



DR. PHILIP JOHN PEPE

**Tropical Ecology Adventure Learning in Australia
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EDUCATION

Ph.D. (Biology)	1983	University of Southern California, Los Angeles, CA Major Emphasis: Marine Population Biology, Bioerosion
M.S. (Biology)	1981	University of Southern California, Los Angeles, CA Major Emphasis: Marine Animal Behavior, Activity Rythms
B.S. (Biology)	1975	State University of New York, Stony Brook, NY Major: Biology and Minor: Anthropology

FIELD GUIDE/ORGANIZER

Leader / Organizer 1985 to Present Programs: Teacher's Workshops Tropical Field Ecology Coral Reef Ecology Marine Parks Underwater Research	Sponsors: Tropical Ecology Adventure Learning, Qld, AU Great Barrier Reef Institute, Queensland, AU Phoenix College, Phoenix, AZ ReefWatch Expeditions, Phoenix, AZ Oceanic Society Expeditions, San Francisco, CA School for Field Studies, Beverly, MA California State University, Northridge, CA University of California, Los Angeles, CA Mesa Community College, Mesa, AZ Glendale Community College, Glendale, AZ Los Angeles City College, Los Angeles, CA	Host Countries: Australia Bahamas Belize British Virgin Islands Guatemala Honduras Jamaica Mexico Netherlands Antilles U.S. Hawaii U.S. Virgins Islands
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RESEARCHER

Independent Research 1982 to 2000	University of Hawaii, Hilo The Nature Conservancy, AZ Phoenix College, Phoenix, AZ Phoenix College, Phoenix, AZ University of Utah, SLC, UT	✓ Echinoderm Community Analysis ✓ Effects of fire and herbivory on flora ✓ Visual Census of Coral Reef Fish Populations ✓ Fecal Intestinal Bacteria as Pollution Indicators ✓ Bacterial Adhesion and Invasion in Human Tissues
Graduate Research 1978 to 1983	University of Southern California, LA, CA	✓ Mathematical Modeling of Bioerosion Rates ✓ Morphometric Analysis of Invertebrates ✓ Tropical Limestone Cryptofauna ✓ Circalunadian Clocks of Invertebrates

TEACHER

Adjunct Faculty 2009 to present	Phoenix College, Phoenix, AZ	Courses Taught: Marine Biology Coral Reef Ecology Field Ecology
Tenured Faculty 1984 to 2009	Phoenix College, Phoenix, AZ	Courses Taught: General Biology Microbiology Marine Biology Coral Reef Ecology Field Ecology Environmental Biology Natural History
Faculty Associate 1988 to 2001	Coconino Community College, Flagstaff, AZ Northern Arizona University, Flagstaff, AZ Arizona State University, Tempe, AZ Arizona State University West, Phoenix, AZ Maui Community College, Kahului, HI University of Hawaii, Hilo, HI	Courses Taught: Microbiology Invertebrate Zoology General Biology Oceanography Ecology of Urban Parks Natural History of Arizona Coral Reefs Tropical Marine Research Underwater Research

PUBLICATIONS

- Pepe, P.J. 1996. Laboratory Guide-Biology 182, Biology for Majors II, RonJon, Denton, TX. 193 pp.
- Pepe, P.J. et al. 1994. A New Visual Censusing Technique for Enumerating Large, Day Active Reef Fishes. Proceedings of the 26th Meeting of the Association of Marine Laboratories of the Caribbean, Bahamian Field Station San Salvador, Bahamas. pp. 197-223.
- Pepe, P.J. 1985. Littoral Endolithic Fauna of the Central American Isthmus. *Revista de Biologia Tropical* 33(2), pp. 191-194.
- Pepe, P.J. and S.M. Pepe. 1985. The Activity Patterns of *Onchidella binneyi* Stearns (Mollusca: Opisthobranchia). *Veliger* 27 (4), pp. 375-380.
- Kennedy, J.R., L.H. Jones, W.M. O'Malley, P.J. Pepe, and P.C. Tate. 1985. Laboratory Guide-Biology 181, Biology for Majors I, 3rd Edition, Gorsuch Scarisbrich, Scottsdale, AZ 105 pp.

SOFTWARE DEVELOPMENT

- Pepe, P.J. 1995. Dissection of the Dogfish. Unpublished.
- McKay, D. and Pepe, P. J. 1993. Dissection of the Fetal Pig. W.C. Brown.
- Pepe, P. J. and McKay, D. 1992. Coral Reef Stratification. W C Brown.
- McKay, D., Rosati, M. and Pepe, P. J. 1992. Cell Reproduction. W. C. Brown.

