004
 NSF-JSPS Fellowship (1986)
 Fellow, American Physical Society (1985-)
 Alfred P. Sloan Foundation Fellow (1979-81)
 Robert E. Millikan Fellow, Caltech (1974-77)
 CDF Executive Board Institutional Representative
 CMS HCAL Executive Board Institutional Representative
 Co-Spokesperson SLAC Experiment E140
 Co-Spokesperson Jefferson Lab Experiment E03-110
 Spokesperson FNAL Experiment E595

Goergen Award for Distinguished Contribution to Undergraduate Learning
 shared with P. Auchincloss, L. Orr, and C. Jones), WISE Program 1998

Editorial Board, European Physics Journal C (1988-present)
Editorial Board Z. Phys. C (Particle and Fields) - previously
Robert W. Boyd

M. Parker Givens Professor of Optics (and Physics) (2002-)
 Co-editor Contemporary Nonlinear Optics (1992)
 Fellow, Optical Society of America

John R. Huizenga

Member, US Energy Research Advisory Board (ERAB) 1984-1990)
 Member, Oak Ridge National Laboratory Physics Advisory Committee (1985-1990)
 Co-Chairman, Cold Fusion Panel of Energy Research Advisory Board (1989)
 Member, National Academy of Sciences (1976)
 Distinguished Alumni Award Calvin College (1975)
 Guggenheim Fellow University of California, Berkeley, Technical University of Munich and Niels Bohr Institute, Copenhagen (1973-75)
 E. O. Lawrence Memorial Award for Research in Nuclear Fission (1966)
 John Simon Guggenheim Memorial Foundation Fellow (1964-65)
 Fulbright Fellow (1954-55)
 Fellow, APS

Editorial Board, Physical Review C (1982-85)Robert S. Knox

Prize in Biological Physics, APS (1994)
 Fellow, APS
 Member and Chair Physics Programs Policy Committee, AIP (1989-94)
 Royal Society Guest Research Fellow and UK Fulbright Scholar, Department of Biochemistry, Imperial College of Science, Technology and Medicine, London (1993)
 Chair, APS Division of Biological Physics (1981-82)
 Chair NYSS, APS (1971-77)
 NSF Senior Postdoctoral Fellow, University of Leiden, Biophysical Laboratory (1967-68)
 NSF Predoctoral Fellowship, University of Rochester (1955-56)
Award for Excellence in Undergraduate Teaching, Department of Physics and Astronomy, University of Rochester (1978, 1989)
Editorial board- AIP Springer Series in Basic and Applied Biological Physics - (1994-now)
Associate Editor, Biophysical Journal (1984-89)

Editorial Board - Journal of Luminescence (1984-2002)Daniel S. Koltun

Divisional Associate Editor of Physical Review Letters (1999-2001)
 Lady Davis Foundation Visiting Professor, Jerusalem (1985)
 John Simon Guggenheim Memorial Foundation Fellow (1976-77)
 Alfred P. Sloan Foundation Fellow (1969-71)
 NSF Postdoctoral Fellow, 1961-2
 Fellow American Physical Society
Divisional Associate Editor of Physical Review Letters (1999-2001)
Associate Editor, Physical Review C, 1978-80
Associate Editor, Physical Review Letters, 1979-81
Editorial Committee - Annual Review of Nuclear and Particle Science (1989)

Steven L. Manly

NY State Professor of the Year (2003)
 Mercer Brugler Distinguished Teaching Professor (2002-2005)

Robert L. McCrory

Fusion Power Associates Leadership Award (1996)
 Edward Teller Medal (1994)
 Fellow, APS (1985)
 Atomic Energy Commission Special Fellow-National Fellowship (1968-73)
 Alfred P. Sloan National Scholar, MIT (1964-68)
Associate Editor, Physics of Plasmas
Editor, Nuclear Fusion
Editor, Journal for Scientific Computing
Editor, Laser and Particle Beams

Kevin S. McFarland

NSF Career Access Award (2002-2007)
 Cottrell Scholars Award, Research Corporation (2001)
 Outstanding Junior Investigator (DOE) (1999)
 Alfred P. Sloan Foundation Fellow (1998)
 McCormick Fellow, University of Chicago (1989-93)
 Nathan Sugarman Award for Outstanding Graduate Research, Enrico Fermi Institute, University of Chicago (1992)
 NSF Graduate Fellow (1989-92)
 Fannie and John Hertz Foundation Fellowship (declined) (1989)
Editor, Cross Sections, UR Dept. of Physics & Astronomy

Adrian Melissinos

Fellow, APS
Award for Excellence in Undergraduate Teaching, Department of Physics and Astronomy University of Rochester (1981, 1986)

Fellow, American Physical Society
 Visiting Scientist, University of Paris, 1992
Editorial board Phys. Rev. Letters -present
Editorial board, Journal of Modern Optics - present

Theodore G. Castner

NSF, Outstanding Performance Award, (1991)
 Fellow, APS (1971)
 John Simon Guggenheim Memorial Foundation Fellow (1969-70)
 Texas Instrument Fellow, University of Illinois (1956-57)
 Gulf Research and Development Fellow, University of Illinois (1955-56)

Douglas Cline

D.S.I.R. Senior Research Fellowship (1960-63)
 D.S.I.R. Research Scholarship (1957-60)
 Samuel Bright Memorial Prize (1957)
 Fellow, APS
 York City Major Scholarship (1954-57)
 State Scholarship (1954-57)

Editorial board Phys. Rev. C(previous)

Esther Conwell

Elected member of the National Academy of Engineering (1980),
 Elected member of the National Academy of Sciences (1990)
 Elected member of the American Academy of Arts and Sciences (1992)
 Honorary D.Sc. from Brooklyn College in 1992
 Elected member of the New York Academy of Sciences 1993-
 Thomas A. Edison Medal of the IEEE in 1997.
 Listed as one of the 50 Most Prominent Female Scientists in Discover
 magazine , Nov.2002.

