

Nat B. Frazer, Professor, ENVS

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Academic Background:

Postdoctoral Fellow, Marine Policy, Woods Hole Oceanographic Institution 1983-85

Ph.D. Ecology, Institute of Ecology, University of Georgia 1983

M.A. History and Public Affairs, University of Illinois at Springfield 1973

B.A. History, University of Georgia 1971

Attended, University of the South 1967-69

Work experience:

- 2013- Professor (tenured), Department of Environment and Society Quinney College of Natural Resources, Utah State University
- 2013-2014 Director, Professional Master of Natural Resources Degree Program, Quinney College of Natural Resources, Utah State University
- 2011-2012 Senior Fellow, Association of American Colleges and Universities, Washington, DC (sabbatical)
- 2006-11 Professor (tenured) Department of Wildland Resources and Dean, College of Natural Resources, Utah State University
- 1999-2005 Professor (tenured) and Chair, Department of Wildlife Ecology and Conservation, University of Florida (Graduate Faculty Status)
- 1993-98 Associate Director for Research, Savannah River Ecology Laboratory, University of Georgia (Graduate Faculty Status) and US Department of Energy
- 1991-93 Associate Professor (tenured) and Chair, Department of Biology, College of Liberal Arts, Mercer University (Graduate Faculty Status)
- 1985-91 Assistant Professor (tenure-track), Department of Biology, Mercer University
- 1983-85 Postdoctoral Research Fellow, Marine Policy and Ocean Management, Woods Hole Oceanographic Institution
- 1978-83 Research and Teaching Assistant, University of Georgia
- 1974-77 Instructor, Basic Medical Education, School of Medicine, Southern Illinois University (Manager: Educational Resources Unit, Springfield Campus 1975-76)
- 1973-74 Staff Development Specialist, School of Medicine, Southern Illinois University

Summer appointments:

- 1991-93 Faculty Program Coordinator for Precollege Science Teachers, Division of Environmental Outreach and Education, Savannah River Ecology Laboratory
- 1985-90 Visiting Research Faculty, Division of Stress and Wildlife, SREL
- 1979-80 Field Director, Little Cumberland Island, Georgia Sea Turtle Research Cooperative

Adjunct Professorships/ Ex Officio Positions:

- Adjunct Faculty, College of Liberal Arts, Mercer University 1993-97
- Adjunct Faculty, School of Ecology, University of Georgia, 1994-present
- Director, Savannah River National Environmental Research Park, 1994-1998

Memberships/Service:

- Association of Environmental Studies and Sciences (Member, professional organization)
- Board of Trustees, American Forest Foundation (NGO, Washington, DC)
- Vice Chair, Board of Trustees, Utah Society for Environmental Education (NGO, Salt Lake City, UT)
- Educational Operating Committee, Project Learning Tree (NGO, Washington, DC)
- Renewable Energy & Conservation Advisory Board (City of Logan, UT)
- Advisory Council, Utah Forestry, Fire, and State Lands (gubernatorial appointee)

Courses Taught:

At Mercer University: Ecology and Evolution; Biology, Humans and Society; Organismal Biology; Cell Biology; Vertebrate Biology; Genetics; Organic Evolution; Ecology; Special Topics: Biodiversity; Senior Seminar; Environmental Science; Human Prospects in a World of Scarcity; Summer Research Institute for Precollege Science Teachers (Graduate Level)

At University of Georgia: Ecology 900 (graduate seminar)

At University of Florida: Survey of Wildlife Ecology and Conservation (undergraduate); Wildlife Ecology and Management (undergraduate, required); Turtle Conservation (graduate); Critical Thinking in Wildlife Ecology and Conservation (graduate); Biodiversity Conservation: Global Perspectives (undergraduate); Philosophical Basis of Biodiversity Loss (graduate)

At Utah State University: ENVS 6530 Natural Resources Administration (on-line course); NR 6535 Leadership for Natural Resources Professionals (on-line course); ENVS 2340 Natural Resources and Society (Gen. Ed., Breadth Life Science); ENVS 1350 Introduction to Environmental Science (Gen. Ed. Breadth Life Science)

