Paul Robinson

Background and Experience

Education

- BA in Physics, University of California, Santa Barbara, 1973
- Secondary Credential, Physical Science/Math, California State University, San Jose, 1974
- MA in Physics, California State University, Fresno, 1984
- Coursework consisted of Advanced Theoretical Physics, Electronic Measurement and Instrumentation, Thin Film Techniques, Computer Interfacing, Lasers and Uses, Elementary Particles, Space Colonization

Teaching Experience

- San Mateo High School, 1997 – present
  Physics, AP Physics
- Woodcreek High School, 1995 – 1997
  Conceptual Physics, Honors Physics, Algebra
- American River College, Sacramento, 1993 – 1995
  Physics, Astronomy, Physical Science Instructor
- Bullard High School, 1990 – 1993
  Conceptual Physics, Honors Physics, AP Physics
- American River College, Sacramento, Spring Semester, 1990
  Full-time temporary physics instructor
- Edison Computech High School, 1983 – 1989
  Physics/Physical Science/Math
- Clovis West High School, 1979 – 1983
  AP Physics/Physics/Physical Science/Math
- Los Banos High School, 1974 – 1979
  Physics/Astronomy/Math
- Part-time physics teaching experience at: California State University, Fresno; Fresno City College; City College of San Francisco; Merced College; Gavilan College; University of Nevada, Reno, Sierra College

Professional & Other Activities

- 1996-00 AAPT, Program Chairman and Historian
- 1983-07 AAPT, National Council Representative
- 1986 Recipient, AAPT "Distinguished Service Award"
- 1986-90 American Association of Physics Teachers (AAPT);
  Appointed member of National Area Committee for Physics in the High Schools
- 1982-83 AAPT, President, Northern California Section
- 1981-82 AAPT, President-Elect
- 1980-81 AAPT, Secretary
- 1978-80 AAPT, Vice-President for High Schools
- 1975 Recipient of AAPT Mini-Grant for Innovative Teachers
- Hosted two AAPT meetings—first-ever held at high schools, 1983 & 1997
- Participant at NASA Workshop for Science and Math Teachers (NEWMAST), Ames Research Center, July 8-20, 1984

- Invited Panelist at Conference on Pre-College Education
  Argonne National Laboratory, September 13-14, 1984.
- Devised curriculum and raised funds for 8-day study trip for 7 students to Cape Canaveral, November 5-12, 1984.
- Devised curriculum and raised funds for 11 students to attend a 3-day GET AWAY SPECIAL Symposium held at NASA,
  Goddard Space Flight Center, October 5-8, 1985.
- Teacher in Space Applicant, 1985.
- Founder of *Laserpoint* (1979); designed and built laser projection system capable of large scale laser graphics and displays, primarily used for educational and entertainment purposes; portable laser which operates on rechargable NiCad batteries; publisher and developer of educational software (1986-1997)
- Author of the *Laboratory Manual* to accompany Paul Hewitt's *CONCEPTUAL PHYSICS: The High School Physics Program*, Addison-Wesley Co., (authored during 1984-86) published November, 1986.
- Author of "Flying High", a Space Science Curriculum Unit, and the recipient of the "Dick Scobee Scholarship", from the California Association for the Gifted, awarded by June Scobee, February, 1987.
- Recipient of California Science Teachers Association *Excellence in Science Education Award*, 1987
- Developed and published interfacing software (25 programs), 1986-1997 that accompany the*Conceptual Physics* lab manuals. Software converts the computer into a light sensor, chronometer, thermometer, and a sonic range, provides simulations, plots and analyzes and included clip-art software for the Macintosh and IBM computers.
- California's Recipient of the *Presidential Award for Excellence in Teaching*, 1987.
- Invited Speaker at Cal-State Sonoma's "What Physicists Do" Lecture Series, April, 1988, entitled,*"Physics First!"*.
- Designated as a *Physics Teacher Resource Agent* (PTRA) by AAPT, January, 1988.
- Project Leader of "Project Physical Science" at the Lawrence Hall of Science, at the University of California Berkeley, Summer, 1989; an training program for 70 California teachers using *Conceptual Physics.*
- Consultant to Arbor Scientific for development of physics lab equipment.
- Author of *Laboratory Manual and Computer Activities* published by Addison-Wesley to accompany Sears, Zemansky, and Young *College Physics*, Beiser's *Physics*, and Jones and Childers *Contemporary College Physics* texts.
- Participant, *Particles and Interactions* workshop, SLAC, July, 1991.
- Author of the *Conceptual Physics Laboratory Manual* to accompany Paul Hewitt's *CONCEPTUAL PHYSICS,* Harper-Collins Publishers, authored during 1992, published November, 1992.
- Revised *Laboratory Manual* to accompany Paul Hewitt's *CONCEPTUAL PHYSICS: The High School Physics Program*, Addison-Wesley Co., 3rd Edition, published January, 1996.
- Organized and hosted the first *New Teacher Workshop* at NCN AAPT meetings in 1997 designed to assist and support new teachers.
- Organized a week-long "Space Week" at San Mateo High School in which all teachers presented a lesson having to do with the space program while John Glenn was in orbit guest speakers included Chris McKay and Seth Shostak. 1998

- 2003, Organized *Physics Teacher SOS*—an organization that supports new teachers with three workshops during the school year funded by the Karl Brown Foundation.
- 2005, revised the *Laboratory Manual for Conceptual Physics*, 10th Edition, published by Pearson.
- 2008, revised the *Laboratory Manual for Conceptual Physics* © 2009 published by Pearson.