Editorial Board - Applied Physics Letters (1972-74, 21995-97)

Ed. Board -Journal of Applied Physics (1972-74,1995-97)

Proc. IEEE (1977-78)

International Advisory Editorial Board Current Applied Physics

Ashok Das

Fulbright Fellow (1997-98)
 DOE Outstanding Junior Investigator (1983-1989)
 University Grants Commission Scholar, India (1972-74)
 National Merit Scholar, India (1968-72)
 Fellow American Physical Society (APS) named in 2002
 Award for Excellence in Undergraduate Teaching, Department of Physics
 and Astronomy, University of Rochester (1987, 1990, 1997)
 Edward Peck Curtis Award for Excellence in Undergraduate Teaching (1991)

Editor, Cross Sections, UR Dept. of Physics & Astronomy

Regina Demina

DOE Outstanding Junior Investigator Award 2001-

David H. Douglass

Alfred P. Sloan Foundation Fellow
 U of R Bridging Fellowship to Eastman (2004)
 Fellow, American Physical Society

Joseph H. Eberly

Fellow, APS
 Fellow OSA
 Journal of Physics B Special Lecturer, Jasowiec, Poland (2002)
 Foreign Member, Academy of Science of Poland (2001)
 Andrew Carnegie Professor of Physics (Rochester)
 Distinguished Alumnus Award, Penn State College of Science (1998)
 Charles Hard Townes Award, OSA (1994)
 La Caixa Special Fulbright Award, Autonomous Univ. of Barcelona, Spain
 (1988)
 Auckland Foundation Visiting Professorship, Auckland Univ., New Zealand
 (1987)
 Smoluchowski Medal, Physical Society of Poland (1987)
 Humboldt Preis, A. von Humboldt Foundation of West Germany (1984)
 Gifford Lecturer, Oberlin College (1982)
 JILA Senior Visiting Fellow, Univ. of Colorado and NIST (1978-79)

**Goergen Award for Distinguished Achievement and Artistry in
 Undergraduate Teaching (2000)**

Visiting Professorships

Visiting Professor, University of Texas-Austin
 Visiting Professor, Universität Ulm, Ulm, Germany
 Visiting Professor, Univ. Catholique de Louvain, Belgium,
 Auckland Foundation Visiting Lecturer, Auckland University, New Zealand
 University Visiting Professor of Physics, University of Queensland, Australia
 SERC Visiting Fellow, Department of Physics, Imperial College, London

Chair of Board of Editors, OSA (2002-06)

Founding Editor, Cross Sections, UR Dept. of Physics & Astronomy (1984)

David D. Meyerhofer

University Dean's Award for Meritorious Service in Ph.D. Defenses in 2003
 Fellow American Physical Society (APS) named in 2002
Editorial board Plasma Physics and Controlled Fusion
Divisional Editor - Phys. Rev. Letters (Jan 2004-)

Shaul Mukamel

C.E. Kenneth Mees Professor of Chemistry (and Physics)
 Alexander von Humboldt Research Award for Senior US Scientists (1997)
 Guggenheim Fellow (1997)
 Fellow, OSA (1989)
 Fellow, APS (1985)
 Camille and Henry Dreyfus Teacher-Scholar (1984)
 Alfred P. Sloan Fellow (1980)
 Fulbright Hayes Fellow (1976)
 Dr. Chaim Weizmann Fellow (1976)
 Ben-Atar Rector Prize, Tel-Aviv University (1971)
Editorial board of the Journal of Physical Chemistry
Advisory editor for Chemical Physics Letters,
Editorial board of the series on Mesoscopic Physics and Nanotechnology,
Oxford University Press.

Susumu Okubo

Nishina Foundation Award of Physics (1976)
 Fellow, APS
 Ford Foundation Distinguished Professor Fellow (1969)
 John Simon Guggenheim Memorial Foundation Fellow (1966)
 NSF Fellow (1960-61)
Editorial Board - Hadronic Journal (1970-1972)
Editorial Board - Algebras, Groups and Geometries (1985-1987)

Lynne H. Orr

NSF Career Access Award (1996-2000)
 DOE Outstanding Junior Investigator Grant (1996-1999)
 U.K. Particle Physics and Astronomy Research Council Visiting Fellowship
 (1996)
 University of California President's Postdoctoral Fellowship (1991) declined;
 (1992-93)
 SSC Postdoctoral Fellowship (1991-92)
 Meyers Teaching Award, University of Maryland (1986)
 Iskraut Graduate Fellowship, University of Maryland (1985-86)
 NASA Group Achievement Award (1985)
 William Spicer Undergraduate Physics Award (1982)
 National Merit Scholarship (1978-82)
 Award for Excellence in Undergraduate Teaching, Department of Physics and
 Astronomy, University of Rochester (2000)
 Curtis Award for Nontenured Faculty Teaching Excellence (1999)
 Goergen Award for Distinguished Contribution to Undergraduate Learning
 shared with P. Auchincloss, A. Bodek and C. Jones), WISE Program 1998

Judith L. Pipher

Chair SOFIA Science Council (1996-2003)
 Member NRC Committee on Astronomy and Astrophysics
 Award for Excellence in Undergraduate Teaching, Department of Physics and
 Astronomy, University of Rochester (2001)
 Susan B. Anthony Lifetime Achievement Award (2002) for Contribution to
 Teaching and Research.
Scientific Editor, Astrophysical Journal (2002-present)

