

CINDY LEE VAN DOVER
March 2017

CONTACT INFORMATION

Division of Marine Science and Conservation
Duke University Marine Laboratory
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EDUCATION

1989 PhD Massachusetts Institute of Technology and Woods Hole Oceanographic Institution Joint Program in Biological Oceanography. Department of Biology, Woods Hole Oceanographic Institution. Dissertation Title: *Chemosynthetic Communities in the Deep Sea: Ecological Studies*. PhD. Advisor: J.F. Grassle
1985 MA University of California, Los Angeles; Ecology
1977 BS Cook College, Rutgers University; Environmental Science

ACADEMIC POSITIONS

2016 *Visiting Scientist*, Université de Bretagne Occidentale
2006- *Harvey W. Smith Professor*, Division of Marine Science and Conservation, Duke University
2006-2016 *Director*, Duke University Marine Laboratory
2006-2016 *Chair*, Division of Marine Science and Conservation
2006-2014 *Director*, Certificate in Marine Science and Conservation Leadership
2005-2006 *Associate Professor*, Biology Department, College of William & Mary
2002-2005 *Marjorie S. Curtis Associate Professor*, Biology Department, College of William & Mary
2005 *Instructor*, Oregon Institute of Marine Biology, University of Oregon
2004 *Fulbright Research Scholar*, IFREMER, Centre de Brest, France
1998-2002 *Assistant Professor*, Biology Department, College of William & Mary
1995-1998 *Science Director*, West Coast National Undersea Research Center and *Research Associate Professor*, Institute of Marine Science, University of Alaska, Fairbanks; *Visiting Investigator*, Dept. Geology & Geophysics, WHOI
1994-1995 *Mary Derrickson McCurdy Visiting Scholar*, Duke University School of the Environment, Duke Marine Lab., Beaufort, NC
1992-1994 *Visiting Investigator*, Department of Marine Chemistry and Geochemistry, WHOI
1989-1992 *Submersible Pilot*, ALVIN Group and *Post-Doctoral Investigator*, Biology Department, WHOI.

FIELD, SPECIALIZATIONS and INTERESTS

Ecology of chemosynthetic communities, biogeography, biodiversity, mid-ocean ridge processes, methane hydrates, deep-sea ecology, stable isotope techniques in food web analyses, deep-sea light, deep-sea technology, diseases in deep-sea mollusks, astrobiology, marine conservation, deep-sea mining and mitigation, population connectivity

HONORS, PRIZES, AND AWARDS

2017 Honorary Doctorate, Université Catholique de Louvain (February 2017)
2017 Fulbright Arctic Chair (Bergen Norway Apr-Jun 2017)
2015 TED Talk, Mission Blue II
2012 Honorary Doctorate, University of Bergen
2009 Mines Medal, South Dakota School of Mines
2009 Duke University Presidential Award in Executive Leadership
2008 More Magazine "Wonder Women"
2008 Wings World Quest Fellow
2007 Thomas A. Langford Lecturer (Duke University)
2006 Virginia Outstanding Scientist
2004 Fulbright Research Scholar (IFREMER, France, Fall)

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- 2004 George Hammell Cook Distinguished Alumni Award (Cook College)
- 2003 William & Mary Alumni Fellowship Award for Outstanding Teaching
- 2002 Fellow, American Association for the Advancement of Science (AAAS)
- 2000 AGU Rachel Carson Lecture
- 2000 White House Guest, “Exploration Under the Sea – Beyond the Stars” Millennium Matinee
- 2000 NSF CAREER Award
- 1993 Editor's Citation for Excellence in Refereeing (Reviews of Geophysics)
- 1989 Esquire Register
- 1988 Listed in MS Magazine "Women of the Year"
- 1984 NSF Graduate Fellowship

DISTINGUISHED LECTURER

- 2017 KAUST (King Abdullah U Science and Technology) Winter Enrichment Program Keynote Speaker
- 2014 University College Dublin Earth Institute Public Lecture
- 2013 Stanley Grey Lecture, Institute of Marine Engineering, Science & Tech 14 Nov, Trinity House London
- 2013 Prestige Seminar (East England Engineering Science and Technology Assoc) 13 November, Hatfield UK
- 2013 Keynote Speaker, European Marine Biology Symposium, Galway, Ireland, 15-24 August
- 2012 Keynote Speaker, Deep-Submergence Science Committee, Early Career Scientists Program, San Francisco
- 2012 Whitney Laboratory Public Lecture Series 13 Dec 2012, St Augustine FL
- 2011 WHOI Women's Committee Annual Lecture
- 2011 Voices of Discovery Lecturer, Elon University
- 2011 IBM Speaker, Wittenberg University
- 2009 Mines Medalist (University of South Dakota)
- 2007 Distinguished Speaker, Joint Celebration, Linnaean Soc (300 yr), Geological Soc (200 yr), London, 23 Apr
- 2006 Keynote Speaker, Biological and Biomedical Science - Harvard University Medical School, Fall Retreat
- 2006 FLAD (Portuguese-American Foundation) Lecture in Marine Science (Lisbon)
- 2006 Commencement Speaker, Cook College, Rutgers – The State University of New Jersey
- 2004 RIDGE 2000 Distinguished Lecturer (NSF)
- 2004 Distinguished Scientist Lecturer, Smithsonian Institution Senate of Scientists
- 2000 Rachel Carson Lecture, American Geophysical Union
- 2001 Capitol Science Lecture, Carnegie Institution
- 2001 Colloquium Series Lecture, NASA Langley
- 2001 Sigma Series Lecture, NASA Langley & Virginia Air & Space Ctr
- 2001 Laura Randall Schweppe Visiting Scholar, University of Texas
- 2001 Marine Biology Explorations Distinguished Lecturer, State University of New York, Stony Brook
- 2001 Charles and Marie Fish Lecture, University of Rhode Island
- 2000 Dean's Lecture, The College of William & Mary
- 2000 Keynote Address, Virginia Association of Science Teachers
- 1992 Marjory Stoneman Douglas Lecture, Wellesley College

COMMITTEES, REVIEWS, PANELS (see also WORKSHOPS, STEERING COMMITTEE MEETINGS etc)

- NSF-UNOLS Deep Submergence Science Committee (2016 -)
- MERCES (Marine Restoration) Scientific Advisory Board (EU 2016-)
- Advisory Committee for Geosciences (NSF: AC-GEO) Jan 1 2016-Dec 31 2018
- Schmidt Oceanographic Institute ROV Scientific Advisory Group (2016)
- MIDAS (Managing impacts of deep-sea mining) Scientific Advisory Board (EU 2015-2016)
- SPONGES Scientific Advisory Board (EU 2016-)
- Deep-Ocean Stewardship Initiative Steering Committee (2013-)
- NAUTILUS Ocean Exploration Trust Advisory Board (2012-2014)
- COSEE, National Advisory Council (2006-2012)
- DUNCOC Advisory Committee (2009-2010)
- Schmidt Research Vessel Institute/Marine Science and Technology Foundation Scientific Advisory Board

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(2009-2011)

Scientific Advisory Committee, Centre for Geobiology, University of Bergen
NSF OOI Blue Ribbon Panels (2006, 2009)
NSF Informal Science Education Review Panel (2007, 2010)
Deep Submergence Science Committee (1996-2001; two terms)
Replacement HOV Oversight Committee (RHOC); founding member (2004) and Chair 2006-2013
NASA Astrobiology CAN5 Review Panel (Chair, 2008)
Duke-UNC Oceanographic Consortium (DUNCOC) Program Advisory Committee (2010-2011)
National Association of Marine Laboratories (2006 -)
Consortium for Ocean Leadership (Founder Trustee 2007)
ChEss (Chemosynthetic Ecosystems, Census of Marine Life) founder and International Steering Committee Member (2000-2010)
Strategic Planning Committee, Carteret County School District (Spring 2010)

UNIVERSITY-WIDE SERVICE (The College of William & Mary)

