

Paul B. Nader
Vita

CONTACT INFORMATION:

P.O. Box 442, Swansboro, North Carolina, 28584
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mobile # 919-605-5951

EDUCATION:

D.V.M. --- North Carolina State University - College of Veterinary Medicine,
Raleigh, North Carolina, 27607, May 1991

B.S. --Bachelor of Science in Zoology, University of North Carolina,
Chapel Hill, North Carolina, 27514, May 1981

LICENSES AND CERTIFICATIONS:

Active Veterinary Medical Licenses:

*North Carolina Veterinary Medical License	# 3114
*Alaska Veterinary Medical License	# 305
*Florida Veterinary Medical License	# 6058
*Hawaii Veterinary Medical License	# 361
*Pennsylvania Veterinary Medical License	# 9573
*Minnesota Veterinary Medical License	# 10505

EMPLOYMENT HISTORY AND RESPONSIBILITIES::

*Associate Professor (July 2023 – Nov. 2025), Lincoln Memorial University – College of Veterinary Medicine (LMU-CVM), Harrogate, TN

*Assistant Professor (July 2016 – July 2023), Lincoln Memorial University – College of Veterinary Medicine (LMU-CVM), Harrogate, TN

*Instructor (2015 – July 2016) Lincoln Memorial University – College of Veterinary Medicine (LMU-CVM) Harrogate, TN

*Adjunct Associate Professor, (2016 to Present) North Carolina State University – College of Veterinary Medicine (NCSU-CVM) Raleigh, N.C.

*Visiting Professor, (Fall 2004) Saint George University -- School of Veterinary Medicine (SGU-SVM) Saint George, Grenada

*Visiting Scientist, (1991 to 1996) North Slope Borough – Department of Wildlife Management (NSB-DWM) Ukeagvik (Barrow), Alaska

PROFESSIONAL and SCHOLARLY ORGANIZATIONS:

- *American Association of Zoo Veterinarians (AAZV); (1989 to Present)
- *American Association of Wildlife Veterinarians (AAWV)
- *Association of Avian Veterinarians (AAV)
- *Association of Reptile and Amphibian Veterinarians (ARAV)
- *International Association of Aquatic Animal Medicine (IAAAM)
- *American Veterinary Medical Association (AVMA) Active member: 1991 to 2021, few lapsed years
- *Phi Zeta Honor Society – LMU-CVM Faculty member
- *North Carolina Veterinary Medical Association (NCVMA)
- *Florida Veterinary Medical Association (FVMA)
- *Society of Marine Mammalogists (SMM)
- *Southeast U.S. Marine Mammal Stranding Network (SEAMAMMS)
- *International Society of Plastination (ISP) Active member (2016 to present)
- *American Association of Veterinary Anatomists, (2017 to present)
- *International Society of Plastination, Active member: (2016 to present)
- *European Association of Veterinary Anatomists, Active member: (2017 to present)

PROFESSIONAL MEETINGS ATTENDED:

- *AAZV Annual Conference, (attended 1989 to 2025; not 1991 & '96)
- *AAWV Conference (South Padre Island, TX. 2010)
- *AAV Conference (Nashville, TN. 2021)
- *Exotics Conference (Nashville, TN 2021)
- *IAAAM Conference (San Diego, CA)
- *ARAV Conference (South Padre Island, TX. 2010)
- *WDA Conference (Athens, Georgia, 2023)
- *SMM Conference (Maui, Hawaii, 1999)
- *SMM Conference (Greensboro, North Carolina, 2003)
- *SMM Conference (San Diego, California, 2005)
- *SMM Conference (Quebec City, Quebec, 2009)
- *SMM Conference (Halifax, Nova Scotia, 2017)
- *SEAMAMMS 2016 Conference (Savanna, GA)
- *SEAMAMMS 2017 Conference, (Beaufort, N.C)
- *SEAMAMMS 2018 Conference, (Conway, S.C.)
- *SEAMAMMS 2019 Conference, (Washington, DC)

HONORS and AWARDS:

- *Iditarod Sled Dog Golden Stethoscope Award, (March 2008)
- *BSA Eagle Scout Medal (Dec. 1976)
- *BSA Eagle Palms, Gold, Silver, & Bronze (Apr.1977)
- *Order of the Arrow member
- *LMU-CVM Admissions Committee (2019-2022)
- *LMU-CVM Awards & Scholarship Committee (2015-2018)
- *LMU-CVM Interview Committee (2015-2018, 2022)
- *LMU-CVM Student Conduct Committee (2024-2025)
- *Summer Fellowship in Comparative Pathology (1990)