Alice C. Quillen

Columbus Postdoctoral Fellowship, Ohio State (1993-1996)
 Sarada G. Rajeev

TOKEN Fellowship of the United Nations (1998)
 Graduate School Doctoral Prize, Syracuse University (1984)
 Governor's Gold Medal, University of Kerala (1979)
 National Science Talent Scholar, India (1976-79)
**Award for Excellence in Undergraduate Teaching, Department of Physics and
 Astronomy, University of Rochester (1993)**

Lewis Rothberg

1977 Phi Beta Kappa
 1995 AT&T Bell Labs Global Mfg. & Eng. Teaming Excellence Award
 1996 Fellow of American Physical Society
Malcolm P. Savedoff

NSF Senior Fellow (1964-65)
 Alfred P. Sloan Foundation Fellow (1956-60)
Yonathan Shapir

Fulbright Fellow
 Bourse Joliot-Curie Fellow
 Visiting Compton Fellow, Technion Israel
Albert Simon

Fellow, APS
 U.K. Science Research Council, Senior Visiting Fellow, Oxford (1975)

Founding Editor, Optics Express (1996-01)
Physical Review A, Editorial Board, (1979-81), (1982-84)
Associate Editor, Optics Letters (1980-83)
Journal of the Optical Society of America B,
Topical Editor for Quantum Optics (1984-89)
Senior Editor, Multiphoton Bibliographies (1976-85)
Editorial Board of Laser Physics (1991 - present)

Thomas Ferbel

PPARC Senior Fellowship, Imperial College, London (2002-2003)
Director of NATO Schools 1980-2000 and Editor, NATO Summer School Conference Series
Alexander Von Humboldt Prize (1995-96)
Judge Charles Colden Award. Queens College Fellow, APS (1982)
John Simon Guggenheim Memorial Foundation Fellow (1971-72)
Alfred P. Sloan Foundation Fellow (1970)
Award for Excellence in Undergraduate Teaching, Department of Physics and Astronomy, University of Rochester (1979, 2002)

Editorial Board Modern Physics Letters A-current
Editorial Board International Journal of Modern Physics A-current
Previous Editor, NATO Summer School Conference Series
Editorial Board, Z. Phys. C. -previously
Editorial Board, Phys Rev B -previously
Editor, Cross Sections, UR Dept. of Physics & Astronomy

Thomas H. Foster

Fellow, APS (2001-)
Shu-Ren Lin Award for Excellence in Radiology Resident Teaching, Department of Radiology, University of Rochester School of Medicine and Dentistry (1991)
Honorable Mention Citation as an Excellent Teaching Assistant, Department of Physics and Astronomy, University of Rochester (1987)
Associate Editor, Photochemistry and Photobiology
Adam Frank

National Science Foundation Early Career Development Award (1997-2002)
Hubble Space Telescope Fellowship (1995-98) declined last two years
NSF Fellowship, Program for Research at Foreign Centers of Excellence
Graduate Merit Fellowship, Department of Physics, University of Washington (1986-87)
Isabelle Tour Scholarship in Physics, University of Colorado (1983)
American Astronomical Society Solar Physics Division: Popular Science Writing Award for a Scientist (1999)

Editorial Board - Astronomy Magazine - present
Contributing Editor, Astronomy Magazine - present
Contributing Editor, Discover Magazine - present

Harry W. Fulbright

John Simon Guggenheim Memorial Foundation Fellow (1956-57)
Fulbright Scholar (1956-57)
Fellow, APS
Yongli Gao

Alfred P. Sloan Foundation Fellow (1989-91)
CUSPEA Selectee, China-United States (1984-86)
David Ross Fellowship, Purdue University (1984-86)
Lark-Horovitz Prize, Purdue University (1986)
Distinguished Student, Central-South Institute of Mining and Metallurgy (1980)

AWARDS TO Physics and Astronomy U of R UNDERGRADUATES

Misc. National and State Awards Awarded to Undergraduates

2000 -Albert Torr-Jong Wang (2nd Place, Poster Competition NY APS meeting; Buffalo NY Oct. 2000 Advisor Professor Steve Teitel

NYS Section of American Physical Society Physics Outreach Award:
 2004 Robetr Forties (Undergraduate)
 2004 Jese Chvojka (graduate Student)
 2003 Adam Harrington (graduate student)

The Apker Award is a national award presented by the American Physical Society to an undergraduate who has demonstrated exceptional potential for scientific research by an original contribution to physics. This National Award is named after a University of Rochester Alumnus.

2001 -Albert Torr-Jong Wang (Apker Award Finalist); Advisor Professor Steve Teitel
 1999- Govind S. Krishnaswami (Apker Award); Advisor Professor Sarada Rajeev

John Simon Guggenheim Memorial Foundation Fellow (1964-65)

Paul F. Slattery

Fellow, APS
John Simon Guggenheim Memorial Foundation Fellow (1992-93)
Dean's Fellow, University of Rochester (1984-85)
AEC Postdoctoral Fellow (1967-69)
Sterling Fellow, Yale University (1966-67)
NASA Traineeship, Yale University (1963-66)
1963 Leigh Page memorial Prize, Yale University (1963)
Raycroft Walsh Scholarship, United Aircraft Corporation (1958-62)
Spokesperson FNAL Experiment E706
Award for Excellence in Undergraduate Teaching, Department of Physics and Astronomy, University of Rochester (1983)
Goergen Award for Distinguished Contributions to Undergraduate Learning (as Chair of the College Curriculum Committee) (1977)

