

Scott Alan Eckert

Current Position(s)

Chairman, Biology and Natural Resources Department, Principia College
Professor of Biology: Principia College
Director of Science: Wider Caribbean Sea Turtle Conservation Network

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or

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Education

1989-1990 *Physiological Research Lab, Scripps Institution of Oceanography
University of California at San Diego*

Post-Doctoral Research Associate

- Supervisor: Dr. Gerald Kooyman
- Projects: Post-nesting movements and dive behavior of leatherback sea turtles. Heart rates, swim speed and dive behavior of emperor penguins and weddell seals.

1985-1989 *Department of Zoology, University of Georgia*

Ph.D., Zoology

- Advisor: Robert C. Taylor
- Title of Dissertation: Diving and Foraging Behavior of the Leatherback Sea Turtle, *Dermochelys coriacea*
- Projects: Design of attachment mechanisms for leatherback sea turtles. Internesting dive and foraging behavior of leatherback sea turtles nesting at Sandy Point, St. Croix, U.S. Virgin Islands. Oxygen storage capacity of the deep diving leatherback.

1975-1979 *Principia College, Illinois*

B.S., Biology

- Senior Thesis Supervisor: Walter Crawford, Raptor Rehabilitation and Propagation Project, Tyson Research Center, St. Louis, Missouri
- Senior thesis topics: Pellet Retention in Three Species of Raptor: Red-tailed Hawk (*Buteo jamaicensis*), Barred Owl (*Strix varia*), and Screech

Owl (*Otus asio*). Artificially Induced Breeding Behavior as a Result of Hormonal Injections in Five Species of Incapacitated Raptors.

Career Interests

Endangered Species Research and Management, Diving Physiology, Ecological Physiology, Conservation Biology, Marine Turtle Management and Conservation

Teaching Experience

1984-1987 Teaching Assistantship, University of Georgia:
Vertebrate Zoology (1984, 1985, 1986); Physiology (1986, 1987)

2007-2008 Duke University: Marine Megafauna

2004-2010 Duke University (Spring Semester): Biology and Conservation of Sea Turtles

2005-2008 Duke University (Summer Term II): Biology and Conservation of Sea Turtles

2008 The Principia Upper School: (Substitute Teacher) Man and the Environment

2008 The Principia Upper School: (Substitute Teacher) Marine Biology

2009 – cont. Principia College courses taught:

- Advanced Ecology Seminar
- Biology and Conservation of Sea Turtles
- Field and Natural History
- Herpetology
- Introductory Zoology
- Introductory Ecology
- Ornithology
- Wildlife Conservation
- Wildlife Management
- Marine Biology
- Natural History of Peru
- Fisheries Biology
- Biology Capstone Seminar
- Methods in Research and Writing

Student Advising

PhD Advisor:

Wendy Dow Pinniak (2012), Duke University (Co-Advisor with Andrew Read), "(Sea turtles and sound: audition and the effects of marine sound on hearing and behavior)"

Mike James (2005), Dalhousie University (Co-Advisor with Ramson Myers), "At-sea biology and movements of leatherback turtles, *Dermodochelys coriacea*, in the Northwest Atlantic"

PhD Committee Member:

Rhema Kerr Bjorkland (2011), Duke University

Shaleyla Kelez (2010), Duke University

Kelly Stewart, Duke University, (2009) "Establishment of a leatherback rookery in Florida: evidence for nesting range expansion in the Atlantic Ocean"

Suzie Nugent, University of Nevada, Reno, (2012) "Polyandry in the Leatherback Sea Turtle (*Dermodochelys coriacea*)"

Julian Wolcott, University of the West Indies (2014)

Master of Science Advisor:

John Nelson (2004), University of San Diego, "Distribution and foraging ecology by whale sharks (*Rincodon typus*) within the Bahia de Los Angeles, Baja California Norte, Mexico"

Michelle Siegle Coghill (2003), University of San Diego, "An examination of optimal egg size (OES)

theory in the Olive Ridley sea turtle (*Lepidochelys olivacea*)”

Master of Science Committee:

Anne-Marie Maraj (2004), University of Central Florida “A comparison of the hatching success of the leatherback turtle (*Dermochelys coriacea*) with the loggerhead and green turtle on central and south Brevard county beach, Florida”

Professional Master’s Degree Program (MEM/CEM Advisor), Duke University:

