

**ANGELOS K. HANNIDES, PH.D.**  
**CURRICULUM VITAE**

**Contact Information**

**Associate**     ***Oceanography Center, University of Cyprus***  
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**Internet**     <http://www.cybaes.org/hannides/>

**Personal information**

**Gender**     Male  
**Date of Birth**     25 March 1974  
**Place of Birth**     Nicosia, Cyprus  
**Citizenship**     Cypriot  
**Marital status**     Married

**Education**

**Ph.D.**     ***University of Hawai'i at Manoa, May 2008***  
Biological Oceanography Division, Department of Oceanography,  
School of Ocean and Earth Science and Technology (SOEST)  
Degree title: Oceanography  
Dissertation title: Organic matter cycling and nutrient dynamics in  
marine sediments  
Advisors: Francis J. Sansone, Craig R. Smith

**M.Sc.**     ***State University of New York at Stony Brook, August 2001***  
Marine Sciences Research Center  
Degree title: Marine Environmental Sciences  
Thesis title: The impact of biogenic organic matrices on early diagenetic  
processes in marine sediments  
Advisor: Robert C. Aller

**B.Sc.**     ***University of Miami (Florida), December 1997***  
Undergraduate Marine and Atmospheric Sciences Program  
Degree title: Marine Science – Biology (Departmental Honors)  
Major specialties: Marine Science, Biology  
Minor specialties: Chemistry, Mathematics  
Advisors: Daniel DiResta, Donald B. Olson, Kathleen M. Sullivan

## Honors

- 2008** Selected participant, XXI Symposium on Dissertations in Chemical Oceanography (DISCO XXI), U.S. National Science Foundation / U.S. National Oceanic and Atmospheric Administration.
- 2003** Selected participant, Mineralogical Society of America-Geochemical Society Biomineralization Short Course.
- 2003** Dai Ho Chun Fellowship, Graduate Division, University of Hawai‘i (declined)
- 2001** Student Conference Travel Award, Marine Sciences Research Center, SUNY at Stony Brook
- 1998** Center Graduate Scholar Award, MSRC, SUNY at Stony Brook
- 1997** Who’s Who in American Colleges and Universities
- 1997** Phi Kappa Phi
- 1997** Provost’s Honor Roll, University of Miami
- 1996** Golden Key National Honor Society
- 1995-97** U.S. National Dean’s List
- 1994-95** Provost’s Honor Roll, University of Miami
- 1994** President’s Honor Roll, University of Miami
- 1994** Alpha Lambda Delta Undergraduate Honor Society
- 1994-97** College of Arts and Sciences Dean’s List, University of Miami
- 1994-97** J. F. Pearson Scholarship for undergraduate studies, University of Miami
- 1994-97** Fulbright Cyprus-American Scholarship Program Award for undergraduate studies
- 1991** Gold Award – Duke of Edinburgh Award Scheme

## RESEARCH

### Research Interests

Benthic ecosystem function, permeable sediment biogeochemistry and biodiversity, animal-sediment interactions, benthic-pelagic matter-and-energy coupling, large organic falls and other chemosynthetic habitats, deep-sea habitats and biodiversity, early diagenesis in marine sediments.

### Research Experience

#### ***Since 10.2007***

Marine Environment Division  
Department of Fisheries and  
Marine Research  
Ministry of Agriculture, Natural  
Resources and Environment  
Republic of Cyprus

#### ***Fisheries and Marine Research Officer***

##### ***Assessment of the impacts of open sea aquaculture on the marine food web***

Using stable isotope tools, we study the dispersal of fish feed and nutrients from aquaculture units and their exploitation by the surrounding food web. I design sampling schemes and schedules for field campaigns, process samples in the laboratory, and help process data and interpret results. Funding: U.S. Fulbright Commission, Republic of Cyprus.

#### ***05.2006 – 09.2007***

Department of Oceanography  
School of Ocean and Earth  
Science and Technology  
University of Hawai‘i

#### ***Research Assistant***

##### ***Organic matter cycling and nutrient dynamics in permeable sediments***

Through laboratory experiments using conventional as well as specially designed methods, I explored aspects of the temporal and spatial scales of metabolic diversity of permeable (sandy) sediments, and the ability of microbiota to decompose trapped organic material and store or burn the generated nutrients. Funding: U.S. National Science Foundation (NSF) (OCE-0327332, OCE-0536616).

##### ***Large organic fall processing by deep-sea benthopelagic communities, and the role of fall quality***

In this on-going work, I investigate the processing of large organic falls in the deep sea, such as whales, wood, and kelp, by specialist communities (e.g., scavengers, borers, etc.). I use field data-driven modeling to simulate the rise of conditions that favor the establishment of chemosynthetic communities.

##### ***Characterization of coral reef sedimentary microbial communities***

We investigated spatial scales of metabolic diversity in coral reef sediments and relationships with biogeochemical conditions. I assisted with sampling and in situ sample analysis, and with field logistics. Funding: U.S. NSF (OCE-0327332, GEO-0311912).

**12.2006**

Department of Oceanography  
School of Ocean and Earth  
Science and Technology  
University of Hawai'i  
and  
Oceanography Center  
University of Cyprus

**Research Observer**

***Mediterranean seamounts***

As an observer on behalf of Cyprus (through the Oceanography Center of the University of Cyprus), I participated in a cruise to the Anaximenes Seamount in the north-eastern Mediterranean. During the expedition, I recovered a population of over 150 wood-boring amphipods from a wood fragment trawled from this seamount, perhaps the first discovery of its kind in the Eastern Mediterranean. Funding: Deutsche Forschungsgemeinschaft, Bundesministerium für Bildung und Forschung, Republic of Cyprus.