John P. Spoonhower

Eastman Kodak Company SPSE Journal Award 1984
RCA Fellow, Cornell (1972-73)
Eastman Kodak Fellow 1973-75)
NIH Predoctoral Fellow (1975-76)
Dailey Memorial Scholarship

Carlos R. Stroud

Fellow, OSA
Fellow, APS
(2003)U of R SEAS Lifetime Achievement Award

Stephen L. Teitel

University of Rochester Bridging Fellowship to BCS Department (2003)
Award for Excellence in Undergraduate Teaching, Department of Physics and Astronomy, University of Rochester (2000)
Fellow, APS
Tau Beta Pi Engineering Honor Society
Feinberg Graduate Fellowship (1985-86)
Bantrell Postdoctoral Fellowship (1983-85)
Ohio State University Graduate Fellowship (1981-82)

John H. Thomas

Chair Solar Physics Division of the American Astronomical Society (1995-97)
John Simon Guggenheim Memorial Foundation Fellow (1993-94)
University of Rochester-Worcester College, Oxford, Exchange Fellow (1987-88)
Chair American Society for Engineering Education, Graduate Studies Division (1986-87)
NATO Postdoctoral Fellow (1966-67)
Fellow APS (2001-)
Scientific Editor, Astrophysical Journal (1993-2003)

Edward H. Thorndike

Spokesperson CLEO Collaboration
W.K.H. Panofsky Prize (1999)
John Simon Guggenheim Memorial Foundation Fellow (1987-88)
Fellow, APS
NSF Senior Postdoctoral Fellow (1970)
Visiting Fellow Cornell University (1967-present)
NSF Predoctoral Fellow (1956-60)

Paul L. Tipton

Fellow, APS (2001)
NSF Young Investigator Award (1992-97)
DOE Outstanding Junior Investigator (1991-96)
Wilson Fellow, Fermi National Accelerator Laboratory (1991)
Editorial Board - Annual Reviews of Nuclear and Particle Science (2003-)
Award for Excellence in Undergraduate Teaching, Department of Physics and Astronomy, University of Rochester (1995)
HR Student Association Teacher of the Year (Honorable Mention) (1994)
Editorial Board - Annual Reviews of Nuclear and Particle Science (2003-present)

Hugh M. Van Horn

Fellow, AAAS
Visiting Fellow, JILA (1973-74)
Tau Beta Pi (1960)

Dan M. Watson

NSF Presidential Young Investigator Award
NSF Presidential Young Investigator Award (1989-94)
Robert Andrews Millikan Fellowship, Caltech (1985-87)
Award for Excellence in Undergraduate Teaching, Department of Physics and Astronomy, University of Rochester (1992, 1994, 2003)

1999- Govind S. Krishnaswami (Apker Award finalist); Advisor Professor Sarada Rajeev
 1983 - Bob Kowalewski (Apker Award Finalist); Advisor Professor Tom Ferbel
 1978, -Robert Wentworth, (Apker Award Finalist); Advisor Professor Joe Eberly

Astronomical Society of New York (ANSY) Undergraduate Student Prize (for distinguished research paper)
 2000 Matthew Barczys
 1993 Leah Bucholz

Goldwater, Fulbright and other national scholarships awarded to REU students (List incomplete)

Kristi Adamson (Brigham Young, UR REU 2002, Goldwater 2003)
 Jason Nordhaus (Rochester , UR REU 2002, Goldwater 2002)
 David Etlinger (Rochester '03, Goldwater 2001)

Katie Lotterhos (Binghampton, UR REU 2001, Goldwater 2001)

Kathrine Schultz (UR Optics, UR Physics/PREP 2001, Fulbright Scholar 2003-4
 First U of R scholar since the 1999-2000 competition)

NSF and other Graduate Fellowships awarded while a REU undergraduate at Rochester (List incomplete)

Denise Sawicki (Rochester, UR REU, NSF 1996)

University of Rochester (Science and Engineering Awards)

The University of Rochester Catherine Block Memorial Fund Prize, awarded annually by the University to a woman in the junior class in recognition of her outstanding ability and achievement in the field of science.

2002 Laura Schmidt
 1997 Denise Sawicki
 1994 Jeanne Traer

The University of Rochester Janet Howell Clark Prize, awarded annually by the University to the senior woman who has shown the greatest promise in creative work in either astronomy, biology, chemistry, or physics and who has shown outstanding versatility in the mastery of allied fields.

2002 Elizabeth Strychalski
 1999 marianne Vieira
 1996 Suzanne Galada

1995 Jeanne Traer

University Stoddard Prize, awarded by the University annually for the best senior thesis research done by a graduating senior in the Department of Physics and Astronomy

2001 Albert Torr-Jong Wang
 2000 Peter Allen
 Aaron Reichman
 1999 Govind Krishnaswami
 1998 Troy Andre
 1997 Ananth Chikkatur
 1996 Michael Zingale
 1994 Robert Gilmore
 1993 Anne Sutherland
 1992 Charles Englebracht
 1991 Linda Marchese

Department Physics Honors Prize, awarded annually to the sophomore student with the best academic record in the honors physics introductory sequence

2003 Siddharth Parameswaran
 2002 Robert Forties
 Daniel Kneel
 2001 Andrew Collette
 Jason Kay
 2000 Lisa Marshall
 1999 Brock Tweedie
 1998 Peter Allen
 1997 Matthew Barczys
 1996 Govind Krishnaswami
 1995 Tanzeena Choudhury
 1994 Ananth Chikkatur
 1993 Christopher Border
 1992 Jonathan Summers
 1991 Esin Terzioglu

Department Fulbright Prize, awarded annually to the student who, by his or her performance in the Advanced Laboratory, manifests the greatest promise for developing into an experimental physicist in the tradition exemplified by Harry W. Fulbright

2002 Elizabeth Strychalski
 Geoffrey Lott
 2001 Brian Padworny
 Matthew Moffa
 2000 Worawarong Rakreugdet

Teaching Award University of California, Berkeley (1977)

Emil Wolf

Distinguished Visiting Professor, University of Central Florida, Orlando, FL: (Fall Semester 2002).