GRANTS and CONTRACTS:

Current funding:

*Dissection & Preservation of soft-tissues: Neonatal Sperm whale head specimen; 2023, Role: Principle Investigator: P.Nader; Total costs: \$11800,00

*Radiological imagery using contrast media and computer imagery of neonatal sperm whale head specimen; 2022, Role: Principle Investigator; Total Costs: \$2850.00

Digital imagery using computer tomography and magnetic resonance imagery as compared to silicone-impregnation, plastination of the Emperor Penguin (*Aptenodytes forsteri*) for educational and scientific purposes, Bruce Museum Contract; 2019; Role: Principal Investigator; Total costs: \$3200.00

Past funding:

“Blue Whale Bone Mass changes using organic solvent degreasing methods and bone oil evaluation using mass spectrometry” CVM Intra-mural grant; 2017; Role: Principal Investigator; Total costs: \$7800.00

“Cetacean versus Artiodactylid & Perissodactylid Bone Mass changes using organic solvent degreasing methods and bone oil evaluation using mass spectrometry” CVM intra-mural grant; 2018; Role: Principal Investigator; Total costs:\$20,000.00

“Charismatic Vertebrate soft-tissue plastination, both silicone-impregnation and epoxy sheet techniques, to preserve selected tissues and bony mass comparisons for both educational and research purposes” CVM Intra-mural grant:2019; Role: Principal Investigator; Total costs: \$16,000.00

PUBLICATIONS:

Peer-reviewed journal articles:

1. Plastination of larger and massive specimens - with Silicone, 1st author: Anatomia, Histologia, Embryologia; AHE-07-19-SI-146, © Jul2019
2. The Challenges of Plastinating a Blue Whale (*Balaenoptera musculus*) Heart, 2nd author: The Journal of Plastination 29(2):22 - 29 (2017), © Dec2017

Scientific publications:

3. Skeletal Anatomy of the Beluga Whale, authored by **Paul B. Nader**, D.V.M., North Slope Borough – Department of Wildlife Management, Barrow, Alaska, © 1993.
4. Hillmann, D.J., Henk, W.G, and **Nader, P.** 1997. Initial observations on the skull and mandibles from Eskimo harvested bowhead whales (*Balaena mysticetus*). Report to the NSB Department of Wildlife Management, Barrow, AK.

MANUSCRIPTS UNDER PREPARATION:

6. Cetacean thoracic limb comparative anatomy of the musculoskeletal system; Nader, P., R.Henry, B.Beeler, D. Prendiville
7. Cetacean cardiopulmonary gross anatomy; Nader, P., R. Henry, D. Prendiville
8. Proboscian distal antebrachium and manus musculoskeletal anatomy; Nader, P., R. Henry, B.Beeler,
9. Osteological comparisons between Cetacea , Artiodactyla, & Perissodactyla; Nader, P., D. Prendiville, R.Henry,

ORAL PRESENTATIONS:

1. Cold-impregnation: Plastination of soft-tissues; JFWA student presentation, Harrogate, TN. 2016.
2. Cold-impregnation plastination of marine mammal hearts as improved method of anatomical study: SEAMAMMS 2016, Savannah, GA.
3. Blue Whale Heart Anatomy Unique Characteristics; EAVA, 2016, Vienna, Austria
4. Cold-impregnation: Plastination of soft-tissues; Harlan County H.S., presentation, Harlan, KY. 2017.
5. Cetacean & Pinniped Comparative Heart Anatomy; AAVA Conference, Auburn, Alabama, 2017.
6. Cold-impregnation Plastination of Marine Mammal Hearts as improved method of Anatomical study: Cetacea & Pinnipedia; SEAMAMMS 2017, Beaufort, N.C.
7. Blue Whale (*Balaenoptera musculus*) skeletal anatomy and osteological preparation for educational and scientific purposes; OSU-MMI meeting; Newport, Oregon, 2017.

8. Anatomy & Pathology Connections: Zoological Medicine Clinical Cases; ZEWAC, LMU-CVM, Harrogate, TN. 2019.
9. Avian Medicine and Surgery NAVLE Review: LMU-CVM, Junior students, Harrogate, TN. 2020.
10. Preparation of Whale Skeletal Displays for educational and scientific purposes, OSU-MMI meeting, Newport, Oregon, 2021.

