

# VÉRONIQUE ROBIGOU

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## Academic Preparation

M.S., Geology, UCLA, California, **1984**

B.S., Geology, Université des Sciences Paul Sabatier, Toulouse, France, **1981**

## Awards and Honors

University of Washington Service Award, **2003**

College of Ocean and Fishery Sciences Service Award, University of Washington, **1999**

Marine Education Award, National Marine Educators Association, **1998**

Outside the Classroom Marine Educator of the Year, Northwest Aquatic and Marine Educators, **1998**

Teaching Assistant of the Year, University of California, Los Angeles, Department of Earth and Space Sciences, **1983**

Research Assistantship, White Mountain Research Center, California, **1982-1983**

Study Abroad Merit Fellowship, Ministère des Affaires Étrangères, France, **1975-1976**

## Professional Experience

*School of Oceanography, University of Washington*

Research Scientist-Engineer 4, **2003-2006**

Research Scientist-Oceanographer III, **1992-2003**

*National Center for Science Literacy, Education and Technology, American Museum of Natural History, New-York*

Consultant and scientific advisor, Science educational projects, **1998-2002**

*Southampton Oceanographic Centre, Mid-Ocean Ridge Processes*

Consultant, Sonar and submersible imagery interpretation, **1996**

*Applied Physics Laboratory (UW) and BDM Corporation, Washington, DC*

Geologist on diving cruises (Jul.90, Jul-Sept. 91, Apr. 92), **1990-1992**

*School of Oceanography, University of Washington*

Research Scientist, Oceanographer II, **1987-1992**

*COMINCO-France, Paris, France*

Geologist, **1986-1987**

*White Mountain Research Center, Bishop, California*

Research assistant, **1982**

*SNEA-P, Société Nationale Elf Aquitaine-Production, Division of Mines, Pau, France*

Research Analyst, **1978**

## Research Sea-going Experience

**2005** REVEL director on Thompson TN183-184 (Sept. 15-27, 2005), Endeavour Segment of Juan de Fuca Ridge, VISIONS'05 project. (4 teachers at sea plus 1 mentor)

- 2004** REVEL director on Atlantis 11-14 (June 14-July 13, 2004), Endeavour Segment of Juan de Fuca Ridge, Sea Breeze project. (7 teachers at sea plus 1 mentor)
- 2003** REVEL director and geologist on Thompson TN-159 (July 21-August 25, 2003), Juan de Fuca Plate, Keck-Neptune Endeavour-Nootka cruise. (4 teachers at sea plus 3 mentors)  
REVEL director and geologist on Thompson TN-157 (June 18-July 2, 2003), Juan de Fuca Plate, Sulfide inserts cruise. (3 teachers at sea)
- 2002** Geologist on Thompson-EM300 TN146 (May 14-21, 2002), Juan de Fuca Plate, Keck-Neptune Endeavour-Nootka mapping cruise.  
REVEL director (five teacher-mentors at sea).
- 2000** Geologist and diver on Atlantis-Alvin 03-56 (September 2-September 19, 2000).  
REVEL co-director (four teachers at sea). Juan de Fuca Ridge, Main Endeavour hydrothermal vent field, Endeavour Segment.
- 1999** Geologist and diver on Atlantis-Alvin 03-38 (August 23 - September 6, 1999).  
REVEL co-director (eight teachers at sea). Juan de Fuca Ridge, Main Endeavour, Mothra and High-Rise hydrothermal vent fields, Endeavour Segment.
- 1999** Geologist and watch leader on Thompson-ROPOS ROV TN095 (July 15 - July 23, 1999).  
REVEL co-director (four teachers at sea). Juan de Fuca Ridge, Mothra and High-Rise hydrothermal vent fields, Endeavour Segment.
- 1998** Geologist and diver on Atlantis-Alvin 03-24 cruise (July 29 to August 9, 1998).  
REVEL co-director (eight teachers at sea). Juan de Fuca Ridge, Main Endeavour and High-Rise hydrothermal vent fields, Endeavour Segment.
- 1998** Geologist and watch leader on EdRex 98 Thomas G. Thompson-ROPOS cruise (June 26 to July 18, 1998).  
REVEL co-director (eight teachers at sea). Juan de Fuca Ridge, Mothra hydrothermal vent field, Endeavour Segment.
- 1997** Watch leader and diver on Atlantis-Alvin-Jason 03-7 cruise (September 6 - September 26, 1997).  
REVEL co-director (two teachers at sea) and web site mistress. Juan de Fuca Ridge, Hydrothermal vent fields, Endeavour Segment.
- 1996** Geologist on Thomas G. Thompson-ROPOS cruise (August 12 - August 27, 1996).  
REVEL program liaison between scientists and teachers (nine teachers at sea). Juan de Fuca Ridge, Hydrothermal vent fields, Endeavour Segment.
- 1995** Geologist and diver on Atlantis II leg 132-8 cruise (May 25 - June 19, 1995). Juan de Fuca Ridge, Endeavour Segment.
- 1993** Co-chief scientist with Dr. R. Ballard in the Jason Project IV cruise (February 20 - March 14, 1993). Guaymas Basin, Sea of Cortez, Mexico. Scientific and Educational Project sponsored by the Jason Foundation for Education and the National Science Foundation.  
Geologist using the Jason-Medea remotely operated vehicles and TURTLE submersible to study hydrothermal vents in the Southern Trough of the Guaymas Basin.  
Diver on TURTLE dive 718-93 (February 22, 1993)  
Watch leader for Jason/Medea operations (February 23 - March 13, 1993).
- 1992** Coordinator and diver in the Laney-Chouest - Turtle cruise (April 26 - May 10, 1992). Juan de Fuca Ridge, Endeavour Segment.