President of the Optical Society of America

Frederic Ives Medal OSA

Albert A. Michelson Medal, Franklin Institute

Max Born Award, OSA

Marconi Medal (Italian National Research Council)

Gold Medal of the Czechoslovak Academy of Sciences

Medal of the Union of Czechoslovak Mathematicians and Physicists

Gold Medal of Palacky University, Olomouc, Czechoslovakia

Fellow, APS

Fellow, OSA

Fellow, British Institute of Physics

Fellow, Franklin Institute

Fellow, Electromagnetic Academy

Fellow, John Simon Fubbenheim Foundation (1966-67)

HONORARY DEGREES: Universite de Franche-Comte-Besancon, France;

Aalborg University, Aalborg, Denmark; University of Groningen, The

Netherlands; University of Edinburgh, Scotland; Palacky University Olomouc,

Czechoslovakia; University of Bristol, England; Laval University, Quebec,

Canada

Esther Hoffman Beller Award (Optical Society of America, 2002).

University of Rochester Award for Excellence in Graduate Teaching (2000)

Journal of Modern Optics (Editorial board)

Optics Communications (Advisory Editorial board)

Progress in Optics (Editor)

Frank L. M. Wolfs

Goergen Award for Distinguished Achievement and Artistry in Undergraduate Teaching (1997)

Curtis Award for Nontenured Faculty Teaching Excellence (1995)

Jianhui Zhong

Guest Professor, Department of Physics, Xiamen University, China, 2001-2004

Awardee of Wang Kanchen Research Prize, Chinese Academy of Sciences,

1999

Research Scientist, Yale University School of Medicine, 1998-2000

CUSPEA (China US Physics Examination and Application) Scholarship,

Brown University (1982-87)

NIH Training grant, Yale University, Biomedical NMR (1987-89)

The Dean's Award for Research, Yale University School of Medicine (1996)

President of Overseas Chinese Society of Magnetic Resonance in Medicine

Magnetic Resonance Imaging, (Editor-in-chief: John Gore of Vanderbilt

University), 2001-present

AWARDS TO Physics and Astronomy U of R GRADUATE STUDENTS

National and State Awards

Overall Graduate Program

The University of Rochester Department of Physics and Astronomy has been ranked 2nd

in Overall Graduate Student Satisfaction in 2001 in a National Survey Funded by the A. P. Sloan Foundation.

National Award: University Research Association (URA) Award for best PhD Thesis (among 50 University Groups) done at Fermilab

2002 Un Ki Yang; Advisor Professor Arie Bodek

2001 Michael Fitch; Advisor Professor Adiran Melissinos

National Award: Korean American Physics Association

2001 Un Ki Yang (Hon Mention distinguished young researcher Award). Advisor Professor Arie Bodek

Astronomical Society of New York (ANSY) Graduate Student Prize (for distinguished research paper)

1998 Jenifer Goetz

1997 Colin Roald

1996 Shobita Satyapal

1992 Tod Strohmayer

1986 C. E. Woodward

1984 Patrick McDermott

1981 Marc Lacasse

1978 F. Wesemael

1999 Jeremy Kukafka
 1998 Margaret Bowers
 1997 Jose Perillan
 1996 Ananth Chikkatur
 1995 Joshua Winsor
 1994 Todd Safford
 1993 Ching-uk Ngan
 1992 Edward Turano
 1991 Melinda Hope

Department The John F. Flagg Award, given annually to a graduating senior majoring in physics or physics and astronomy with the highest grade point average as an undergraduate

2002 Scott Verbridge
 2001 Brock Tweedie
 Albert Torr-Jong Wang
 2000 Jason Sickler
 Peter Allen
 1999 Govind Krishnaswami
 1998 Denise Sawicki
 1997 Ananth Chikkatur
 1996 Michael Zingale
 1995 Greg Cragg
 1994 David Rifkin
 1993 Ching-Yuk Ngan
 1992 Bo Wu
 1991 Bruce Pirger

Department Undergraduate Teaching Intern Award

2002 Han Gil Yoo
 2001 Andrew Blechman
 Jeffrey Clark
 Jennifer Witkowski
 Alexis Spilman
 2000 Nora Macey
 Drew Abrams
 Kate Coleman
 Aaron Reichman
 Tammy Savrin
 1999 Marianne Vieira
 Matthew Barczys
 Cynthia Lui
 Sondra Rosenberg
 1998 Troy Andre

 1997 Ananth Chikkatur
 1996 Michael Zingale
 1995 Jeanne Traer
 1994 Robert Gilmore

Other UR AWARDS TO Physics and Astronomy U of R UNDERGRADUATES

The University of Rochester Fannie R. Bigelow Scholarship Fund

The Fannie R. Bigelow Scholarship Fund was established in her memory by gifts from her sisters, her grandniece, and her nephew in commemoration of the work of Fannie R. Bigelow and colleague of Susan B. Anthony. The scholarship is awarded to a junior or senior woman for outstanding participation and leadership in extra-curricular activities: "She shall demonstrate that she participates in extracurricular activities because she believes sincerely in their value to the college community beyond their purely social worth.

