

# Dr. Bill Wiecking

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## Education

- Ph.D. **Physiology/Neuroscience**, University of Hawaii Manoa, 2002
- M.Ed. **Philosophy of Education**, University of Hawaii Manoa, 1988
- B.A. **Physics**, University of California Berkeley, 1981

## Experience

- Directory, HPA Energy Lab present
- Instructor, AP Environmental Science, AP Physics 2000-present
- Educational Outreach Director, Maui High Performance Computer 1998-2001
- Instructor, University of Hawaii: Physiology, Physics, Chemistry 1990-1998

## Publications/Presentations

- MacWorld Presenter: Wireless Network Security 1998-present
- GIS presentations, various 1990-present
- Hypoxic Amnesia at Altitude, Doctoral Dissertation 1990-2004

## Research Experience

- Crayfish axon patch clamp sodium channel study, Bekesy Lab 1990-1994
- Wireless network field development, Denali National Park 2004
- iBoat wireless research platform development 2006-present

## Teaching Experience

- Instructor, AP Environmental Science, AP Physics 2000-present
- Instructor, University of Hawaii: Physiology, Physics, Chemistry 1990-1998
- Instructor, Hawaii Loa College, Physiology, Chemistry 1988-1991
- Instructor, Punahou Academy, Physics, Chemistry 1984-1988

## Professional Development

- AP workshops: Physics, Environmental Science 2002-present
- Presentations at international educational conferences 1990-present
- Presentations at international technical conferences 1990-present

### **Affiliations/Memberships**

- College Board AP instructor membership 1990-present
- National Science Teacher Association 1990-present
- American Assoc. of Physics Teachers, past president, Hawaii chapter 1990-present

### **Interests**

- Remote monitoring and classroom extension via wireless field deployment
- HPA energy lab design, construction, implementation, curriculum development
- Alternate energy resources: development, technology, assessment

### **Experience**

- 29 years as educator in the state of Hawaii
- Voted “Top 50 innovators in technology, State of Hawaii, 2005