- 1991** Coordinator, assistant chief scientist and diver on the Atlantis II-Alvin 125-32 cruise (September 10-28, 1991). Juan de Fuca Ridge, Hydrothermal Vent Fields on Endeavour Segment.
- 1991** Coordinator, assistant watch leader in the M/V Laney Chouest/ Jason-Medea cruise (July 28 - August 16, 1991). Juan de Fuca Ridge, Endeavour Segment.
- 1991** Coordinator, assistant chief scientist and diver on the Atlantis II-Alvin cruise 125-29 (July 9-31, 1991). Juan de Fuca Ridge, Hydrothermal Vent Fields on Endeavour Segment.
- 1990** Geologist on the M/V Laney Chouest/SeaCliff cruise (July 12-19, 1990). Juan de Fuca Ridge, Hydrothermal Vent Fields, Endeavour Segment.
- 1989** Geologist (dredging) on the Wecoma W8907A cruise (July 24-August 6, 1989). Juan de Fuca Ridge, Heck and Heckle Seamount chains.
- 1988** Geologist and diver on the Atlantis II-Alvin cruise 118-37 (July 6-28, 1988). Juan de Fuca Ridge, Hydrothermal Vent Field on Endeavour Segment.

### **Submersibles and remotely operated vehicles experience**

Experienced observer and diver as a result of 24 dives on DSV ALVIN, U.S. Navy DSV TURTLE, and U.S. Navy DSV SEACLIFF  
 Experienced watch leader of Medea-Jason and Jason 2 ROV systems and Canadian ROPOS platform.

## **Professional Activities**

### Professional Societies:

American Geophysical Union  
 Geological Society of America  
 American Women Geoscientists  
 National Marine Educators Association  
 National Science Teachers Association

### Committees and Panels

- 2005-2006**
- COSEE Network Council Member
  - Committee University of Washington P-20 Math and Science Institute
  - Panel Member University of Washington, Career Week
- 2003-2004**
- Advisory board member, "Teachers Experiencing Antarctica and the Arctic" (TEA) NSF-funded program.
- 2002-2003**
- Advisory committee member, Education and Outreach, RIDGE 2000 program
- 2002**
- Feasibility working group member, Jason Project in the Northwest, Seattle Aquarium Society.
  - Review panel member for NSF- Directorate of Geosciences, Division of Ocean Sciences, Centers for Ocean Sciences Education Excellence (COSEE), April.
  - Review panel member for NSF- Directorate for Education and Human Resources, Teacher Enhancement Program, pre-proposals, June.
  - Panel member, ASLO workshop, "Strategies for developing an effective outreach program", Victoria, BC, June.
  - Panel member, NOAA Outreach, Ocean and Atmosphere Research Workshop, June.
- 2000**
- Steering committee member, COSEE - Center for Ocean Science Education Excellence, National Science Foundation
- 1999**
- Review panel member for NSF- Directorate for Education and Human Resources, Teacher Enhancement Program.