POSTER PRESENTATIONS:

1. Blue whale (*Balaenoptera musculus*) heart reveals unique marine mammal adaptations; P.Nader, Concha, I., Henry, R., SSM, Halifax, Nova Scotia, 2017.
2. Cold plastination for preservation of zoological specimens for education and research; P.Nader, Henry, R., SEAMAMMS Conference, Conway, S.C., 2018.
3. Comparative Heart Anatomy of Marine vs Terrestrial Mammals
P. Nader, Concha, I., Henry, R., EAVA Conference, Hannover, Germany, 2018.
4. Anatomical evaluations of the Asian elephant (*Elephas maximus*) using computer tomography as compared to epoxy-resin, E12, plastination of cross-sectional specimens of the left manus; P.Nader, Henry,R., Beeler,B., AAZV Conference, Saint Louis, Missouri, 2019

TEACHING EXPERIENCE:

Formal course teaching:

***LMU – College of Veterinary Medicine**

CVM700: Gross Anatomy Summer course; (Course Director; Sum. 2021 to 2025) (26 to 49 students)

CVM710: Small Animal Anatomy; (Instructor; Fall 2016 to Fall 2024) (125 to 153 students)

CVM720: Comparative Anatomy, Equine, Ruminant, and Food Animal spp.; (Instructor, Spr2015 to Spr2023) (125 to 277 students)

CVM720: Comparative Anatomy, Equine, Ruminant, and Food Animal spp.; (Co-Director, Spr2024 to Spr2025) (255 to 260 students)

CVM724: One Health; (Instructor, Fall 2016 to 2018) (118 students)

CVM744: Animal Husbandry and Welfare; (Instructor, Spr2020 to Spr2025) (120 students)

CVM761: Avian and Exotics Medicine; (Course Director, Spr2017 to Spr2025) (120 students)

CVM764: Veterinary Dentistry; (Instructor, Fall 2018 to Fall 2025) (125 students)

CVM769d: Wildlife and Zoological Medicine; (Course Director, Spr2017 to Fall2025) (20 to 61 students)

***LMU – Biology Department**

VHS734L Wildlife Diseases; (Instructor; Spr2022-2023) (25 students)

VHS734 lab – Avian Necropsy techniques (Lab leader, Spr2022) (25 students)

***NCSU – College of Veterinary Medicine &**

***Grenada University – Saint George – School of Veterinary Medicine**

Comparative Anatomy; (Instructor; Fall2004) (75 students)

***UNC – Chapel Hill; Zoology Department:**

Comparative Vertebrate Anatomy; (Teaching Assistant: Fall1980, 1981, 1982; Spr1980, 1981)
(35 students)

Teaching Experiences details:

Associate Professor: Veterinary Anatomy & Wildlife / Zoological Medicine

Lincoln Memorial University – College of Veterinary Medicine

Harrogate, Tennessee, Jul.2023 to Nov. 2025

*lecture on comparative anatomy: carnivore, ungulate, & avian anatomy-fall & spring semesters

*design and implement course exams & lab practical for each anatomy course

*serve as Course Co-Director: CVM720, Comparative Large Animal Anatomy course, required of all first year veterinary students

*serve as Course Director: CVM761, Avian & Exotics course, required of all vet. Students

*serve as Course Director: CVM769d, Wildlife & Zoological Med. Course, elective course

*preserve, dissect, & plastinate soft tissues via both silicone-impregnation & epoxy-sheet techniques

*design, prepare, & articulate domestic & exotic animal skeletons for educational uses

*interview perspective students for admission to the LMU-CVM

*serve on institutional committees:

CVM Interview Committee

CVM Admissions Committee

CVM Scholarships & Awards Committee

CVM Student Conduct Committee

*coordinate cooperative agreements btwn. US Natl. Park Service units, Great Smoky Mtns. NP & Cumberland Gap Natl. Historic Park & LMU-CVM Wildlife / Zoological Medicine Course

Assistant Professor: Veterinary Anatomy & Wildlife / Zoological Medicine

Lincoln Memorial University – College of Veterinary Medicine

Harrogate, Tennessee, Jan. 2015 to Jul.2023

- *lecture on comparative anatomy: carnivore, ungulate, & avian anatomy-fall & spring semesters

- *design and implement course exams & lab practical for each anatomy course

- *serve as Course Director: CVM761, Avian & Exotics course, required of all vet. Students