2004 Graduates: Christina Hodge

2005 Graduates: Cassandra Marichal, Elizabeth Fetherstone

2006 Graduates: Erika Robbins, Kim Maison, Jordan Gass

2007 Graduates: Andrew DiMatteo, Jennifer LaLiberte

2008 Graduates: Danielle Buonantony, Jake Sobin

2009 Graduates: Katherine McClellan

Undergraduate Capstone / Senior Thesis Advisor / Other Thesis Advising

Natasha Telschow: Principia College

Adam Eckert: Principia College

Andrew Jesper: Principia College

Steve Bailey: Principia College

Peter Telschow: Principia College

JT Jones: Principia College

Scott Ross: Principia College

Hilary Frandsen: Principia College

Kelly Adams: : Principia College

Taylor Chichester: Principia College

Mckinzie Wilgus: Principia College

Ken Baughman: Principia College

Lindsey Kasl: Principia College

Lulu Mossman: Principia College

Nick Tosto: Principia College

Jeff Strickland: Principia College

Christina Day: Principia College

Janet Irvine: Principia College

Christian Hagenlocher: Principia College

Rigel Valentine: Principia College

Sandra Ferraroli – Université Louis Pasteur, Strasbourg, France

Lotus Vermeer – Univ. of the West Indies, Barbados.

Research Experience

- 2013 – continuing: **“Home range and habitat use of the timber rattlesnake in the Principia College forest”**
Location: Elsah, IL.
Position: Principal Investigator
Funding: NGGREC, Principia College, Private Donor
- 2015 - continuing: **“Deep water foraging by the leatherback sea turtle (*Dermochelys coriacea*) off St. Croix, USVI”**
Location: St. Croix, USVI
Position: Thesis co-advisor with Randall Davis
Funding: Texas A&M University & WIDECAS
- 2014 - 2017: **“Reducing impact on nesting sea turtles by seismic surveys”**
Location: Aruba, West Indies
Position: Principal Investigator
Funding: Repsol
- 2010 – 2012 **“Setting Boundaries”** Using vessel monitoring systems to develop time area closure regulations to reduce leatherback bycatch in Trinidad artisanal fisheries.
- 2010 - 2012 **“Leading the way”** Teaching fishers turtle safe fishing methods
Location: Trinidad and Tobago
Position: Principal Investigator
Funding: Worldwide Fund for Wildlife
- 2009 **Hatchling production from the world’s largest leatherback sea turtle (*Dermochelys coriacea*) nesting colony**
Location: Trinidad and Tobago
Position: Principal Investigator
Funding: Earthwatch
- Interactions between leatherback turtles and fisheries in the Pacific Ocean**
Location: WIDECAS Headquarters, Ballwin, Missouri
Position: Chair, Mexico Section
Funding: Lenfest Ocean Program, PEW Charitable Trusts
- Providing incentives for gillnet fishers to cease killing leatherback turtles**
Location: Trinidad and Tobago
Position: Principal Investigator
Funding: CGMK Foundation, WWF, National Marine Fisheries Service (NMFS), National Fish and Wildlife Foundation (NFWF)
- 2008 **Preventing the death of leatherback turtles by in coastal gillnets**
Location: Trinidad and Tobago
Position: Principal Investigator
Funding: CGMK Foundation, WWF, NMFS, NFWF
- Preventing harm caused by sound produced by oil and gas exploration and drilling to the endangered hawksbill sea turtle (*Eretmochelys imbricata*)**
Location: Barbados
Position: Co-Principal Investigator (with Wendy Dow)
Funding: SeaWorld Busch Gardens Conservation Fund, WIDECAS
- Eliminating gillnet-caused leatherback sea turtle mortality, Trinidad**
Location: Trinidad and Tobago
Position: Principal Investigator
Funding: Disney Wildlife Conservation Fund, WWF, NMFS, NFWF
- 2007 **Sensory biology of sea turtles IV: Hearing and color sensitivity in green and leatherback sea turtles**
Location: University of British Columbia (Canada)

Position: Principal Investigator

Funding: NMFS

Eliminating the mortality of leatherback turtles in gillnet fisheries – new methods, new gear

Location: Trinidad and Tobago

Position: Principal Investigator

Funding: Disney Foundation, WIDECAS, NFWF, NMFS, CGMK Foundation

It's all about depth: reducing net profile to reduce leatherback capture in Trinidad's artisanal mackerel gillnet fishery