2003 Grievance Committee
2005 Faculty Assembly, incl Executive Committee (elected offices)

COURSES TAUGHT

Université de Bretagne Occidentale: Marine Spatial Planning (graduate seminar Fall 2016), Aide à la publication scientifique en anglais (Spring 2015, 2016)
DUML Marine Conservation Summer Institute, 1 wk module on Deep-Sea Resources, Law, and Policy (July 2014)
Duke University Marine Laboratory: Human-Coast Interactions in Brittany; Independent Study; Invertebrate Zoology; Science and Nature Writing; Doctoral Student Seminar and Professional Development
College of William & Mary: Invertebrate Zoology, Marine Ecology; Biodiversity; Analysis of Community Structure; plus graduate seminars on Biodiversity, Life in Extreme Environments, Ecology of Deep-Sea Chemosynthetic Communities, Scientific Writing,
University of Oregon: Ecology of Hydrothermal Vents
NSF Chautauqua: 2.5-d course on the ecology of deep-sea chemosynthetic communities (2002, 2003)
University of Alaska Fairbanks: Marine Ecology
Duke University Marine Laboratory: Ecology of Hydrothermal Vents
UCLA (Graduate Teaching Assistant, Department of Biology): General Biology, Physiology, Field Marine Biology

GRANT RECORD

2016 NSF FSML: *A marine Unoccupied Aircraft Systems (UAS) facility: Building capacity for high-resolution remote sensing and analysis of marine and coastal ecosystems* (\$310K; DBI-1624645)
2016 NSF EAGER: *Developing At-Sea & Telepresence-Led Deep-Submergence Science Leadership* (~\$225K)
2016 Pew Foundation SEMPIA Roadmap (~\$200,000; OCE-1641453)
2016 International Climate Initiative Global Ocean Biodiversity Initiative WP V (~\$500,000)
2014 Oak Foundation: Marine Conservation Summer Institute (\$500,000 with \$500,000 match)
2012 Nautilus Minerals. Responsible environmental management in the deep-sea: connectivity and restoration. (\$100,000)
2011 Nautilus Minerals Bursary Study at the Duke University Marine Laboratory (Hosea Gomuna) (\$36,334)
2011 Oak Foundation: Leadership in Marine Science and Conservation at the Duke University Marine Laboratory. (\$599,844)
2011 Oak Foundation: Marine Science and Conservation Genetics Building (\$4.5M)
2010 NSF OCE1031050: *Collaborative Research: Connectivity in western Atlantic seep populations: Oceanographic and life-history processes underlying genetic structure* (\$855,670)
2010 International Seabed Authority: *Developing conservation strategies for seafloor massive sulfide (SMS) ecosystems* Traineeship for William Saleu. (\$41,456)
2010 NSF FSML: *Experiential classroom modernization for the Duke University Marine Laboratory* (\$236,567).
2008 Oak Foundation (with L Crowder and D. Rittschof) *Fellowships, Internships, and Research Support for*

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- students in marine science and conservation.* (\$870K)
- 2008 NASA (with J. Carlsson, T. Schultz) Oases for life and pre-biotic chemistry: Hydrothermal exploration using advanced underwater robotics. \$966,366.
- 2008 Nautilus Minerals (with J. Carlsson, T. Schultz) Genetic diversity, growth rates, and transplant response of selected invertebrate taxa, Manus Basin (\$230,836 plus \$1.5M in ship time)
- 2007 NC Biotechnology Center, Institutional Development Grant (Schultz, PI; \$250K)
- 2007 Duke University Provost's Undergraduate Initiative (\$691,611)
- 2007 NSF: *Collaborative Research in IPY: Abrupt Environmental Change in the Larsen Ice Shelf System, a Multidisciplinary Approach – Marine Ecosystems* (4 yrs; \$284,962)
- 2007 NSF: *Beyond The Edge of the Sea: Diversity of Life in the Ocean Wilderness* (1 yr; \$75,000)
- 2007 Nautilus Minerals Inc Manus Basin: *Characterization and Comparison of the Invertebrate Faunas* (\$56,161 + \$10,000 supplement)
- 2007 NASA ROSES, SMD-E/PO: *Beyond the Edge of the Sea: Life as We didn't Know it* (\$75,000)
- 2006 Nautilus Minerals, Inc "Characterization of Manus Basin Chemosynthetic Faunas" (\$28,285)
- 2006 NOAA-NURP "Windows to the Deep II: Linking seismic structure to surface topography, biology, and geochemistry at the Blake Ridge Diapir and vicinity" (\$40,000; recommended for funding in 2007)
- 2006 Nautilus Minerals "Biology of Inactive Sulfides, Manus Basin"
- 2005 Placer Dome Oceania "Biology of inactive sulfides, Manus Basin" Sub-Award I (\$15,650)
- 2005 Placer Dome Oceania "Travel Award, International Symposium on Deep-Sea Hydrothermal Vents and Seeps" (in support of graduate student travel)
- 2005 Placer Dome Oceania and Nautilus Minerals "Literature Review: Biology of Chemosynthetic Ecosystems in Western Pacific Back-Arc Basins" (1 year; \$25,000)
- 2004 NSF "Biogeography and community structure in mussel beds at Pacific hydrothermal vents" (3 years, \$193,372)
- 2003 NOAA-Ocean Exploration "Windows to the Deep: Biological Sampling and High-Resolution Mapping at Methane Seeps on the Blake Ridge and Carolina Rise" (with Carolyn Ruppel; 12 mos, \$20,175)
- 2001 NOAA/NURP "Community structure in mussel beds of the Blake Ridge gas hydrate seeps" (\$26,000; 12 mos)
- 2000 NOAA/NURP "Comparative Biodiversity in Seep, Vent, and Intertidal Mussel Beds" (\$9563; 12 mos)
- 2000 NASA Astrobiology "Search for phototrophs at vents" (\$7,618; 12 mos)
- 2000 NASA Exobiology "Phototrophic organisms at hydrothermal vents" (\$21,000; 24 mos)
- 2000 NSF/RIDGE "Distribution of phototrophic organisms at hydrothermal vents" (\$72,365; 36 mos)
- 2000 NSF "CAREER: Comparative biodiversity and community ecology of chemosynthetic ecosystems" (~\$250,000; 48 mos)
- 2000 NSF/RIDGE (with 8 other PIs) *Characterization of an Indian Ocean hydrothermal vent – CIR 24°S: Biogeography and ecology within a geological and geochemical context* (417,946; 12 mos)
- 1999 William & Mary Summer Research Grant "Toward a search for photosynthetic organisms in the deep sea" (\$5,000; 2 mos)
- 1998 NSF/RIDGE "Species Composition and Biodiversity in Mussel Bed Communities of Deep-Sea Hydrothermal Vents" (250,000; 36 mos)
- 1998 NASA/Astrobiology "Search for phototrophs at deep-sea hydrothermal vents" (\$2,000; 1 yr)
- 1996 NOAA/MAB, Research Award "Monitoring of sewage-derived organic material in deep-sea food webs at Dump Site 106." (\$59,555; 1 yr)
- 1995 NOAA/WCNURC Research Award (with P.A. Tyler) "Gametogenic ecology of a deep-sea hydrothermal vent community"
- 1995 NSF/RIDGE (with D. Fornari) "Lucky Strike hydrothermal vents" (~\$37,000; 3 yr)
- 1994 NSF/RIDGE, Research Grant (with A. Chave) "ALISS: Ambient light imaging and spectral system" (\$93,895; 3 yrs)
- 1992 NOAA-NURC, Research Grant (with J.F. Grassle) "Isotopic evidence for entry of sewage-derived organic material into a deep-sea benthic food web" (\$15,000; 1 yr)
- 1992 NSF/RIDGE/NASA, Workshop "Light in Thermal Environments (LITE) -- A workshop on light at deep-sea hydrothermal vents and its biological exploitation" (~\$20,000; 1 yr)

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- 1992 NSF (RIDGE), Research Grant (with G. Eglinton) "*Ecology of Mid-Atlantic Ridge hydrothermal vents: Food web analysis using multiple molecular and isotopic techniques*" (\$181,417; 3 yr)
- 1992 National Geographic, Research Grant "*Documentation of light and shrimp distributions at hydrothermal vents*" (~\$20,000; 1 yr)
- 1990 NSF (RIDGE), Research Grant (with L. Mullineaux) "*Dispersal and dynamics of planktonic organisms in hydrothermal vent plumes*"
- 1990 Vetlesen Award (WHOI), Research Grant "*Fine-scale distribution of invertebrate larvae at Guaymas Basin hydrothermal vents*"
- 1989 Sea Grant "New Initiatives" Award "*Utilization of sewage sludge by deep-sea invertebrates at Dump Site 106*"
- 1988 NSF, Research Grant (with J.F. Grassle) "*Comparative ecology of hydrothermal vent populations: Species composition, abundance and trophic relationships in soft sediments*"
- 1988 Gorda Ridge Task Force, Research Grant "*Contribution of chemosynthetically-derived carbon to the surrounding deep-sea benthic community*"

