

# CURRICULUM VITAE

## JOANNA BURGER

Distinguished Professor of Biology  
Division of Life Sciences  
Nelson Biological Laboratories  
Rutgers University  
604 Allison Road  
Piscataway, NJ 08854-8082

Telephone: (732) 445-4318  
Fax: (732) 445-5870  
e-mail: [burger@biology.Rutgers.edu](mailto:burger@biology.Rutgers.edu)  
web: <http://lifesci.rutgers.edu/~burger>

Place and Date of Birth: January 18, 1941, Schenectady, New York

### Education:

1963	B.S.	State University of New York at Albany
1964	M.S.	Cornell University
1972	Ph.D.	University of Minnesota
1972-3	Postdoc	Rutgers University - Institute of Animal Behavior
2006	Hon. Ph.D.	University of Alaska at Fairbanks

### Honoraries:

Tri Beta Biological Honorary Society  
Sigma Delta Epsilon  
Phi Kappa Phi  
Palmer Fellow  
Fellow: American Association of University Women  
Fellow: International Union of Pure and Applied Chemistry  
Fellow: American Ornithological Union  
Elected Member: Society of Toxicology  
Elected Member: Committee of 100, International Ornithological Congress

### Memberships in Professional Societies:

American Ornithologists= Union - Fellow  
Wilson Ornithological Society  
Ecological Society of America  
Society of Risk Analysis  
Society of Environmental Toxicologists  
International Ornithological Congress  
Colonial Waterbird Society  
Society for Toxicology (elected member)  
SCOPE (1991-1998, Scientific Committee on Problems of the Environment)  
Estuarine Society

Positions Held:

- 1964-68: Instructor, SUNY College at Buffalo  
Courses: General Biology, Ecology and Comparative Anatomy
- 1968-72: Teaching Assistant, Department of Ecology and Behavior Biology, University of Minnesota. Courses: General Biology, Ecology, Evolution
- 1972-73: Research Associate, Rutgers - Newark, Institute of Animal Behavior
- 1973 - Rutgers University. Courses: Behavioral Biology, Ecology, Evolution, Behavior and Ecology of Animal Population (grad), Ecological Risk (grad).
- 1978 Acting Director of Ecology Program - Spring
- 1979-93 Director of Ecology and Evolution Graduate Program
- 1979 Associate Professor - Shoals Marine Laboratory (Cornell University - Summer Marine Laboratory)
- 1983-88 Associate Chair for Research (Department of Biological Sciences)
- 1994-6 Associate Chair of Biological Sciences for Graduate Affairs
- 1988- Member, Environmental and Occupational Health Sciences Institute (UMDNJ and Rutgers) (EOHSI)
- 1989- Member, Institute of Marine and Coastal Sciences
- 1990- Member, Biodiversity Center

- 1999- Member, Center for Urban Restoration Ecology (CURE)
- 2001- Faculty Appointment to School of Public Health (UMDNJ)

## **PROFESSIONAL ACTIVITIES**

### International Activities

- 1979 Gave an invited symposium talk at South Africa Seabird Symposium. A Post-fledgling behavior of seabirds@. Cape Town, South Africa. 19-23 November.
- 1982 Gave an invited symposium talk (plenary session) at International Seabird Symposium. A Advantages and disadvantages of coloniality in birds@. Utoxeter, England. 12-14 February.
- 1982 Organized a symposium on A Advantages and Disadvantages of Coloniality in birds@ (with B. Nelson, University of Aberdeen) International Ornithological Congress, Moscow, USSR. 16-25 August. Also presented a paper on that topic.
- 1986 Organized a symposium on A Effects of Development in Birds@ (with P. Bateson) for International Ornithological Congress, Ottawa, Canada. 22-29 August. Also presented a paper.
- 1988 Presented paper and organized round table at Pan African Ornithological Congress. Nairobi, Kenya. August 15-18.
- 1989 Participated and presented paper at 1st International Congress of Herpetology, Canterbury, England. September 9-13.
- 1990 Organized a 22 day symposium for the International Council for Bird Preservation on A Threats to seabirds Nesting on Islands@ ( With D. Nettleship), Hamilton, New Zealand. 17-23 November. I presented a paper in the symposium. This symposium was peer-reviewed and was published as a book by ICBP, Cambridge, England.
- 1991 Participated in a SCOPE (Scientific Committee for Problems of the Environment) conference on A Methods of Assessing the Effects of Chemical on Hazardous Waste Sites.@ Cairo, Egypt, Sept. 23-27.

- 1992 US National Academy representative (one of three) to the SCOPE International Meeting. SCOPE is a committee of ICUN Exotoxicology Cluster.
- 1993 Invited participant in a SCOPE Committee meeting on AMethods to Assess the Effects of Chemicals on Ecosystems@. This involves writing two chapters for the conferences (will be published as a Wiley and Sons book). Montpellier, France.
- 1994 SCOPE Mercury Meeting: Rio de Janeiro. Symposium Speaker. "Mercury in Tropical and Temperate Ecosystems." Nov. 1994
- 1994 SCOPE Conf. "Conservation of Living Resources" (Washington, D.C.) Oct. 1994
- 1995 Health Quebec: Workshop on mercury and fish advisories (Dec.-Quebec City)
- 1996 SCOPE Conference on Susceptible Populations (Feb, Finland, invited paper)
- 1996 International/Joint Commission: Persistent Contaminants, Windsor, Ontario (September, invited paper)
- 1998 Workshop Convener: Role of birds as bioindicators of ecosystem degradation at International Ornithological Congress in South Africa
- 1998 **Chair:** 10<sup>th</sup> Scientific Committee General Assembly of SCOPE
- 1999-2004 SCOPE; Co **Chair;** International Committee on Endocrine Disruptors (Headq: Paris/Tokyo)
- (2000) SCOPE; Cadmium in the Environment (Presented paper, Brussels)
- 2001 SCOPE: Methods to assess the effects of heavy metals (presented paper, Germany)
- 2001 SCOPE: Committee Member for Scientific Group on the Methodologies for the Safety Evaluation of Chemicals (SGOMSEC)
- 2002 SCOPE: Co-Chair of International Conference on Endocrine Disruptors. Yokohama, (Japan) November 2002.
- 2002 International Ornithological Congress - Committee of 100(Bejing, China) August

### International Activities (cont)

- 2002
- 2003 Colonial Waterbirds - Brazil; several committees
- 2003 SGOMSEC (SCOPE) Committee on Gender Influences on Chemical Sensitivity (Orta, Italy) October 2003.
- 2006 International Ornithological Congress. Committee of 100 (Hamburg, Germany)
- 2007 Waterbird Society-Spain

### National Academy of Science Committees

- 1988-91 Member: Board of Environmental Science and Toxicology (BEST)
- 1988-89 BEST Liaison to Committee of Endangered Sea Turtles
- 1989-91 BEST Liaison to Committee on Tuna-Porpoise Interactions
- 1991-97 Member: US National SCOPE Committee
- 1991 Member: Committee to evaluate ecological risk assessment. Arlie, Virginia.
- 1991-95 Organizing **Co-Chair** for Coastal Processes Committee Symposium (SCOPE)
- 1994 Peer Review Committee for DOT Committee
- 1995-98 US SCOPE Conference on Estuarine Synthesis. Beckman Center. February. **Co-Chair**
- 1995-8 Member: Committee for Endocrine Disrupters
- 1995/6 -1996 Associateship Program; Life Sciences Panel
- 1997-01 Commission of Life Sciences Liaison to Yellowstone Ungulate Committee
- 1998-01 Board on Biology
- 1999-01 Commission on Life Sciences

## International Activities (cont)

- 1998-04      International IUPAC/SCOPE Committee on Endocrine Disruptors
- 2000 -06      SGOMSEC (SCOPE for NAS)
- 2004          NRC (NAS) delegate to SCOPE General Assembly (New Delhi, India)

## Editorial Boards:

Journal of Toxicology and Environmental Health 1993-present  
Achieves Environmental Contamination and Toxicology 1994-99  
Environmental Research 1995-Present  
Science and the Total Environment 1995-Present  
Environmental Monitoring and Assessment 1999-Present  
Environmental Bioindicators 2005-present

## Member:

Advisory Board: ESA-EPA Sustainable Biosphere Program  
EPA Harbor Estuaries Comm. 1989-1998  
NJ Endangered Species and Nongame Council 1980- Present  
Jamaica Bay Task Force 1993-4  
Barnegat Bay Task Force 1990-1996  
Horseshoe Crab Committee of the Atlantic States Marine Fisheries Commission 1997 - Present  
Scientific Committee for Barnegat Estuary Program 1998 - Present  
EPA Advisory Committee: Indicators 1999-2001  
Mercury Task Force for the Everglades (Florida) 1999 -  
Governor=s Endangered and Non-game Species Council for New Jersey, 1980-present.  
National Academy of Sciences, Board of Environmental Science and Toxicology, 1988-1991.  
Coastal Zone Management Technical Advisory Committee for Barnegat Bay - 1988-1991.  
ESA-EPA: Advisory Board for Sustainable Biosphere. 1993-1996  
USS-EPA: Advisory Board - Biological Indicators (2000)-present  
SCOMSEC: Committee of SCOPE 2000-2006

## Award:

Rutgers Presidential Award for Outstanding Public Service - 1994  
Distinguished Service Award (1996) - Colonial Waterbird Society  
Distinguished Author Award (1997) - NJ Studies Academic Alliance  
Gorenstein Award (2002)  
Honorary PhD, University of Alaska (2005)

Women in Science Award-NJ (2005)

In American Men and Women in Science

Invited Seminars:

Harvard University - Nest Site Selection in Herons (1975)  
American Museum of Natural History - Nest Site Selection in Herons (1975)  
University of Pennsylvania -Nest Site Selection in Herons (1976)  
Princeton University - Aggression in Animal Groups (1977)  
City College of New York - Behavior of Turtles (1980)  
University of Delaware - Perspectives in avian research in Salt Marches (1980)  
Pennsylvania State University - Significance of territoriality in Herring Gulls (1981)

Oklahoma State University - Territoriality in Herring Gull (1981)  
University of Connecticut - Role of Aggression on Reproduction of Gulls (1983)  
Institute for Animal Behavior - Rutgers (Newark) - Aggression and Territoriality (1984)  
Columbia University - Adaptive Significance of Territoriality (1984)  
Institute for Animal Behavior - Rutgers (Newark) - Role of perception in next site selection (1984)  
Queens College - Effect of incubation temperature on Pine snake behavior (1988)  
Brock University (Ontario, Canada) - Effect of incubation temperature on behavior and ecology of Pine Snakes (1988)  
UMDNJ - Robert Wood Johnson Medical School - Effects of the oil spill on animals in the Arthur Kill (1990)  
Univ. of Georgia. A Ecological risk, restoration, and future land use@ (Nov., 1996)  
SREL South Carolina A Role of long-term decision@ (U.S. Forest Service Workshops, Nov., 1996)  
UMDNJ - 2002 "Effects of lead on behavioral development."  
NY Academy of Sciences: Risk in the NY-NJ Harbor (2005)

OTHER:

Referee of Scientific papers for:

Archiv. Environ. Cont. Toxicol.  
American Midland Naturalist  
American Naturalist  
Animal Behavior  
Auk  
Can. Jour. Zoology  
Choice

Environ Research  
Ecology  
Herpetologica  
J. Herpetology  
J. Toxicol. and Environment  
Ornis Scandinavica  
Risk Analysis  
Science