Location: Trinidad and Tobago

Position: Principal Investigator

Funding: Disney Foundation, WIDECAS, NFWF, NMFS, CGMK Foundation

2006 **Field tests to evaluate the target catch and bycatch reduction effectiveness of surface and mid-water drift gillnets in Trinidad**

Location: Trinidad and Tobago

Position: Principal Investigator

Funding: WIDECAS, NMFS

Sensory Biology III: diurnal color vision in the leatherback sea turtle

Location: Trinidad and Tobago

Position: Principal Investigator

Funding: NMFS, JIMAR (Honolulu)

2004-2006 **Modeling habitat use of juvenile loggerhead sea turtles in the Alboran Sea using geospatial analysis of satellite telemetry derived data**

Location: Alboran Sea, Spain

Position: Principal Investigator (with Karen Eckert and Ricardo Sagarminaga)

Funding: European Union, Life Grant

2004 **Sensory Biology II, nocturnal visual sensitivity in leatherback sea turtles**

Location: Trinidad and Tobago

Position: Principal Investigator

Funding: NMFS

2003-*ongoing* **Protecting the world's largest nesting colony of leatherback turtles**

Location: Trinidad and Tobago

Position: Principal Investigator (with Dennis Sammy)

Funding: Earthwatch

Sensory Biology I, visual sensitivity in loggerhead and green sea turtles

Location: SeaWorld, San Diego (USA)

Position: Principal Investigator

Funding: NMFS

2000-2006 **Habitat use by leatherback sea turtles in the North Pacific, as determined through satellite telemetry**

Location: Monterey Bay, California (USA)

Position: Principal Investigator

Funding: NMFS, PADI Foundation, Chevron

2002-2004 **Can leatherback sea turtle bycatch in the swordfish longline fishery be reduced by modifying fishing methods?**

Location: California (USA)

Position: Principal Investigator

Funding: Salton-Stahl Kennedy Funds - U.S. Department of Commerce

2002 **Post nesting movements and migrations of the leatherback sea turtle**

Location: Trinidad and Tobago

Position: Principal Investigator

Funding: HSWRI, Salton-Stahl Kennedy Funds - U.S. Department of Commerce

2000-2003 **Habitat use of leatherback sea turtles in the North Atlantic Ocean, as**

- determined through satellite telemetry**
 Location: Archie Carr National Wildlife Refuge & Juno Beach, Florida (USA)
 Position: Principal Investigator
 Funding: Space Media Institute, Florida Space Research Initiative, NMFS
- 2000 **Post-nesting migration, movements and behavior of the Pacific leatherback sea turtle, as determined through satellite telemetry**
 Location: Llano Grande, Mexico
 Position: Principal Investigator
 Funding: NMFS
- 1999-2003 **Aerial census of leatherback sea turtles nesting in Mexico**
 Location: Baja Peninsula, Mexico
 Position: Principal Investigator
 Funding: NMFS
- 1999 **Post-nesting migration and habitat use by Atlantic leatherback sea turtles**
 Location: Trinidad and Tobago
 Position: Principal Investigator
 Funding: WIDECAST, Hubbs SeaWorld Research Institute (HSWRI)
- Post-nesting migration and dive behavior of the leatherback sea turtle**
 Location: Llano Grande, Oaxaca (Mexico)
 Position: Principal Investigator
 Funding: NMFS
- Whale shark movements, habitats and home range in the Sulu-Sea as determined using satellite telemetry (part 2)**
 Location: Donsol (The Philippines)
 Position: Co-Principal Investigator
 Funding: U.S. National Science Foundation
- 1998 **Whale shark movements, habitats and home range in the Sulu-Sea as determined using satellite telemetry (part 1)**
 Location: Sabah (Malaysia) and The Philippines
 Position: Co-Principal Investigator
 Funding: U. S. National Science Foundation
- Auditory response and acoustic sensitivity of leatherback sea turtles to low frequency sound**
 Location: Trinidad and Tobago
 Position: Co-Principal Investigator
 Funding: Breakthrough Films and Television
- 1997 **Post-nesting migration and dive behavior of the leatherback sea turtle**
 Location: Mexiquillo, Michoacán (Mexico)
 Position: Principal Investigator
 Funding: NMFS
- Effect of seismic oil survey on the inter-nesting movements and behavior of the leatherback sea turtle**
 Location: Trinidad, West Indies
 Position: Principal Investigator
 Funding: BHP Petroleum, Inc.
- 1996 **Pilot project to determine heart rates, swim speeds dive patterns and hearing capacity of the leatherback sea turtle**
 Location: Trinidad, West Indies
 Position: Principal Investigator
 Funding: Scripps Institute of Oceanography
- Using satellite telemetry to monitor movements, foraging behavior and temperature preferences of the Whale Shark (*Rhincodon typus*) in the Sea of Cortez**
 Location: Bahia de Los Angeles, Baja California (Mexico)