**05.2004 – 08.2005**

Department of Oceanography  
and  
Department of Geology and  
Geophysics  
School of Ocean and Earth  
Science and Technology  
University of Hawai'i

**Research Assistant**

***Development of a microcosm for the experimental study of permeable sediment biogeochemistry and biodiversity***

I designed, constructed and tested a special microcosm system that allows the incubation of meter-deep permeable sediment columns under controlled physical forcing. This resulted in a simple and affordable platform for studying sedimentary microbial dynamics. Funding: U.S. NSF (GEO-0311912).

***Characterization of coral reef sedimentary microbial communities***

We investigated spatial scales of metabolic diversity in coral reef sediments and relationships with biogeochemical conditions. I assisted with sampling and in situ sample analysis, and with field logistics. Funding: U.S. NSF (GEO-0311912).

**06 – 08.2003**

Department of Oceanography  
School of Ocean and Earth  
Science and Technology  
University of Hawai'i

**Research Assistant**

***Surface ocean primary production dynamics in the Pacific Ocean and the Bering Sea***

I conducted shipboard measurements of chlorophyll and dissolved ammonium, and assisted with plankton incubation experiments and sediment flux measurements for the CHALK (Coccolithophorids, alkenone-containing heptanones) project. Funding: U.S. NSF (OCE-0094637).

**05.2002 – 06.2003**

Department of Oceanography  
School of Ocean and Earth  
Science and Technology  
University of Hawai'i

**Research Assistant**

***Deep-sea biogenic chemosynthetic communities***

In marine sediments surrounding natural and experimental whale, kelp and wood falls I measured dissolved sulfide, organic carbon and total nitrogen. I explored their spatial and temporal distribution and relation to fall type, which elucidated the flow of large organic fall material through the surrounding ecosystem and how it may lead to the rise of chemosynthetic communities. Funding: National Undersea Research Center (NURC) Alaska, U.S. NOAA.

***Relationships among trophic structure, bioturbation, and organic matter preservation across the oxygen-minimum zone on the Indus margin***

I participated in a cruise which aimed to study benthic ecology and biogeochemistry across a gradient of shelf bottom oxygen concentrations. During the expedition, I sub-sampled sediment and conducted X-radiography and radioisotope analysis to quantify sediment mixing rates by benthic fauna. Funding: U.K. Natural Environment Research Council (NERC) (NER/A/S/2000/01383), and U.S. NSF (INT-0227511).

**05.1999 – 08.2001**

Marine Sciences Research Center  
State University of New York at  
Stony Brook

**Research Assistant**

***Animal-sediment interactions: the impact of biogenic organic matrices on early diagenetic processes in marine sediments***

I conducted various laboratory experiments which explored the impact of biogenic materials (worm burrows and snail slime) on microbial dynamics and solute diffusion in marine sediments. Funding: U.S. NSF (OCE9730933, OCE0117062).

***Diagenetic processes in river-ocean margins: the Gulf of Papua deltaic complex (TROPICS project)***

The TROPICS project aimed to assess how abundant material from tropical rivers is distributed and cycled by the receiving communities. As a field research assistant, I examined biogeochemical processes, such as rates of oxygen uptake and carbon-dioxide release by the benthic community, and sediment mixing (bioturbation) rates by benthic fauna. Funding: U.S. NSF (OCE 9818574).

***Long Island Sound summertime hypoxia study***

I conducted field research to assess the impact of summer hypoxia on benthic biotic oxygen uptake and macrofaunal bioturbation rates.

**01 – 05.1999**

Marine Sciences Research Center  
State University of New York at  
Stony Brook

**Graduate researcher**

***Flux measurements from sandy coastal sediments using benthic chambers***

I produced a study for the design of benthic chambers suitable for measuring fluxes of nutrients into and out of sandy sediments, by incorporating components that allow the hydraulic connection between natural physical forcing and the fluid contents of the chambers.

**08 – 12.1997**

Department of Biology  
and  
Rosenstiel School of Marine and  
Atmospheric Science  
University of Miami, Florida

**Undergraduate researcher**

***Biological synopses of commercially important fish***

I drafted biological synopses and identification keys, for groupers of the genus *Epinephelus* found in the Mediterranean Sea, and for the swordfish, *Xiphias gladius*.

## TEACHING

### Teaching Experience

**08.2005 – 05.2006**

**08.2003 – 05.2004**

Department of Oceanography  
School of Ocean and Earth  
Science and Technology  
University of Hawai`i

#### ***Head-Teaching Assistant***

I served as the head-teaching assistant, for *Science of the Sea* (OCN 201), the introductory *undergraduate* oceanography course at the University of Hawai`i at Manoa. The course, a multi-disciplinary presentation of the marine environment, consisted of a lecture component (up to 350 students per semester) and laboratory components (7-8 groups meeting once a week). I coordinated the activities of the teaching assistant group (6-8 persons), drafted lab preparation and field trip schedules, planned exam administration, exam grading and grade allocation, managed the course office operation and maintained the laboratory infrastructure. In addition, I personally taught one of the laboratory sections, prepared laboratory exercises and activities, conducted field trips, and designed and maintained a web-site with supplementary material for the students.

**01.2003 – 05.2003**

Department of Oceanography  
School of Ocean and Earth  
Science and Technology  
University of Hawai`i

#### ***Invited Lecturer***

I presented selected lectures during *Benthic Biological Oceanography* (OCN 628), a *graduate* biological oceanography course. Topics included sulfur-based chemosynthetic biomes, and the significance of dissolved organic matter uptake in marine benthos.