Comp. Biochem. Physiol.  
Condor  
Copeia

Science Total Environ. Health  
Wilson Bulletin  
Zeitschrift für Tierpsychologie

### Grant Review

NSF Ecology Division Grant Review (1977-present)  
NSF Panel for Science Faculty Professional Development (1977)  
Chapman Fund of the American Museum of Natural History, 1983 - 1986, 1998-99  
American Association of the University Women Grant Review Panel (1983-86, 1988-01)  
Lindburgh Fund (1988-94)  
Florida Game and Freshwater Fish Commission (1988-96)  
NOAA Sea Grant Program (1993-) NSF (1990-present)  
Pew Foundation (1997-present)

### Professional Societies

Society for Toxicologists (Full elected member)

American Ornithologists Union:

Awards Committee 2004-  
Members by Committee 2003-  
Committee for Research, 1986-1987  
Carnes Award Committee, 1980-1986  
By-laws Committee, 1983-1986  
Elected to Council, 1981-1983  
Elected to Fellow, 1983  
Archives Comm. (**Chair**), 1990-1993  
Nominating Committee, 1996-1999, 2004-present  
Awards Committee 2004 -  
Professional Development Committee 2004 -

Colonial Waterbird Group:

Vice President, 1980-1981  
President, 1982-1983  
Editorial Board, Colonial Waterbirds, 1979-1986  
Awards Committee, 1989- 94  
Program Committee 1996- 98  
Wilson Ornithological Society: Resolutions Committee, 1982

Outside Committee member for students at the University of Pennsylvania, Lakehead University (Ontario, Canada), Griffith University (Queensland, Australia), New



York University, City College of New York, and Brock University (Ontario, Canada), Macquarie University (Sydney, Australia), University of Melbourne (Australia.)

Organization for Tropical Studies:

Board of Directors (1986-1995)

Palo Verde Advisory Comm. (1989-1993)

Nominations Comm. (1994-1995)

International Council for Bird Preservation. Seabird Specialist Group Bird Conservation (Assoc. To Editor, 1990-1991). Organize two-day symposium at 1990 ICBP meetings in New Zealand on threats for island-nesting seabirds.

International Ornithological Congress - Committee of 100 ((2000)-present)

## **PAPERS - PRESENTED AT SCIENTIFIC MEETINGS**

1971 American Ornithologists Union: Colony Site Selection in Franklin's Gull. Seattle, Washington. 30 August - 3 September.

1972 American Ornithologists Union: Effects of tide on migrating shorebirds (with M. Howe). Grand Forks, North Dakota, 14-18 August.

1973 American Ornithologists Union: Role of Visibility in Nest Site Selection in Gulls. Provincetown, Cape Cod, 8-12 August.

1974 Animal Behavior Society: The Role of Intruders in Territoriality of Laughing Gulls

American Ornithologists Union: Circadian activity patterns in Laughing Gulls. Norman, Oklahoma, 14-18 October.

1975 American Ornithologist Union: Resource Partitioning. Nest site selection in N.A. Herons; and Tidal Effects on mixed species flocks of Shorebirds (with M. Howe, C. Hahn and J. Chase). Winnipeg, Manitoba, 25-29 August.

Society of Ichthyology and Herpetology: Factors affecting the survival and hatching of eggs of the Diamondback terrapin (invited).

1976 American Ornithologists Union: Competition between Cattle Egrets and indigenous Ardeids. Haverford, PA, 9-13 August.

- North American Wading Bird Conference: Nesting behavior of herons. Charleston, SC. October 14-16.
- 1977 American Ornithologists Union: Colony site selection in Common Terns. Berkeley, California, 22-26 August.
- Colonial Wading Bird Group: Nest site selection in Common Terns: DeKalb, Illinois. 21-23 October.
- Animal Behavior Meetings: On the nature of aggression in some mixed species groups (invited). St. Johns, Newfoundland, 16-20 October.
- Mosquito Meetings: The effect of ditching on Colonial Birds (with J. Shisler and F. Lesser). Washington, DC. April.
- 1978 American Ornithologists Union: Competitive interactions of Herring Gulls with native species. Madison, Wisconsin. 14-18 August.
- Colonial Waterbird Group: The effects of ditching on marsh nesting birds. New York, City, N. 20-23 October.
- 1979 American Ornithologists Union: Kleptoparasitism in Frigate birds (with M. Gochfeld). College Station, Texas. August.
- American Ornithologists Union: Foraging in Laughing Gulls, an optimum strategy for young (with M. Gochfeld). College Station, Texas. August.
- Colonial Waterbird Group: Piracy behavior of four species of gulls at a dump. Lafayette, Louisiana. 25-28 October.
- Marine Bird Symposium, Union of South Africa: Post-fledgling parental care in Marine Birds. Invited symposium speaker. Capetown, South Africa. 19-23 November.
- 1980 American Ornithologists Union: Effects of human disturbance on Herring Gulls. Ft. Collins, Colorado. 11-15 August.
- Colonial Waterbird Group: Overview of human disturbance on nesting lairs. Ottawa, Canada. October.

- 1981 American Ornithologists Union: Biological amplification of heavy metals in estuarine birds of the New York bight (with M. Gochfeld). Edmonton, Alberta, 24-27 August.
- Colonial Waterbird Group: Factors affecting distribution and abundance of skimmers and terns at an east coast bay. Corpus Christi, Texas, 22-25 October.
- Colonial Waterbird Group: Bioamplification of cadmium in aquatic birds (with M. Gochfeld). Corpus Christi, Texas. 22-25 October.
- 1982 Seabird Group of England: Territoriality in Seabirds (invited). Utoxeter. 12-14 February.
- International Ornithological Congress: Invited symposium speaker. Moscow, USSR. 16-25 August.
- American Ornithologists Union: Territoriality in Herring Gulls. Chicago, Illinois, 10-14 October.
- Colonial Waterbird Group: Avian use of a Florida garbage dump (with M. Gochfeld). Washington, D.C. 4-7 November.
- 1983 American Ornithologists Union: Are shorebirds marine birds? New York City, 26 September - 1 October.
- Colonial Waterbird Group: Nest site selection in Sooty Terns. San Juan, Puerto Rico, 26-31 October.
- 1984 American Ornithologists Union: Effect of colony size on mobbing behavior on Common Terns. Lawrence, Kansas, 5-20 August.
- American Ornithologists Union: Offspring loss and weather in a Massachusetts heronry (with K.C. Parsons). Lawrence, Kansas, 5-20 August.
- Colonial Waterbird Group: Nesting Behavior of Andean Gull (with M. Gochfeld). Ithaca, New York, 4-7 October.
- Colonial Waterbird Group: Timing of breeding and weather effects in herons (with K.C. Parsons). Ithaca, New York, 4-7 October.
- Pacific Seabird Group: Nest site selection in Least Terns (with M. Gochfeld).

- Pacific Seabird Group: Nest site selection in Roseate and Common Terns (with M. Gochfeld). Long Beach, California, 12-15 December.
- 1985 American Ornithologists Union: Piracy, a cost of coloniality (with M. Gochfeld). Tempe, Arizona, 7-10 October.
- Colonial Waterbird Group: Foraging efficiency in Gulls. San Francisco, CA, 4-8 December.
- 1986 International Ornithological Congress: 1. Territoriality in Gulls (invited symposia). 2. Effects of age on foraging in birds (invited symposia). Ottawa, Canada, 22-29 June.
- International Council for Bird Preservation: Hamilton, Ontario. Delegate for Colonial Waterbird Group. 20-21 June.
- American Ornithologists Union: Group size, sex, and vigilance in Ostrich (with M. Gochfeld).
- Colonial Waterbird Group: Early experience and habitat selection in Common Terns. Charleston, South Carolina, 23-26 October.
- Colonial Waterbird Group: Mate Replacement in Gulls (with G. Transue). Charleston, South Carolina, 23-26 October.
- 1987 American Society for Ichthyology and Herpetology: Effects of incubation temperature on behavior of a snake. Albany, NY, May.
- American Ornithological Union: Sibling recognition in Common Terns (with M. Gochfeld, W. Boarman).
- American Ornithological Union: Responses to mate loss by Herring Gulls and Great Black-backed Gulls (with G. Transue).
- American Ornithologists Union: Nesting Behavior of Sooty Terns (with J. Saliva).
- Colonial Waterbird Society: Prey dynamics and the breeding phenology of Common Terns (with C. Safina). Thunder Bay, Ontario, 10-13 September.
- Colonial Waterbird Society: Nest Site Selection in Oystercatchers (with B. Lauro). Thunder Bay, Ontario, 10-13 September.

- 1988 Pan African International Ornithological: Foraging behavior of Cattle Egrets (with M. Gochfeld). Nairobi, Kenya, 17-23 August.
- Colonial Waterbird Society: Social facilitation and breeding synchrony in Black Skimmers (with M. Gochfeld). Washington, D.C., 12-16 October.
- Colonial Waterbird Group: Effect of experimental manipulation of vegetation on nest site selection in Sooty Terns (with J. Saliva). Washington, D.C., 12-16 October.
- Colonial Waterbird Group: Evidence for prey limitation of Roseate and Common Tern Reproduction (with C. Safina, M. Gochfeld, and R. Wagner). Washington, D.C., 12-16 October.
- 1989 American Ornithologist Union: Factors affecting host selection in Cattle Egrets (with M. Gochfeld). Pittsburgh, PA.
- Caribbean Ornithological Society: Comparative behavior of young tropical terns. Santo Domingo, Dominican Republic, August.
- 1st World Congress of Herpetology: Nesting behavior of Pine Snakes. Individual, yearly and location differences. Invited with R.T. Zappalorti. Canterbury, England.
- Colonial Waterbird Group: Feeding behavior of Snowy and Great Egrets at an artificial prey patch (with J. Brzorad). Key Largo, FL, 22-27 October.
- 1990 American Ornithologists Union: Heavy metal accumulation in seabirds (with M. Gochfeld). Los Angeles, California, 25 June - 1 July.
- Caribbean Ornithological Society: Role of heavy metals in tropical terns. Kingston, Jamaica, 12-15 August.
- Colonial Waterbird Society: Piracy in Common Terns (with M. Gochfeld). St. Johns, Newfoundland, 16-20 August.
- International Council for Bird Preservation: Predator threats to island seabirds. Hamilton, New Zealand, 21-27 November.
- Snake Behavior Workshop: New Orleans, Louisiana, 2-4 August.

1991 American Ornithological Union: Prey ecology and size selection in Snowy and Great Egrets (with J. Brzorad). Montreal, Canada, 13-19 August.

American Ornithological Union: Evaluation of radio-transmitter attachment methods for Bali Mynahs (with S. Elbin). Montreal, Canada, 13-19 August.

Caribbean Ornithological Society: Biomonitoring using birds as indicators. Castries, St. Lucia, 3-7 August.

Colonial Waterbird Group: Comparative foraging success between adult and immature Roseate and Sandwich Terns (with D. Shealer). Williamsburg, Virginia, 17-20 October.

Colonial Waterbird Group: Heavy metal levels in seabirds of the Pacific (J. Burger, E.A. Schreiber, and M. Gochfeld). Williamsburg, Virginia, 17-20 October.

Colonial Waterbird Group: The role of habitat selection in determining nesting distribution in a Marine seabird colonies (G. Transue and J. Burger). Williamsburg, Virginia, 17-20 October.