FIELD EXPERIENCE

- 2016 R/V ATLANTIS w/ ALVIN, SENTRY. AT-36 Lead PI, Training cruise for early career scientists
- 2015 R/V Atlantis w/ ALVIN, SENTRY. Chief Scientist, Atlantic Margin Seeps, NSF SeepC Project
- 2014 NSF INSPIRE Telepresence cruise, Kick'em Jenny, Barbados Seeps; Inner Space Center
- 2014 R/V Atlantis w/ ALVIN, SENTRY. Ch Scientist, Gulf of Mexico NSF SeepC Project
- 2013 R/V Nautilus w/HERCULES. Lead Scientist, Cayman Vents.
- 2013 R/V Falkor w/NEREUS. PI, Cayman vents.
- 2012 R/V Okeanos Explorer w/SENTRY. Chief Scientist, NSF/NOAA Blake Ridge Seeps
- 2012 R/V ATLANTIS w/JASON II. Barbados Seeps. Chief Scientist. NSF Seep connectivity.
- 2012 R/V ATLANTIS w/JASON II. Cayman Rise Vents. Co-PI. Exploration and connectivity.
- 2011 R/V OCEANUS. Barbados Seeps. Chief Scientist, Seep connectivity.
- 2009 R/V CAPE HATTERAS. Cayman Rise. With *Nereus*
- 2006 ARSV LAURENCE M. GOULD. Antarctic Ocean. Guest scientist, with Hugh Ducklow
- 2005 R/V ATLANTIS w/ALVIN. Pacific Antarctic Ridge. PI, Mussel-Bed Biodiversity
- 2005 R/V MELLVILLE w/ JASON II. Lau and Fiji Back-Arc Basins. PI, Mussel-Bed Biodiversity
- 2003 R/V ATLANTIS w/ALVIN. Blake Ridge. Co-Chief Scientist, Exploration of chemosynthetic environments
- 2001 R/V ATLANTIS w/ALVIN. East Pacific Rise. PI, Mussel-Bed Biodiversity
- 2001 R/V ATLANTIS w/ALVIN. Blake Ridge. Chief Scientist, Mussel-Bed Biodiversity
- 2001 R/V ATLANTIS w/ALVIN. Mid-Atlantic Ridge. Chief Scientist, Mussel-Bed Biodiversity
- 2001 R/V KNORR w/ARGO/JASON. Central Indian Ridge. Chief Scientist, Hydrothermal Vent Exploration
- 2000 R/V ATLANTIS w/ALVIN. Florida Escarpment. PI, Mussel-Bed Biodiversity.
- 2000 R/V ATLANTIS w/ALVIN. Juan de Fuca Ridge. Chief Scientist, Search for Phototrophs.
- 1999 R/V ATLANTIS w/ALVIN. 9°N, EPR. PI, Mussel-Bed Biodiversity.
- 1999 R/V ATLANTIS w/ALVIN. Southern East Pacific Rise. PI, Mussel-Bed Biodiversity.
- 1998 R/V ATLANTIS w/ALVIN. Juan de Fuca Ridge. Ambient light with ALISS.
- 1997 R/V ATLANTIS w/ALVIN. 9°N, EPR. Ambient light with ALISS.
- 1996 R/V MELVILLE w/ ARGO. Southern East Pacific Rise
- 1996 R/V KNORR w/ ARGO/JASON. Lucky Strike, Mid-Atlantic Ridge.
- 1996 R/V ATLANTIS II. DWD-106.
- 1996 R/V ATLANTIS II. 9°N, East Pacific Rise. OPUS work.
- 1995 LANEY CHOUEST. Chief Scientist *Sea Cliff/ATV* ops at Juan de Fuca hydrothermal vents.
- 1995 R/V ATLANTIS II. TAG post-drilling dive series, Mid-Atlantic Ridge
- 1994 R/V KNORR. DEEP-TAG pre-drilling survey, Mid-Atlantic Ridge (ARGO-II)
- 1993 R/V ATLANTIS II. 9°N cruise (OPUS expts)
- 1993 R/V ATLANTIS II. Coaxial Event Response Cruise
- 1993 R/V ATLANTIS II. Chief Scientist - Joint US-French ops at Atlantic vents
- 1993 R/V ATLANTIS II. Chief Biologist - Lucky Strike vents, Mid-Atlantic Ridge

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- 1992 R/V ATLANTIS II. Scientist/pilot -- DWD-106 off New Jersey
- 1991 R/V ATLANTIS II. Alvin Pilot -- various sites in eastern Pacific
- 1991 R/V ATLANTIS II. Co-Chief Scientist and Alvin Pilot
- 1990 R/V AKADEMIK MSTISLAV KELDYSH. MIR-2 submersible co-pilot and scientist; dives in Monterey Bay, off Baja California, and Guaymas Basin
- 1990 R/V ATLANTIS II. Alvin Pilot -- various sites in eastern Pacific
- 1989 R/V ATLANTIS II. Alvin Pilot-in-Training -- various deep-sea sites in the Atlantic Ocean and Gulf of Mexico
- 1988 R/V ATLANTIS II. Expedition to East Pacific Rise hydrothermal vents
- 1988 R/V ATLANTIS II. Expedition to Juan de Fuca Ridge hydrothermal vents
- 1988 R/V ATLANTIS II. Expedition to Juan de Fuca Ridge hydrothermal vents
- 1988 R/V ATLANTIS II. Expedition to Gorda Ridge hydrothermal vents
- 1988 R/V ATLANTIS II. Expedition to Guaymas Basin hydrothermal vents
- 1987 R/V KNORR. Expedition to Mohn's Ridge (Arctic Ocean) to survey ridge axis with ARGO and SeaMARC IB imaging systems
- 1986 R/V ATLANTIS II. Expedition to cold seeps of the Florida Escarpment
- 1985 R/V MELVILLE. ARGORISE EXPEDITION to survey East Pacific Rise from 10° to 12°N
- 1985 R/V ATLANTIS II. Expedition to vent sites at 21°N
- 1985 R/V ATLANTIS II. GALAPAGOS '85 EXPEDITION to Rose Garden on Galapagos Spreading Center; Alvin dive
- 1982 R/V MELVILLE. OASIS EXPEDITION to hydrothermal vents at 21°N, East Pacific Rise

WORKSHOPS, STEERING COMMITTEE MEETINGS etc.

- 2016 SEMPIA II (co-convenor; Sintra Portugal November)
- 2016 Ocean World's 2 (NASA; Woods Hole, August)
- 2016 Banded APEI workshop (Lisbon) (co-convenor)
- 2016 SPONGES Kick-off meeting (Bergen; scientific advisory board; April)
- 2016 Griffith University Law School and International Seabed Authority Workshop on Environmental Assessment and Management for Exploitation of Deep Seabed Minerals (Australia; May)
- 2016 DESCEND2: the future of deep-submergence research (Cambridge MA; January; benthic group leader)
- 2015 Deep-Seabed Meeting (Kaplan Foundation), NYC (November)
- 2015 UNESCO World Heritage, Paris (October) Development of an assessment of the potential to apply the concept of Outstanding Universal Value to areas beyond national jurisdiction.
- 2015 Ocean World's Meeting (NASA), Washington DC (October)
- 2015 Mission Blue II (October)
- 2015 Chemosynthetic Crossroads (DOSI). San Diego CA (September)
- 2015 EcoDeep SIP Development of New-Generation Research Protocol for Submarine Resources. French Embassy, Tokyo Japan 92 June-1 July.
- 2015 Towards the development of an Environmental Management Plan for deep seabed mineral exploration and exploitation along the Mid-Atlantic Ridge (EMP-MAR) Horta, Portugal June 2015
- 2015 Arctic Deep-Sea Resources Workshop – Keynote speaker, Bergen NORWAY (May)
- 2015 Environmental Standards for deep seabed mining – Tromsø Norway (May)
- 2015 Vent Connectivity Workshop – Convener. Beaufort NC (Jan)
- 2014 MIDAS Deep-Sea Mining Environmental Impact Statement workshop (Azores October)
- 2014 National Academy of Sciences GULF RESEARCH PROGRAM, Environmental Monitoring Workshop, invited speaker (3-5 September, New Orleans)
- 2014 Deep-Ocean Stewardship Initiative workshop on “Significant Adverse Impact” in deep-sea ecosystems (San Diego 27-28 March)
- 2014 MIDAS Deep-Sea Mining Environmental Impact Statement workshop (London 19-20 March)
- 2013 4th SPC-EU Deep-Sea Minerals Project Training Workshop 9-13 December, Nadi, Fiji
- 2013 Deep-Ocean Stewardship Initiative. 15-17 April, Mexico City.
- 2013 Seafloor Mineral Resources: Scientific, Environmental, and Societal Issues. Invited Speaker. 18-20 March,