- Position: Co-Principal Investigator
Funding: SeaWorld, HSWRI
- 1995-1996 **Effects of low-flying jet aircraft on metabolic rate, heart rate, hearing sensitivity and behavior of the desert tortoise (*Gopherus agassizi*)**
Location: San Diego
Position: Co-Principal Investigator
Funding: U. S. Air Force
- 1995 **Heart rate and physiologic responses to cold in the East Pacific green turtle**
Location: San Diego, California (USA)
Position: Principal Investigator
Funding: HSWRI
- Dive patterns, swim speed and post nesting movements of the leatherback sea turtles using satellite telemetry**
Location: Trinidad and Tobago
Position: Principal Investigator
Funding: AMOCO
- 1993 **Post-nesting migration and diving by leatherback turtles, using satellite telemetry**
Location: Mexiquillo, Michoacán (Mexico)
Position: Principal Investigator
Funding: NMFS, HSWRI
- Internesting movement patterns, dive behavior and swim speeds of the leatherback sea turtle in a deep water environment**
Location: St. Croix (U.S. Virgin Islands)
Position: Principal Investigator
Funding: Earthwatch, HSWRI, NMFS
- 1992 **Sea turtle nesting beach surveys of Wotje and Erikup Atolls**
Location: Republic of the Marshall Islands
Position: Principal Investigator
Funding: NMFS, the Republic of the Marshall Islands
- 1991 **Swim speeds, heart rates and dive depths of adult leatherback sea turtles**
Location: Mexiquillo, Michoacán (Mexico)
Position: Principal Investigator
Funding: Private
- Inter-nesting movements and behavior of hawksbill sea turtles (*Eretmochelys imbricata*) using sonic and VHF telemetry**
Location: Buck Island, St. Croix (U. S. Virgin Islands)
Position: Principal Investigator
Funding: U. S. National Park Service
- Using satellite technology to document foraging behavior and migration routes of leatherbacks nesting on the Pacific coast of Mexico**
Location: Mexiquillo, Michoacán (Mexico)
Position: Principal Investigator
Funding: Private
- 1990 **Distribution and abundance of sea turtles in Grenada**
Location: Grenada
Position: Principal Investigator
Funding: Foundation for Field Research (Alpine, CA)
- Exercise metabolism in Emperor penguins**
Location: Scripps Institution of Oceanography (La Jolla, CA)
Position: Post-Doc/Associate Investigator
Funding: U. S. National Science Foundation
- 1989 **Diving behavior and physiology of the Emperor penguin**
Location: Cape Washington, Antarctica

Position: Staff Research Associate (Scripps Institution of Oceanography)

Funding: U.S. National Science Foundation (Division of Polar Programs)

Radio-tracking leatherback sea turtles in Malaysian waters to establish boundaries for an offshore Marine Sanctuary

Location: Terengganu (Malaysia)

Position: Principal Investigator

Funding: National Council for Scientific Research and Development (Malaysia), Universiti Pertanian Malaysia, State Government of Terengganu, Greenpeace-USA, World Wildlife Fund-International

1988 **Physiology of diving in Weddell seals and Emperor penguins**

Location: McMurdo Station, Antarctica

Position: Staff Research Associate (Scripps Institution of Oceanography)

Funding: U.S. National Science Foundation (Division of Polar Programs)

Energetics of sediment removal in Caribbean reef-building corals; Neuropharmacology of photoreception in corals; Zooplankton feeding in Caribbean corals

Location: Aquarius Undersea Habitat, St. Croix (U. S. Virgin Islands)

Position: Associate Investigator/Saturating Aquanaut

Funding: NOAA National Undersea Research Program

1987 **Subsistence turtling by indigenous Amerindians**

Location: Waini Point, Northeast Territories, Guyana

Position: Co-Principal Investigator

Funding: Private

1987-1989 **Graduate Student Research Assistantship**

Location: Graduate School, University of Georgia

Funding: University of Georgia

1984-1985 **Diving patterns of free-swimming leatherback turtles**

Location: St. Croix (U. S. Virgin Islands)