COMPUTER OPERATOR

Internet Course Development and Delivery 1997 to present	Phoenix & Rio Salado Colleges, Phoenix, AZ	<ul style="list-style-type: none"> ✓ Produced and taught online courses in marine biology, biology concepts, and human biology that include both lecture and virtual lab exercises.
Web Site Development 1998 to present	Phoenix College, Phoenix, AZ The Nature Conservancy, Flagstaff, AZ	<ul style="list-style-type: none"> ✓ Produced and maintained a website for International Ed. courses in Australia ✓ Produced and maintained a website for the Northern Arizona office including a virtual tour of the Hart Prairie Preserve.
Statistical Analysis 1979 to 1997	Phoenix College, Phoenix, AZ UU Medical Center, SLC, UT USC, Los Angeles, CA	<ul style="list-style-type: none"> ✓ Analyzed plant census data with Microsoft Excel. ✓ Analyzed echinoderm community data with Microsoft Excel. ✓ Analyzed reef fish census data with SAS JUMP for Mac PC. ✓ Statistical Analysis of bacterial adhesion data using an HP3000 computer and BMDP programs. ✓ Adapted Fortran programs for use on an IBM 370 computer. Analyzed large data sets with SPSS, SAS, and BMDP.
Multimedia Presentation 1992 to 1996	Phoenix College, Phoenix, AZ Max Stacks, Phoenix, AZ	<ul style="list-style-type: none"> ✓ Produced multimedia presentations for classroom use. ✓ Authored Director Movies using video frame capture and animation techniques.

ADMINISTRATOR

Program Director 2006 to 2008	Phoenix College	Environmental Science Program Geospatial Technology Program
Committee Chair 1990 to 2008	Phoenix College	MCCD Environmental Science Instructional Council Phoenix College Critical Thinking Assessment MCCD Biology Instructional Council Biology Hiring Committees Phoenix College Web Corps Phoenix College Technology Committee Arizona Biology Conference-Articulation Task Force
Committee Rep 1989 to 2008	Phoenix College	Phoenix College Distance Learning Task Force MCCD Environmental Science Instructional Council MCCD Biology Instructional Council Chemistry, Humanities, Library Hiring Committees Phoenix College Science Building Design Committee Association of Marine Labs of the Caribbean Arizona Biology Conference-Articulation Task Force Arizona-Nevada Academy of Science
Department Chair 1990 to 1997	Phoenix College	Phoenix College Biology Department, Phoenix, AZ

NON-PROFIT VOLUNTEER

Reef Check Australia 2009	Reef Check Australia Townsville, QLD	Coral Reef Survey
Audubon Society AZ 2005-2009	Audubon Society, AZ State Office, Phoenix, AZ	Rio Salado Project Field Education Education Center Design Committee Science Committee
AZ Project Wet 2006-2009	AZ Cooperative Extension, UA, Tucson, AZ	Teacher Trainer
The Nature Conservancy 1998-2000	The Nature Conservancy, N. AZ Office, Flagstaff, AZ	Hart Prairie Tour Facilitator Website developer Research Assistant

GRANTS

Co-PI/AZ Rivers	2007- 2008	Science Foundation AZ
Co-PI/STEM	2007- 2008	NSF
PI/ Teaching and Learning Community for GIS	2007	T&L
PI/Science Alliance Learning Community	2006-2007	MCLI
PI/Biology Teachers Workshop in Australia	2006	FPG
PI/Rio Salado Important Bird Area Nomination	2006	WAESO
PI/Teaching and Learning Community for Pre-Professionals	2005-2006	T&L
PI/Geospatial Technology Workforce Development Program	2005-2006	Proposition 301
PI/Environmental Science Learning Community	2002	T&L
PI/Biology Teachers Workshop in Australia	2002	T&L Summer Project
Participant /Strengthening Hispanic Institutions	2001	Title V

AWARDS & RECOGNITION

Twenty Five Year Service	2009	Phoenix College
Distinguished Teacher Award	2007	Phoenix College
Sabbatical	2005-2006	Audubon AZ
Sabbatical	1998-1999	The Nature Conservancy AZ
Excellence Award	2005, 1992	NISOD
Ten Year Service to Honors Program	2003	Phoenix College
Faculty of the Year	1990	Phoenix College

SPECIAL SKILLS

SCUBA Certifications:

Open Water, 1980
Research, 1988
Advanced, 1993
Oxygen First Aid, 1995
Rescue, 1996
Divemaster, 1998

Coral Reef Conservation, 2002
Emergency First Response, 2009
Dive Instructor, 2009
Underwater Naturalist, 2009
Enriched Air, 2009
Coral Reef Survey, 2009

Photography:

Micro- and Macro-photography
Underwater Video photography
Video Editing

REFERENCES

Mark Rosati

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Phoenix College
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