Colonial Waterbird Group: The impact of oil spills on the prey ecology and egret and ibis foraging behavior. (J. Brzorad, A. Maccarone, J. Burger.) Williamsburg, Virginia, 17-20 October.

Society of Environmental Toxicology and Chemistry: A paradigm for ecological risk assessment (J. Lipton, H. Galbraith, P. Anderson,, D. Wartenberg, and J. Burger). Seattle, Washington, 3-7 Nov.

1992 New York Natural History Society: Adaptation of Pine Snakes to a fire-dominated ecosystem (with J. Hill). Albany, New York, 27-30 April.

Ecological Society of America: Effects of human disturbances on vigilance behavior of rain forest birds in Papua New Guinea (with M. Laska). Oahu, Hawaii, August.

Cooper Ornithological Society: Correlates of yearly mate switching in captive Scarlet and Waldrapp Ibis. Seattle, Washington, 22-27 June. (with S. Elbin).

Colonial Waterbird Society: Cattle Egret colonies do not function as information centers (J. Brzorad, and J. Burger.) Univ. of Mississippi, Oxford, Mississippi, 13-19 October.

Colonial Waterbird Society: Mate switching in captive colonies of Scarlet (Eud

ocimus ruber) and Waldrapp (Geroticus eremita) Ibes. (S. Elbin, and J. Burger). Univ. of Mississippi, Oxford, Mississippi, 13-19 October.

Colonial Waterbird Society: Metal levels in regrown feathers: assessment of contamination on the wintering and breeding grounds in the same individual (J. Burger, I.C.T. Nisbet and M. Gochfeld). Univ. of Mississippi, Oxford, Mississippi, 13-19 October.

Colonial Waterbird Society: A good versus a bad year for Roseate Terns (D. Shealer, and J. Burger). Univ. of Mississippi, Oxford, Mississippi, 13-19 October.

Colonial Waterbird Society: Equitability of parental investment of Laughing Gulls. (L. Wagner and J. Burger). Univ. of Mississippi, Oxford, Mississippi, 13-19 October.

1993 Am. Soc. Ichthyology and Herpetology: Comparative behavioral ecology of the Black Racer and Eastern Hognose Snake (J. Hill, J. Burger). June, 1993. Texas.

ATSDR: An avian model to study behavioral development (with M. Gochfeld), Atlanta, Georgia. May, 1993.

Colonial Waterbird Society: Prey selection by Roseate and Sandwich Terns during years of food abundance and food stress (with D. Shealer). Arles, France. 6-10 October.

Colonial Waterbird Society: Trade off in foraging in Laughing Gulls: Importance of horseshoe Crab eggs (with L. Wagner). Arles, France. 6-10 October.

Colonial Waterbird Society: Pigmentation patterns in a colony of Waldrapp Ibis. (with S. Elbin). Arles, France. 6-10 October.

Colonial Waterbird Society: Heavy metals in Roseate Tern feathers and eggs from the Northeastern United States. (Burger and Gochfeld), Arles, France, 6-10 October.

Colonial Waterbird Society: An avian model for investigating critical periods for lead exposure on neurobehavioral development. (Burger and Gochfeld). Arles, France. 6-10 October.

Colonial Waterbird Society: Seasonal decline in reproductive success in Roseate Terns in two Northeast United States colonies. (Burger, Nisbet, Safina, Gochfeld). Arles, France. 6-10 October.

- Conservation, restoration, and management of tortoises and turtles: Effects of human recreation on the North American wood turtle (*Clemmys insculpta*): a 20 year study (1974-1993). July 11-16. (with S. Garber) Purchase, New York.
- 1994 American Ornithologists Union: Critical periods for development in herring gulls (with M. Gochfeld) June, Missoula, Montana.
- American Ornithologists Union. Gender: Differences in altitudes toward professions (with S. Elbin and N. Tsipoura) June, Missoula, Montana.
- Herpetologists= League and Society for the Study of Amphibians and Reptiles: Declining turtle population (with S. Garber) July 28-Aug.1. Athens, Georgia
- Soc. for Study of Amphibian and Reptiles: Declining wood turtle population (S.D. Garber and J. Burger). SUNY, Pinebase, NY.
- Colonial Waterbird Group: Using feathers as bioindicators of heavy metals (J. Burger, M. Gochfeld). Oct., Wilmington, NC.
- Colonial Waterbird Society: Extra-pair copulation and nesting Synchrony in Captive Waldrapp and Scarlet Ibis (S. Elbin, J. Burger, C. Sheppard.) Wilmington, N.C.
- 1995 NY Wildlife Society Meetings: Turtle and human populations in conflict (with S. Garber & J. Burger). Rochester, NY. January.
- Colonial Waterbird Society: Ecological Risk assessments using birds, (with M. Gochfeld) Victoria, B.C., 8-12 November .
- Colonial Waterbird Society: Global conservation status of gulls and terns. Victoria, B.C., 8-12 November.
- 13th Int. Neurotoxicology Conference: Behavioral effects of environmental exposure to lead. Hot Springs, Arkansas, Oct. 29 - Nov. 1.
- Collegium Ramazzini.: Ecological Risk. Washington, D.C., 3-5 November.
- 1996 Society for Environmental Journalists (June) - 3 presentations  
 ALead and Behavioral Development@  
 AHunting and Fishing, consumption, and potential risks@  
 AUrban and Suburban Ecology@



Society of Ecological Restoration: Costs and Benefits of Restoring Habitats in Contaminated Sites

Society of Ecological Restoration: Restoring Least Tern Habitats (June) Rutgers

American Ornithological Union: Mercury in eggs of Wood Ducks (with J. Stout). (August)

Society for Risk Assessment: Risk perception, federal spending and the Savannah River Site (December)

Colonial Waterbird Society: Host choice and success of gulls and terns pirating from Brown Pelicans (D. Shealer, T. Floyd and J. Burger)

Herpetologists= League and Society for the Study of Amphibians and Reptiles: Declining turtle population (with S. Garber) July 28-Aug.1. Athens, Georgia

Society for Ecological Restoration: Restoration potential and options for contaminated sites: their role in ecological risk assessment (Burger, J.) June 1996, Rutgers, NJ.

American Ornithological Union: Mercury contamination in eggs of Wood Ducks from the Savannah River Site (Stout, J., J. Burger, R. Kennamer, and I. L. Brisbin.) August 1996, Boise, Idaho.

Barnegat Bay Workshop: Attitudes and perceptions of fishermen and elected officials about Barnegat Bay (Burger, J. J. Sanchez, and M. McMahon.) November 1996, Barnegat Bay.

Barnegat Bay Workshop: Contaminants and population levels of birds in Barnegat Bay (Burger, J.) November 1996, Barnegat Bay, NJ.

Colonial Waterbird Society: Risk to Coastal birds from mercury. (Burger, J.) October 1996, Charleston, SC.

American College of Toxicology: Ecological Risk Assessment at DOE. (Burger, J.) November 10, 1996, Philadelphia, PA.

American College of Toxicology: Ecological Risk Paradigms (Cooper, K.) November 10, 1996, Philadelphia, PA.

Society for Risk Analysis: Risk perception, federal spending, and the Savannah River Site: attitudes of hunters and fishermen. (Burger, J.) December 1996, New Orleans, LA.

1997 Cooper Ornithological Society: Metal levels in Mourning Doves from South Carolina: potential hazards to doves and hunters@. (J. Burger, M. Gochfeld, L. Brishin Jr., R. Kennamer) May 1997, Hawaii.

Desert Tortoise Council: Recreation causes extinctions of human-sensitive organisms (Wood Turtles), (with S. Garber).

American Ornithological Union: Mixed mating strategies in two species of monogamous birds (S. Elbin, J. Burger).

Colonial Waterbird Society: Sibling Recognition among Common Tern Chicks (B. Palestis and J. Burger).

Society of Risk Analysis: Risks from consuming Mourning Doves. J. Burger et al. Dec. 1997, Washington, D.C.

NOAA Conference on Climate Change: Effects of Climate Change on Birds (To MS River Nov)

Cooper Society: Metal levels in Mourning Doves from South Carolina (Burger, J., M. Gochfeld, R. Kennamer and I. L. Brisbin.) Cooper Society, Hawaii, May 1997.

Internatl. Conf. on Human Health Effects of mercury exposure: Mercury exposure in urban fishermen: ethnicity affects information on sources, perceptions and compliance. (Burger, J., K. K. Pflugh, J. Sanchez, L. Lurig, L. VonHagen and S. VonHagen.) June, Torshavn, Faroe Islands.

Idaho Academy of Science: Surveying public perceptions about the Idaho National Engineering and Environmental Laboratory's Environment (Roush, D, D. Beaver, and J. Burger) April, Pocatello, Idaho.

American Society of Ichthyologists and Herpetologists: Fish assemblage structure in a headwater stream 16 years after thermal effluent removal. (Snodgrass, J. W., J. M. Aho, and J. Burger.) August.

Wildlife Society: Metal and Cesium Levels in Mourning Doves from South Carolina: Potential Hazards to Doves and Hunters. (Burger, J., M. Gochfeld, R. Kennamer and I. L. Brisbin.) September, Snowmass, Colorado.

Wildlife Society: Herring Gulls as a neurobehavioral model for lead toxicity. (Burger, J. and M. Gochfeld.) September, Snowmass, Colorado.

Society for Risk Analysis: Metal and Cesium Levels in Mourning Doves from South Carolina: A Risk Assessment for Hunters. (Burger, J., M. Gochfeld, R. Kennamer and I. L. Brisbin.) December 7-10, Washington DC.

1998 Society of Integrative Biology: Recognition of New Predator Species and Individuals by Common Terns. (B. Palestis and J. Burger) June, (abstract publ. Am Zool. 37:31A).

American Ornithological Union: Shorebird diet during migration through Delaware Bay. (N. Tsipoura and J. Burger) April

American Ornithological Union: Heavy metal and selenium levels in grebe eggs and feathers from Agassiz NWR. (J. Burger and B. Eichhorst) April

NE Chemical Society: Birds as Bioindicators. February

Society for Environmental Toxicology and Contamination: Lead levels in Mourning Doves from South Carolina; Potential Hazards to Doves and Humans. (With I.L. Brisbin, R. Kennamer, and M. Gochfeld.) October.

Society for Environmental Toxicology and Contamination: The CRESP Experiment: Implications to ecological research. (B.D. Goldstein, C. Powers, L. F. McGrath, J. R. Karr and J. Burger) October.

American Occupational Health Conference: Methylmercury and potential exposure in New Jersey's Pregnant Population. (With M. Gochfeld, A. Stern ) (Boston , 30 April)

Western States communication Assoc: Applying an Ecological Index to Explain Peoples' Attitude about Idaho's Department of Energy Site. (D. Roush and J. Burger) Vancouver BC, February.

Effects of Fisheries Management on the Amphibians and Other Biota of Wilderness Lakes. (16-18 October 1998.): Relationship Among Wetland Hydroperiod, Presence of

Fish and Amphibian Reproductive Characteristics in depression Wetlands of the Southeast. (J. Snodgrass and J. Burger) Flathead Lake Biological Station, Polson, MT.

INTECOL 98 Conference: Spatial Modeling of Piscivorous Bird Feeding Habitat"  
co-authors R. Lathrop and J. Burger

Society for Integrative and Comparative Biology: Recognition of nest predator species and individuals by Common Terns (Palestis, B. and J. Burger.) Boston Mass. 3-7 January.  
Abstract Publ. in American Zoologist (1998).