Position: Principal Investigator

Funding: Earthwatch/Center for Field Research, Scripps Inst. Oceanography, U.S. Fish and Wildlife Service (USFWS), USVI Division of Fish and Wildlife

1982-1985 **Nesting biology of the leatherback sea turtle**

Location: St. Croix, United States Virgin Islands

Position: Principal Investigator

Funding: Earthwatch/Center for Field Research, USFWS, USVI Div. Fish and Wildlife

1982 **Diel foraging patterns of green sea turtles (*Chelonia mydas*)**

Location: West Indies Laboratory, St. Croix (U. S. Virgin Islands)

Position: Associate Investigator

Funding: The National Geographic Society

1980-1981 **Nesting biology of the loggerhead sea turtle**

Location: Little Cumberland Island, Georgia (USA)

Position: Co-Director, Field Operations

Funding: LCI Home-Owners Association, National Audubon Society

1979 **1) Pellet retention in three species of raptor: red-tailed hawk (*Buteo jamaicensis*), barred owl (*Strix varia*), and screech owl (*Otus asio*) 2) Artificially induced breeding behavior as a result of hormonal injections in 5 species of incapacitated raptor**

Location: Raptor Rehabilitation and Propagation Project, Tyson Research Center (MO)

Position: Project Director

Funding: Principia College, Tyson Research Center

Scientific Advisor/Service (highly abridged)

- 2016- continuing **Section Editor**, Animal Biotelemetry.
- 2011 – 2015 **Member**, Advisory Board, National Great Rivers Research and Education Center
- 2007-2012 **Member**, Board of Directors, International Sea Turtle Society
- 2004-(*ongoing*) **Member**, Consultative Committee, Inter-American Convention for the Protection and Conservation of Sea Turtles
- 2001-2003 **Member**, Scientific and Statistical Commission (SSC) of the Western Pacific Regional Fishery Council, Honolulu, Hawaii
- 2001-2008 **Team Leader**, Census of Marine Life, Tracking of Pacific Pelagics (TOPP) Sea Turtle Working Group
- 2000 **Member**, Canadian Pacific Leatherback Sea Turtle Recovery Team
- 1997-1998 **Consultant / Expert Witness**, World Trade Organization, Geneva, Switzerland
Case Title: *United States - Import Prohibition of Certain Shrimp and Shrimp Products*
- 1996-2002 **Senior Science Advisor**, Wider Caribbean Sea Turtle Conservation Network
- 1996-2004 **Scientific Advisor**, Asociacion Sudcaliforninana de Proteccion al Medio Ambiente y la Tortuga Marina A.C. (ASUPMATOMA)
- 1995-(*ongoing*) **Science Director**, Nature Seekers, Trinidad and Tobago
- 1992 **Chairman**, NOAA "Blue Ribbon Panel: Kemp's Ridley Head-Starting Experimental Design Reviews"
- 1993-1999 **Chairman**, U.S. Recovery Team for Marine Turtles (Pacific Basin)
- 1990 **Instructor**, NMFS Coastal (Pacific) Fisheries Observer Program
- 1990 **Instructor**, NMFS / IATTC Pacific Tuna Fleet Observer Training Program
- 1992 **Member**, Board of Directors, Annual International Symposium on Sea Turtle Biology and Conservation
- 1989-(*ongoing*) **Member**, Marine Turtle Specialist Group (IUCN Species Survival Commission)
- 1989 **Member**, Steering Committee, 9th Annual International Symposium on Sea Turtle Biology and Conservation
- 1988-1997 **Co-Editor** (with K. L. Eckert), *Marine Turtle Newsletter*
- 1988 **Consultant**, U.S. Recovery Team for Marine Turtles (Atlantic/Caribbean Sea)
- 1988-1990 **Board of Scientific Advisers**, David E. Luginbuhl Research Institute for Endangered Species
- 1990 **Research Consultant**, National Park Service, Virgin Islands National Park/Buck Island National Monument, St. Croix, USVI
- 1986 **Chief Scientist**, Turtle Excluder Device (TED) Testing, Canaveral Harbor, NOAA National Marine Fisheries Service