The University of Rochester Susan B. Anthony Award, awarded annually by the Women's Club of the University of Rochester. The scholarship is awarded to a junior or senior woman for outstanding participation and leadership in extra-curricular and academic achievement.

Elizabeth Reisinger (REU 2001, Prize 2002)
 Awusta Ayub (REU 2000, Prize 2001)

The Delno Sisson Prize, this prize is awarded annually to the freshman who has "shown most improvement not only in academic work but in adjusting to college life and the student body.

Siddharth Parameswaran (Prize 2003)

Iota Book Award (Phi Beta Kappa)

This prize is awarded annually recognize outstanding members of the previous year's freshmen who have shown scholarly achievement, humanistic values and co-curricular activities and leadership potential. The selection is done by the College's Deans.

2003 Siddharth Parameswaran

The Rhodes/Marshall/Mitchell, these prestigious scholarships permit students to study in Great Britain.

The Truman/Udall, these scholarships are policy-oriented, the Truman specifically

University Awards

University of Rochester Edward Peck Curtis Award, awarded by the University Vice Provost for Research and Graduate Affairs Office for excellence in teaching by a graduate student

2002 Mark Houck
 2001 Kevin Wright
 2000 E. Jane Wesely
 1998 S. Benjamin Weiss
 1997 Mishkat Bhattacharya
 1998 Rohit Bhatia
 1991 Francesco Narducci

GradGTA

Department Graduate Teaching Award

2003 John Boersma
 2002 Rachael Anderman
 2001 Christopher Haimberger
 2000 Ken Anderson
 1999 Eric Page
 1998 Michael Banks
 1997 Josh Cassada
 1996 Diane Bryan
 1995 Edward Hull
 1994 Kirsten Tollefson
 1993 David Braning
 1992 Michael Simon
 1991 Alan Fry
 1990 Francesco Narducci
 1989 Elizabeth Murphy
 1988 Jae Woo Noh
 1987 Scott Borzillary
 1986 Karl Helmer
 1985 Alexander Karev
 1984 John Mansour
 1983 George Tsironis

GradGTAHon

Department Honorable Mention Citation as an Excellent Graduate Teaching Assistant

2003 Phay Ho
 1998 Jarod Finlay
 John Janis
 Erik Johnson
 1997 Michael Banks
 Timothy Collins
 George Cragg
 1996 Larry Moore
 1994 Jennifer Goetz
 Robert Henderson
 Dean Johnson
 John Larkin
 1993 Gami Dadusc
 Emile Ettegui
 1992 Alexei Helmbock
 George Fische
 1991 Francesco Narducci
 Michael Nichols
 1990 Sudipta Maiti
 1989 T. Kenneth Park
 Matthew Guptill
 1987 Tom Foster
 1986 Jeffrey Applegate
 Vance Cochrane
 1985 Thomas Chyba
 Sarah Eno
GradGTAAAPT

Department American Association of Physics Teachers, awarded to outstanding teaching assistant

2003 Carlos Garcia
 2002 Thomas Ohki
 2001 Patrick Morley
 2000 Joshua Hamblen
 Jose Perillan
 1999 Pablo Londero
 1998 Ben Kilminster
 1997 S. Benjamin Weiss
 1996 Miskat Bhattacharya

for students interested in government or other public service, and the Udall for students with interests in environmental issues.

The Churchill, this scholarship is for students to study at Cambridge University in engineering, mathematics, or science.

In addition to the above prizes and awards for physic and astronomy majors, there are Simeon Cheatham Award, Percy Dutton Prize, Andrew Fried Prize, Presidential Award, Eli & Mildred Sokol, Student Life Award, and S&H Terry Prize, to be nominated annually by faculty.

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Highlights of Faculty Awards

Department faculty have garnered numerous awards and honors for their research achievements. Twenty-six faculty are Fellows of the American Physical Society, five are Fellows of the Optical Society of America, and one is honorary Fellow. Department faculty include a fellow of IEEE, honorary fellows of the Optical Societies of America, India and Australia, and members of the US. National Academy of Science, the Czech Academy of Arts and Sciences, the Polish Academy.

and two are members of the US. National Academy of Science, one is a member of the National Academy of Engineering and one is a Foreign Member of the Polish Academy. Ten members of the faculty have been awarded Alfred P. Sloan Foundation Fellowships, thirteen have received Guggenheim Fellowships, five have received Fulbright Fellowships, three have been named Humboldt Senior Fellows, two have received JSPS fellowships, one has received a Ford Foundation fellowship, one has been named a Packard Fellow, two have received PPARC Fellowships (England), six have been appointed as National Science Foundation [Presidential] Young Investigators or have received NSF Career Awards, and five have been named Department of Energy Outstanding Junior Investigators.

Department faculty have received eight honorary degrees. They have been honored as recipients of the Thomas Young Medal and Prize of the Institute of Physics of Great Britain, the Edward Teller Medal, the Max Born Prize and the Towns Award of the Optical Society of America, the Frank Isakson Prize of the American Physical Society, the Albert A. Michelson Award of the Franklin Institute, the Biological Physics Prize of the American Physical Society, the Panofsky Prize (in Particle Physics) of the American Physical Society (won by two members of our department in 1999 and 2004), the first JARI Award of the International Journal of Applied Radiation and Isotopes, the Japan Nishima prize, the Gold Medal of the Czech Academy, the Gold Medal of Palcky, and the Marian Smoluchowski Medal of the Physical Society of Poland. Two faculty have been awarded the Frederic Ives Medal of the Optical Society of America the Marconi Medal of the Italian National Research Council and other awards.