**08.2001 – 05.2002**

Department of Oceanography  
School of Ocean and Earth  
Science and Technology  
University of Hawai`i

#### ***Teaching Assistant***

I taught a four-hour-per-week laboratory section of *Science of the Sea* (OCN 201 – see above). I designed laboratory exercises and activities around prescribed themes of the marine sciences, as well as field activities suitable for the course. I also assisted in the lecture component of the course by administering and grading examinations, and by organizing and conducting field trips and visits.

**01.2002 – 05.2003**

Department of Oceanography  
School of Ocean and Earth  
Science and Technology  
University of Hawai`i

#### ***Course webmaster and web designer***

I designed web-sites and instructed assistants on web-site development for educational purposes. The developed web-sites included on-line aids for courses (e.g., *Science of the Sea* Lecture and Laboratory, *Global Environmental Change Discussions*, etc.), as well as degree and certificate programs (e.g., *Global Environmental Science*, *Graduate Ocean Policy Certificate*).

**06-07.1999**

**06-07.2000**

Marine Science Research Center  
State University of New York at  
Stony Brook

***Assistant Advisor – Research Experiences for  
Undergraduates***

I counseled undergraduates participating in two U.S. NSF-funded Research Experiences for Undergraduates summer programs, helping them plan a 6-week research project in a field of marine science, execute it, and present the results in a written report and an end-of-program research colloquium.

**01.1999 – 05.1999**

Department of Chemistry  
State University of New York at  
Stony Brook

***Teaching Assistant***

I served as the instructor of a second-semester *Introductory Chemistry Laboratory* (20 students) for *undergraduates* (CHE 134), which focused on two major objectives: key laboratory practices and management, and basic chemical reactions and preparations.

**08.1998 – 12.1998**

Marine Science Research Center  
State University of New York at  
Stony Brook

***Teaching Assistant***

I served as the teaching assistant for *Long Island Sound: Science and Use* (MAR 101), an introductory undergraduate course on marine science and marine resource use. I assisted with lecture presentations and examination grading. I planned and conducted field sampling expeditions and subsequent laboratory work, and assisted students with field observation and sampling, geological and biological sample processing, species identification, data processing and report writing.

**08.1995 – 05.1997**

Master Tutor Program  
College of Arts and Sciences  
University of Miami, Florida

***Science Tutor***

As a Master Tutor, I held one-on-one, out-of-class lessons with underprivileged undergraduate students for introductory and advanced university courses in biology, chemistry, physics and mathematics.

## PUBLICATIONS & PRESENTATIONS

### Publications (15)

#### **Peer-reviewed articles (8)**

- Hannides, A.K., Sansone, F.J., and E.J. Gaidos (2010) A microcosm system for the experimental study of permeable sediment biogeochemistry. *Limnology and Oceanography Methods* (in revision).
- Schuster, U., Hannides, A.K., Mintrop, L., and A. Körtzinger (2009) Sensors and instruments for oceanic dissolved carbon measurements. *Ocean Science*, 5: 547-558.
- Zielinski, O., Busch, J.A., Cembella, A.D., Daly, K. L., Engelbrektsson, J., Hannides, A.K. and H. Schmidt (2009) Detecting marine hazardous substances and organisms: sensors for pollutants, toxins, and pathogens. *Ocean Science*, 5: 329-349.
- Treude, T., Smith, C., Wenzhöfer, F., Carney, E., Bernardino, A., Hannides, A.K., Krüger, M., and A. Boetius (2009) Microbial sulfur and carbon turnover at a deep-sea whale fall, Santa Cruz Basin, northeast Pacific. *Marine Ecology Progress Series*, 382: 1-21.
- Rusch, A., Hannides, A. K., and E. J. Gaidos (2009) Diverse communities of active Bacteria and Archaea along oxygen gradients in coral reef sediments. *Coral Reefs*, 28: 15-26.
- Sørensen, K.B., Glazer, B., Hannides, A., and E. Gaidos (2007) Spatial structure of the microbial community in sandy carbonate sediment. *Marine Ecology Progress Series*, 346: 61-74.
- Hannides, A.K., Dunn, S.M., and R.C. Aller (2005) Diffusion of organic and inorganic solutes through macrofaunal mucus secretions and tube linings in marine sediments. *Journal of Marine Research*, 63: 957-981.
- Aller, R.C., Hannides, A.K., Heilbrun, C.E. and C. Panzeca (2004) Coupling of early diagenetic processes and sedimentary dynamics in tropical shelf environments: the Gulf of Papua deltaic complex. *Continental Shelf Research*, 24: 2455-2486.

#### **Book chapters (1)**

- Hannides, A.K. and Smith, C.R. (2003) Chapter 7: The Northeastern Pacific Abyssal Plain, in *Biogeochemistry of Marine Systems* (eds K.D. Black and G.B. Shimmield), Blackwell Publishing, Sheffield, p. 208-237.

#### **Theses and dissertations (2)**

- Hannides, A.K. (2008) Organic matter cycling and nutrient dynamics in marine sediments. Ph.D. Dissertation. University of Hawai`i at Manoa, Honolulu, Hawai`i, U.S.A., p. 439.
- Hannides, A. K. (2001) The impact of biogenic organic matrices on early diagenetic processes in marine sediments. M.S. Thesis. State University of New York at Stony Brook, New York, U.S.A., p. 56.

#### **Publications in preparation (4)**

- Hannides, A.K. and R.C. Aller. The character and impact of the mucus of a marine naticid gastropod on sedimentary organic matter diagenesis. Prepared for the *Journal of Marine Research*.

Hannides, A.K. and F.J. Sansone. Nutrient dynamics in reef permeable sediments: remineralization of suspended particulate organic matter and nutrient processing. Prepared for *Limnology and Oceanography*.

Gao, Z., Wang, X., Hannides, A.K., Sansone, F.J., and G. Wang. Diversity and distribution of bacterial communities in redox-stratified reef carbonate sandy sediments. Prepared for *Applied and Environmental Microbiology*.