Society of Toxicology: Developmental lead exposure alters expression of neural cell adhesion molecules in Herring Gull brains. (Dey, P. M., J. Burger, M. Gochfeld, M. A. Polunas and K. R. Reuhl.) March 1998.

Idaho Academy of Sciences: A survey of Idahoans preferences for future land uses at the INEEL. (Roush, D. and J. Burger.) J. Idaho Academy of Sci., April 1, 34:29 (abstract).

Society of Mammologists: Tissue concentration differences of radiocesium among raccoon populations within and near the Department of Energy's Savannah River Site. (Lord, C. G., K. F. Gaines, C. Shane Boring, J. Burger and I. L. Brisbin Jr., June.

American Occupational Health Conference: Methylmercury and potential exposure (Stern, A., M. Gochfeld and J. Burger.) Boston.

Colonial Waterbird Group: Marine Policy, birds and personal watercraft. (Burger, J. and J. Leonard.) Miami, Florida, October.

Invited conference on Effects of fisheries management on the amphibian and other biota of wilderness lakes: Relationship among wetland hydroperiod, presence of fish and amphibian reproductive characteristics in depression wetlands of the southeast. (Snodgrass, J and J. Burger.) 16-18 October.

Society for Environmental Toxicology and Chemistry: The Cresp Experiment: Implications to ecological research. (Goldstein, B. D., C. Powers, L. F. McGrath, J. R. Karr and J. Burger.) Charlotte, NC. November.

Society for Environmental Toxicology and Chemistry: "Fish and Fishing: potential hazards to fishermen." (Burger, J., M. Gochfeld, K. F. Gaines, C. S. Boring, and W. L. Stephens.) Charlotte, NC. November.

Society for Environmental Toxicology and Chemistry: Lead levels and risk for hunters from consuming doves (Burger, J., I. L. Brisbin Jr., R. Kennamer, and M. Gochfeld.) Charlotte, NC. November.

Society of Risk Analysis meetings: Fish consumption, fish advisories, risk from fishing along the Savannah River: Conflicting information base. (Burger, and J. Gochfeld, M.) Phoenix, AZ. November.

Society of Risk Analysis meetings: Risks from cesium-137 ingestion: comparison among approaches. (Gochfeld, M. and J. Burger.) Phoenix, AZ. December.

1999 Fifth Biennial Conference on Communication and Environment: Using an Ecological Index to Explain Environmental Attitudes about Idaho's Department of Energy Site. (Donny Roush, and Joanna Burger, Environmental and Occupational Health Sciences Institute, Rutgers U.) Northern Arizona University July 24 -27.

American Society of Herpetology: Risk Assessment of Human Recreational Effects on Turtle Decline and Extinction (S. D. Garber and J. Burger.) Pennsylvania State College, PA (June 24-30)

Savannah River Environmental Conference: Risk Communication to Stakeholders at the Savannah River Site (M. Gochfeld, J. Burger.) The Savannah River Site, SC

Wetlands and Remediation: An International Conference: Wetland Morphology, Hydrology and Landscape Position: Implications for Constructed Wetlands. (J. W. Snodgrass, C. H. Jago, A. L. Bryan Jr., and J. Burger.) Nov. 16-17, 1999. Salt Lake City, Utah.

Western States Communication Association: Applying an Ecological Index to Explain People's Attitudes about Idaho's Department of Energy Site (Roush, D. and J. Burger.) Vancouver, February.

Southeast Missouri State University: Influence of wetland hydroperiod on fish distribution, ecotoxicology and wading bird risk. (Snodgrass, J. W., J. Burger, A. L. Bryan Jr., and C. Jago.) Cape Girardeau, MO February 4.

DOE Occupational Medicine Meeting: Factors in exposure assessment: Ethnic and social differences in fishing and consumption of fish caught along the Savannah River. (Burger,

J, W. Stephens, C.S. Boring, M. Kuklinski, J. W. Gibbons and M. Gochfeld.)  
Albuquerque, NM. July.

Wetlands and Remediation (an international conference): Wetland morphology, hydrology and landscape position: implications for constructed wetlands (Snodgrass, J. W., C. Jageo, A. L. Bryan Jr., and J. Burger.) Salt Lake City, Utah. November.

Society Risk Analysis: Probabilistic estimates of risk from consumption of Mourning Doves contaminated with heavy metals at the Savannah River Site (Erdal, S., T. Simon, M. Gochfeld, and J. Burger.) Atlanta, Dec.

(2000)

Division of Forestry and Wildlife: Viewing aquatic systems as landscapes  
( Snodgrass, J. W., A. L. Bryan Jr., and J. Burger.)  
West Virginia University, Morgantown, West Virginia, March 23.

Animal Behavior Society: Discrimination among predatory gull species by common terns  
B.G. Palestis and J. Burger, Rutgers University. Animal Behavior Society. Atlanta, GA.  
August 5-9.

The Wildlife Society 6th Annual Conference: Raccoons as a bioindicator of radionuclide and metal contamination. (Gaines, Karen F., Christine G. Lord, C. Shane Boring, I. Lehr Brisbin, Jr., Christopher S. Romanek, Joanna Burger, Michael Gochfeld) Presented as a poster at, (2000), Austin, TX. , Sept. 7-11.

EPA East Coast Beach Conference: Recreation rates, fish consumption, and communication. (Burger, J.) Tampa, Florida, October.

Watchable Wildlife Conf.: Recreation, Tourism and Disturbance of Birds (Burger, J.)  
October, Ft. Myers. (Keynote Speaker)

Frank Family Science Center Dedication: Models of Wetland  
Community Structure and Their Implications for Biological Monitoring and  
Wetland Regulations (Snodgrass, J. W., A. L. Bryan Jr., and J. Burger.) Guilford  
College, Greensboro North Carolina, October 27.

New York Academy of Sciences: Ecology of Mercury ( J. Burger and M. Gochfeld) NY  
Academy, NY, NY.

Society Risk Analysis: Perceived Effect of Fish Consumption Advisories on Recreational and Party-boat Fishing in New Jersey (J. Burger, B. Johnson, S. Shukla, and M. Gochfeld.) Alexandria Va. December 3-6.

Society Risk Analysis: The role of wild caught fish and game in the diet of North Carolinians (Burger, J. and M. Gochfeld.) Atlanta, Dec.

Society Risk Analysis: Cancer Risk from Strontium 90 from Savannah River Fish (with Mike Gochfeld). Alexandria Virginia. December 3-6.

Society Risk Analysis: Communication of a Risk Message (with L. Waiswell). Alexandria , Virginia. December 3-6.

2001

American Society of Limnology and Oceanography: Hydroperiod Variation, Landscape Position and the Occurrence of Top Predators in Temporary Habitats Session Choices Snodgrass, J. W., Bryan, L. A. Jr., and Burger, J. American Society of Limnology and Oceanography. Albuquerque, NM. February 12-16.

International Ethological Conference: Does nest defense in gulls and terns vary across the nesting cycle? (B. Palestis & J. Burger) Germany. August.

EPA Conference on Metal Contamination of Sediments, Poster: Bioavailability of Heavy Metals and Radionuclides at an Aged Riparian Zone on the Savannah River Site (T. Punshon, J. Burger, P. M. Bertsch & K. Gaines) Alexandria, VA May 30-June 1, 2001

USA. American Society of Mammalogists 81st Annual Meeting: A local habitat preference model for beaver *Castor Canadensis* on the southeastern Coastal Plain (Jake, A. J., J. W. Snodgrass, and J. Burger) The University of Montana,, Missoula, Montana. June 20-26, 2001.

ER Technology End User Conference, Poster: Bioavailability and Trophic Transfer: Correlation between metals and radionuclides in an aged riparian system (T. Punshon, J. Burger, K. Gaines & P. M. Bertsch) Atlanta GA, July 17-19, 2001.

Proceedings of the SCOPE Workshop: Environmental Cadmium in the Food Chain: Sources, Pathways, and Risks (Burger, J. Ed by J.K. Syers and M. Gochfeld. Belgian Academy of Sciences Brussels, Belgium, September 13-16 .

Waterbird Meeting: Does Nest Defense in Gulls And Terns Vary Across The Nesting Cycle? ( Brian G.Palestis and J. Burger) Toronto 1 October, 2001.

Natural Remediation Workshop, Presentation: Bioavailability of Uranium and Heavy Metals in a Contaminated Wetland. (T. Punshon, K.F. Gaines, J. Burger & P. M. Bertsch) Invited speaker: Natural Remediation Workshop, Savannah River Ecology Laboratory, Oct 4, 2001.

Soil Science Society of America Annual Conference in Charlotte NC. Also appearing in the National Synchrotron Light Source annual Activity report: TI: Spatially Resolved X-Ray Microanalysis of Nickel in *Salix nigra* Tree Cores from an Aged Contaminated Site. AU: (T. Punshon, P.M. Bertsch, T. Lanzirrotti, and J. Burger.) Monday October 22.

ASA-CSSA-SSSA Annual Meeting, Poster: Trophic Transfer Of Heavy Metals and Radionuclides from Contaminated Sediments (T. Punshon, K. F. Gaines, J. Burger, P. M. Bertsch) Charlotte, NC. October 21-25, 2001.

ISEA 2001 Conference: Development of an Integrated Foodweb Model for Mercury for Exposure Assessment (John G. Hunter, Y.C. Yang, A. Roy, P. Georgopoulos, J. Burger, K. Cooper) Charleston, SC November 4-8.

NAMLS 2001 Conference: Personal Watercraft (J. Burger and M. Gochfeld). Madison WI Nov 9th.

(2002) SETAC: Heavy Metals in New Jersey Ecosystem. April - Meadowlands.

Science and Community Partnership in Development of a Fish Consumption Advisory IAP2 May 5, 2002 (L. Waishwell, J. Burger)

Barnegat Bay Watershed Seminar: Metals in Barnegat Bay Watershed. May 14

Joint Meeting of Ichthyologists and Herpetologists: .

The feasibility of using exotic lizards as bioindicators of environmental contamination: an example using the brown anole *Anolis Sagrei* in south Florida (K.Campbell, S, Todd, and J. Burger) Kansas City, Missouri. July 3-8, 2002

Joint Meeting of Ichthyologists and Herpetologists: Behavior , Knowledge, Consumption, and Perceptions of People Fishing in a Reservoir under Fish Consumption Advisories : the Clinch River Arm of Watts Bar Reservoir Adjacent to the U.S. Department of Energy=s Oak



Ridge Reservation, Tennessee (K.Campbell, R..J. Dickey, R. Sexton, and J. Burger) Kansas City, Missouri. July 3-8, 2002.

International Ornithological Congress: Birds as monitors of traditional and new contaminants in Asia. Beijing, China. August.

International Ornithological Congress: Using Contaminants to Predict Ecological and Human Damage. Beijing, China. August.

International Ornithological Congress. Effects of Lead on Neurobehavioural Development Beijing, China. August.

International Ornithological Congress: Aggressive Behavior in Parrots and Macaws in Peru. Beijing, China. August.

American Public Health Association: Development of a Fish Consumption Advisory: Science and Community Partnership (L. Waishwell and J. Burger) Philadelphia, PA 9-13 November 2002.

American Ornithologist's Union, New Orleans, December: Radiocesium and Mercury in fish from the Savannah River: Food Chain exposure.