- *serve as Course Director: CVM769d, Wildlife & Zoological Med. Course, elective course

- *preserve, dissect, & plastinate soft tissues via both silicone-impregnation & epoxy-sheet techniques

- *design, prepare, & articulate domestic & exotic animal skeletons for educational uses

- *interview perspective students for admission to the LMU-CVM

- *serve on institutional committees: CVM Interview Committee

 - CVM Admissions Committee

 - CVM Scholarships & Awards Committee

- *coordinate cooperative agreements btwn. US Natl. Park Service units, Great Smoky Mtns. NP & Cumberland Gap Natl. Historic Park & LMU-CVM Wildlife / Zoological Medicine Course

Adjunct Assistant Professor: of Veterinary Medicine

North Carolina State Univ.- College of Veterinary Medicine

Raleigh, North Carolina, May 2015 to Present

- *serve as consultant for silicone-impregnation, plastination techniques

- *serve as consultant for Veterinary Anatomy osteological preparations

- *serve as consultant for vapor phase degreasing protocols

Adjunct Veterinary Instructor: North Carolina State University / St. George's University,

Grenada Raleigh, North Carolina; August to December 2004

- *lecture on veterinary level anatomy for sm & lg animal, domestic species,

- *instruct veterinary students on introductory radiology techniques & interpretation

- *instruct veterinary students on lg & sm animal palpation techniques & landmarks

- *administer both didactic & practical examinations for vet anatomy courses

- *instruct & guide veterinary students in gross anatomical dissections, sm & lg an species

Assistant Biology Instructor: Iliasagvik Community College UIC- NARL ,

Ukquagvik, Alaska (Summer 1994-Summer1995)

- *lecture on general biological concepts & principles

- *instruct students during local field trips in wilderness regions of arctic ecosystems

- *administer & evaluate written examinations and quarterly finals

Wildlife Research Veterinarian: North Slope Borough's Department of Wildlife Management
Ukquagvik Inupiat Corporation – Native Arctic Research Laboratory

Barrow, Alaska Spring 1989, 1990, & 1991; Spring and Fall 1993, 1994, 1995, 1996, & 1997

- *evaluate and document pathological lesions of bowhead whale carcasses during multiple spring and fall harvest seasons

- *collect and inventory anatomical and pathological specimens from subsistence-use arctic mammals, including bowhead whale, beluga, polar bear, ringed seal, & walrus

- *function of liaison for Russian & Chinese scientists and Chukchi Eskimos during annual visits to Native Arctic Research Laboratory

- *instruct Chinese graduate student on cetacean ocular & neuro-anatomy of bowhead, beluga, harbor porpoise

- *provide veterinary medical and surgical therapy for injured & orphaned terrestrial & marine wildlife species

VETERINARY CLINICAL EXPERIENCE:

Medical Director, Emergency Pet Hospital of Craven & Carteret Counties

Havelock, North Carolina: Jun 2025 to Presented

- *supervise standards of care for relief veterinarians, vet. technician, vet. assistants, across hospital policy

- *provide emergency medicine & surgery procedures as needed in emergent scenarios

- *improve efficiency of work flow and job descriptions of tasks assigned to vet. staff

- *train & intergrate emergency medicine of avian & sm. Mammal patients into all ER shifts

Relief & Contract Veterinarian

Various small animal & emergency medicine veterinary practices,

North Carolina, Pennsylvania, and Florida: October 1992 to Present

- *perform medical & surgical duties associated with standard vet practice in AK, FL, NC, and PA

- *provide emergency & critical care during after-hours time periods

- *provide Sx service incl. C-sections, gastric dilatation-volvulus, laparotomies, wound repair, etc..

- *supervise veterinary technicians, hospital workers, and groomers

- *deliver high quality medicine and compassionate care to all patients

- *manage veterinary practice while proprietor pursues continuing education courses

Associate Veterinarian / Emergency & Critical Care Clinician

Fayetteville Small Animal Emergency Clinic

Bragg Boulevard, Fayetteville, North Carolina, Feb.2012 to Jan. 2014

- *provide general emergency medical and surgical services during 12 hour shifts

- *perform emergency trauma, abdominal, and thoracic surgical veterinary services

- *perform whole blood, plasma, & oxyglobin transfusions utilizing emergency blood bank

- *provide partial supervisory role over 4 full-time veterinary technicians

- *provide ER medical & surgical services to lab mammal, avian, & reptilian patients