Hannides, A.K. and C.R. Smith. A model of large organic fall processing by deep sea communities. Prepared for *Deep-Sea Research I*.

## **Presentations (31)**

### ***Refereed presentations with proceedings (16)***

Hayes, D., Testor, P., Zodiatis, G., Konnaris, G., Hannides, A., Mortier, L., Beguery, L., D'Ortenzio, F., Mauri, E., Lekien, F., Gerin, R., Poulain, P., and Lazar, A. (2010) Glider transects in the levantine sea: a study of the warm core cyprus eddy. 39th CIESM Congress, Venice, Italy, 10-14.05.2010.

Hannides, A.K., and Smith, C.R. (2009) Large organic fall processing by deep sea communities and the generation of biogenic reducing habitats – a modeling effort. *ASLO 2009 Aquatic Sciences Meeting*, Nice, France, 25-30.01.2009.

Hannides, A.K., Sansone, F.J., and Hebert, A.B. (2007) Permeable sediments as nutrient regenerators: the role of permeability in the remineralization of suspended particulate organic matter. *ASLO 2007 Aquatic Sciences Meeting*, Santa Fe, New Mexico, U.S.A., 04-09.02.2007.

Sørensen, K.B, Glazer, B., Hannides, A., and Gaidos, E. (2006) The microbial community of carbonaceous reef sediment. *Eos Trans. AGU, 87(36), Ocean Sci. Meet. Suppl.*, Abstract OS44J-01, 20-24.02.2006.

Hannides, A.K., Smith, C.R., Treude, T., Boetius, A., and Wenzhöfer, F. (2006) Massive organic matter falls in the deep sea: interactions among organic matter quality, biogeochemical processes, and microbe-versus-metazoan competition. *Eos Trans. AGU, 87(36), Ocean Sci. Meet. Suppl.*, Abstract 15F-05, 20-24.02.2006.

Treude, T., Smith, C.R., Ziebis, W., Wenzhöfer, F., Hannides, A.K., and Boetius, A. (2006) A comparison of whale-fall, seep and vent habitats at the deep-sea floor: sulfide fluxes, persistence times and global distributions. *Eos Trans. AGU, 87(36), Ocean Sci. Meet. Suppl.*, Abstract 11E-04, 20-24.02.2006.

Hannides, A.K., Smith, C.R., and Baco-Taylor, A.R. (2005) Massive organic matter fall processing and organic enrichment in deep sea sediments: the role of fall type. *Eos Trans. AGU, 86(52), Fall Meet. Suppl.*, Abstract B21A-1017, 05-09.12.2005.

Smith, C.R., Baco-Taylor, A., Altamira, I., and Hannides, A. (2005) Biogenic chemosynthetic habitats at the deep-sea floor: sulfides and infauna around dead whales, rotting wood and putrid kelp. *Third International Symposium on Hydrothermal Vent and Seep Biology*, La Jolla, California, USA, 12-16.09.2005.

Treude, T., Ziebis, W., Wenzhöfer, F., Hannides, A., Smith, C.R., and Boetius, A. (2005) Biogeochemical processes at cold seeps and whale falls favoring sulfide-dependent chemoautotrophic communities. *Third International Symposium on Hydrothermal Vent and Seep Biology*, La Jolla, California, USA, 12-16.09.2005.

Hannides, A.K., Gaidos, E.J., and Sansone, F.J. (2005) A microcosm at work: preliminary experiments from the MICROBE project. *ASLO 2005 Aquatic Sciences Meeting*, Salt Lake City, Utah, USA, 20-25.02.2005.

- Treude, T., Boetius, A., Krüger, M., Hannides, A., Baco-Taylor, A., and Smith, C.R. (2005) Biogeochemical gradients at a deep-sea whale-fall. *ASLO 2005 Aquatic Sciences Meeting*, Salt Lake City, Utah, USA, 20-25.02.2005.
- Hannides, A.K., and Measures, C.M. (2004) The use of real-time data in the undergraduate introductory oceanography laboratory. *ASLO-TOS 2004 Ocean Research Conference*, Honolulu, Hawai'i, USA, 15-20.02.2004.
- Smith, C.R., Baco, A.R., and Hannides, A.K. (2004) Dead whales, rotting wood and putrid kelp: biogenic chemosynthetic habitats at the deep-sea floor. *ASLO-TOS 2004 Ocean Research Conference*, Honolulu, Hawai'i, USA, 15-20.02.2004.
- Hannides, A.K., Gaidos, E.J., and Sansone, F.J. (2003) The MICROBE (Microcosm Investigation of Carbonate Reef/Ocean Microbial Biogeochemistry & Ecology) Project. *Eos Trans. AGU*, 84(46), *Fall Meet. Suppl.*, Abstract B12B-0779, 08-12.12.2003.
- Aller, R.C., Blair, N.E., Panzeca, C., Hannides, A., and Heilbrun, C. (2003) Relationships between early diagenetic processes, carbon remineralization, and sedimentary dynamics in the Gulf of Papua Deltaic Complex. *Eos Trans. AGU*, 84(46), *Fall Meet. Suppl.*, Abstract OS11A-06, 08-12.12.2003.
- Hannides, A.K. and Aller, R.C. (2001) Impact of mucopolysaccharide matrices on diffusion of dissolved substances in marine sediments. *ASLO Aquatic Sciences Meeting 2001*, Albuquerque, New Mexico, USA, 12-16.02.2001.

***Invited talks (5)***

Treude, T., Smith, C., Wenzhöfer, F., Carney, E., Bernardino, A., Hannides, A., Krüger, M., and Boetius, A. (2009) From whale to chemosynthesis: energy and carbon fluxes at a deep-sea whale fall. *Goldschmidt 2009*, Davos, Switzerland, 21-26.06.2009.