Honors:

39th Annual Last Lecture, Honors Program, Utah State University

Conservation Fellow, St. Louis Zoo

Leadership Florida, Florida Chamber of Commerce (Class of 2004/05)

Leadership Georgia, Georgia Chamber of Commerce (Class of 1993)

Leadership Macon, Greater Macon Chamber of Commerce (Class of 1991)

Research mentioned in *Encyclopedia Britannica Book of the Year 1987*

Student Research Award, Association of Southeastern Biologists 1983

Sheldon Award, University of Georgia, Department of Zoology 1980

Legislative Intern, Georgia House of Representatives 1972

Wilkins Scholar, University of the South 1967-69

Beta Beta Beta Honor Society

Phi Kappa Phi Honor Society

Gamma Sigma Delta Honor Society

Previous Service (Professional and Voluntary):

Offshore Mining Task Force, Georgia Conservancy

Marine Turtle Specialist Group, Species Survival Commission (SSC), International Union for the Conservation of Natural Resources (IUCN), 1989-present; Exec. Comm.

Tortoise and Freshwater Turtle Specialist Group, SSC, IUCN

National Environmental Leadership Council, League of Conservation Voters

Editor, *Marine Turtle Newsletter* 1984-88

Editorial Advisor, *Marine Turtle Newsletter* 1983-84 & 1988-98

Editorial Board, *Copeia* 1987-88

Editorial Review Board, *Chelonian Conservation and Biology*,

Conservation Committee, Society for the Study of Amphibians and Reptiles 1986-94 (Chairman, 1988)

Conservation Committee, Herpetologists' League, 1990-94

USA Team Member, and Assistant Director of Secretariat Wider Caribbean Sea Turtle Conservation Network 1983-86

Aiken County (SC) Open Land Trust -- Save the Park Committee

Executive Board -- USDOE Savannah River Site Research Centers of Excellence

Strategic Planning Consultant (pro bono), Georgia Conservancy 1999

Ecological Society of America -- Public Affairs Committee 1997-2000

Environmental Protection Advisory Committee Alachua County, FL 1999-2001 (Chair 2000-2001)

Nature Centers Commission City of Gainesville (FL) 1999-2001

Land Conservation Advisory Committee (Vice Chair) -- Alachua County, FL - 1999-2000

Land Conservation Board – Alachua County, FL – 2001

President, Alachua Conservation Trust 2005

Ecology Section, National Association of State Universities and Land Grant Colleges (Vice Chair 2000-2001; Chair 2001-2003)

Board of Natural Resources, National Association of State Universities and Land Grant Colleges (Secretary 2000-2001; Vice Chair 2001-2002; Chair 2002-2003)

Chair, Legislative Affairs Committee, Council on Food, Environment and Renewable Resources, NASULGC 2004-2006

Vice Chair, National Cooperators' Coalition (support group for USGS Fish and Wildlife Cooperative Research Unit Program) 2005

Member, Ecosystem Services Focus Group, US Forest Service 2005

Chair, Extension Committee, National Association of University Fisheries and Wildlife Programs 2005-6

Chair, Extension Committee, National Association of University Forestry Resources Programs 2006

Member, ECOP Forestry Task Force, NASULGC 2006

Member, USU Community Associates (a Cache Valley town-gown society) 2006-2012

Steering Committee, Envision Cache Valley 2009-10

Executive Committee Chair, Great Basin Research and Management Partnership 2009-2012

Board Member, Stokes Nature Center 2008-10

Board Member, Utah Wildlife in Need (formerly Utah Wildlife and Conservation Foundation)

Organizing Committee, US Department of Interior Great Basin Landscape Conservation Cooperative

Chair, Utah State University Sustainability Council 2007-2013

Publications:

Frazer, N. B. (ed.) 1976. Behavioral and social sciences and humanities. pp. 377-388 *In* Curricular Objectives: Southern Illinois University School of Medicine. Board of Trustees of SIU. Carbondale, IL 808 pp.