- *coordinate with regular veterinary practitioners for referral of patients back to regular clinics

Associate Veterinarian / Emergency & Critical Care Clinician

Valley Central Emergency Veterinary Hospital, Whitehall, Pennsylvania, October 2006 to August 2011

- *provide general emergency medical and surgical services during 12 hour shifts
- *perform emergency trauma, abdominal, and thoracic surgical veterinary services
- *perform whole blood, plasma, & oxyglobin transfusions utilizing emergency blood bank
- *provide partial supervisory role over 18 full-time veterinary technicians
- *provide ER medical & surgical services to lab mammal, avian, & reptilian patients
- *coordinate with specialty veterinary services, including internists, orthopedic surgeons, ophthalmologists, and cardiologists

Director of Veterinary Services & Conservation

Lehigh Valley Zoological Park July 2006 to November 2009

- *provide preventative veterinary medicine including anesthesia, exams, vaccinations, diagnostic tests, etcetera for entire animal collection including: all vertebrates, mammalian, avian, reptilian, & amphibian of N. America, Africa, & Australia origins
- *perform designated euthanasia & necropsies on various zoological accessions
- *institute contraceptive protocols, including surgical implants, parenteral, and behavioral
- *perform trauma & exploratory surgical procedures on various zoo animals
- *utilize and design anesthetic protocols for all vertebrate classes within the zoo
- *organize & implement conservation projects both domestic & international
- *coordinate & cooperative elective medical procedures w/ LCCC veterinary tech program

Zoological Staff Veterinarian, State Institution

North Carolina Zoological Park: July 2003 to August 2005

- *provide preventative veterinary medicine including anesthesia, exams, vaccinations, diagnostic tests, etcetera for entire animal collection including: all vertebrates; mammalian, avian, reptilian, & amphibian of North America, Africa, & Australia origins (great apes, mega-vertebrates, large carnivores, marine mammals, crocodilians, ratites)
- *perform designated euthanasia & necropsies on various zoological accessions
- *institute contraceptive protocols, including surgical implants, parenteral, and behavioral
- *perform trauma & exploratory surgical procedures on various zoo animals
- *utilize and design anesthetic protocols for all vertebrate classes within the zoo
- *organize & implement conservation projects both domestic & international

Zoological Staff Veterinarian, Private Institution

Pittsburgh Zoo and PPG Aquarium, January 2001 to July 2003

- *provide preventative veterinary medicine including anesthesia, exams, vaccinations, diagnostic tests, etcetera for entire animal collection including: all vertebrates: mammalian, avian, reptilian, & amphibian of North America, Africa, Australia, & Asia origins (great apes, mega-vertebrates, large carnivores, marine mammals, crocodilians, ratites)
- *perform designated euthanasia & necropsies on various zoological accessions
- *institute contraceptive protocols, including surgical implants, parenteral, and behavioral
- *perform trauma & exploratory surgical procedures on various zoo animals
- *utilize and design anesthetic protocols for all vertebrate classes within the zoo
- *organize & implement conservation projects both domestic & international

Small Animal & Public Health Veterinarian

North Slope Borough's Public Health Office / Veterinary Clinic

Barrow, Alaska Full-time employee, Feb. – Dec. 2000

- *supervise and direct Public Health Office & sole Veterinary Clinic in borough (county)
- *travel to remote villages across entire North Slope Borough to vaccinate dogs, cats, and ferrets against infectious & contagious diseases
- *testing public drinking water samples from most NSB's remote villages for coliform bacterial counts via plate counting and gas fermentation techniques
- *provide relief veterinary services during times of veterinary shortages

Anatomy Laboratory Technician: North Carolina State University's

College of Veterinary Medicine Department of Anatomy, Physiological Sciences, and Radiology Raleigh, North Carolina, May 1985 – May 1991

- *initiate, design, & implement the collection & assembly of adult, female, sperm whale skeletal display for veterinary school lobby
- *prepare, articulate, and display partial and complete skeletal displays of exotic, domestic & wildlife species for use by NC Zoological Park's Education Dept.
- *develop & prepare anatomical displays using plastination & freeze-drying techniques
- *restrain equine patients for radiology and bone scanning research projects
- *anesthetize, euthanize, and embalm large animal cadavers for anatomical labs
- *assist with neurological research surgical procedures on lab dogs and cats