Society for Risk Analysis, New Orleans, December. Radiocesium and Mercury in fish from the Savannah River: Food Chain exposure. December 8-11, 2002

Society for Risk Analysis: Incorporating Ecological Considerations in Risk Decision and Long-Term Stewardship at Department of Energy Sites. New Orleans. December 8-11, 2002

Society for Risk Analysis: Risk Communication to At-Risk Audiences: Using the Teachable Moment. (C. Chess, M.H. McDermott, K. Kirk-Plugh, M. Perez-Lugo, J. Burger) New Orleans. December 8-11, 2002

Society for Risk Analysis, New Orleans, December. Fish Consumption Advisories, and Why People Fish ( J. Burger) December 8-11, 2002

Society for Risk Analysis: Human Exposure to Radiocesium and Mercury in Fish from the Savannah River ( M. Gochfeld, J. Burger, K.F. Gaines) New Orleans, December 8-11, 2002

2003 The American Fisheries Society: Communicating Fish Consumption Advisory Risks (Bochenek, E. , M.H. McDermott, C. Chess, J. Burger, M. Perez-Lugo, and K. Kirk Pflugh) Quebec City, August 2003.

SETAC-Sponsored Workshop, Pensacola FL. "Mercury Monitoring and Assessment: Wildlife Indicators (Wolfe, M.F., E. Zillioux, T. Atkeson, B. Bowerman, J. Burger, D. Evers, M. Murray) September 14 - 17, 2003.

SRA - Baltimore, MD:Evaluating Ecological And Human Health Risk at Contaminated Sites (J. Burger and M. Gochfeld) December 2003.

2004

Neurotoxicology Meeting: Good fish Bad Fish (M. Gochfeld and J.Burger) Honolulu, Hawaii. March, 2004.

Neurotoxicology Meeting: Using a Herring Gull Model for Understanding the Effects of Lead (J. Burger and M. Gochfeld) Honolulu, Hawaii. March, 2004.

American Ornithologists Union: Ecological Risk and Conceptual Site Models Where receptors, are off site, especially sea birds (J. Burger and M. Gochfeld) Quebec City, Quebec, August 2004

Colonial Waterbirds: Is Extra-pair Copulation a Mating Strategy or a By-product of Sexual Activity in Scarlet Ibis (*Eudocimus ruber*)? (S. B. Elbin and J. Burger)

Society for Risk Analysis: Mercury in Commercial fish: optimizing individual choices. Albuquerque, NM.

Society for Risk Analysis. Indicators of Exposure. Albuquerque, NM

2005

AAUS Diving for Science Symposium Nov 2004: Scuba Techniques used in risk assessment of possible nuclear leakage around Amchitka Island, Alaska (S.J. Jewett, Hoberg, M., Chenelot, H.M., Harper, S., J. Burger, J., Gochfeld, M.).

19th Annual Meeting of the Society for Conservation Biology, Brasilia, Federal District, Brazil: The Influence of Habitat Availability on Migratory Raptor Distribution at a Coastal Stopover in New Jersey (C. A. Frank, Burger, J. and Niles, L.).

AAAS Amchitka symposium: Radionuclides in Marine Biota around Amchitka Island (J. Burger, Gochfeld, M., Kosson, D., Jewett, S., C. Powers, Friedlander, B., Volz, C., and Duffy, L.) Kodiak, AK.

2006

Health Physics Meeting: Recent Environmental Analysis of Biota at Amchitka Island (D. Kosson, Stabin, M., Favret, D., Powers, C.W., Burger, J.) Boston, MA – June.

American Museum of Natural History – Conserving Birds in Human Dominated Landscapes, New York City: People and Coastal Birds: Human Activities, Habitat Loss, Pollution, and Co-Existence (J. Burger)

Society of Risk Analysis. Stakeholder and Public Policy, Baltimore, Maryland (Burger et. al.).

American Ornithological Union – Birds as Indicators of Urban Environments (J. Burger & Gochfeld, M.).

2007

MERI Conference: Metal Contaminant Levels and Their Effects on Birds Breeding in the Hackensack Meadowlands (N. Tsipoura, Burger, J., Mizrahi, D., Yacabucci, J.)

EPA Fish Forum. Fish Consumption and Risk (Maine, July).

AOU. Metals and Radionuclides in Birds from the Aleutians (Wyoming, August).

Colonial Waterbirds. Birds as Bioindicators (Spain, Oct.)

SRA. A Model for Stakeholder Participation

NJAS Meadowlands Symposium: Contaminant Levels in Birds Breeding in the Hackensack Meadowlands (May 16)

## GRANTS WHILE AT RUTGERS UNIVERSITY

Research Council Summer Fellowships - 1974 & 1975.

Research Council Grants	1973	Visibility and Aggression in Laughing Gulls
	1974-75	Factors effecting survival of eggs of terrapin
	1975-76	Nest site selection in Herons
	1976-78	Territoriality in Herring Gulls
Biological Sciences Support Grant		
	1974-75	Factors determining next site selection in Herons (\$3,000)
	1975-76	Resource Partitioning: Nest site selection in mixed-species Heronries (\$2,000)
Philosophical Society of America		
	1973	Territoriality on Laughing Gulls (\$500)
	1974	Sexual Roles of Anhingas (\$800)
NIMH	1975-76	Circadian Activity Patterns in <u>Agapornis</u> parrots (\$5,000)
N.J. Mosquito Commission	1977-83	Effects of marsh changes on breeding Herring Gulls (\$52,000)
U.S. Department of the Interior:		
	1977-82	U.S. Park Services Research Div: Avian Habitat Partitioning in Jamaica Bay area (\$49,000)
U.S. Fish and Wildlife Service		
	1979-81	Effects of PCB Pollution in breeding Herring Gulls (\$6,000)
Federal Sea Grant (NOAA)	1980-82	Heavy metal distribution in waterbirds of Raritan Bay: biomagnification. immigration/emigration and seasonal variation (\$46,000)
NSF - Psychobiology	1980-82	Polygyny in Herring Gulls (Dissertation research, M. Fitch, \$3,700)

**GRANTS WHILE AT RUTGERS UNIVERSITY (cont)**

Port Authority of N.Y. & N.J	1981-83	Evaluation of Gulls as a threat to people and aircraft at airports - (\$25,000)
Busch Fund	1982-84	Behavioral effects of heavy metals on adult and young gulls and terns (\$7,000)
American Cyanamid	1982	Seasonal Activity patterns of gulls as an environmental hazard: a possible toxic contamination (\$8,700)
Nat=I Inst. of Mental Health	1984-86	Neurobehavioral development and heavy metals (\$25,022)
NJDEP	1985-87	Environmental factors affecting Three Endangered Species (\$24,000)
Ehrenkrantz Assoc.	1984-87	Environmental factors affecting Avian use at Port Liberte and the Natural Area (\$52,000)
Busch Fund	1985-86	Bioacoustical Laboratory Equipment (with R. Barfield) (\$9,000)
Dresdner Assoc.	1986-90	Environmental Effects on Avian Use in the Hudson River (\$57,000)
NJ DEP	1983-90	Colony site selection and dynamics in Black Skimmers and Least Terns (\$47,000)
USDA	1987-89	Succession in Tropical Forests (\$28,000, G. Likens PI, for Grad. Students) 19-86-074
NJDEP	1988-89	Environmental factors affecting reproductive success in Piping Plover (\$18,000)
EPA	1988-92	Bioaccumulation of mercury in a Caribbean Estuary (\$164,000)
Hudson River Foundation	1989	Foraging in Herons (\$4,000 - with John Brzoad)

**GRANTS WHILE AT RUTGERS UNIVERSITY (cont)**

U.S. Fish and Wildlife Service (Office of Endangered Species)	1987-94	Population Dynamics of Roseate Tern (\$31,000)
NJDEP	1989-90	Effect of human impacts on Piping Plover (\$21,000)
NIEHS	1988-93	Center of Excellence: Research in Environmental Health Sciences. (PI - B. Goldstein; includes about 35 faculty, each reviewed separately). (1991-92 funding - \$1,212,568.) I am director of Elemental Laboratory and funded at about \$35,000 per year -
Arverne	1989-92	Foraging behavior of Piping Plover (\$25,000)
USEPA	1990-94	Toxic Contamination in Birds in an East Coast Estuary. 1st year (\$36,000) of 5-year program. 2nd year - \$90,000, 3rd year - \$65,000, 4th year - \$12,000
NJDEP	1990-91	Toxic effects of oil on fish and crabs (\$115,000)
NJDEP	1990-94	Research on beach-nesting birds (\$25,000)
FAA	1990-92	Avian hazards at Airports (\$16,000)
Federal DOT/NJIT	1991-92	Health effects of alternative soil treatment technologies (\$33,500, with M..Gochfeld)
NIEHS	1992-96	Chronic versus Critical Period. Exposure to lead and neurobehavioral development (Direct cost - \$67,000; Yr. I - \$77,000; Year II - \$80,777; Year III - \$77,800; Year IV - \$42,000.)
NIEHS	1993-98	Center of Excellence: Research in Environmental Health Sciences (PI - B. Goldstein. 1994-98 funding - \$1,5 million/year. I am Director of Elemental Analysis Laboratory and funded at about \$70,000/yr

**GRANTS WHILE AT RUTGERS UNIVERSITY (cont)**

NJDEP	1994-00	Biology of Threatened and Endangered Species (\$2,500/yr.)
US Fish & Wildlife Service:	1994-96	Metapopulation dynamics of Roseate Tern (\$6,000/yr.)
National Audubon Society	1994-98	Conservation of marine resources (\$46,500)
NJDEP	1994-98	Determination of methylmercury exposure in the New Jersey pregnant population (Co PI, PI = M. Gochfeld) (\$99,000)
Penn Foundation	1995-97	Spatial distribution of colonial birds in relation to fish resources (Barnegat Bay) (\$72,000) (through IMCS)
Dodge Foundation	1995-96	Butterflies of New Jersey (\$10,000)
National Wildlife Federation	1996-00	Factors affecting Neotropical Migrants (\$150,000)
National Wildlife Foundation	1998-00	Factors affecting migrant shorebirds (\$60,000)
US Dept. of Energy	1995-00	Ecological and Human Health Risk Assessment (my portion = \$700,000/year (Part of large grant through EOHSI, total 30.0 million over 5 years)
NIEHS	1999-04	Center of Excellence: Research in Environmental Health Sciences (PI - M. Gallow. funding - \$1,5 million/year. I am Director of Elemental Analysis Laboratory and funded at about
		\$70,000/yr
NJDEP	1999-2006	Colony Dynamics of Birds (\$10,000/yr)
US DOE	(2000)-2005	Ecological Health center of Excellence. JB on Management Board. My Center of Excellence Funded approximately \$1.2 Million/year for Ecological Health.

## GRANTS WHILE AT RUTGERS UNIVERSITY (cont)

Direct work at 4 Institutions: Rutgers, UMDNJ, U. of Wash., and U. of Georgia.  
(Total funding of \$50 Million for 5 years.)

Wildlife Trust	2002-2005	Using Common Terns as bioindicators (\$40,000)
NJDEP	2003-05	Mercury in Commercial Fish (\$35,000)
NJDEP	2003-5	Landscape Issues and Migrant Hawks (\$72,888)
US DOE	2004-6	Ecological Health of Amchitka Island (\$210,000)
NJ Aud	2006-2008	Birds as indicators of metal exposure (\$38,000/year)
NJ Anglers Assoc.	2005-2007	Mercury in NJ Fish (\$30,000)
US DOE	2006-2011	Ecological Health and Risk (\$400,000-\$600,000/year)

### Seminars and Talks

1975	Linnean Society	Nesting Behavior of Herons
1977	Delaware Bird Club	Aggression in Herons.
1978	Linnean Society	The effect of nesting Herring Gulls on native species.
1979	Summit Nature Club	Foraging behavior of gulls.
1979	Valley Forge Audubon Club	The effects of ditching on birds.
1980	Littoral Society of America (invited symposium)	Gulls, and salt marshes.
1983	Atlantic Audubon	Black Skimmers in New Jersey.