Guieu, C., Hannides, A.K., Jeandel, C., Roy-Barman, M., and K. Tachikawa (2009) GEOTRACES-Mediterranean: Scientific motivation and programmatic context. *GEOTRACES COST Action Working Group 4 Meeting*, Vigo, Portugal, 15-17.04.2009.

Hannides, A.K. (2009) Life in the sand: from the microscopic to the planetary scale. *Department of Biological Sciences Seminar*, University of Cyprus, Nicosia, Cyprus, 27.03.2009.

Hannides, A.K. (2008) Organic matter cycling and nutrient dynamics in permeable sediments. *DISCO (Dissertations in Chemical Oceanography) XXI Symposium*, Honolulu, Hawai'i, U.S.A., 05-10.10.2008.

Hannides, A.K., and C.C.S. Hannides (2007) *GEOTRACES in the Levantine Basin, Eastern Mediterranean*. *GEOTRACES Atlantic Basin Workshop*, Oxford, U.K., 11.09.2007.

***Refereed presentations without proceedings (5)***

Hannides, A.K. (2007) Organic matter cycling and nutrient dynamics in marine sediments. *Doctoral Dissertation Defense*, Department of Oceanography, University of Hawai'i at Manoa, 24.07.2007.

Hannides, A.K. (2005) Massive organic matter fall processing and organic enrichment in deep sea sediments: spatial and temporal patterns and the role of fall type. *STAR Symposium 2005*, Department of Oceanography, University of Hawai'i, Honolulu, Hawai'i, U.S.A., 13.10.2005.

Smith, C.R., Baco, A.R., Hannides, A. and Ruplinger, D. (2003) Chemosynthetic habitats on the California slope: whale-, wood- and kelp-falls compared to vents and seeps. *Biogeography and Biodiversity of Chemosynthetic Ecosystems: Planning for the Future*, ChEss Workshop, Southampton, U.K., 16-18.06.2003.

Aller, R.C., Blair, N., Hannides, A. and Heilbrun, C. (2001) Coupling of diagenetic processes and sedimentary dynamics in the Gulf of Papua. AMSA-NZMSS Annual Conference 2001, Townsville, Australia, 03-06.07.2001.

Hannides, A.K. (2001) The impact of biogenic organic matrices on early diagenetic processes in marine sediments. Master's Thesis presentation, Marine Sciences Research Center, SUNY at Stony Brook, 07.06.2001.

***Student seminar talks (5)***

Hannides, A.K. (2005) Large organic falls and biogenic reducing habitats on the deep sea floor: the role of organic fall quality. Brown Bag Biogeochemistry Seminar, Department of Oceanography, University of Hawai'i at Manoa, Honolulu, Hawai'i, U.S.A., 12.2005.

Hannides, A.K. (2004) Permeable sediments as biocatalytic nutrient regenerators. Brown Bag Biogeochemistry Seminar, Department of Oceanography, University of Hawai'i at Manoa, Honolulu, Hawai'i, U.S.A., 05.2004.

Hannides, A.K. (2002) Animal-sediment relations: the role of biogenic matrices in marine sediment solute diffusion. Brown Bag Biogeochemistry Seminar, Department of Oceanography, University of Hawai'i at Manoa, Honolulu, Hawai'i, U.S.A., 10.2002.

Hannides, A.K. (2000) Diffusion of ions through benthic biogenic matrices. Graduate student seminar, Marine Sciences Research Center, SUNY Stony Brook, New York, U.S.A., 10.2000.

Hannides, A.K. (1997) A biological synopsis of the swordfish, *Xiphias gladius*, and a preliminary population model. Marine Science/Sigma Xi Undergraduate Poster Session, College of Arts and Sciences, University of Miami, Florida, U.S.A., 11.1997.

## SERVICE

### Professional Service

- Since 12.2009** Member, Management Committee for COST Action ES0801 (The ocean chemistry of bioactive trace elements and paleoclimate proxies)
- Since 09.2007** Co-coordinator, GEOTRACES activities in the Mediterranean Sea
- Since 01.2006** Member, Public Policy Committee - American Society of Limnology and Oceanography
- 10.2008 – 01.2010** Member, Cyprus Technical Committee on Research and Development (representative of the Department of Fisheries and Marine Research, Cyprus)
- 10.2008** Session Chair, XXI Symposium on Dissertations in Chemical Oceanography (DISCO XXI), Honolulu, Hawai'i

### Academic Community Service

- 08.2005 – 08.2007** Member, University of Hawai'i system-wide Commission on Diversity - Graduate Student Organization representative
- 04.2006 – 08.2006** University of Hawai'i at Manoa Chancellor Search Advisory Committee member (graduate student representative)
- 09.2004 – 09.2005** University of Hawai'i at Manoa Graduate Student Organization Assembly member (Department of Oceanography representative)

### Peer Review

- Since 07.2009** Manuscript reviewer, Ocean Science
- Since 04.2009** Manuscript reviewer, Aquatic Biology
- 01.2009** Student poster judge, ASLO 2009 Aquatic Sciences Meeting, Nice, France
- 02.2003, 02.2004** Moderator and Science Judge, Pacific Symposium for Science and Sustainability (PS<sup>3</sup>)
- 02.2003** Science Judge, Hawai'i Regional Ocean Science Bowl