Academic Assistantships

- 1978 Teaching Assistantship: Department of Biology, Principia College
- 1984-1987 Teaching Assistantship: Department of Zoology, University of Georgia

Awards

- 1984 Department of Commerce's National Marine Fisheries Service Recognition Award for "outstanding efforts in sea turtle conservation"
- 1989 Antarctic Service Medal

Publications

Refereed Manuscripts

- Guzman, M.H., C.G. Gomez, A. Hearn, S.A. Eckert, 2018. Longest recorded trans-Pacific migration of a whale shark (*Rhincodon typus*). Marine Biodiversity Records 11(8)
<https://doi.org/10.1186/s41200-018-0143-4>.
- Piniak, W.E.D., D.A. Mann, C.A. Harms, T.T. Jones, S.A. Eckert. **2016**. Hearing in the Juvenile Green Sea Turtle (*Chelonia mydas*): A Comparison of Underwater and Aerial Hearing Using Auditory Evoked Potentials. PLoS ONE 11(10): e0159711.
Doi:10.1371/journal.pone.0159711
- Van der Wal, S., S.A. Eckert, J.O. Lopez-Plana, W. Hernandez and K.L. Eckert. **2016**. Innovative measures for mitigating potential impacts on sea turtles during seismic surveys. In: Society of Petroleum Engineers, Proceedings of the International Conference and Exhibition on Health, Safety, Security, Environment, and Social Responsibility. Stavanger, Norway. 11-13 April 2016. SPE-179215-MS. 11 pp.
- S. Fossette, M.J. Witt, P. Miller, M.A. Nalovic, D. Albareda, A.P. Almeida, A.C. Broderick, D. Chacon-Chaverri, M.S. Coyne, A. Domingo, S. Eckert, D. Evans, A. Fallabrino, S. Ferraroli, A. Formia, B. Giffoni, G.C. Hays, G. Hughes, L. Kelle, A. Leslie, M. Lopez-Mendilaharsu, P. Luschi, L. Prosdociami, S. Rodriguez-Heredia, A. Turny, S. Verhage, and B.J. Godley. **2014**. Pan-Atlantic analysis of the overlap of a highly migratory species, the leatherback turtle, with pelagic longline fisheries. Proceedings of the Royal Society B. 281:20133065.
- Stewart, K.R., K.J. Martin, C. Johnson, N. Desjardin, S.A. Eckert, L.B. Crowder. **2014**. Increased nesting, good survival and variable site fidelity for leatherback turtles in Florida, USA. Biological Conservation. 176:117-125.
- Walcott, J., S. Eckert, H.A. Oxenford, J.A. Horrocks. **2014**. Use of a towed camera system to investigate benthic habitat use by inter-nesting female hawksbill sea turtles. Endangered Species Research. 24:159-170.
- Roe, J. H., S. J. Morreale, F. V. Paladino, G. L. Shillinger, S. R. Benson, S. A. Eckert, H. Bailey, P. S. n. Tomillo, S. J. Bograd, T. Eguchi, P. H. Dutton, J. A. Seminoff, B. A. Block, and J. R. Spotila. **2014**. Predicting bycatch hotspots for endangered leatherback turtles on longlines in the Pacific Ocean. Proceedings of the Royal Society B 281:20132559.
- Harms, C. A., W. E. D. Piniak, S. A. Eckert, and E. M. Stringer. **2014**. Sedation and anesthesia of hatchling leatherback sea turtles (*Dermochelys coriacea*) for auditory evoked potential measurement in air and in water. Journal of Zoo and Wildlife Medicine 45:95–101.
- Schick, R. S., J. J. Roberts, S. A. Eckert, P. N. Halpin, H. Bailey, F. Chai, L. Shi, and J. S. Clark. **2013**. Pelagic movements of Pacific leatherback turtles (*Dermochelys coriacea*) highlight the role of prey and ocean currents. Movement Ecology 2013:11.
- Dutton, P. H., S. E. Roden, K. R. Stewart, E. L., M. Tiwari, A. Formia, J. C. Thome', S. R. Livingstone, S. Eckert, D. Chacon-Chaverri, P. Rivalan, and P. Allman. **2013**. Population stock structure of leatherback turtles (*Dermochelys coriacea*) in the Atlantic revealed using mtDNA and microsatellite markers. Conservation Genetics DOI: 10.1007/s10592-013-0456-0.
- Walcott, J., S. Eckert, and J. A. Horrocks. **2013**. Diving behaviour of hawksbill turtles during the inter-nesting interval: Strategies to conserve energy. Journal of Experimental Marine Biology and Ecology 448:171–178.
- Eckert, K.L., B.P. Wallace, J.G. Frazier, S.A. Eckert, and P.C.H. Pritchard. **2012**. Synopsis of the biological data on the leatherback sea turtle (*Dermochelys coriacea*). U.S. Department of Interior, Fish and Wildlife Service, Biological Technical Publication BTP-R4015-2012, Washington, D.C.
- Bailey, H., S.R. Benson, G.L. Shillinger, S.J. Bograd, P.H. Dutton, S.A. Eckert, S.J. Morreale, F.V. Paladino, T.Eguchi, D.G. Foley, B.A. Block, R.Piedra, C. Hitipeuw, R.F. Tapilatu and J. R. Spotila. **2012**. Identification of distinct movement patterns in Pacific leatherback