1983	Monmouth Audubon	Biology and Management of Colonial Birds.
1985	Jersey Shore Audubon	New Jersey=s Colonial Waterbirds.
1985	Somerset Nature Club	Black Skimmers in New Jersey.
1985	Valley Forge Audubon	New Jersey=s Endangered Colonial Birds
1985 & 1987	New Jersey=s Beach Nesters Buggy Association.	Northeastern Beach Birds
1989	Monmouth Audubon	Biology of Piping Plover
1995	Barnegat Bay Association	Birds of Barnegat Bay
1995	Isaac Walton League	Birds of Barnegat Bay
1996	Wetlands Institute Kiawanis Club	Avian populations Population Organics in Coastal Birds
1997	Beach Haven Bucks County Library N.J. Historical Commission Somerset Naturalists	Avian populations of Barnegat Bay Barnegat Bay Birds A Naturalist along the Jersey Shore A Naturalist along the Jersey Shore
	Plasma Physics Laboratory	AHeavy metals and avian populations in Barnegat Bay@ (Feb)
	Washington Crossing Audubon	AAvian Populations@ (Feb)
	Somerset Naturatists	AThe Jersey Shore@ (Feb)
	Alliance for Living Oceans	AConservation and Birds@ (March)
	Littoral Society	AThe Jersey Shore@ (April)
1998	New Brunswick Public Library	AWildlife of the New Jersey Shore@ (Feb)
	Audubon Society	ANew Jersey Shore@ (April)

Seminars and Talks (cont)

(2000)	Harvey Cedars talk	A25 Nature Spectacles @ (July)
	Somerset Naturalists	A25 Nature Spectacles @ (June)
2002	Icthyology and Herpetology	AEffects of Coal Ash Exposure on the Development of meeting Green Frog ( <i>Rana clamitans</i> ) larvae@ (summer) Broughton, Jeffroy, Snodgrass, Joel W., Hopkins, William A., Burger, Joanna
2002	The American Public Health Association	Development of a Fish Consumption Advisory: Science and Community Partnership@L. Waishwell and J. Burger. 9-13 November.
2001	Long Island Parrot	Parrots: Research and Conservation
2002	Bird Mart Macaw Club Sparta Parrot Club Conn Parrot Club 13 <sup>th</sup> Canadian Parrot Symposium	Parrot Conservation Macaw Research Parrot Conservation Macaws at a Clay Lick Parrot Conservation in a Changing World
	Environmental & Occupational Health Sciences Institute	APreparing for Biological and Chemical Terrorism: A New Jersey Perspective@ Conference. June 6th.
2003	New York Bioscape Initiative First Annual Meeting June 18, 2003	Common Tern Eggs as Bioindicators of Environmental Contaminants Joanna Burger and Michael Gochfeld
2004	Parrots in the Wild Parrot Aggression	NJ Pet Show (Edison, NJ) LI Pet Club
2005	Aggression in Parrots Scuba Techniques	Linnean Society American Academy of

Used In Risk Assessment Underwater Sciences (AAUS)  
of Possible Nuclear Leakage Symposium Proceedings  
Around Amchitka Island,  
Alaska  
March 2005  
Parrot Aggression Behavior - NJ Parrot Club (May)

2006-7

Parrot Talks  
Birds as Bioindicators

## **CONSULTANT:**

### Government:

US Fish and Wildlife Service - Recovery Team for Roseate Tern  
USEPA: New York - New Jersey Harbor Estuary Scientific and Technical Committee  
N.J. Endangered and Non-game Species Project  
N.J. Coastal Zone Management Office  
N.J. Mosquito Commission  
N.J. Coastal Zone  
Port Authority of NY & NJ  
EPA Ecological Risk Guidelines Reviewer  
Barnegat Bay Technical Comm. for NJDEP  
FAA-Atlantic City Technical Center  
Mid Atlantic Fisheries Council  
EPA (Federal) Advisor on Indicators  
Florida (Mercury in the Everglades Task Force)  
EPA-Fish Consumption and Risk

### Industry:

American Cyanamid  
Johnson & Johnson  
Sperry Group (European Developers)  
Dresdner, Robin Assoc.

## POPULAR ARTICLES

Animal Behavior: An article for Merit Student Encyclopedia.

- Herring Gulls Invade New Jersey. New Jersey Outdoors. March - April 1978. 4 pgs.
- Pampas, Gulls and Gauchos. Explorers Journal, 56:136-139. 1978. 4 pgs.
- Salt Marshes - Havens for Waterbirds. New Jersey Outdoors. July-August 1979. 4 pgs.
- Cattle Egrets: White Robin of the future. New Jersey Outdoors. 8:10-12. 1981.
- Diamondback Terrapins: Behavior and reproductive success. New Jersey Outdoors. 1984. 3pgs.
- Least Terns in New Jersey. New Jersey Outdoors. 1984. 3 pgs.
- Our endangered beach nesting birds. New Jersey Outdoors. May/June 1986. pp 14-16. (with D. Jenkins).
- Birds of a Feather Scrounge Together. Natural History, May-June 1990.
- Terns for the Better. Natural History, May-June 1992: 44-49.
- Population Trends in Three Endangered Beach Nesting Birds. N.J. Audubon, (Summer, 1992).
- Field Ecology in Coastal New Jersey. In Science for High Schools, 1992.
- Shorebirds squeeze. Nature History. May 1993.
- Laughing Gull. In Natural History of Coastal Species, 1995.
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## **UNFINISHED MANUSCRIPTS**

### **SUBMITTED:**

Garber, S.D. and J. Burger. The sexy grandmother hypothesis: age discrepant mate selection may be a turtle inbreeding avoidance mechanism during population bottleneck. *Amphibian and Reptile Cons.*

Garber, S.D. and J. Burger. Winter behavior and ecology of the North American Wood Turtle (*Clemmys insulpta*). *Amphibian and Reptile Cons.*

Snodgrass, J., J. Aho, J. W. Ackerman, and J. Burger. 1998. Effects of L-lake on Stream Fish Assemblages: Role of Local Habitat Alterations. *Can. J. Fisheries and Aquatic Sciences.*

(Effects of a small reservoir on stream fish assemblages: relative role of local habitat alternations and acute and chronic stress. )

Burger, J. and S.N. Handel. Using restoration potential as a component in risk assessment. *Restoration Ecol.*

Fikslin, T. J. and J. Burger. The use of an alternative measure of the NOEL to develop a water quality criterion for chronic toxicity to aquatic life. *Environ. Monit. Assess.*

Palestis, B. G., J. Burger and M. Gochfeld. Thiamine deficiency in laboratory-reared Common Tern chicks: symptoms and treatment. *Colonial Waterbirds*

Burger, J. and M. Gochfeld. Diamondback Terrapin (*Malaclemys terrapin*) affected by oil spill when hibernating. *Environ. Poll.*

Niles, L.J., J. Burger and K.E. Clark. An operational approach to landscape-level protection of biodiversity. *Auk.*

Niles, L.J., J. Burger and K.E. Clark. Behavior and habitat selection of migratory Sharp-skinned Hawks at a Coastal stop over. *Condor.*

Snodgrass, J.W., J. Burger, G.K. Meffe and I. Karr. Landscape issues with the Index of Biotic Integrity. *Ecol. Applic.*

Snodgrass, J.W., J.M. Aho, G.K. Meffe and J. Burger. Comparison of multimetric and multivariate methods in the assessment of stream ecosystem integrity using fish assemblages. In *Review Ecological Applications.*?

UNDER REVISION:

Wagner, L.A. and J. Burger. Equality of parental effort between sexes in Laughing Gulls (*Larus atricilla*). *Condor.*

Burger, J. and M. Gochfeld. Heavy metal analysis of young Australian Magpies in New Zealand roads and comparisons with the literature. *Environ. Pollut.*

FIELD REPORTS IN REFEREED JOURNALS: (Cont)

Gochfeld, M., I. Udasin, E. Favata, G. Buckler and J. Burger. Biological Monitoring of cadmium levels in hazardous waste workers. *Environmental Pollution*.

Burger, J. and M. Gochfeld. Nest site selection in Swallow-tailed Gull *Creagrus furcatus* on Genovesa (= Tower) Island in the Galapagos. *Ibis*.

Burger, J. Sexual differences in metabolic rate of hatchling Pine snakes *Pituophis melanoleucus*. *J. Herp.*

Burger, J., M. Gochfeld and C. Safina. Growth rates in Common and Roseate Terns. *Wilson Bulletin*.

Wander, W. and J. Burger. Temporal distribution by age of shorebird migration through an East Coast Bay.

Slavin, P.T., J.K. Shisler and J. Burger. Observations of the hatch of overwintering eggs of *Aedes cantator* (coquillett) and *Aedes sollicitans* (Walker). *Mosquito News*.

FIELD REPORTS IN REFEREED JOURNALS:

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13:14-17.

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Burger, J. 1980. The starvation period in seabirds. *Proc. Colonial Waterbird Group*, 3:16-26.

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Pospahala, R.S., D.R. Anderson, C.J. Henny. Population Ecology of the Mallard II. *Wilson Bull.*, 88:514-517.

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- 1984: Perrins, C.M. and T.R. Birkhead. Avian Ecology. *Bio. Science*, 34:692-693.
- 1985: Hancock J. and J. Kushlan. The Heron Handbook. *Wilson Bull.*, 97:584-585.
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- 1994: The measurement of environmental and resource values: theory and methods. *Ecology*.
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Committee Work at Rutgers:

- |         |                                 |  |
|---------|---------------------------------|--|
| 1973-74 | Department                      | Secretary<br>Seminar Committee ( <b>Chair</b> )  |
|         | College                         | Council on College Studies<br>Admissions Committee<br>Committee on Student Performance |
| 1974-75 | Department                      | Secretary<br>Budget Committee<br>Research and Development Committee                    |
|         | College                         | Admissions Committee ( <b>Chairperson</b> )  |
|         | Biological Sciences<br>Division | Curriculum Committee<br>Admissions Committee of Ecology Program                        |



Committee Work at Rutgers: (cont.)

	Rutgers University	Marine Sciences Advisory Committee (For Winkler)
1975-76	Department	Secretary Budget Committee Research and Development Committee
	College	Admissions Committee ( <b>Chairperson</b> )
	Biological Sciences Division	Research Committee Admissions Committee of Ecology Program
1976-77	Department	Secretary
	College	Academic Board on Developmental Education
	Biological Sciences Division	Research Committee Admissions Committee of Ecology Program
1977-78	Department	Secretary
	College	Academic Board on Developmental Education
	Biological Sciences Division	Research Committee Admissions Committee of Ecology Program
		Acting Director of Ecology (Spring)
1978-79	Department	Secretary
	College	Academic Board on Developmental Education Appointment and Promotions Committee Budget and Planning
	Biological Sciences	Research Committee

Committee Work at Rutgers: (cont.)