U.S. Forest Service Seasonal Shipboard Interpreter: Tongass National Forest,

Ketchikan, Alaska: May –Aug. 1984

Juneau, Alaska: May – Oct. 1983

- *liaison with traveling public on board Alaska State Ferries: M/V Columbia & M/V Matanuska
- *Interpretation of natural resources & natural history of flora, fauna, local, & state history
- *Presented public programs daily 3-4 days / week to Alaskan, U.S., & international travelers through Southeast Coastal water "Inside Passageway"
- *Volunteered husbandry & maintenance labor @ S.E. Alaska Raptor Center, Sitka, Alaska with bald eagles, red-tailed hawks, & other injured & non-releasable birds of prey

U.S. National Park Service Seasonal Maintenance Worker:

Blue Ridge Parkway, Vinton, Virginia; Big Thicket National Preserve, Beaumont, Texas

- *built and maintained corduroy, log bridges & boardwalks through select backcountry trail areas
- *maintained and serviced ancillary buildings in backcountry & interpretative centers throughout 5 units of Big Thicket National Preserve
- *cleared underbrush & trees from scenic vistas along Blue Ridge Parkway corridor
- *maintained, repaired, & cleaned equipment used by road crew used for lumbering tasks across park unit

Comparative Vertebrate Anatomy & Ornithology Teaching Assistant

University of North Carolina @ Chapel Hill; Department of Zoology,
Wilson Hall, Chapel Hill, North Carolina, Aug 1979 – May 1982

- *instruct undergraduate students in dissection of domestic cat, mudpuppy, & sharks
- *prepare prosecutions of vertebrate species for laboratory study twice weekly
- *coordinate w/ lead professor to match lab studies w/ concurrent lecture series
- *design, implement, & evaluate laboratory, practical examinations on preserved specimens

U.S. National Park Service, Seasonal SCA Wildlife Technician:

Student Conservation Association assignment:

Glacier National Park, Pinnacle, Montana, May – Aug. 1981

- *biweekly tracking & locating of Rocky Mountain goat individuals @ Running Rabbit Mt.
- *utilization of VHS radio-telemetry units to triangulate topographic locations of mtn. goats
- *documentation & recording of vegetative habitat used by study set of mtn. goats
- *placement of warning signs & hiking barriers @ locations of grizzly bear activity in backcountry
- *preparation of daily activity reports on study set of VHS collared mtn. goat individuals

VOLUNTEER ACTIVITIES & HOBBIES

- *North Carolina Marine Mammal Stranding Program, Summer 2025 to present
- *Bonehenge Whale Center, Spr2010 to present
- *LMU-College Veterinary Medicine Student Advisor:
Zoo, Exotics, Wildlife, Avian, Aquatics, Club (ZEWAC); Faculty Advisor, 2015 to present
- *American Assoc. Zoo Veterinarians, Infectious Disease Committee, 1995 - present
- *AZA Crocodile Biology & Captive Management Course May 2009
- *Sled Dog Trail Veterinarian, Iditarod Sled Dog Race 1995, '96, '97, '98, '99, 2000, 2008, 2014, 2023, & 2024
- *Iditarod Sled Dog Golden Stethoscope Award, March 2008
- *John Beargrease Sled Dog Race 1996
- *African Wildlife Anesthesia Short-Course, Univ. Pretoria @ Onderstepoort, South Africa, Sept. 1995
- *Aquavet Program, Marine Biological Lab, Woods Hole, Massachusetts, Jun. 1988
- *MarVet I Program, Cetaceans & Sirenians, Mote Marine Lab, Sarasota, Florida, Jun. 1992
- *MarVet II Program, Pinnipeds, Ft. Cronkite Mar. Mammal Facility, Sausalito, California, Jul. 2004
- *Wildlife, Avian, and Zoo Animal Medicine Club, Treasurer, 1990
- *National and International Wildlife Federation (28 years)
- *Eagle Scout, December 1976; Order of the Arrow, June 1975
- *photography, soccer, kayaking, canoeing, numistics

REFERENCES:

- *Michael R. Loomis, D.V.M., DACZM, Zoo Vet.Emeritus, NC Zoo; Mobile # 336-302-5012
- *Robert W. Henry, D.V.M., Ph.D. Professor Emeritus, UT-Knoxville, Mobile # 865-924-6021
- *Roberta Wallace, D.V.M., Senior Veterinarian-Milwaukee Cty Zoo; Mobile # 219-315-6995
- *Terry Norton, D.V.M., DACZM, Director/CEO-GA. Sea Turtle Center: Mobile # 912-230-922