Adler, L., N. Frazer, E. Loschen, R. Miller, S. Ross, H. Rubin, P. Smalley and C. Toewe. 1976. Introduction to Clinical Medicine I. pp. 389-398. *In* Curricular Objectives: Southern Illinois University School of Medicine. Board of Trustees of SIU. Carbondale, IL 808 pp.

Frazer, N. B. and R. H. Miller. 1977. Training practical instructors (programmed patients) to teach basic physical examination. *Journal of Medical Education* 58:149-151.

Lenarz, M. S., N. B. Frazer, M. S. Ralston and R. B. Mast. 1981. Seven nests recorded for loggerhead turtle (*Caretta caretta*) in one season. *Herpetological Review* 12:9.

Frazer, N. B. 1982. Growth and age at maturity of loggerhead sea turtles: review and prospectus. *Marine Turtle Newsletter* 22:5-8.

Frazer, N. B. 1983. Effect of tidal cycles on loggerhead sea turtles (*Caretta caretta*) emerging from the sea. *Copeia* 1983:516-519.

Frazer, N. B. 1983. Survivorship of adult female loggerhead sea turtles, *Caretta caretta*, nesting on Little Cumberland Island, Georgia USA. *Herpetologica* 39:436-447.

Frazer, N. B. and L. M. Ehrhart. 1983. Relating straight-line to over-the-curve carapace measurements in loggerheads. *Marine Turtle Newsletter* 24:4-5.

Frazer, N. B. 1983. Book Review: N. Mrosovsky's *Conserving Sea Turtles*. *Oceanus* 26:72-74.

Frazer, N. B. and F. J. Schwartz. 1984. Growth curves for captive loggerhead turtles, *Caretta caretta*, in North Carolina, USA. *Bulletin of Marine Science* 34:485-489.

Frazer, N. B. 1984. A model for assessing mean age-specific fecundity in sea turtle populations. *Herpetologica* 40:281-291.

Frazer, N. B. and M. J. Peterson. 1984. Protecting Caribbean Waters: the Cartagena Convention. *Oceanus* 27:85-88.

Frazer, N. B. 1984. An index to the *Marine Turtle Newsletter* Nos. 1-30. *Marine Turtle Newsletter* 30:3-15.

- Frazer, N. B. and L. M. Ehrhart. 1985. Preliminary growth models for green, *Chelonia mydas*, and loggerhead, *Caretta caretta*, turtles in the wild. *Copeia* 1985:73-79.
- Frazer, N. B. and J. I. Richardson. 1985. Annual variation in clutch size and frequency for loggerhead sea turtles, *Caretta caretta*, nesting on Little Cumberland Island, Georgia, USA. *Herpetologica* 41:246-251.
- Frazer, N. B. and J. I. Richardson. 1985. Seasonal variation in clutch size for loggerhead sea turtles, *Caretta caretta*, nesting on Little Cumberland Island, Georgia, USA. *Copeia* 1985:1083-1085.
- Frazer, N. B. 1985. WIDECAST: help for Caribbean sea turtles. *Oceanus* 28:100-102.
- Frazer, N. B. and J. I. Richardson. 1986. The relationship of clutch size and frequency to body size in loggerhead sea turtles, *Caretta caretta*. *Journal of Herpetology* 20:81-84.
- Frazer, N. B. 1986. Survival from egg to maturity in a declining population of loggerhead sea turtles, *Caretta caretta*. *Herpetologica* 42:47-55.
- Frazer, N. B. 1986. Kemp's decline: special alarm or general concern? *Marine Turtle Newsletter* 37:5-7.
- Frazer, N. B. and R. C. Ladner. 1986. Growth curves for green sea turtles, *Chelonia mydas*, in the U. S. Virgin Islands, 1913-1914. *Copeia* 1986:708-802.
- Frazer, N. B. 1987. Preliminary estimates of survivorship for juvenile loggerhead sea turtles (*Caretta caretta*) in the wild. *Journal of Herpetology* 21:232-235.
- Frazer, N. B. 1989. A snake in the grass. pp. 131-135. In R. L. Stivers, C. E. Gudorf, A. F. Evans and R. A. Evans. Christian Ethics: A Case Method Approach. Orbis Books, Maryknoll, NY.
- Frazer, N. B. 1989. Nesting cycles in sea turtles: typical, but not cycles. pp. 61-64 In S. A. Eckert, K. L. Eckert and T. I. Richardson (Compilers). Proceedings of the Ninth Annual Workshop on Sea Turtle Conservation and Biology. NOAA Technical Memorandum NMFS-SEFC-232, National Marine Fisheries Service, Miami, FL.
- Frazer, N. B. 1989. A philosophical approach to population models. pp. 198-207. In L. Ogren, et al. (eds.) Proceedings of the Second Western Atlantic Turtle Symposium, NOAA Technical Memorandum NMFS-SEFC-226. National Marine Fisheries Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce, Panama City, FL.
- Frazer N. B., J. W. Gibbons and J. L. Greene. 1990. Exploring Fabens' growth interval model with data on a long-lived vertebrate, *Trachemys scripta*. *Copeia* 1990(1):112-118.
- Frazer, N. B., J. W. Gibbons and J. L. Greene. 1990. Life Tables of a Slider Turtle Population. pp. 183-200. In Life History and Ecology of the Slider Turtle. J. Whitfield Gibbons (ed.). Smithsonian Institution Press, Washington, DC.
- Frazer, N. B., J. I. Richardson, D. Crouse, E. Possardt and J. Woody. 1990. Population dynamics and life histories of sea turtles. Pp. 89-100 In Tucker & Associates, Inc. Sea Turtles and Marine Mammals of the Gulf of Mexico. OCS Study MMS 90-0009. U. S. Department of the Interior, Minerals Management Service, Gulf of Mexico OCS Regional Office, New Orleans, LA.