## Educational Involvement - Synergistic Activities

- 2006**
- Director, COSEE-Ocean Learning Communities
  - Coordinator, Washington State Ocean Sciences Bowl.
  - Presenter, GIFT workshop "The Ocean: Some Things Every Student Should Know", 2006 Oceans Meeting, Honolulu, February.
- 2005**
- Live Web and TV broadcasts hostess, UWTV, "VISIONS 2005 expedition: Underwater Volcanoes of the Northeast Pacific, Sept. 28 and 29, 2005. <http://www.researchchannel.org/visions05/>
  - Co-Editor, Current, the Journal of Marine Education, Special Issue "Deep Hydrothermal Vents"
  - Coordinator Washington State Ocean Sciences Bowl.
- 2004**
- Scientific Advisor, RIDGE 2000, SEAS "Student Experiment At Sea" curriculum and program
  - Scientific Advisor, AMNH, Ocean Systems on-line Course
- 2002-2003**
- Director, REVEL Project, Research and Education: Volcanoes, Exploration and Life.
  - Co-Director, Marine Exchange Language Scholarship Program, U.S-European Community Universities Consortium.
- 2003**
- Organizer, presenter, Teacher Education workshop "In-depth Exploration of the Juan de Fuca Plate, Northeast Pacific Ocean, with the REVEL Project", GSA 2003, Seattle, November.
- 2002**
- Co-organizer, presenter, GIFT workshop "Explorations in Poseidon's Crucible: Volcanic, Tectonic, Hydrothermal, and Biological Processes of Mid-Ocean Ridges", AGU Fall 2002, San Francisco, December.
  - Co-organizer and lecturer, Bridge Course, multilingual marine sciences summer course, Eckerd College, St Petersburg, Florida, August.
  - Co-organizer and presenter at "Exploring the Deep with Teachers" Workshop, Mystic, CT, July.
- 2000-2002**
- Scientific Advisor, Instructional Web Material Development, National Center for Science Literacy, Education and Technology, American Museum of Natural History, New-York. [http://www.amnh.org/education/resources/special\\_collections.php](http://www.amnh.org/education/resources/special_collections.php)
  - Member, Marine Exchange Language Program, International curriculum development consortium Eckerd College, FL, University of Washington, WA, University of Hawaii at Hilo, HI, Université de Liège, Belgium, Université de la Rochelle, France and Universidad de Las Palmas de Gran Canaria, Spain. Science and Language Advisor, Student Counselor and Lecturer.
  - Scientific Advisor, "DEEP SEA The Ride", a Virtual show produced by SimEx-Iwerks for aquaria and museums.
- 2001**
- Member, Sea Grant Education and Human Resources Theme Team, Sea Grant.
- 1999-2000**
- Scientific Advisor, "Volcans" CD-ROM, Anne-Marie Perez producer, Toulouse, France.
- 1999**
- Délégation des Alliances Françaises USA, Distinguished Speakers Lecture Series, Missoula, Montana; Denver, Colorado; Pasadena and Los Angeles, California; Birmingham, Michigan.
- 1998-2000**
- Member, "Learning Community", National Center for Science Literacy, Education and Technology, American Museum of Natural History, New-York.
  - Scientific Advisor, Deep-Sea Vents Instructional Materials Development Group, National Center for Science Literacy, Education and Technology, American Museum of Natural History, New-York.

- 1998-1999** • Scientific Advisor, Susan K. Lewis producer, WGBH Boston, Public Broadcasting, NOVA program “Volcanoes of the Deep”
- 1997-2001** • Co-Director, REVEL Project, Research and Education: Volcanoes, Exploration and Life.
- 1997-2002** • Instructional Web, REVEL Project, design, construction and maintenance of web site <http://www.ocean.washington.edu/outreach/revel> and lecturer for middle and high school science teachers.
- 1996** • Co-Initiator and facilitator of REVEL Project, a science teacher educational and outreach program.
- 1995** • Advisory Board Member for the Master3s Network Program (Seattle Pacific University), an educational program linking science teachers and scientists in the Puget Sound area.
- 1994-1998** • Collaboration and scientific advisor for the book “Sea-Fari Deep” by Nancy Woodman, 1999, National Geographic Society.
- 1994-1998** • Collaboration with 12th grade science teachers, Snohomish High School, Washington. Curriculum development.
- 1994-1996** • Volunteer member and science partner for science teachers in the Master3s Network Program (Mathematics and Science Teaching Excellence through Resources, Renewal, Research and Services), Seattle Pacific University.
- 1993-1994** • Co-Chief scientist and Argonaut mentor on Jason Project IV cruise, Guaymas Basin, Sea of Cortez, Mexico.
- 1989-2003** • Volunteer lecturer and science partner for grade, middle and high schools, colleges and marine sciences education institutes. (10 presentations per year on average. Ex: In 1998, 27 presentations to groups ranging from 3rd graders to retired citizens both in the US and France).

### **Students and K-12 Teachers Supervised**

#### **Students:**

Thirty undergraduate students from France, Belgium, Spain, and US, Marine Exchange Language Program Scholars 2000 through 2004.

Michele Sacha, UW, 2003-2004, College of Arts and Sciences

Ted White, UW, 2002, School of Oceanography

Kaitlin Hope, UW, 1999, NASA Summer Fellow, Department of Zoology

Jennifer Muller, UW, 1997-2000, School of Oceanography

#### **Science Teachers:**

Diane Nielsen, Teacher, 1999-2000, Mercer Island High School, Seattle, Washington

Midge Yergen, Teacher, 1998-2005, West Valley Middle School, Yakima, Washington

Tom Lee, Teacher, 2002-2005, Columbia Adventists Academy, Battle Ground, Washington

Kathleen Heidenreich, 1996-2005, Chinook Middle School, Lacey, Washington

Ruth Cruz, 1999-2005, Tolt Middle School, Carnation, Washington

Kathie Robertson, 1998-2005, Stanwood Middle School, Camano Island, Washington

Sandra Ivey, 1998-2004, Bangor Area Senior High School, Bangor, Pennsylvania

David Randle, 2004-2005, Beacon School, New-York City, New York

Seventy three elementary to high school science teachers from California, Georgia, Idaho, Massachusetts, Minnesota, New York, New Jersey, Oregon, Pennsylvania, Washington, Wisconsin, and Canada between 1996 and 2006.