

Pamela K. Harman

SETI Institute • 515 N. Whisman Road • Mountain View, CA 94043
voice: 650-960-4523 fax: 650-961-7099 email: pharman@seti.org

Current Position and Recent Programs:

Education and Outreach Manager, SETI Institute

- NASA Astrobiology Institute Lead Team EPO Staff
- NASA's Kepler Mission EPO Staff
- NASA's Stratospheric Observatory for Infrared Astronomy (SOFIA) Project EPO Staff (2000 – 2004)
- Education administration

Prior Experience:

Astrobiology for Teachers Instructor, Penn State University and University of Hawaii 2004-05

National Lead Teacher, *Evolution Project*, WGBH Boston, 2001 - present

Education Associate, SETI Institute, September 1999 – 2002

High School Science Teacher, Oceana High School, Pacifica, CA 1995 – 99

Substitute Teacher, Jefferson Union High School District, Daly City, CA 1994-95

Tech Writer, *Voyages Through Time* Curriculum Project, SETI Institute 1998-99

Steering Committee San Mateo County Biotech Education Partnership 1997-99

Earthwatch Mentor Teacher, Stanford Human Genome Center 1998

Project 2061 Curriculum Alignment Training 1998

Other Related Experience:

Engineering Student Mentor, 1987 - 90

Project Manager and Estimator, Dillingham Construction Co, Inc, Pleasanton, CA 1986-92

Project Engineer, DYN Construction Co, Martinez, CA 1984 - 86

Division Engineer, Kaweah Construction Co, Visalia, CA 1979 –84

Assistant Engineer, The Weitz Co, Des Moines, IA 1976-79

Education:

California Teaching Credential: Biology

Alternative Employed Teaching Credential Program

San Francisco State University 1997

B.S. Construction Engineering

Iowa State University 1979

Professional Memberships:

Astronomical Society of the Pacific

California Academy of Sciences

California Science Teachers Association

International Society for Technology in Education

National Association of Biology Teachers

National Science Teachers Association

Publications:

Tarter J., et al *Voyages Through Time* Integrated Science Curriculum for High School

Cosmic Evolution, Planetary Evolution, Origin of Life, Evolution of Life, Hominid Evolution and Evolution of Technology, 2003

P. Harman, E. Devore, “Learning Progressions in *Voyages Through Time*™ High School Science Curriculum and Astrobiology Summer Science Experience for Teachers (ASSET) IMD Conference Series, 2006

E. DeVore, A. Gould, D. Koch, P. Harman, “Kepler Mission Education and Public Outreach” AAS Conference Series 2003, 2006

P. Harman, E. DeVore, “Astrobiology as a Context for High School Science Teacher Professional Development” NAI General Meeting, 2005

E. DeVore, J. Tarter, Y. Pendleton, K. O’Sullivan, M. Burke, P. Harman, “Implementing Voyages Through Time in High School Science Classes” ASP Conference Series, 2005

E. DeVore, J. Tarter, Y. Pendleton, K. O’Sullivan, M. Burke, P. Harman, “Implementing Voyages Through Time in High School Science Classes” IMD Conference Series, 2004

P. Harman, E. DeVore, “Astrobiology as a Context for High School Science Teacher Professional Development” Bioastronomy Conference, 2004

E. DeVore, K. O’Sullivan, T. Madfes, P. Harman, M. Beard, “Web-based Evaluation in Curriculum Development: The Voyages Through Time Experience” IMD Conference Series, 2004

Federspiel,N.A., Palm,C.J., Conway,A.B., Conn,L., Hansen,N.F., Altafi,H., Araujo,R., Huizar,L., Rowley,D., Chen,S., Harman,P., Hicks,R., Huerta,M., Mason,S., Siepel,J., Zimmerman,M., Buehler,E., Dunn,P., Gonzalez,A., Kremenetskaia,I., Kim,C., Lenz,C., Li,J., Liu,S., Luros,S., Schwartz,J., Shinn,P., Toriumi,M., Vyotskaia,V., Walker,M., Yu,G., Ecker,J., Theologis,A. and Davis,R.W. Entrez Nucleotides Arabidopsis thaliana chromosome BAC F3N23 genomic sequence Accession: AC008017 1999
<http://www.ncbi.nlm.nih.gov:80/entrez/query.fcgi?CMD=Display&DB=nucleotide>

Recent Talks, Short Courses and Workshops Conducted:

Voyages Through Time, educator workshop and short course, CSTA and NSTA, 1999 to present
Origin of Life, educator workshop, and short course, CSTA and NSTA, 1999 to present
Evolution of Life, educator workshop and short course, CSTA and NSTA, 1999 to present
Hominid Evolution, educator workshop and short course, CSTA and NSTA, 1999 to present
Life in the Universe Series short courses and workshops, CSTA and NSTA, 1999 to present
Evolution of Life, educator workshop and short course, NABT, 2000 to present
Hominid Evolution, educator workshop and short course, NABT, 2000 to present
Life in the Universe Series short courses and workshops, NABT, 2000 to present
The Evolution Project, short courses for educators, NABT, 2000 to present
Biotechnology educator workshops, CSTA and San Mateo County Office of Education 1998 -99
What is SETI? public talks, 2000 to present
Biotechnology and the California Science Standards, 2000