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- Kiel Germany
- 2012 Deep-Sea Restoration Workshop. Lead Convener. Sete, France 12-18 November.
- 2012 Deep-Sea Conservation Imperatives. ASLO Salt Lake City 20 February. Session Co-Convenor with Lisa Levin, Craig Smith, Jeff Ardron
- 2011 InterRidge Working Group: Southern Mid-Atlantic Ridge Targeted Exploration (SMART)
- 2011 FSML: Building and Field Stations and Marine Laboratories of the Future. Work Group Chair, Organismal and Population Biology
- 2011 Biological Diversity and Governance of Areas Beyond National Jurisdiction, University of Utrecht, Netherlands Institute for the Law of the Sea (8 July 2011); participation by invitation only
- 2010 Long-Range Exploration Workshop, InterRIDGE. Southampton UK (26-29 June 2010)
- 2010 Design of Marine Protected Areas for Hydrothermal-Vent and Cold-Seep Ecosystems Potentially Threatened by Human Activities in the Deep Sea (Dinard, France 31 May-4 June; Co Chair)
- 2009 Deep-Sea Mining Workshop (Woods Hole), invited speaker
- 2008 ChEss International Steering Committee Meeting, Galapagos, invited speaker
- 2007 National Research Council, Review Committee for the NASA Astrobiology Institute
- 2007 Anniversaries of the Linnaean Society and Geological Society of London; keynote speaker (London)
- 2007 Census of Marine Life Celebration of the 35th anniversary of the discovery of hydrothermal vents; Keynote speaker; Galapagos Islands
- 2007 TSM 07 Workshop, France. Prospective workshop for underwater technology for oceanography. Presentation on Manned Submersibles. 13/14 Dec La Londe-les-Maures, France
- 2007 4th Port Cros Symposium: on the theme of Climate Change and the Ocean. Porquerolles, France
- 2006 Deep-Sea Biology Symposium – Bar Code of Life and ChEss (Southampton)
- 2006 Lau ISS Results Workshop (Reno)
- 2006 RIDGE 2000 Theoretical Institute (Mammoth Lakes)
- 2006 CoML Barcode of Life Workshop (Amsterdam)
- 2006 ChEss Atlantic Equatorial Belt workshop, Barcelona
- 2005 3rd Port-Cros Symposium: on the theme of Deep-Sea Biodiversity. Porquerolles, France 5-7 Oct; invited speaker
- 2005 ChEss International Steering Committee Meeting, La Jolla, 10-11 Sep
- 2005 Working Group Chair Workshop, International Seabed Authority, UN, NYC, 16-17 June
- 2005 Roundtable Discussion: “Bioprospecting in the Deep Sea Bed”, sponsored by the United Nations University; UN, NYC, 9 June
- 2005 Invited Panelist, Book Publishing Workshop, ASLO, Salt Lake City Feb
- 2004 International Seabed Authority (Establishment of environmental baselines at deep seafloor cobalt-rich crusts and deep seabed polymetallic sulphides mine sites in the Area, for the purpose of evaluating the likely effects of exploration and exploitation on the marine environment; Kingston, Jamaica; invited talk, session leader)
- 2004 RIDGE 2000-INTERRIDGE Joint Theoretical Institute (Interactions among Physical, Chemical, Biological, and Geological Processes in Backarc Spreading Systems; Jeju, Korea)
- 2003 RIDGE 2000 Community Workshop (Boulder CO)
- 2003 Census of Marine Life: Archiving Samples (Philadelphia PA)
- 2003 Biogeography and Biodiversity in Chemosynthetic Ecosystems (Southampton UK)
- 2002 Marine Biodiversity: Present, Past and Future (Panel Moderator; Scripps Center for Mar. Biodiver. Conserv.)
- 2002 RIDGE Education Workshop (Invited speaker) (Long Beach, CA)
- 2002 Methane Hydrate Interagency R&D Conference, Invited Speaker (Wash. DC)
- 2001 International Biodiversity Observation Year – Core Project Leaders Workshop (Laurel, MD)
- 2001 Census of Marine Life – Chemosynthetic Ecosystems (Convener; Woods Hole, Sloan Foundation; March)
- 2000 RIDGE: Exploratory Workshop (Nashville, TN)
- 2000 Concept of Operations, NR-2 (US Navy; D.C.)
- 1999 Europa Biology Workshop (NASA)
- 1998 Arctic Ridges, Hannover Germany (InterRIDGE)
- 1998 Hydrothermal Vent Workshop (NASA - Ames)
- 1998 NEPTUNE Working Group, U. Washington (NSF sponsor)

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- 1998 Arctic and Antarctic Access to Undersea Research (NURP/NASA/USCG sponsors)
- 1997 Benthic Census, Rutgers University (Sloan Foundation)
- 1997 Gordon Research Conference, New Hampshire, Origin of Life (Invited Speaker)
- 1997 RIDGE Subsurface Biosphere (Washington DC)
- 1996 Gordon Research Conference, Ventura CA Origin of Life
- 1996 NCEAS Workshop on Deep-Sea Biodiversity, Santa Barbara
- 1996 WCNURC/UAF Marine Mammal and Undersea Research Workshop, Chena Hot Springs
- 1996 WCNURC Monterey Bay Initiative (Co-Convener), Moss Landing
- 1996 WCNURC Gulf of Alaska Initiative (Co-convener), Anchorage
- 1995 InterRIDGE Quantification of Fluxes at the Mid-Ocean Ridge
- 1995 InterRIDGE Event Response and Seafloor Observatories
- 1994 Diversity of Vent Ecosystems, BRIDGE (Plymouth, England). Co-convener
- 1994 RIDGE Event Detection & Response/Temporal Variability Workshop
- 1994 InterRIDGE Indian Ocean Workshop
- 1994 InterRIDGE Arctic Ridges: Results and Planning
- 1993 Pingree Park Food Web Conference
- 1993 RIDGE Theoretical Institute, Big Sky, Montana
- 1993 InterRIDGE Global Meeting. Sponsored by RIDGE, InterRIDGE
- 1993 TAG Drilling Monitoring Studies. Sponsored by RIDGE
- 1993 LITE Workshop. Co-convener; sponsored by NSF/NASA/RIDGE
- 1992 Biology Workshop. Sponsored by RIDGE
- 1992 FARA Workshop. Sponsored by RIDGE
- 1992 Deep Submergence Science Workshop. Sponsored by ONR, NOAA, NSF
- 1992 Research Priorities for New York Bight National Undersea Research Center. Sponsored by Institute of Marine and Coastal Studies at Rutgers University and the Maine Sciences Research Center at SUNY/Stony Brook
- 1991 RIDGE Observing Temporal Variability Workshop. Sponsored by NSF
- 1989 RIDGE Crustal Accretion Variables Workshop. Sponsored by NSF
- 1988 RIDGE Seagoing Experiments Workshop. Sponsored by NSF
- 1988 RIDGE Mapping and Sampling Workshop. Sponsored by NSF
- 1987 The Mid-Ocean Ridge: A Global Ecosystem. Gleneden Beach, OR. Sponsored by the NAS

PROFESSIONAL SERVICE ACTIVITIES AND AFFILIATIONS

- NSF Catalyzing New International Collaborations (CNIC) Panel, May 2014
- MIDAS (Managing Impacts of Deep-Sea Exploitation, EU) Advisory Board member, Nov 2013-
- Faculty Sponsor, Ocean Policy Working Group (2014-)
- Deep-Ocean Stewardship Initiative (DOSI) Steering Committee Member
- Chair, Science Verification Cruise review committee, Fall 2012
- Convener, Sete Workshop on Deep-Sea Restoration, November 2012
- NSF Science and Technology Center, CMOP, Site Visit Team, June 2012
- Ocean Sciences Meeting 2012 (Salt Lake City, Utah Feb. 20-24). Session 071: Deep-sea Conservation Imperatives in the 21st Century. Co-Organizer (with Lisa Levin, Jeff Ardron, Craig Smith)
- Convener, Dinard Workshop on Chemosynthetic Ecosystem Reserves, 29 May-5 June, 2010
- Organizing Committee: Deep-Sea Mining Workshop (Woods Hole 2009)
- InterRidge Working Group Member, Ocean Exploration
- InterRidge Working Group Member, Seafloor Massive Sulfides
- WHOI-MIT Joint Program in Oceanography PhD Program External Review Committee (2009)
- NSF Blue Ribbon Review Ocean Observatories Initiative: Proposed Adjustment to the OOI Network Design (2009)
- COSEE National Advisory Council (2008 - 2012)
- Program Committee, AGU Chapman Conference "Detachments in oceanic lithosphere: deformation, magmatism, fluid flow, and ecosystems (2008 - 2009)
- University of Delaware Marine Science PhD Program External Review Committee (2008)