	Division	Admissions Committee of Ecology Program
1979-80	Department	Secretary
	College	Appointments and Promotions
		Budget and Planning
	Biological Sciences Division	Director: Ecology Graduate Program Admissions Committee of Ecology Program Graduate School Executive Council Research Committee
1981-82	Department	Executive Committee Graduate Education Committee
	College	Student Review Committee
	Graduate School	Membership Committee
1982-83	Department	Executive Council
		Graduate Studies Committee
	Graduate School	Executive Committee
	University	Senate AAUP/University Committee on Health and Safety FAS Promotions Committee Press Council (Editorial Board and Finance Committee) Director: Graduate Program in Ecology Toxicology Graduate Program Curriculum Committee
1983-84	Department	Executive Council Graduate Studies Committee

Committee Work at Rutgers: (cont.)

		Associate <b>Chair</b> for Research
	Graduate School	Executive Council
	University	Senate AAUP/University Committee on Health and Safety FAS Promotions Committee  Press Council (Editorial Board and Finance Committee) Director: Graduate Program in Ecology  Toxicology Graduate Program Admissions Committee Task Force on Undergraduate Toxicology
1984-85	Department	Executive Council Graduate Studies Committee
	Graduate School	Executive Council
	University	Senate Press Council (Editorial Board and Finance Committee) Director: Graduate Program in Ecology Toxicology Graduate Program Admissions Committee Task Force on Undergraduate Toxicology Board of Trustees Board of Governor=s Buildings and Grounds Committee Committee on Marine Sciences
1985-86	Department	Executive Council Graduate Studies Committee Ecology Search Committee

Committee Work at Rutgers: (cont.)

	Graduate School	Executive Council
	University	Senate
		Press Council (Editorial Board and Finance Committee)
		Director: Graduate Program in Ecology
		Toxicology Graduate Program Admissions Committee
		Provost Planning Committee for Biological Sciences
		Toxicology External Review Committee
		Marine Sciences Advisory Committee
1986-87	Department	Executive Council
		Graduate Studies Committee
		Ecology Search Committee
	Graduate School	Executive Council
		Committee for TA Evaluation Criteria
		Director: Graduate Program in Ecology
		Toxicology Graduate Program Admission Committee
		<b>(Co-Chair)</b>
		Toxicology Executive Committee
	University	Senate
		Press Council
		Marine Sciences Institute Planning Committee
		<b>Chair:</b> Organization for Tropical Studies Committee
		HMF Director=s Committee
1987-88	Department	Executive Council
		Graduate Studies Committee
	Graduate School	Executive Council
		Committee for TA Evaluation Criteria

Committee Work at Rutgers: (cont.)

		Director: Graduate Program in Ecology Toxicology Graduate Program Admission Committee ( <b>Co-Chair</b> ) Toxicology Executive Committee
	University	Senate Rutgers Press Council Marine Sciences Institute Planning Committee  University Awards Committee <b>Chair:</b> Organization for Tropical Studies Committee HMF Director=s Committee University Animal Care Committee
1988-89	Department	Executive Council Graduate Studies Committee
	Graduate School	Director: Graduate Program in Ecology Toxicology Graduate Program Admission Committee ( <b>Co-Chair</b> )
	University	Marine Sciences Institute Planning Committee University Awards Committee <b>Chair:</b> Organization for Tropical Studies Committee HMF Director=s Committee University Animal Care Committee President=s Committee on Education Civic Leadership
1989-90	Department	Graduate Studies Committee
	Graduate School	Director: Graduate Program in Ecology Toxicology Graduate Program Admissions Committee ( <b>Co-Chair</b> )
	College	FAS - Nominating Committee Douglass - Academic Affairs Committee

Committee Work at Rutgers: (cont.)

	University	<p>University Awards Committee  <b>Chair:</b> Organization for Tropical Studies Committee  HMF Director=s Committee  University animal Care Committee  President=s Committee on Education and Civic Leadership  Ruth Ellen and Edward J. Bloustein Seminar Committee  Search Committee - Livingston College Dean</p>
1990-91	Department	Graduate Studies Committee
	Graduate School	<p>Director: Graduate program in Ecology  <b>Co-Chair</b> of Education Committee of Toxicology:  Directors Executive Committee</p>
	College	<p>FAS - Nominating Committee  Douglass-Academic Affairs Committee  FAS Promotion Committee (Professor)  FAS Budget and Planning Committee</p>
	University	<p>University Awards Committee  <b>Chair:</b> Organization for Tropical Studies Committee  HMF Director=s Committee  University Animal Care Committee  Provost=s Committee on Biological Sciences  Ruth Ellen and Edward J. Bloustein Seminar Committee  Search Committee; Livingston College Dean</p>
1991-92	Department	Graduate Studies Committee
	Graduate School	<p>Director: Graduate Program in Ecology and Evolution  <b>Co-Chair</b> of Education Committee of Toxicology  Graduate Program</p>

Committee Work at Rutgers: (cont.)

		Executive Committee of Toxicology Graduate Program
	College	FAS - Budget and Planning Committee (2 years) Douglass - Academic Affairs Committee Douglas Committee on women in math and science
	University	University Awards Committee <b>Chair:</b> Organization for Tropical Studies Committee HMF Director=s Committee Ruth Ellen and E.J. Bloustein Seminar Committee
1992-93	Graduate School	Director: Graduate Program in Ecology and Evolution <b>Co-Chair</b> of Education Committee of Toxicology  Graduate Program Executive Committee of Toxicology Graduate Program  <b>Chair:</b> Curriculum Committee: Ecology and Evolution
	College	FAS - Budget and Planning Committee (2 years) Douglass - Academic Affairs Committee Douglass Committee on women in math and science
	University	University Awards Committee <b>Chair:</b> Organization for Tropical Studies Committee HMF Director=s Committee Ruth Ellen and E.J. Bloustein Seminar Committee
1993-94	Graduate School	Executive Council: Ecology and Evolution Executive Council: Toxicology <b>Co-Chair:</b> Education Comm. Toxicology
	College	FAS: Budget and Planning Promotions Committee

Committee Work at Rutgers: (cont.)

		Douglass - Committee on Women in Math and Sciences
	University	Environmental Council University Faculty Appeals Board University Awards Committee <b>Chair:</b> Organization for Tropical Studies Committee HMF Director=s Committee Ruth Ellen and E.J. Bloustein Seminar Committee Directors Advisory Council: Environmental and Occupational Health Sciences Institute University Appeals Board Senate
1994-95	Graduate School	Executive Council: Ecology and Evolution Executive Council: Toxicology <b>Co-Chair:</b> Education Comm: Toxicology
	College	FAS: Budget and Planning Promotions Committee
		Douglass - Committee on Women in Math and Sciences Livingston College Executive Council
	University	Engineering and Environmental Sciences Council University Awards Committee <b>Chair:</b> Organization for Tropical Studies Committee  HMF Director=s Committee Ruth Ellen and E.J. Bloustein Seminar Committee Directors Advisory Council: Environmental and Occupational Health Sciences Institute
1995-96	Graduate School	Executive Council: Toxicology Environmental Track Leader: Toxicology
	College	FAS: Promotions Committee



Committee Work at Rutgers: (cont.)

Douglass-Comm on Women in Math and Science  
Livingston College Executive Council

	University	<p>President=s Environmental Studies Committee          University Appeals Board          Engineering and Environmental Sciences Council          University Awards Committee          Organization for Tropical Studies Committee          HMF Director=s Committee          Ruth Ellen and E.J. Bloustein Seminar Committee          Directors Advisory Council: Environmental and Occupational Health Sciences Institute          Internal Animal Review Board</p>
1996-1997	Graduate School	<p>Ecology-Director=s Executive Council  <b>Toxicology track leader</b> for Environmental Toxicology-Director=s Advisory Council</p>
	College	<p>FAS: PII Promotion Committee          Nomination Committee</p>
	University	<p>University Appeals Board          University Awards Comm.          HMF Director=s Comm.          University Library Comm.          University Animal Review Board          Director=s Advisory Comm.: EOHSI</p>
1997-2000	Graduate School	<p>Toxicology - Director=s Advisory Council          Toxicology - Membership Comm.  <b>Toxicology track leader</b> for Environmental Toxicology-Director=s Advisory Council</p>
	College	<p>FAS: PII Promotions Comm.</p>
	University	<p>University Appeals Board</p>

Committee Work at Rutgers: (cont.)

		University Awards Comm. University Library Comm. Director=s Advisory Comm. EOHSI Univ. Annual Review Board Douglas Project for Woman in Science, Math and Engineering Woman in Science Committee ( <b>Chair</b> ) Toxicology - Director=s Advisory Council Toxicology - Membership Comm. <b>Toxicology track leader</b> for Environmental Toxicology-Director=s Advisory Council
2001-2004	Graduate School	
	College	FAS: PII Promotions Comm.
	University	University Appeals Board University Library Comm. Director=s Advisory Comm. EOHSI Univ. Annual Review Board Douglas Project for Woman in Science, Math and Engineering Woman in Science Committee ( <b>Chair</b> )
2006-2008		University Appeals Board FAS: PII Promotions

**GRADUATE STUDENTS**

Degree/Year	Student	Thesis Title and Published Papers
MS 1976	Lynne M. Miller	Expansion Dynamics and Breeding Biology of the Glossy Ibis Paper: Miller & J. Burger, Factors Affecting Nesting Success of The Glossy Ibis. Auk, 95:353-361. Currently: President, Toxic Risk Insurance

Committee Work at Rutgers: (cont.)

- MS 1977 Douglas E. Gladstone Breeding Biology and Behavior of the Great Egret (*Casmerodius albus*). Paper: In Am. Mid. Nat. 1979  
Currently: Toxic Risk Insurance
- MS 1977 Susan St. Clair The effects of Asynchronous Hatching and Behavioral Development on the Success of Snowy Egret (*Leucophoyx thula*) Chicks.  
Paper: St. Clair & J. Burger. Behavioral Determinants of Nesting Success in Snowy Egrets (*Leucophoyx thula*) Am. Midl. Nat. 76-85.  
Finished Ph.D.
- MS 1977 Susan L. Windrow Winter Activity and Behavior of the Exuman Rock Iguana, *cyclura cyclura figgins*.
- MS 1978 Lawrence D. Ward Survival of Herring Gull and Domestic Chicken Embryos in Response to Simulated Flooding.  
Paper: Ward, L. & J. Burger, 1980. Domestic Chicken Embryos after Simulated Flooding.  
Condor.  
Currently: Research, Johnson & Johnson
- MS 1980 Mary Fitch Non-thesis  
Paper: Monogamy, Polygyny, and Female-Female Pairs in Herring Gulls. pg. 44-49. Proceedings 1979 of the Colonial Waterbird Group.  
Currently: Registrar, Univ. of Washington
- MS 1980 Wade Wander Seasonal Distribution of Shorebirds at a Coastal Bay.  
Currently: Wander Environmental Consultants.
- Ph.D. 1981 Thomas Lemke Foraging ecology of the long-nosed bat (*Glossophaga soricina*) with respect to resource availability and plant pollination (4 published papers).