## **Outreach and Science Promotion**

- Since 03.2005*** Founder and director - Cyprus Bibliographic Archive of the Earth Sciences (CYBAES)
- 01.2002 – 08.2007*** Web-designer, web-master, and web advisor, Department of Oceanography, University of Hawai‘i at Manoa
- 09.2005 – 08.2007*** Web-designer and web-master, Na Kama Kai (University of Hawai‘i oceanography graduate student organization)
- 04.2002, 10.2003, 10.2005*** Presenter, School of Ocean and Earth Science and Technology (University of Hawai‘i at Manoa) Open House
- 01-05.2002 – 08-12.2003*** Web-designer and web-master, OCN 201 - Science of the Sea, an introductory course in marine science at the University of Hawai‘i at Manoa

## PROFESSIONAL DEVELOPMENT

### Professional Experience (supplement to Research and Teaching Experience)

**10.2007 – 01.2010**

***Fisheries and Marine Research Officer***

Marine Environment Division  
Department of Fisheries and  
Marine Research  
Ministry of Agriculture, Natural  
Resources and Environment  
Republic of Cyprus

As a Fisheries and Marine Research Officer in the Marine Environment Division, I had a variety of responsibilities and duties. I was responsible for the technological upgrade and the spatial and temporal expansion of the Division's marine environmental monitoring activities. I helped plan, conduct, and participate in research studies that mainly relate to human activities (e.g., desalination, dredging, aquaculture, etc.) and their impact on the marine environment. I was also responsible for the management and operation of the biological and chemical laboratories of the Division, and for the implementation of Quality Assurance – Quality Control standards and procedures for all activities. Finally, I undertook the activities and procedures for the implementation of the Marine Strategy Framework Directive, an EU legislation which aims at reaching and/or maintaining the good environmental condition of EU's marine waters by 2020, including the authorship of the relevant National legislation.

**07 – 09.2007**

***Consultant – Scientific Expert***

Maritime Communication  
Services (MCS) – Harris,  
Melbourne, Florida, U.S.A.

Shortly before I was offered the position of Fisheries and Marine Research Officer with the government of Cyprus, I was a Principal Investigator in the consortium which won a tender to conduct a Strategic Environmental Assessment concerning the hydrocarbon exploitation activities in the Exclusive Economic Zone (EEZ) of the Republic of Cyprus, in my capacity as an experienced deep-sea benthic biologist (after being hired by the government of Cyprus, I had to withdraw from the consortium).

**01.2002 – 05.2003**

***Webmaster and web designer***

Department of Oceanography  
School of Ocean and Earth  
Science and Technology  
University of Hawai'i

I upgraded and expanded the web-site of the Department of Oceanography, as well as sections of the web-sites of various degree and certificate programs and courses.

**10.1998 – 08.1999**

Waste Reduction and  
Management Institute  
Marine Science Research Center  
State University of New York at  
Stony Brook

**Rapporteur**

As a rapporteur for WRMI, I was involved in the Hudson River Estuary Management Workshops, which aimed at developing a monitoring plan for the Hudson River Estuary. I assisted with the organization of the workshops, note-taking of the proceedings, and the generation of reports and outreach materials.

**08.1998 – 12.1998**

Marine Science Research Center  
State University of New York at  
Stony Brook

**Laboratory Assistant**

As an assistant in the Seaweed Ecology Laboratory of MSRC, I conducted nitrate reductase activity assays as well as oxygen evolution measurements on Antarctic and temperate macroalgae (e.g., *Laminaria*, *Fucus*, *Codium*, *Ulva*).

**12.1997 – 03.1998**

Saltwater Inc.  
Anchorage, Alaska

**Groundfish Fisheries Observer**

I worked as a U.S. Federal Government Fisheries Observer on behalf of the National Marine Fisheries Service – Alaska Region (subcontracted by Saltwater Inc.). I was positioned on a 92-meter-long factory processor ship, which operated in the Bering Sea pollock (*Theragra chalcogramma*) fishery, and observed their activities for 52 continuous days. I calculated catch estimates on an hourly-to-daily basis and reported them to head-quarters by satellite, to allow the day-to-day catch by the whole fleet. I conducted basic measurements and observations on the catch, including biometric measurements on pollock, sexing, otolith sampling, and by-catch identification and weighing. Finally, I monitored the environmentally-responsible operation of the vessel, including the implementation of proper fishing rules and procedures.

**04 – 05.1998,  
06 – 07.1997**

Examinations Board  
Ministry of Education and  
Culture, Cyprus

**Administrative assistant**

I assisted with the planning and conducting of civil-service wide examinations for various branches of government, as well as with the grading process of public university entrance examinations.

**07.1992 – 08.1994**

Armed Forces of Cyprus

**Artillery Officer**

During mandatory military service in the Cyprus National Guard, I served as a Second Lieutenant in the Artillery.

**07.1991**

***Volunteer laboratory assistant***

Department of Fisheries,  
Ministry of Agriculture and  
Natural Resources  
Republic of Cyprus

As a summer volunteer at the Experimental Marine Fish Culture Station of the DFMR in Meneou (Larnaca), I participated in all the activities of the station maintenance and upkeep and was trained on the various stages of the fish farming cycle, from brooding and hatching to rearing and harvesting, including the culture of chlorophytes, rotifers and shrimp and their preparation as fish diet.

**06.1989, 08.1989**

**06.1990, 06.1991**

***Volunteer field assistant***

Department of Fisheries,  
Ministry of Agriculture and  
Natural Resources  
Republic of Cyprus

As a volunteer with the Lara Turtle Protection Project in the Akamas Region, I participated in night-time turtle nesting operations, which included nesting observations, turtle biometric measurements and turtle tagging. During day-time, I participated in beach patrolling, turtle egg harvesting and relocation to the project station, collection of hatchlings in the daytime and their release in the wild at dusk.