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University of Maryland Marine Estuarine and Environmental Science PhD Program, External Review Committee Member (2007)
Chair, NASA National Astrobiological Institute CAN Cycle 5 NRA Panel Review (July 2008)
The National Academies, NASA Astrobiology Institute Review Committee (NAICOM; 2007)
NSF Informal Science Education Review Panel Member (2007)
NSF Blue Ribbon Review Panel: Ocean Observatories Initiative Scientific Objectives and Network Design ('06)
American Association for the Advancement of Science; Electorate Nominating Committee member (2004-2007)
Marine Ecology Progress Series Review Staff (2002 - 2006)
Chair, Replacement Human-Occupied Vehicle Oversight Committee (RHOC) (2005 - 2014)
UNOLS (University National Oceanographic Laboratory System) Council, member (2004-2006)
ChEss (Census of Marine Life) Founder and International Steering Committee Member
Founding Member and Trustee, Consortium for Ocean Leadership (2007)
American Geophysical Union, member
The Oceanography Society, member
AAAS, Fellow and member

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INVITED TALKS

3rd Deep-Sea Mining Summit (Aberdeen)
AAAS (2001, 2002)
American Museum of Natural History (NYC)
Arizona State University (Chemistry)
Arizona State University (Geology and Zoology)
Bryn Mawr (Geology and Biology)
Case Western Reserve University
Coast Guard Academy
College of William & Mary
Cornell University
DOE National Science Bowl
Dennison University
Duke University (Durham)
Duke University Marine Laboratory
Elon University
EESTA, Windsor (2013)
Geological Society of London
Gordon Research Conference
Hampton Roads Air & Space Museum
Harvard University
Hypoxia Symposium, Lake Louise
Stanley Gray Lecture, IMarEST, London
Ifremer, Centre de Brest, France
International Women's Forum
(Panelist, "The Age of Discovery")
KAUST, Saudi Arabia
KIOST, Korea
Linnaean Society
Louisiana State University
Luso-American Foundation (Lisbon)
Marine Biological Laboratory
Marquette University
Massachusetts Institute of Technology
Massachusetts Maritime Academy (Panelist)
MIDAS (UK Mining Stewardship)
Michigan State University
Moss Landing Marine Laboratory
Museum of the North (Ontario)
NASA Ames
NASA Goddard
National Science Foundation
New England Society for Electron Microscopy
NOAA Vents Group, Newport OR
Ocean Science Institute
Ohio State University
Old Dominion University
Oregon Institute of Marine Biology
Oregon State University
Palmer Station, Antarctica
Penn State University (x2)
Queen's College, Belfast
Rollins University
Roscoff Marine Biological Station (Roscoff, France)
Royal Geological Society London
Royal Academy of Ireland, U College Dublin
Scripps Institution of Oceanography
Sea Education Semester (Woods Hole)
Sea-Space Symposium
Smithsonian Institution (NMNH)
Southampton College, Long Island University
South Dakota School of Mines
State University of New York, Stony Brook
Syracuse University
Texas A&M (x2)
Towson University
Underwater Intervention Society
Universite Catholique de Louvain (Belgium)
Universite de Bretagne Occidentale (France)
University of Alaska Fairbanks (Geology)
University of Alaska Fairbanks (Inst. Marine Sci.)
University of Alaska Fairbanks (Biology)
University of Alaska Southeast
University of Bergen
University of British Columbia
University of California, Los Angeles
University College Dublin
University of Florida
University of Georgia
University of Guelph (Canada)
University of Leeds (UK)
US Naval Museum
US Naval Observatory
University of North Carolina, Wilmington
University of North Carolina, Chapel Hill
University of North Carolina, Inst. Marine Science
University of North Colorado
University of Rhode Island
University of Richmond
University of Victoria
University of Virginia
University of Wisconsin, Madison
Virginia Living Museum
Washington Philosophical Society
Woods Hole Oceanographic Institution
Virginia Institute of Marine Science
Whitney Laboratory for Marine Bioscience, U Florida
et cetera

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PATENTS

Provisional Application: High Volume Autonomous Deep Ocean Plankton Sampler. U.S. Application No. 62/197,117. Filed July 27, 2015. Patent Cooperation Treaty (PCT) Patent Application: Aquatic Sampler and Collection Apparatus. Inventors: Andrew S. Billings, Carl L. Kaiser, and Cindy Lee Van Dover. Attorney Docket No.: 23682-15. Filed 27 July 2016

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Turner PJ, Campbell LM, Van Dover CL. Stakeholder perspectives on the importance of rare-species research for deep-sea environmental management. *Deep-Sea Research* accepted pending minor revision
Thaler AD, Saleu W, Carlssen J, Schultz T, Van Dover CL. Population structure of *Bathymodiolus manusensis*, a deep-sea hydrothermal vent-dependent mussel from Manus Basin. *PeerJ*
Versteegh EAA, Van Dover CL, Coleman ML. Unsuspected dietary habits of hydrothermal vent shrimp at the Mid-Cayman Rise: new links in a chemoautotrophic food web. *Limnology and Oceanography*
Van Dover, C. L., J. A. Ardron, E. Escobar, K. M. Gjerde, A. Jaeckel, D. Jones, L. A. Levin, H. Niner, L. Pendleton, C. R. Smith, T. Thiel, P. J. Turner, L. Watling, P. P. E. Weaver. Deep-sea mining with no net loss of biological diversity: An unattainable goal. *Science*

IN PRESS

Weaver PPE, Billett DSM, Van Dover CL. Environmental risks of deep-sea mining. Book Chapter. Handbook on Marine Environment Protection – science, impacts, and sustainable management. Salomon M, Markus T (editors) Springer
LaBella A, Jollivet D, Van Dover CL, Cunningham C. Recent colonization of the vesicomyid clam genera *Abyssogena* and *Calyptogena* in the Atlantic Ocean and limited ongoing gene flow. *Deep-Sea Research II*.

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Danovaro R., Aguzzi, J., Fanelli E., Billett D., Gjerde K., Jamieson A., Ramirez-Llodra E., Smith C.R., Snelgrove P.V.R., Thomsen L., Van Dover C. An ecosystem-based ocean strategy. *Science* 355: 452-454.
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Billings, A, Kaiser C, Young CM, Hiebert LS, Cole E, Van Dover CL. (2016) SyPRID Sampler: A Large-Volume, High-Resolution, Autonomous, Deep-Ocean Precision Plankton Sampling System. *Deep Sea Research Part II: Topical Studies in Oceanography*. doi:10.1016/j.dsr2.2016.05.007
Levin LA, Baco AR, Bowden D, Colaco A, Cordes E, Cunha M, Demopolous A, Gobin J, Grupe B, Le J, Metaxas A, Netburn A, Rouse GW, Thurber A, Tunnicliffe V, Van Dover CL, Vanreusel A, Watling L (2016) Hydrothermal vents and methane seeps: Rethinking the sphere of influence. *Frontiers in Marine Science* 3. doi:10.3389/fmars.2016.00072
Meyer K, Wagner J, Ball B, Young C, Van Dover CL (2016) *Hyalinoecia artifex*: Field notes on a charismatic and abundant epifaunal polychaete on the US Atlantic continental margin. *Invertebrate Biology*. doi:10.1111/ivb.12132
Van Dover CL, Arnaud-Haond, Clark MR, Smith S, Thaler A, Van den Hove S (2016) Application of biological studies to deep-sea governance and management of deep-sea resources. In: Biological Sampling in the Deep Sea, Clark M and Consalvey M, eds. Wiley-Blackwell.
Johnson, S. B., Warén, A., Tunnicliffe, V., Dover, C. V., Wheat, C. G., Schultz, T. F., & Vrijenhoek, R. C. (2015). Molecular taxonomy and naming of five cryptic species of *Alviniconcha* snails (Gastropoda: Abyssochrysoidea) from hydrothermal vents. *Systematics and Biodiversity*, 13(3), 278-295.
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- Van Dover CL (1992) Black smokers and 'eyeless' shrimp. *ANH [Australian Natural History]* 24:11.
- Van Dover CL (1991) Untitled. *Smithsonian* 22:22-24.
- Van Dover CL (1991) Diving the MIRs. *Oceanus* 34:8-13.
- Van Dover CL (1988) Dive 2000. *Sea Frontiers* 34:326-331.
- Van Dover CL (1988) Do 'eyeless' shrimp see the light of glowing deep-sea vents? *Oceanus* 31:47-52.
- Van Dover CL (1987) ArgoRise: Outline of an Oceanographic Expedition. *Sea Frontiers* 33:186-194.