The department's faculty includes past presidents of the Optical Society of America and of the Astronomical Society of New York, and chairs of major divisions of the American Physical Society, as well as past and present editors and associate editors of several major professional journals, including at present The Astrophysical Journal, Chemical Physics Letters, International Journal of Physics, Journal of Physical Chemistry, Laser Physics, Optics Communications, Optics Letters, Photochemistry and Photobiology, Quantum Optics, Progress in Physics, Physical Review Letters, European Physics Journal C, Journal of Modern Optics, and Progress in Optics (past editorships include Hadronic Journal, and Optics Express and Algebra Group and Geometry, Z. Phys. C, Optical Instabilities, Contemporary Non Linear Optics, the Physical Review and other journals).

Department faculty receive frequent invitations to give lecture series world-wide. In addition, the faculty publish prolifically, averaging about 200 publications per senior faculty member, and have authored 35 textbooks (14 at the undergraduate level and 17 at the graduate level); The book PRINCIPLES OF OPTICS, by Born and Wolf's Born has been listed as one of the three most cited books in physics. The Faculty edited 67 special topics books and Conference Proceedings, including PROGRESS IN OPTICS (published by Elsevier, Amsterdam). 43 volume have been published so far and more are in preparation. Recently one of our faculty has won a national science writing award.

Twenty-two of the department faculty have won various department and college teaching and curricular awards at both the graduate as well as undergraduate level. Professor Emil Wolf has won the National 2002 Esther Hoffman Beller Award for Contribution to Optics Education from the Optical Society of America. Professor Manly has been named Mercer Brugler Distinguished Teaching Professor in the College in 2002 and Professor Judy Pipher was awarded the Universities Suzan B. Anthony lifetime achievement award for contributions to teaching and research. Seven of the teaching awards include the prestigious university wide Goergen and Curtis awards. For example, Professor Das and Wolf have won teaching awards for excellence in graduate teaching. Professors Bigelow, Das, Eberly, Ferbel, Foster, Hagen, Melissinos, Orr, Pipher, Rajeev, Teitel, Sharpless, Teitel, Tipton, Watson and Wolf have won teaching awards at the undergraduate level, and Professors Auchincloss, Bodek, Orr, and Slattery have won awards for teaching and curricular improvements at the College.

Highlights of Graduate Study and Awards to Graduate Students

In 2001, the Department of Physics and Astronomy has ranked 2nd in a

1995 P. Scott Carney

1993 Teoman Turgut

GradOkubo

The Department's Susumu Okubo Prize, awarded for the performance on the preliminary examination

2003 Phay Ho, Brijesh Prithviraj
2002 Ricardo Eusebi
2001 Govind Krishnaswami
2000 Mircea Coca
Andrew Ivanov
Jinhao Ruan
1999 Levent Akant
1998 Sergey Ponomarenko
1997 Cosmin Macesanu
1996 Greg Gbur
1995 Chi Wei Lee
1994 Han Pu
1993 Robert Henderson
Charles Freeman
1992 Marcel Franz
Teoman Turgut
1991 Tianwu Cai

GradGove

The Department's Harry E. Gove Thesis Prize, awarded to the graduate student receiving the Ph.D. degree on the basis of exceptional experimental research based in nuclear science

2000 Michael Simon
1999 Dileep Agnihotri (chemistry)
1998 Charles Freeman
1997 Diane Herrick
1996 Richard Ibbotson
1995 Mathew Devlin
Shawn Baldwin (chemistry)
1993 Michael Satteson

GradLobkowitz

The Department's Frederick Lobkowitz Thesis Prize, awarded to graduating Ph.D. student in experimental high energy, nuclear, or particle physics, whose accomplishments best reflect the high standards and exceptional quality of research of the late Prof. Frederick Lobkowitz

2002 Juan Estrada
2001 Un Ki Yang
2000 Michael Begel

GradFellowships

**International Graduate Fellowship
Fulbright**

1999-01 Pedro Quinto Su

NSF Graduate Fellowship (National)

1996-99 Michael Banks

Air Force, Army and other Fellowships (National)

2000- Elinor Irish (NPSC)
1995-02 Kent Averett (Air Force)

Industrial Fellowships

Kodak Fellowship

1998-01 Li Yan

University of Rochester Fellowships:

Sproull Fellowship

1999 Michael Banks (1999-01)
Govind Krishnaswami (1999-01)

Provost Fellowships

2003 Ryan Charmacho (2003-2008)
2002 Paul Alvarez (2002-07)
2001 Michael Holmes (2001-06)

Messersmith Fellowship

2003 Kam Kwai Clifford Chan
1999 Alexander Kuzmich

Physics and Astronomy Fellowships:

DOEd/GAANN

2004-07 Curtis DeWitt

2003-06 (11 new DoEd) Jason Nordhoas, Jonathan Carroll, Curtis Broadbent,

Nationwide survey in Overall Graduate Student Satisfaction.

In 2002, a former graduate student (Koshiba) was awarded the Nobel Prize in Physics and another became the new President Elect of the Acoustical Society of America. Our Graduate students have also won a variety of national research awards. For example Rochester students (Fitch and Yang) have won the National University Research Association Prize for best Ph.D. Thesis done at Fermilab both in 2001 and 2002 (out of about 55 PhD theses done at Fermilab each year). Eight of our graduate students have won the Astronomical Society of New York State Graduate Student Award for distinguished research paper.