- turtle populations influenced by ocean conditions. *Ecological Applications*, 22(3):735–747
- Dow Piniak, W.E., D.A. Mann, S.E. Eckert, C.A. Harms. **2012**. Amphibious hearing in sea turtles. Pgs 83-87 in A.N. Popper and A. Hawkins (Eds.) *The Effects of Noise on Aquatic Life*, Springer, New York. 695p.
- Walcott, J., S. Eckert, J.A. Horrocks **2012** (online). Tracking hawksbill sea turtles (*Eretmochelys imbricata*) during inter-nesting intervals around Barbados. *Mar Biol.* DOI 10.1007/s00227-011-1870-9.
- Almeida, A.P, Eckert. S.A., Bruno, S.C., Scalfoni J.T., Giffoni, B., López-Mendilaharsu, M., Thomé, J.C.A. **2011**. Satellite-tracked movements of female *Dermochelys coriacea* from southeastern Brazil. *Endangered Species Research*. 15: 77–86 (doi: 10.3354/esr00359)
- Gilman, E., J. Gearhart, B. Price, S. Eckert, et al. **2010** Mitigating sea turtle bycatch in coastal passive net fisheries. *Fish and Fisheries* 11:57-88.
- Harms, C., S. Eckert, T. Jones, W. Dow, D. Mann. **2009**. A technique for underwater anesthesia of sea turtles. *Journal of Herpetological Medicine and Surgery*. 19(1):8-12
- Eckert, S.A., J. Gearhart, K.L. Eckert. **2008**. Reducing leatherback sea turtle bycatch in the surface drift-gillnet Fishery in Trinidad. *Bycatch Communication Network Newsletter*. 8:2-6.
- Shillinger G.L., D.M. Palacios, H. Bailey, S.J. Bograd, A.M. Swithenbank, P. Gaspar, B.P. Wallace, J.R. Spotila, F.P. Paladino, R. Piedra, S.A. Eckert, B.B. Block. **2008**. Persistent leatherback turtle migrations present opportunities for conservation. *PLoS Biol* 6(7): e171. doi:10.1371/journal.pbio.0060171
- Crognale, M.A., S.A. Eckert, D.H. Levenson, C.A. Harms. **2008**. Leatherback sea turtle *Dermochelys coriacea* visual capacities and potential reduction of bycatch by pelagic longline fisheries. *Endangered Species Research* 5:249–256, 2008 doi: 10.3354/esr00112
- Crognale, M.A., S.A. Eckert, D.H. Levenson, C.A. Harms. **2007**. Visual capacities in adult and hatchling leatherback sea turtles. *Perception* 36 ECVF Abstract Supplement.
- Eckert, S.A., M.A. Crognale, D.H. Levenson. **2006**. The sensory biology of sea turtles: What can they see, and how can this help them avoid fishing gear? p.8-17. *In* Y. Swimmer and R. Brill (compilers and editors), *Sea Turtle and Pelagic Fish Sensory Biology: Developing Techniques to Reduce Sea Turtle Bycatch in Longline Fisheries*. NOAA Tech. Memo. NMFS-PIFSC-7. U.S. Dept. Commerce.
- Levenson, D.H., S.A. Eckert, M. Crognale, J. Deagan, G. Jacobs. **2006**. Electroretinographic and genetic examination of sea turtle visual pigments. p.24-27. *In* Y. Swimmer and R. Brill (compilers and editors), *Sea Turtle and Pelagic Fish Sensory biology: Developing Techniques to Reduce Sea Turtle Bycatch in Longline Fisheries*. NOAA Tech. Memo. NMFS-PIFSC-7. U.S. Dept. Commerce.
- Eckert, S.A., J.E. Moore, D.C. Dunn, R. Sagarminaga van Buiten, K.L. Eckert, P.N. Halpin. **2008**. Modeling loggerhead turtle movement in the Mediterranean: importance of body size and oceanography. *Ecological Applications* 18(2):290-308.
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Provided on request