**Professional Affiliations**

***Since 1999*** American Association for the Advancement of Science (AAAS)

***Since 2000*** The Geochemical Society

***Since 2000*** American Society of Limnology and Oceanography (ASLO)

***2000 – 2006*** European Association of Organic Geochemists (EAOG)

***Since 2001*** The Oceanography Society

***Since 2003*** The American Geophysical Union (AGU)

## Participation in Professional Courses and Workshops

- 10.2009** *Linking Science and Policy in Sustainable Development Research*, Research Promotion Foundation, Limassol, Cyprus
- 03.2008** *The Republic of Cyprus for Incoming Civil Servants*, Cyprus Academy of Public Administration, Nicosia, Cyprus
- 02.2008** *Seawater Desalination and the Marine Environment*, European Desalination Society, L'Aquila, Italy
- 12.2007** *Public Participation in the E.U. Water Framework Directive*, The Environment Council (U.K.) and the Water Development Department, Nicosia, Cyprus
- 03 – 04 .2008** *OceanSensors08 workshop for ocean sensing and observation technologies*, Leibniz Institute for Baltic Sea Research, Warnemünde, Germany
- 09.2007** *GEOTRACES Atlantic Ocean Organizational Workshop*, University of Oxford, Oxford, U.K.
- 05.2007** *GEOTRACES Pacific Ocean Organizational Workshop*, University of Hawai'i at Manoa, Honolulu, Hawai'i, U.S.A.
- 06.2006** *Second Gordon Research Conference on Permeable Sediments*, Colby College, Waterville, Maine, U.S.A.
- 02.2006** *Database-driven websites*, Pacific New Media, Outreach College, University of Hawai'i at Manoa, Honolulu, Hawai'i, U.S.A.
- 12.2005** *Molecular Geomicrobiology Short Course*, Mineralogical Society of America – Geochemical Society, University of California Berkeley, California, U.S.A.
- 12.2003** *Biom mineralization Short Course*, Mineralogical Society of America – Geochemical Society, Napa, California, U.S.A.
- 02.2003** *Intermediate Adobe Photoshop for Photographers*, Pacific New Media, Outreach College, University of Hawai'i at Manoa, Honolulu, Hawai'i, U.S.A.
- 01.2003** *Web Design Fundamentals*, Pacific New Media, Outreach College, University of Hawai'i at Manoa, Honolulu, Hawai'i, U.S.A.
- 2003 – 2007** *Biological Safety Training*, Environmental Health and Safety Office, University of Hawai'i at Manoa, Honolulu, Hawai'i, U.S.A.
- 2001 – 2007** *Hazardous Materials Generator Training*, Environmental Health and Safety Office, University of Hawai'i at Manoa, Honolulu, Hawai'i, U.S.A.
- 2001 – 2007** *Laboratory Safety Training*, Environmental Health and Safety Office, University of Hawai'i at Manoa, Honolulu, Hawai'i, U.S.A.
- 02, 05, 07 .1999** *Hudson River Monitoring Program Workshops*, Institute of Ecosystem Studies, Millbrook, New York, U.S.A.
- 08.1998** *Graduate Teaching Assistant Training*, SUNY Stony Brook, Stony Brook, New York, U.S.A.
- 12.1997 – 01.1998** *Groundfish Observer Training*, North Pacific Fisheries Observer Training Center, University of Alaska Anchorage, Anchorage, Alaska, U.S.A.

## Participation in Research Conferences

- 2009** The 2009 Aquatic Sciences Meeting, Nice, France. Organizer: ASLO (Advancing the Science of Limnology and Oceanography), the Oceanography Society (TOS)
- 2008** XXI Symposium on Dissertations in Chemical Oceanography (DISCO XXI), Honolulu, Hawai'i, U.S.A. Organizer: U.S. National Science Foundation (NSF) / U.S. National Oceanic and Atmospheric Administration (NOAA)
- 2007** The 2007 Aquatic Sciences Meeting, Santa Fe, New Mexico, U.S.A. Organizer: ASLO (Advancing the Science of Limnology and Oceanography), the Oceanography Society (TOS)
- 2006** Second Gordon Research Conference on Permeable Sediments, Waterville, Maine, U.S.A. Organizer: The Gordon Research Conferences
- 2006** The 2006 Ocean Sciences Meeting, Honolulu, Hawai'i, U.S.A. Organizer: American Geophysical Union (AGU), American Society of Limnology and Oceanography (ASLO), the Oceanography Society (TOS), Estuarine Research Federation (ERF)
- 2005** The 2005 AGU Fall Meeting, San Francisco, California, U.S.A. Organizer: American Geophysical Union (AGU)
- 2005** The 2005 Aquatic Sciences Meeting, Salt Lake City, Utah, U.S.A. Organizer: American Society of Limnology and Oceanography (ASLO)
- 2004** The ASLO-TOS Ocean Research Conference, Honolulu, Hawai'i, U.S.A. Organizer: American Society of Limnology and Oceanography (ASLO), the Oceanography Society (TOS)
- 2003** The 2003 AGU Fall Meeting, San Francisco, California, U.S.A. Organizer: American Geophysical Union (AGU)
- 2002** Sixth International Conference of Geochemistry at the Earth's Surface (GES-6), Honolulu, Hawai'i, U.S.A. Organizer: International Association of Geochemistry and Cosmochemistry (IAGC)
- 2002** The 2002 Ocean Sciences Meeting, Honolulu, Hawai'i, U.S.A. Organizer: American Geophysical Union (AGU), American Society of Limnology and Oceanography (ASLO)
- 2001** The 2001 Aquatic Sciences Meeting, Albuquerque, New Mexico, U.S.A. Organizer: American Society of Limnology and Oceanography (ASLO)
- 2000** Twenty-ninth Annual Benthic Ecology Meeting, Wilmington, North Carolina, U.S.A. Organizer: Southeastern and Atlantic Estuarine Research Societies
- 1998** Marine Science/Sigma Xi Undergraduate Poster Session, Miami, Florida, U.S.A. Organizer: Marine Science Program/Sigma Xi, University of Miami, Florida