Every year, the University also offers the Curtis award for teaching excellence by a graduate teaching assistant. During the past decade seven graduate TA's in physics have won this prize (F. Narducci, B. Rohit, M. Bhattacharia, B. Weiss, Jane Wesley, K. Wright and M. Houk).

Highlights of Awards to Undergraduates

Among our former undergraduates is a Nobel Laureate in Physics (Chu, 1997) Recently, one of our undergraduates won the American Physical Society's National Apker Award for best undergraduate research (Govind Krishnaswami won this \$5000 Award in 1999 and four students were selected as APS Apker Award Finalists in previous years (most recent awards \$2000 Finalist Award in 2000 and 1999),.

In Astrophysics, two students (Matthew Barczys, 2000 and Leah Bucholz in 1993) won the Astronomical Society of New York (ASNY) Undergraduate Student Prize for best research publication.

In addition, students have been nominated for and won other distinctions, such as Goldwater Scholarships and NSF Graduate Fellowships. Many undergraduates were recognized by the University of Rochester for their outstanding research. Physics women won the University Susan B. Anthony Prize in 2001 and 2002. The University of Rochester Catherine Block Memorial Fund Prize (awarded annually by the University to a woman in the junior class in recognition of her outstanding achievement in science or engineering) was awarded to Jeanne Traer (94), Denise Sawicki (97), and Laura Schmidt (02). In addition, the University of Rochester Janet Howell Clark Prize (awarded annually by the University to a senior woman for outstanding achievement in science or engineering) was awarded to physics students Jeanne Traer (95), Suzanne Galada (96), Marianne Vieira (99), and Elizabeth Strychalski (02).

Other Highlights of Our Former Students

Many of our former students are professors at major universities, several have served as leaders and directors of national laboratories, and as mentioned earlier two have been awarded Nobel Prizes in Physics (in 1997 and in 2002).

Jesse Chvojka, Justin Compareta, Jonathan Insler, Rodolfo Montez, Ross Robinson, Stephen Thorndike, James Steinman
2002-05 (7 new Fellows) John Boersma, Ivan Minchev, Edward Nelson, Benjamin Sargent, Peter Walters,
 Jeremy Wilson, Brian Winey
2001-04 (6 new Fellows) Andrew Cunningham, Margaret Drennan, Adam Harrington, Mark Houck,
 Marc Strong, Elena Vianello
2000-03 (6 new Fellows) Joel Green, Robert Gutermuth, Christopher Haimberger, Elinor Irish,
 Patrick Morley, Kevin Wright
1999-02 (9 new Fellows) Kenneth Anderson, Candice Bacon, Sarah Demers, Joshua Hamblen,
 Nazim Khan, Steven Konezny, Robert Selkowitz, E. Jane Wesely,
 Sung-Yong Yoon
1998-01 (2 new Fellows) Dawn Peterson, Stephanie Sublett
1997-00 (9 new Fellows) Gregory Davis, Jarod Finlay, John Janis, Erik Johnson, Benjamin Kilminster,
 Pablo Londero, Erin McNicholas, Kristin Nelson, Sergey Ponomarenko
 1996-99 (3 new Fellows) Robert Benson, Jeffrey Pratt, Neil Watkins
 1995-98 (3 new Fellows) Andy Bayramian, Josh Cassada, Lawrence Moore
 1994-97 (7 new Fellows) P.Scott Carney, Thomas Gardiner, Gregory Gbur, Charles Hammer, Edward Hull,
 W. Allen Neff, David Rifkin
 1993-96 (7 new Fellows) Michael Fitch, Dean Johnson, John Larkin, David May, Stuart McNaught,
 Demetrios Poullos, David Reis
 1992-95 (7 new Fellows) David Branning, Gami Dadusc, Andrea Domino, Gregory Goodno, Jeffrey Korn,
 Joseph Merchant-Both, Edward Turano
 1991-94 (8 new Fellows) Michael Begal, Dylan Casey, George Fischer, Charles Freeman,
 Alexei Helmbock, Mary Kathryn Hodel, Kirsten Kurz, Matthew Rave
 1990-93 (4 new Fellows) Timothy Collins, Emile Ettegui, Alan Fry, Betsey Pitts
 1989-92 (7 new Fellows) David Boris, Jesse Ernst, Francesco Narducci, Donald Olbris, Scott Roberts,
 Mark Swain, Gordon Watts

Marshak Graduate Fellowship

2003-05 Xhigang Ma, Daniel Schwaab, Geum Bong Yu
 2002-04 Carlos Garcia, BoYoung Han
 2001-03 Irfan Ali Khan, Ding Ding, Phay Ho, Brijesh Prithviraj, Michael Wulf
 2000-03 Ricardo Eusebi
 1998-01 Juan Estrada

Certificate in Teaching of College Physics

2004:
 2003: Jason Nordhause, E Nelson, B. Clader, B. Winey
 2002: Rachael Anderman, Mark Houck, Sungjong Woo
 2001: Edward Bielejec, Jayanthi Santhanam, Christopher Haimberger, Ilyas Yildirim, Drew Abrams
 2000: Somnath Dutta, E. Jane Wesley, Robert Selkowitz, Kenneth Anderson, Nazim Khan
 1999: Subhranil De, Dean Johnson, Subhadip Raychaudhuri, Eric Page, Jose Perillan
 1998: Serkan Zorba, Jarod Finlay, Violeta Gotcheva
 1997: Rento Ejnisman, Mishkat Bhattacharya, LiLi Tian, George Cragg
 1996: Kristin Kurz, Colin Roald, Charles Freeman
 1995: Diane Herrick, Teoman Turgut, Robert Henderson