MAJOR OUTREACH EFFORTS (incomplete for 2005; not recorded for earlier years and only partially logged in recent years)

Science and Art at the Moment of Discovery (web gallery, in progress)

Kermani video <https://vimeo.com/69368133>

Brubaker video <http://vimeo.com/67687092>

Mok video <http://jojolenelene.net/triptych/>

Beyond the Edge of the Sea: Diversity of Life in the Deep-Ocean Wilderness

<http://web.wm.edu/muscarelle/exhibitions/traveling/beyond/index.html> A traveling exhibition of original deep-sea art, curated by CLVD. Muscarelle Museum of Art, College of William & Mary, Fall 2009; Earth and Minerals Science Museum and Art Gallery, Penn State University, Spring/Summer 2010

Rachel Carson Centennial Blog, month of August 2007 (<http://rcbookclub.blogspot.com/>)

Via Antarctica – a 7-part science video podcast series about the Antarctic environment and global climate change; available on *iTunes* (also at <http://www.wm.edu/news/?id=5503>); produced entirely by clvd

Linnaeus Locus – <http://www.wm.edu/biology/linnaeuslocus/>; a website devoted to the description of a new species

OTHER OUTREACH EFFORTS

Milstein Science Series, American Museum of Natural History; Extremophiles: Life in Extreme Environments

Cachalot app content: Giant Tubeworms (<http://itunes.apple.com/us/app/cachalot/id458866319?mt=8>)

Media briefing, AAAS; technologies in the ocean; 19 Feb 2005

Hampton Roads Air & Space Museum, Teacher's Workshop; lecture/intro to IMAX "Aliens of the Deep"; 26 Feb 2005

Presentation to Easter Island students (50 students, 5th and 6th grades) about research cruise work/vent biology

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Town & Gown talk, W&M; 14 April 2005
MBARI cruise web sites (Pacific Antarctic Ridge, Lau and Fiji Basins)
Vent Biology 101. *Current, The Journal of Marine Education* 21:20-23 (2005)

MEDIA COVERAGE – INCOMPLETE

I am called as an expert by writers of numerous deep-sea mining features and news articles. Plus the shipwreck discovery and new plankton sampler press releases led to hundreds of stories featuring my work. There are so many, I stopped keeping track.

Popular Science (December 2016) Breaking the glass ceiling on the ocean floor

<http://www.popsci.com/cindy-lee-van-dover-alvin-pilot-biologist>

Aljazeera TechKnow – Deep-sea gold rush (December 2015)

<https://www.youtube.com/watch?v=s1b4xVTAKcI>

Environmental Health Perspectives: Going Deep: Cautious Steps toward Seabed Mining.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4559946/> (2015)

University College Dublin Interview <https://www.youtube.com/watch?v=cxAPntAu5JY>

Diving deep with Alvin's first female pilot (Al Jazeera America) □ Oceanography professor Cindy Van Dover talks about deep sea exploration and the future of seabed mining. □ <http://america.aljazeera.com/watch/shows/techknow/articles/2015/2/7/diving-deep-with-alvins-first-female-pilot.html>

The California Sunday Magazine: Feature article: The Deepest Dig by Brooke Jarvis. (Features CLVD).

<https://stories.californiasunday.com/2014-11-02/deep-sea-drilling/>

Nature - <http://www.nature.com/news/james-cameron-explains-science-of-deepsea-challenge-3d-1.15702> (Van Dover quote)

Raleigh News and Observer, Charlotte Observer: Deep-Sea Technology, Talents and Teamwork 14 July 2013

N&O link - <http://www.newsobserver.com/2014/07/13/3992545/nc-state-duke-university-team.html>

CO link -

http://www.charlotteobserver.com/2014/07/13/5031223/nc-state-duke-university-team.html#.U8PCB_lDUdp

Washington Post 'Sherman's Lagoon' cartoonist to explore deep-sea floor Tuesday – but this time, in real life (Washington Post) □ Marine Lab Director Cindy Van Dover has invited Duke alumnus Jim Toomey to dive two miles to the ocean floor aboard the submersible

Alvin. □ <http://www.washingtonpost.com/news/comic-riffs/wp/2014/06/09/shermans-lagoon-cartoonist-to-explore-the-seafloor-today-but-this-time-in-real-life/>

Science Policy (Mengerink et al 2014):

Voice of Russia

http://voiceofrussia.com/uk/news/2014_05_15/Deep-sea-exploitation-Communication-key-in-formulating-global-management-5773/

Nature world news

<http://www.natureworldnews.com/articles/7130/20140519/scientists-call-for-urgent-defense-of-deep-ocean.htm>

Ocean Leadership

<http://oceanleadership.org/experts-call-urgent-defense-deep-ocean/>

Planet Save

<http://planetsave.com/2014/05/19/even-deep-sea-fish-may-facing-extinction-via-environmental-destruction-researchers-warn/>

Daily News

<http://www.dailynewsen.com/science/with-half-the-planet-up-for-grabs-a-call-for-deep-ocean-stewardship-h2493866.html>

Science News Line

<http://www.sciencenewslines.com/summary/2014051615180010.html>

US News

<http://www.usnews.com/news/articles/2014/02/18/scientists-call-for-deep-ocean-stewardship>

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NSU News

<http://nsunews.nova.edu/nova-southeastern-university-researcher-joins-colleagues-in-penning-paper-urging-increased-ocean-stewardship/>

Science Daily

<http://www.sciencedaily.com/releases/2014/05/140515153947.htm>

Media UTAS

<http://www.media.utas.edu.au/general-news/all-news/a-call-for-deep-ocean-stewardship>

SD News

http://sdnews.com/view/full_story/25133415/article-Scripps-deep-ocean-scientists-urge-caution-as-energy-resources-lay-untapped?instance=update1

Earth Magazine June 2014 www.earthmagazine.org Quoted in: Nick Parkins *A deep-sea minefield: The quest to recover seafloor minerals.*

AAAS Feb 2014 Deep-Sea Mining:

1. <http://phys.org/news/2014-02-deep-ocean-policy-stewardship.html>
2. <http://www.bbc.co.uk/news/science-environment-25638838>
3. http://voiceofrussia.com/news/2014_02_18/Oil-gas-exploration-fishing-endangering-ocean-ecosystems-scientists-0258/
4. http://www.ft.com/intl/cms/s/0/26c96126-97ed-11e3-ab60-00144feab7de.html?ftcamp=published_links%2Frs%2Fglobal-economy%2Ffeed%2F%2Fproduct
5. <http://www.redorbit.com/news/science/1113072976/deep-oceans-need-protection-before-too-late-02-1714/>
6. <http://www.thedailystar.net/business/deep-water-ecosystems-hurt-by-human-resource-needs-11799>
7. <http://www.tgdaily.com/general-sciences-features/88201-why-the-deep-ocean-is-earths-last-frontier>
8. <http://www.independent.co.uk/news/science/scientists-warn-over-coming-era-of-deep-sea-mining-9134448.html>
9. http://actu.orange.fr/environnement/news/des-scientifiques-sonnent-l-alarme-sur-l-exploitation-des-fonds-marins-afp_2835706.html
10. <http://www.greenreport.it/news/aree-protette-e-biodiversita/negli-oceani-ci-sono-molti-piu-pesci-del-previsto/>
11. <https://student.societyforscience.org/article/mining-metals-amidst-seafloor-animals>
12. <https://scripps.ucsd.edu/news/scientists-call-new-stewardship-deep-ocean>
13. <http://www.ewsp.com/latest-news/science/science-a-environmental/50234-scientists-warn-against-mass-industrialization-of-deep-sea.html>
14. <http://www.skynews.com.au/eco/article.aspx?id=951362>
15. <http://www.spyghana.com/humanity-must-think-exploiting-deep-sea/>
16. <http://www.ft.com/cms/s/0/26c96126-97ed-11e3-ab60-00144feab7de.html#axzz2thyMzplf>
17. http://www.rappler.com/science-nature/environment/50827-deep-water-ecosystems-threatened-humanshttp://www.eurekalert.org/pub_releases/2014-02/uoc--scf021414.php
18. <http://www.globalpost.com/dispatch/news/afp/140217/human-resource-needs-putting-deep-water-ecosystems-peril>
19. <http://ens-newswire.com/2014/02/18/deep-oceans-need-stewardship-to-prevent-industrial-damage/>
20. <http://environmentalresearchweb.org/cws/article/yournews/56288>
21. <http://www.mintpressnews.com/scientists-warn-mass-industrialization-deep-sea/179883/>
22. <http://www.laboratoryequipment.com/news/2014/02/scientists-call-stewardship-deep-ocean>
23. <http://www.treehugger.com/ocean-conservation/scientists-warn-deep-sea-minings-destructive-potential.html>
24. http://www.sciencecodex.com/deep_ocean_needs_policy_stewardship_where_it_never_existed-128016
25. <http://www.scidev.net/global/bioprospecting/news/scientists-treaty-protect-deep-ocean.html>
26. <http://www.japantimes.co.jp/news/2014/03/01/world/deep-sea-ocean-ecosystems-endangered/#.U>