**GRADUATE STUDENTS: (Cont)**

			Currently: Research Biologist, Wyoming Conservation Dept.
MS	1981	Carl Safina	Safina, C. and J. Burger. Effects of human disturbance on nesting Black Skimmers. Condor. 1983:85:164-171. Currently: Director, Blue Water Institute.
MS	1983	Richard Erickson	(non-thesis)
Ph.D.	1983	Pat Slavin	Salt March Ecology (5 papers published.) Director, Cumberland County Mosquito Commission
Ph.D.	1983	Gary Shugart	Aggression and Territoriality of Caspian Terns (7 papers published). Currently: Prof. - University of Oklahoma.
MS	1984	Amy Greene	(Non-thesis) Currently: President of her own Environmental Consultant firm
MS	1984	C. McVeigh Mirande	Female mate choices in Canvasbacks. Currently: Crane Foundation
MS	1984	N. Kotliar	Kotliar, N. and J. Burger. 1986. Colony Site Selection and abandonment by Least Terns ( <i>Sterna antillarum</i> ) in New Jersey. Biological Conservation 37:1-22.  Kotliar, N. and J. Burger. 1984. The use of decoys to attract Least Terns ( <i>Sterna antillarum</i> ) to abandoned colony sites in New Jersey. Colonial Waterbirds. 7:134-138.
MS	1985	J. Ward	Foraging Behavior of Sanderlings. Currently: Research Biologist, NOAA

**GRADUATE STUDENTS: (Cont)**

Ph.D.	1985	K. Parsons	Proximate and ultimate effects of weather on two heron species in Massachusetts. Currently: Biologist at Manomet Observatory
Ph.D.	1985	M. Horoszewski	Changes in lead levels in feathers of Common Terns Currently: Research Biologist, New Jersey DEP
MS	1990	M. Mikovsky	(non-thesis)
MS	1990	S. Reilly	Lead in bones and body tissues of Herring Gulls Currently: Environmental Consulting
MS	1991	K. Staine	Nocturnal Foraging behavior of Piping Plover Currently teaching high school biology
MS	1992	D. Shealer	Behavioral and ecological factors affecting reproductive success in a threatened population of Roseate Terns. Currently: Professor at Colgate University
Ph.D.	1992	B. Boarman	The Evolution of Avian Song: A Study of the impact of sound propagation on animal communication. Currently: Research Biologist, NMFS
MS	1992	L. Wagner	Equitability of parental investment in Laughing Gulls
Ph.D.	1994	J. Brzorad	Foraging models for Herons Currently: Director of Reese Institute for the Conservation of Natural Resources at Lenoir-Rhyne College, Hickory, NC
Ph.D.	1994	S. Garber	Ecology of Wood Turtles Dir Science: PBS TV  Scientist: Port Authority of NY and NJ

**GRADUATE STUDENTS: (Cont)**

MS	1994	J. Hill	Community dynamics in Pine Barrens Snake Communities
Ph.D.	1994	T. Fikslin	Mass balance of heavy metals in the Delaware River Director: Delaware River Comm.
Ph.D.	1995	J. Saliva	Nesting behavior of Sooty Terns. Currently: Working for U.S. Fish and Wildlife Service, Puerto Rico
MS	1995	T. Georgiadis	Plan B. In med school
Ph.D.	1995	D. Shealer	Predation pressures and foraging behavior of Roseate Terns Currently: Professor at Colgate University
MS	1995	H. May	Risk perception and fisherman
Ph.D.	1996	L. Niles	Factors affecting migration of raptors Currently: Director Endangered and Nongame Species Program, NJDEP
MS	1996	C. Silverstein	Effects of heavy metals on behavior Currently: Environmental Consulting
MS	1997	M. Martin	Marine mammals and Heavy Metals
MS	1997	J. Stout	Mercury in Wood Ducks as bioindicators
MS	1999	R. Price	Conservation Strategies in Birds
Ph.D.	1999	N. Tsipoura	Physiology of migrating shorebirds Currently: Research Scientist at NJ Audubon Society
MS	1999	C. Lord	Ecological Risk for Raccoon

**GRADUATE STUDENTS: (Cont)**

			Currently: Ecological Counselor
MS.	1999	S. Meyer	Movement of Migrant Shorebirds on a Landscape scale
MS.	1999	M. Kuklinski	Raccoons and Human Exposure Currently: Ecological Counselor
Ph.D.	(2000)	B. Palestis	Social behavior and individual recognition in Terns Currently: Associate Professor and Chair, Department of Biological Sciences, Wagner College
MS.	(2000)	E. Stiles	Habitat suitability and Neotropical Migrants Currently: Director of NJ Audubon Research
MS.	(2000)	S. Boring	Movement of Raccoons Currently: Resource Management, NC
MS.	2003	S. Murray	Watersnakes as Bioindicators
Ph.D.	2004	S. Elbin	Conservation of endangered birds (NY Zoological Park) Currently: Director of Bioscope Program for Wildlife Trust
MS.	2004	K. Sullivan	Energy Demands of Seabirds (Food efficiency in Alcids) Currently: U.S. Fish and Wildlife Service
Ph.D.	2005	M. Dey	Landscape Issues with Neo Tropical Birds Currently: Biologist NJ DEP

**CURRENT STUDENTS:**

Q. Tarique	Ph.D.	Comparative Effects of Oil on Clams
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**GRADUATE STUDENTS: (Cont)**

K. Schantz	Ms	Behavior of Rattlesnakes
B. Hobbs	phD	Foraging in Herons (Feeding Behavior of Great Blue Herons)
E Stiles	PhD	Landscape Issues with Neotropical Migrants
J. Feinberg	PhD	Conservation and Reintroduction of LeopardFrogs to the Pine Barrons
C. Frank	MS	Behavior of Migrant Raptors

Committees for Toxicology Ph.D. Students:

Janet Gould  
Marie Capdoville  
Sharon Longo  
P. Patyna

**Past POSTDOCS/ INSTRUCTORS:**

C. Safina	1995-9	Conservation of marine resources
J. Sanchez	1996-8	Ecological Services and ecological risk
J. Snodgrass	1996-9	Index of Biotic Integrity in fish communities
J. Hunter	1999- 2002	Food Web Models
T. Punshon	(2000)- 2004	Plant and Animal Interactions with Metals
M. Carletta	2002- 2004	Ecological Constraints of Land Transfer



## **TEACHING ACTIVITIES:**

- 1973-present: Behavioral Biology 119:240. Taught every year, by only myself. Enrollment of 80-106 each time.
- 1994-present: Ecological Risk 215:555. (taught every year)
- 1973-1986 Behavior and Ecology of Animal Populations 215:533. Every year (with C. Leck - we both are present every class period).
- 1973-1984 Evolution (eliminated with reorganization). Taught every year by myself.
- 1986-1995 Behavior and Ecology of Animal Population 215:533. (with C. Leck except when he's on sabbatical, then I teach it alone).
- 1973-1997 Graduate Student Research 215:702/3. Usually have 6-12 students registered for 30-50 credits.
- 1987 Philosophy of Science 215:604. Participate with M. Bunzl of Philosophy Dept.

Almost every year I have one or two undergraduate honors research students. Some of these have published these papers.

## **RESEARCH EXPERIENCE AND INTERESTS**

- 1964 Behavior of Zebra Finches (under W. Dilger)
- 1964-68 Migration and behavior of Bonaparte's Gull
- 1968-72 Behavior and Ecology of Franklin's Gull. This included my thesis (under H.B. Tordoff) and other research with this species including a study of the seasonal changes in salt glands of Franklin's Gull, dispersal and post-fledgling survival of Franklin's Gull, and the effects of a Franklin's Gull colony on the nutrient composition of the marsh.
- 1972 Nest site selection in the black-headed Gull. Ravenglass, England.

- 1972-73 Adaptations of the Brown-hooded Gulls for nesting in marshes. Nest and colony site selection of the Silvery and Rollands Grebe. Both studies were conducted in Argentina. Circadian Activity Patterns of Laughing Gulls, Brigantine, New Jersey.
- 1973-74 Territorial behavior in Laughing Gulls - Texas (2 April - 15 May). Factors affecting the success and hatching of eggs in the diamondback terrapin in coastal sand dunes, Brigantine, New Jersey (1 June - 1 October).
- 1973-75 Nest site selection in mixed species heronries. Data collected in N.Y., N.J., Texas, Mexico and Argentina. I constructed a model which will predict nest locations of individual species in heronries.
- 1975 Nest Competition between Cattle Egrets and Native North American Herons - Brigantine (April - 1 July). Adaptations of Herring Gulls to a Salt Marsh Habitat -  
 Brigantine (April - 1 July). Competition for Roosting sites in Herons - Mexico (1 July - 30 August). Circadian Activity of Parrots - (September - April).
- 1976 Territoriality in Herring Gulls. New Jersey (1 March - 30 July). Role of Visibility  
 in Gulls - New Jersey and New York (1 March - 1 May). Nest and Colony site selection in Common Terns - New Jersey (1 May - 30 May).
- 1977 Territoriality in Herring Gulls - New Jersey (1 March - 30 July). Nest site selection in Herring Gulls - New Jersey (1 April - 30 May).
- 1978 Territoriality in Herring Gulls (1 April - 15 August). Seasonal changes in breeding behavior of 11 Common Tern colonies (1 May - 30 August). Effects of storm tides and rain on nesting behavior of Herring Gulls (15 April - 15 June).  
 Feeding behavior and interactions of Herring and Laughing Gulls (1 September - 1 December). Use of habitat by birds of Jamaica Bay (1 January 1978 - 1 May 1979).

## RESEARCH EXPERIENCE AND INTERESTS: (cont)

- 1979 Synchrony and coloniality in 30 Common Tern colonies in New Jersey. (March - August). Foraging strategies of young Laughing Gulls. Mexico. January, 1979. Foraging strategies of gulls at the Edgeboro dump. September, 1978 - April, 1979. Foraging strategies of Black-necked Stilts in Texas. August, 1979.
- 1980 Maine: Interactions of Herring Gulls and Great Black-backed Gulls. New Jersey: colony stability in Common Terns and Black Skimmers. New York: Effects of human disturbance on nesting Black Skimmers.
- 1981 New Jersey: Aggressive behavior in Common Terns. New York: Gulls as a threat to aircraft.
- 1982 New York: Gulls as a threat to aircraft. Parental behavior of Common Terns.
- 1983 Nest site selection in marsh nesting birds (New Jersey, Puerto Rico and the Philippines).
- 1984 Coloniality in Terns (N.Y., N.J.) Neurobehavioral effects of toxic chemicals on birds Nest site selection in mixed-species colonies of terns (Australia). Nesting behavior of Pine Snakes.
- 1985-87 Neurobehavioral effects of toxic chemicals on gulls. Behavioral development of Pine Snakes, Causative Factors of Endangerment in three species of birds, Behavior and sibling recognition of common tern chicks.
- 1988-95 Behavioral Developments in Pine Snakes  
Ecology of Roseate Terns  
Effects of low level of lead, chromium, and manganese on behavior in gulls  
Cattle Egret foraging behavior in Kenya and Tanzania
- 1995-Present Vigilance in mammals in Kenya, Costa Rica, Zaire, Rwanda, Namibia  
Bioaccumulation of mercury in a Caribbean Estuary  
Pollutants in Birds in the New York Harbor/Barneгат Bay  
Ecology of Roseate Terns  
Effects of low level of lead, chromium, and manganese on behavior in gulls  
Cattle Egret foraging behavior in Kenya and Tanzania  
Pacific Biomonitoring Project for heavy metals

**RESEARCH EXPERIENCE AND INTERESTS: (cont)**

Ecological Risk at Contaminated Sites

Risk to consumers from fish consumption

Population dependencies of colonial birds in NJ using feathers as bioindicators of Contamination

Macaw Behavior in Peru

Effects of people on marching Emperor Penguins in Antarctica

Nesting Behavior of Monk Parakeets in NJ

Metals and Radionuclides in kelp, invertebrates, fish, and birds from the Aleutians of Alaska