## RELATED COMPETENCIES

### Field Scientific Experience

- 10.2007** *Cyprus coastal stations, Levantine Basin, Mediterranean Sea, R/V Gorgo, R/V - 01.2010 Alkioni (Cyprus)*
- Topic: Water column and sedimentary biogeochemistry process studies and compliance monitoring during multiple, day-long, shore-based cruises.
- Cyprus coastline and wetlands*
- Topic: Ecosystem studies, compliance monitoring, environmental observations and investigations.
- 12.2006** *Anaximenes Seamount, Eastern Mediterranean Sea, R/V Meteor (Germany)*
- Chief Scientist: Berndt Christiansen, University of Hamburg.
  - Topic: Biology and Biogeochemistry of the Eastern Mediterranean Sea; Hydrology and Biogeochemistry of Anaximander Seamount.
- 07.2005** *Hawaii Ocean Time-series cruise No.171, North Pacific sub-tropical gyre, R/V Melville (USA)*
- Chief Scientist: Tom Gregory.
  - Topic: Training in open sea ecological and biogeochemical time-series stations (ship-based operations).
- 09.2003** *Ka'au Crater, O'ahu, Hawai'i*
- Topic: Methane emissions from a tropical mountainous wetland.
- 06 – 08** *North Pacific and Bering Sea cruise, R/V Kilo Moana (USA)*
- .2003**
- Chief Scientist: Brian Popp, University of Hawai'i.
  - Topic: Coccolithophorid primary productivity and impact on water-column biogeochemical processes.
- 03 – 04** *Hindus margin, Arabian Sea, R/V Charles Darwin (UK)*
- .2003**
- Chief Scientist: Brian Bett, National (UK) Oceanography Center.
  - Topic: Oxygen-minimum zone sedimentary ecology and biogeochemistry.
- 01.2003** *Mangrove forests, Moloka'i, Hawai'i*
- Topic: Nocturnal migrations of mobile fish and benthos into and out of invasive mangrove forests.
- 10 – 11** *California Borderland Basins, R/V Western Flier (USA)*
- .2002**
- Chief Scientist: Craig Smith, University of Hawai'i.
  - Topic: Biogenic chemosynthetic habitats.
- 04 – 05** *California Borderland Basins, R/V Robert Gordon Sproul (USA)*
- .2002**
- Chief Scientist: Craig Smith, University of Hawai'i.
  - Topic: Implantation of large organic falls (wood and kelp packages) for biogenic chemosynthetic habitat generation.
- 03 – 02** *Gulf of Papua, Melanesia, R/V Franklin (Australia)*
- .2000**
- Chief Scientist: Greg Brunskill, Australian Institute of Marine Science.
  - Topic: Tropical mobile mud-belt biogeochemistry.
- 06 – 07** *East River, New York, New York. R/V Onrust (U.S.A.)*
- .1999**
- Chief Scientist: Robert C. Aller, SUNY Stony Brook.
  - Topic: The study of seasonal hypoxia development in eastern Long Island Sound during multiple day-long, shore-based cruises.
- 01 – 03** *Bering Sea, Alaska. F/V Golden Alaska (U.S.A.)*
- .1998**
- Topic: Bering Sea winter Pollock fisheries season 1998.

## Technical Experience

- Field sampling**
  - Plankton, nekton and benthos: trawls, nets;
  - Sediment: box coring, multicoring, megacoring, gravity coring, Kasten-coring, grabs;
  - Water: bottles (GoFlo, Niskin), pumps;
  - Settling particles: sediment traps.
- Sample processing**
  - Controlled-environment sample processing;
  - Seawater fractionation for component separation;
  - Pore water extraction and treatment for selected analyses;
  - Sediment sub-sampling, separation, and preservation.
- Analytical methods**
  - Microscopy: species identification, cell enumeration;
  - General taxonomy: multicellular organism identification;
  - Genetic composition analysis: DGGE, FISH;
  - Metazoan processing: biometric measurements (sizing), dissection for gut content analysis, otolith sampling;
  - X-radiography: sediment fabric analysis;
  - Flow cytometry: cell enumeration;
  - Spectrophotometry: sulfides, ammonium, nitrate, nitrite, phosphates, bromide, carbohydrates;
  - Fluorometry: chlorophyll, dissolved organic carbon, ammonium;
  - Gas chromatography: sulphate;
  - Atomic absorption: calcium, magnesium;
  - Titration methods: oxygen, chloride, acidity, total carbon dioxide;
  - Elemental analysis: total and organic carbon, nitrogen;
  - Sensor technologies: oxygen (Clark-type), pH, conductivity;
  - Granulometry: grain size distribution.
- Experimental techniques**
  - Benthos and plankton: incubation systems, culture systems, open-sea incubation arrays (design, construction and operation);
  - Oxygen uptake rate;
  - Carbon-dioxide build-up;
  - Macrofaunal bioturbation rate;
  - Molecular diffusion measurements;
  - Water recirculation systems.
- Computing**
  - Operating systems: Windows, Apple, and Linux;
  - Basic programming/modeling: unix, MATLAB, STELLA;
  - Text editing and presentation software: Microsoft (MS) Word, MS Powerpoint, Endnote, Adobe Acrobat;
  - Number processing and graphing software: MS Excel, SigmaPlot;
  - Image editing software: Adobe Photoshop, Adobe Illustrator;
  - Web publishing: Macromedia Dreamweaver.

## Languages

Greek (maternal)  
 English – Proficient  
 French – Average (reading-writing)  
 German – Average (reading-writing)

## REFERENCES

[ References may be provided upon request ]

Last modified: May 2010