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27. <http://allafrica.com/stories/201403032032.html>
28. <http://www.abc.net.au/radionational/programs/scienceshow/deep-sea-being-damaged-by-mining2c-trawling/5307534>
29. <http://www.srf.ch/wissen/technik/goldrausch-am-meeresgrund>
30. <http://uk.news.yahoo.com/human-needs-putting-deep-water-ecosystems-peril-123835438.html#zRQtNKc>
31. <http://news.msn.co.nz/worldnews/8801074/oceans-in-peril-say-us-scientists>
32. <http://www.enn.com/wildlife/article/47107>
33. <https://www.commondreams.org/headline/2014/02/17-1>
34. <http://www.sciencedaily.com/releases/2014/02/140216151359.htm>
35. http://www.nacion.com/vivir/ciencia/Cientificos-alertan-uso-fondos-marinos_0_139

ABC Radio Australia 13 December 2013/ Unique species around Pacific sea vents.

<http://www.radioaustralia.net.au/international/radio/program/pacific-beat/unique-species-around-pacific-sea-vents/1234042>

CBS Radio, LA 25 May 2013. Five-minute live interview.

Nature 21 March 2013 “UK company pursues deep-sea bonanza. *Nature* 495, 294 (21 March 2013)

doi:10.1038/495294a

<http://www.nature.com/news/uk-company-pursues-deep-sea-bonanza-1.12635>

BBC NEWS “Science and Environment: UK Seabed Resources joins deep-ocean mineral-mining rush” David Shukman. 14 March 2013.

<http://www.bbc.co.uk/news/science-environment-21774447>

Science Magazine V 339: p 1142 (8 March 2013) Ahoy, Telepresence (a box in a News Focus piece on “A sea change for US Oceanography” by Eli Kintisch.

National Geographic

<http://news.nationalgeographic.com/news/2013/13/130201-underwater-mining-gold-precious-metals-oceans-environment/>

NPR 2 April 2012 Gold miners dig deep – to the ocean floor.

<http://www.npr.org/2012/04/02/149838302/seafloor-becomes-next-frontier-for-gold-diggers>

MSNBC.com 27 March 2012; Deep-sea scientists cheer Cameron’s historic dive

[3/27/2012http://www.msnbc.msn.com/id/46873287/ns/technology_and_science-science/#.T3iD6Xi4Jwx](http://www.msnbc.msn.com/id/46873287/ns/technology_and_science-science/#.T3iD6Xi4Jwx)

Nature News 27 March 2012; James Cameron returns from the deep

<http://www.nature.com/news/james-cameron-returns-from-the-deep-1.10332>

National Geographic 12 March 2012

<http://news.nationalgeographic.com/news/2012/03/120308-james-cameron-deepest-mariana-trench-challenger-science-sub/>

Washington Post 3 January 2012) Deep-sea vents, just north of Antarctica, flourish with species never seen before.

http://www.washingtonpost.com/national/health-science/deep-sea-vents-just-north-of-antarctica-flourish-with-species-never-seen-before/2011/12/19/gIQAX4NgYP_story.html?hpid=z4

Our Amazing Planet (January 2012) First expedition to probe deepest sea vent on Earth.

<http://www.ouramazingplanet.com/2229-expedition-mid-cayman-rise-deepest-hydrothermal-vents.html>

The Badger Herald At Ebling, in-depth paintings of deep sea creatures. 14 December 2011

http://badgerherald.com/artsetc/2011/12/14/at_ebling_in-depth_p.php

Canadian Chemical News Into the Deep (February 2012)

The Library Incubator Project Beyond the Edge of the Sea: Ebling Library Exhibition

<http://www.libraryincubatorproject.org/?p=1064> (22 Nov 2011)

Nature News <http://www.nature.com/news/yeti-crab-grows-its-own-food-1.9537> Yeti crab grows its own food.

Includes expert comments by CLVD on a research report by colleagues. (2 December 2011)

Artes Magazine

<http://www.artsmagazine.com/2011/11/u-wisconsin-madison-exhibit-features-images-of-exotic-creatures-from-oc>

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[an-depths/](#) U. Wisconsin-Madison exhibit features images of exotic creatures from ocean depths. (3 November 2011; Katherine Arcano)

OurAmazingPlanet.org: <http://www.ouramazingplanet.com/ocean-deep-mysteries-exploration-2063/> Earth's Final Frontier: Mysteries of the Deep Sea

Voice of America Online: Deep-Sea Ecosystems at Risk According to Global Marine Census (16 August 2011)
<http://www.voanews.com/english/news/environment/Deep-Sea-Ecosystems-at-Risk-According-to-Global-Marine-Census-127896613.html>

Audubon Magazine.org (August 02, 2011)
<http://magblog.audubon.org/ghost-nets-and-mermaid-tears-human-impact-'-last-great-wilderness'>

Nature blog: Scientists 'lag behind' as human impacts on the deep-sea increase
http://blogs.nature.com/news/2011/08/scientists_lag_behind_as_human_1.html

Leonard Lopate Show (NYC Public Radio) (7 July 2011)
<http://www.wnyc.org/shows/lopate/2011/jul/07/underreported-deep-sea-mining/>

Australian Broadcasting Company Catalyst Deep Sea Mining (9 June 2011)
<http://www.abc.net.au/catalyst/stories/3240156.htm>

New Scientist (Environment). Deep-Sea Gold Rush: Mining Hydrothermal Vents (by Peter Aldhous) (29 June 2011)
<http://www.newscientist.com/article/mg21128193.700-deep-sea-gold-rush-mining-hydrothermal-vents.html>.

Yale Environment 360 Q&A (3 March 2011)
http://e360.yale.edu/feature/deep-sea_mining_is_coming_assessing_the_potential_impacts/2375/

Wired Science 19 July 2010. Deep-sea vent discovery sets hydrothermal life's new depth record.

Discovery News 8 July 2010 *There's gold in them thar...oceans!* Michael Reilly.
<http://news.discovery.com/earth/theres-gold-in-them-thar-oceans.html>

High-seas Biodiversity and Genetic Resources: Science and Policy Questions. RJ Blaustein Bioscience 2010 v 60: 409-413

Oceanography: Death and rebirth in the deep. Jane Qiu (2010) Nature 465:284-286.