- Frazer, N. B., J. W. Gibbons and T. J. Owens. 1990. Turtle trapping: preliminary tests of conventional wisdom. *Copeia* 1990(3):1150-1152.
- Boulon, R. H. and N. B. Frazer. 1990. Growth of wild juvenile Caribbean green turtles, *Chelonia mydas*. *Journal of Herpetology* 24:441-445.
- Tucker, A. D. and N. B. Frazer. 1991. Reproductive variation of leatherback sea turtles, *Dermochelys coriacea*, at Culebra National Wildlife Refuge, Puerto Rico, 1984-1987. *Herpetologica*. 25:115-124.
- Frazer, N. B., J. W. Gibbons and J. L. Greene. 1991. Growth, survivorship and longevity of painted turtles, *Chrysemys picta*, in a southwestern Michigan marsh. *American Midland Naturalist* 125:245-258.
- Frazer, N. B., J. W. Gibbons and J. L. Greene. 1991. Life history and demography of the common mud turtle, *Kinosternon subrubrum*, in South Carolina. *Ecology* 72:2218-2231.
- Frazer, N. B. 1992. Sea turtle conservation and halfway technology. *Conservation Biology* 6:179-184. (Reprinted in D. Ehrenfeld [ed.] *To Preserve Biodiversity -- An Overview*. Blackwell Science, Inc. Cambridge, MA.
- Frazer, N. B., J. L. Greene and J. W. Gibbons. 1993. Temporal variation in growth and age at maturity of male painted turtles, *Chrysemys picta*. *American Midland Naturalist* 130:314-324.
- Burke, V. J., N. B. Frazer, and J. W. Gibbons. 1994. Conservation of turtles: the Chelonian dilemma. pp. 35-38. In. B. A. Schroeder and B. E. Witherington (Compilers). Proceedings of the 13th Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFC-341. Miami, FL.
- Tucker, A. D. and N. B. Frazer. 1994. Seasonal variation in clutch size of the turtle, *Dermochelys coriacea*. *Journal of Herpetology* 28:102-109.
- Frazer, N. B. 1994. Sea turtle headstarting and hatchery programs. pp. 374-380. In. G. K. Meffe and C. R. Carroll. *Principles of Conservation Biology*. Sinauer Associates, Sunderland, MA.
- Frazer, N. B., C. J. Limpus, and J. L. Greene. 1994. Growth and estimated age at maturity of Queensland loggerheads. pp. 42-46. In. Bjorndal, K. A., A. B. Bolten, D. A. Johnson, and P. J. Eliazar (Compilers). Proceedings of the 14th Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFC-351. Miami, FL.
- Frazer, N. B. 1995. Preface: herpetological research at a national environmental research park. *Herpetologica* 51:383-386.
- Frazer, N. B. 1995. Sea turtles. pp.579-581. In. R. Paehlke, (ed.) *Conservation and Environmentalism: an Encyclopedia*. Garland Publishing, New York.
- Crouse, D. T. and N. B. Frazer. 1995. Population Models and Structure. pp.601-603. In K. A. Bjorndal (ed.) *Biology and Conservation of Sea Turtles*. (Revised Edition) Smithsonian Institution Press. Washington, D.C.