Brief Biography

Professor Scott A. Eckert is the Chair of the Department of Biology at Principia College, and serves as the Director of Science for the Wider Caribbean Sea Turtle Conservation Network (WIDECAST). As Director of Science for WIDECAST, a partner organization to the UN Caribbean Environment Programme, he advises Caribbean governments, University programs, and community-based conservation organizations on the science of sea turtle management. His continuing research focuses on the oceanic behavior and ecology of the leatherback sea turtle from numerous field sites in the U.S. (California, Florida), the Caribbean (e.g. Trinidad), Mexico, Costa Rica, Indonesia and Nova Scotia, as well as whale sharks in the Sea of Cortez and the Philippines. He maintains a long-term (23+ yrs) community-based conservation and research program at one of the largest nesting colonies of leatherbacks in the world on the Caribbean Island of Trinidad. Due to an abiding and long-standing interest in reptiles and the recovery of endangered species, Dr. Eckert also conducts research close-to-home with his students in the Principia College forest on the Illinois Endangered timber rattlesnake (*Crotalus horridus*).

Dr. Eckert has been active for nearly three decades in the field of pelagic marine vertebrate research and conservation, focusing largely on sea turtles. He is world renowned for his expertise on leatherback turtles, studying the important role these wide-ranging oceanic reptiles play in the marine environment. He pioneered the use of microelectronics on many species in both marine and terrestrial environments and was the first to have successfully used satellite telemetry to study the long-term movements and behaviors of leatherbacks and whale sharks, and was also the first to make the connection between the collapse of major sea turtle nesting aggregations and distant commercial fishing activity. In recent years he has served as Graduate Program Advisor to students in the USA, Barbados (University of the West Indies), Canada, México, and France on a wide variety of ecological and physiological thesis projects.

For his research, Dr. Eckert has received the Department of Commerce NOAA/ National Marine Fisheries Service "Recognition Award" for his "outstanding efforts in sea turtle conservation" (1984), the Antarctic Service Medal (1989), and a Ph.D. in Zoology (1989) from the University of Georgia with a dissertation on *Diving and Foraging Behavior of the Leatherback Sea Turtle (Dermochelys coriacea)*.

Dr. Eckert held a post-doctoral research appointment at the Physiological Research Laboratory of the Scripps Institution of Oceanography at the University of California-San Diego before joining the National Marine Fisheries Service in 1990 as Chairman of the U.S. Pacific Marine Turtle Recovery Team. In 1992 he left NMFS to join Hubbs-Sea World Research Institute as a Senior Research Scientist and from there was invited to relocate his program to Duke University where he resided as a Research Scientist for 5 years. Currently Dr. Eckert is Chair of the Biology and Natural Resources Department at his alma mater, Principia College, while maintaining an active research program with WIDECAST. His research on sea turtles and other large oceanic vertebrates has taken him to field sites throughout the tropical world, as well as two seasons in Antarctica to study the diving behavior and physiology of Weddell seals and Emperor penguins.

Dr. Eckert has published more than 150 scientific and general interest articles and is a valued consultant to governments, non-governmental organizations, and inter-governmental bodies, including the World Trade Organization and the U. S. Commission on Oceans. He is Chairman of the U.S. Pacific Sea Turtle Recovery Team, and a member of the U.S. Atlantic/ Caribbean Sea Turtle Recovery Team, the Marine Turtle Specialist Group of the IUCN Species Survival Commission, and the Canadian Sea Turtle Recovery Team. He is Chairman Emeritus of the Sea Turtle Working Group of the Census of Marine Life "Tracking of Pacific Pelagics" (TOPP) program, Editor Emeritus of the acclaimed *Marine Turtle Newsletter*, and a former Board Member of the Western Pacific Fishery Council's Scientific and Statistical Commission (SSC).