RENCI People Interview 5 May 2010
<http://www.renci.org/news/videos/renci-people-interview-with-cindy-van-dover>

NY Times Claudia Dreifus: Conversation With Cindy Lee Van Dover Deep in the Sea, Imagining the Cradle of Life on Earth. October 2007

Digging deep Nature 447:246-247

Duke Environment Magazine Diving into uncharted waters. Spring 2007

Deep-Sea Biology: The Life Aquatic Emma Marris Nature 436:908-909

Our Ocean World Discovering New Creatures (90-second radio feature) 1 March 2005

NPR *Science Friday* 4 March 2005

NPR *Morning Edition* interview in response to Beatty et al. 2005 (PNAS) June 05

Venerable deep-sea sub to be replaced. David Osumi-Sutherland Nature (2004) doi:10.1038/news040802-22

Deep-sea worm sucks blood. Discovery News 22 May 2002 (web site)

Hell's Gape. California Wild. Fall 2002 (p. 26-31)

Want exotic life? Look toward our planet's depths. Daily Press 15 Feb 2002 (Norfolk)

Technology may harm delicate sealife. Daily Press 16 Feb 2002 (Norfolk)

Trawlers called peril to sea life. Richmond-Times Dispatch (Feb 2002)

Setting Sights on Survival. NY Times November 11 (2002)

What lies below? National Geographic, Feb 2003

Diaries from the Deep. The College of William & Mary web site (Nov 2003)

Northern Vents – Arctic shows surprising hydrothermal activity. Science News 163:37 (2003)

W&M student's field trip focuses on in-depth research. Daily Press August 19 2003 (Norfolk)

Windows to the Deep. Richmond-Times Dispatch 6 Sep 2003

Hydrothermal vents and giant tubeworms. Chem Matters. December 2003

Women & the Sea. Schaefer Exhibit Hall, Mystic Seaport (2004)

Sui fondali oceanici tra vermin e valanghe – le scoperte del sommergibile "Alvin". La Stampa, 20 October 2004 (Italy)

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Windows to the Deep: Exploration of Blake Ridge. NOAA Ocean Exploration Annual Rpt for 2003, pp. 12-13.
Searching for Steinbeck's Sea of Cortez, A. Romano-Lax, p.139 – excerpt from *The Octopus's Garden*.
Are we alone? Gloria Skurzynski. National Geographic. 2004
Fallout Feast – Vent crabs survive on victims of plume. Science News 167:6 (2005)
Light from the dark. Carl Zimmer. The Loom (web site; 2005)
Microbe may push photosynthesis into deeper water. Science 308:1855 (2005)
New Scientist (2005)
Lockheed Martin video interview (2007) <http://www.lockheedmartin.com/how/> (select “Below the Surface...How”)
Smithsonian Ocean Hall video interview (2007)
NY Times Science Times quotes in “New Sphere in Exploring the Abyss” 26 August 2008), by William J. Broad.

REVIEWER FOR TECHNICAL JOURNALS, including

American Naturalist
Annual Reviews
Astrobiology
Biodiversity and Conservation
Continental Shelf Research
Deep-Sea Research
Estuarine, Coastal, and Shelf Science
FEMS Microbiology Ecology
G³
Geological Society Special Publications
Geology
Geophysical Research Letters
Geophysical Reviews
Hydrobiologia
Journal of Biogeography
Journal of the Marine Biological Association of the United Kingdom
Journal of Experimental Marine Biology and Ecology
Marine Biology
Marine Ecology
Marine Ecology Progress Series
Marine Environmental Research
Marine Geology
Nature
Nature Communications
Oecologia
Palaeo, Palaeo, Palaeo
PLoS ONE
PNAS
Proceedings of the Royal Society of London B
Science
Princeton University Press
Harvard University Press + other book publishers

Diversity Efforts

2009 Recruited Xavier Basurto to the Division of Marine Science and Conservation
2010- Lectureship Program (sent 5 graduate students/research scientists to give lectures/seminars at Hampton University, Savannah State University, and Elizabeth City State University) ONGOING
2010 Successful recruitment of 2 minority students to Spring 2011 Semester Fellowships at the Marine Lab (Oak Foundation)

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- 2011 ASLO Minority Program Mentor, ASLO Meeting (Feb 2011)
- 2011 Lectureship Program (sent 6 graduate students/research scientists to give lectures/seminars at Hampton University, Savannah State University, and Elizabeth City State University)
- 2011 Minority Fellowships for Fall semester (2 students; Wade Family Endowment)
- 2011 OCE Post-doctoral research fellowships matching effort
- 2012 OAK Foundation program for 2 minority fellowships each Spring
- 2012 Kersey Sturdivant target of opportunity seminar/visit/hire
- 2012- Summer minority fellowships
- 2012 Minority Fellowships for Fall semester (2 students)
- 2012 Lectureship Program (5 participants)
- 2013 Lectureship Program (3 participants)

Judging

- 2012 Jackson Hole Science Media Awards

DATA PRODUCTS

R/V Knorr 162-13 Multibeam Sonar (Central Indian Ridge)

http://www.marine-geo.org/statistics/AnnualSummary/2012_01/WebPages/VanDover_Cindy.php

See also search on Van Dover; 10 citations at Marine Geoscience Data System

REVIEWER FOR FUNDING AGENCIES, including

NASA Astrobiology
NASA -- ASTEP
NOAA--National Undersea Research Program
NOAA--Ocean Exploration
NSF Archaeology
NSF Biotic Surveys
NSF Biological Oceanography
NSF Blue Ribbon Panel, Ocean Observatory Initiative
NSF Informal Science Education
NSF Field Stations and Marine Laboratories
NSF Marine Geology and Geophysics
NSF Physical Oceanography
NSF Oceanographic Instrumentation
NSF Polar Programs
NSF Science and Technology Center Review
Ifremer (France)
NERC (UK)
AAAS
Fulbright Program

William & Mary Undergraduate Honors Students

Susan Bacon (2000)
Estella Callie Raulfs (2003 Fall)
Mark Doerries (2003)
Anne Mills (2004)
Megan Evans (2005)
Carol Logan (2006)

William & Mary Freshman HHMI Research Students

Julianne Pupa (2002)

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William & Mary Undergraduate Thesis Students (non-honors)

Christina Terlizzi (2003)
Elizabeth Blake (2004)
Matthew Whalen (2006)
Jamie Underdown (2006)
Brooke Anderson (2006)
Heather Heiser (2007)

William & Mary Masters Students (date degree granted or to be granted)

Jennifer Trask (UAF 1998)
Mary Turnipseed (2002)
Megan Ward (2003)
Katie Knick (2003)
Jennifer Salerno (2003)
Shana Rapoport (2003)
Jenny Dreyer (2004)
Taylor Heyl (2004 Fall)
Jessica Wallace (2005)
Elizabeth Blake (2006)
Kristie Erickson (2007)

Duke University Undergraduate Honors Students

Rebecca Jones (Rachel Carson Scholar) 2009
Fei Lian 2010
Alix Jacobsen (Rachel Carson Scholar) 2011

Duke Marine Lab Bookhout Scholars

Molly McEntee (Summer 2012)
Zack McKelvey (Summer 2012)
Emily Boyle (Summer 2013)
Schanche, Caroline (Summer 2014)

Duke Undergraduate Independent Study

Carol Logan (2007)
Nicole Change (Su 2011)
Mengyou Wu (Fa 2011)
Mengya Wu (Fa2011)
Giovanni Torres (Fa 2011)
Emily Boyle (F 2012)
Elizabeth Hoerouf (S 2013)

Duke University MEM students (commencement year)

Virginia Bostock (2010?)
Alissa Marturano (2011)
Varun Kumar (2011)
Ning Wang (2011)
Nicole Carlozo (2012)
Melissa Kemm (2012)
Kate Brogan (2013)
Sarah Gillig (2014)
Sean Stanton (2014)
Sarah Sargent (2015)

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Luke Slivinski (2015)
Sarah Hoyt (2016)
Scot Delgado (2016)
Jedediah Raskie (2016)
Austin Smith (2017)

Duke University PhD Students

Andrew Thaler (2007-2012)
David Honig (2008-)
Megumi Shimizu (2010-2016)
Jameson Clarke (2011-2012 non degree)
Jamie Wagner (2012-2015 non degree)
Phillip Turner (2014-)

Post-Doctoral Scholars

Sophie Plouviez (June 2010 – Aug 2014)
Andrew Thaler (September 2012- Jan 2013)
Kersey Sturdivant (2012-2015)

Technicians

Bernie Ball (July 2010 - 2016)
Alix Jacobson (June 2012-May 2013)
Eli Cole (Summer 2014)

Bursary Students (from Papua New Guinea)

Martha Mungkaje (2007)
William Saleu (2008)
Hosea Gonuma (2011)
Freddie Alei (2012)

International Seabed Authority Trainee

William Saleu (15 November 2009 through 15 September 2010)

Highschool Volunteer

Gray Hill (Summer 2014)

Visiting Scientists

Laurent Godet (2 months; 2009; France)
Verity Nye (1 month; 2011; UK)
Se-Joo Kim (2 weeks; 2011; Korea)

Examiner

- PhD Thesis, **Ana Hilario**, University of Southampton UK. 2005, Southampton UK
- Accreditation to Conduct Research for **Linwood Pendleton**. France. [Soutenance d'habilitation à diriger des recherches (l'HDR)]. 18 November 2016, Brest France
- PhD Thesis Accreditation, **Ivan Hernandez**, Université de Bretagne Occidentale (UBO), 23 November 2016, Brest France