- Frazer, N. B. 1995. Loggerhead Sea Turtle, *Caretta caretta*. Pp. 1-23 In National Marine Fisheries Service and U. S. Fish and Wildlife Service. Status Review for Sea Turtles Listed under the Endangered Species Act of 1973. National Marine Fisheries Service, Silver Spring, MD.
- Heppell, S. S., C. J. Limpus, D. T. Crouse, N. B. Frazer, and L. B. Crowder. 1996. Population model analysis for the loggerhead sea turtle, *Caretta caretta*, in Queensland. *Wildlife Research*. 23:143-159.
- Shearer, C. R. H. and N. B. Frazer. 1997. The national environmental research park: a new model for federal land use. *Natural Resources and Environment* 12:46-51.
- Frazer, N. B. 1997. Turtle conservation and halfway technology: what is the problem? pp. 422-425 In J. V. Abbema (Ed.) *Proceedings: Conservation, Restoration, and Management of Tortoises and Turtles -- An International Conference*. New York Turtle and Tortoise Society, New York. 494p.
- Frazer, N. B. 1998. Preserving natural laboratories. *Issues in Science and Technology*, Spring 1998, 14(3):16-18.
- Frazer, N. B. 2000. Foreword (pp. xi-xiv) In M. W. Klemens (Editor) *Turtle Conservation*. Smithsonian Institution Press. Washington, DC. 334p.
- Frazer, N. B. 2001. "Management Goals and Criteria for Caribbean Sea Turtles." Pp. 69-74 In K. L. Eckert and F. A. Abreu Grobois (eds.) *Proceedings of the Regional Meeting: Marine Turtle Conservation in the Wider Caribbean Region: A Dialogue for Effective Regional Management*. Santo Domingo, Dominican Republic. WIDECAS, IUCN-MTSG, and UNEP-CEP. WIDECAS Conservation Materials Distribution Center, St. Croix, USVI.
- Witherington, B. and N. Frazer. 2003. Social and Economic Aspects of Sea Turtle Conservation. Pp. 355-384 In P.L.Lutz, J. A. Musick and J. Wyneken (Eds.) *Biology of Sea Turtles Volume II*. CRC Press. Boca Raton, FL.
- Frazer, N. B. 2003. Concerning Those Things Which We Ought to Have Done: Reflections on the Future of Sea Turtle Research. *Marine Turtle Newsletter* 100:5-8.
- Heppell, S. S., L. B. Crowder, D. T. Crouse, S. P. Epperly, and N. B. Frazer. 2003. Population Models for Atlantic Loggerheads: Past, Present, and Future. Pp. 255-273 In A. Bolten and B. Witherington (Eds.) *Loggerhead Sea Turtles*. Smithsonian Institution Press. Washington, DC.
- Frazer, N. B. and M. P. Twohig. 2013. The New Social and Behavioral MCAT Requirements: Inspired Innovation, Missed Opportunity, or Both? *Peer Review* 14(4):14-17.

Over 65 invited presentations and keynote addresses at national and international meetings on a wide range of topics, including conservation, education, population ecology, science policy, and the philosophy of science