

CARL S. HACKER

Curriculum vitae

Present Position and Address:

Associate Professor of Ecology and of Health Law
Management, Policy, and Community Health Division
School of Public Health
The University of Texas Health Science Center at Houston
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1200 Herman Pressler St
Houston, Texas 77030
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Adjunct and Cross-Appointments:

- 1995- Associate Professor of Environmental Sciences
School of Nursing
The University of Texas Health Science Center at Houston
Houston, TX 77030
- 1980-7 Associate Professor of Community Medicine
Medical School
The University of Texas Health Science Center at Houston
Houston, Texas 77030.
- 1972- Adjunct Associate Professor of Statistics
Department of Statistics,
William Marsh Rice University,
(in Department of Mathematical Sciences, 1972-1987)
Houston, Texas 77001.
- 1973- Member of the Faculty and Program in Human Genetics
Graduate School of Biomedical Sciences
The University of Texas Health Science Center at Houston
Houston, Texas 77030.
- 1977 Visiting Associate Professor of Population Biology
Department of Biology
University of Houston
Houston, Texas 77004.

Education:

1959-63 College of William and Mary

	Williamsburg, Virginia B.S. in Biology
1963-65 1967-68	Rice University Houston, Texas Ph.D. in Biology
1965-67	Cornell University Ithaca, New York
1982-87	University of Houston Law Center University of Houston- University Park Houston, Texas Doctor of Jurisprudence

Professional Licenses and Certifications:

Admitted to the Texas Bar
Admitted to the U. S District Court, Southern District of Texas
Attorney-Mediator

Professional Experience:

1971-75	Assistant Professor of Medical Zoology School of Public Health The University of Texas Health Science Center at Houston Houston, Texas 77025.
1969-71	N.I.H. Postdoctoral Research Fellow Department of Biology University of Notre Dame Notre Dame, Indiana.
1968-69	Research Associate in Biology Department of Biology University of Notre Dame Notre Dame, Indiana.

Professional Societies:

American Association for the Advancement of Science
Texas Bar Association
Environmental Law Section
Health Law Section
Mediation Section
Administrative and Public Law Section
Sigma Xi

Awards & Fellowships:

1959-63	State of Virginia Scholarship in Biology
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1962	National Science Foundation Undergraduate Research Participant Virginia Institute of Marine Science, Gloucester Point, VA
1963	Pi Delta Epsilon Honorary Journalism Fraternity
1963-65	Rice University Fellowship in Biology
1965	Distinguished Teaching Citation William Marsh Rice College, Rice University
1965-67	State of New York Fellowship in Parasitology and Ecology Cornell University
1967-68	National Institutes of Health Traineeship in Parasitology University of Notre Dame
1969	Society of Sigma Xi
1969-71	National Institutes of Health Post-doctoral Research Fellowship University of Notre Dame
1987	Dean's Teaching Excellence List - UTHSC - GSBS
1989	Dean's Teaching Excellence List - UTHSC - GSBS
1989	Dean's Teaching Excellence List - UTHSC – SPH
2002	Texas Community Forest Award of Honor (Gov Project) Texas Forest Service
2003	Royal (UK) Institute of Public Health, Fellow

Academic Committees and Administrative Assignments:

*At The University of Texas Health Science Center at Houston
School of Public Health:*

1972-73	Operations Committee (Chair)
1973	Computer Advisory Committee
1974-82	Population Studies Module (Convener)
1974-82	Executive Committee
1975-86	Faculty Recruitment Overview Committee
1978-82	Committee on Colloquium on Community Health
1981-83	Financial Aid Committee (Chair, 1981-82)
1986-88	Committee for Student Affairs
1988-89	Recorder for the Faculty
1988-89	Faculty Policy Committee
1987-	Director, JD/MPH Concurrent Program (with the University of Houston Law Center)
1989-91	Health Services Organization Module (Convener)
1990	Ad hoc Committee on Minority Recruitment (Chair)
1993-8	Management and Policy Sciences Discipline (Convener)
1993-8	Faculty Affairs Committee
1999-2001	Admissions Committee (Chair)

*At the University of Texas Health Science Center at Houston
Graduate School of Biomedical Sciences*

1976-80	Curriculum Committee
1980-83	Membership Committee (Chair, 1981-1983)
1981-83	Executive Committee
1983	Committee on Computing

At The University of Texas Health Science Center

1982	Committee on the Status of Women Subcommittee on Salary, Promotion and Tenure.
1982	Committee on Health Policy
1984	Committee on Computing
1985-92	Animal Welfare Committee Executive Committee 1991-1992
1987-8	Chemical and Biological Safety Committee
1987-8	Intellectual Property Committee
1990-92	Inter-faculty Council
1992	Oversight Committee for Reorganization of the Health Science Center
1993-98	Advisory Board, Health Policy Institute

Teaching Experience:

At the UT HSC School of Public Health

Population Biology
The Principles of Computer Simulation and Modelling
Concepts of Ecology
Vector Ecology and Genetics
Introduction to Population and Environmental Assessment
Environmental Law
Public Health Law
Administrative Law & Policy
Law and the Elderly
Law and AIDS
Law and the Disabled
Introduction to Quantitative Risk Assessment
The Bases of Community Health
Introduction to Management and Policy Sciences
Management Practices and Policies of Sustainable Institutions
Graduate Seminars and Tutorials on:
Law, Ecology, Genetics, Modelling, Statistics, Computer Programming,
and Parasitology

At the UT HSC Medical School

Introduction to Statistics in Medicine

At UT HSC Graduate School of Biomedical Sciences)

Statistical Methods in the Biomedical Sciences

Research Interests:

Urban Ecology
Environmental Law and Policy
Public Health Law & Policy
Environmental Equity
Regulation of Wetlands
Modelling and Computer Simulation of Population Phenomena
Population Biology of the *Culex pipiens* Complex
Xenobiotics and the genetics of natural populations
Vector Ecology and Genetics

Ecological Genetics
Invertebrate Population Biology
The Distribution of Heavy Metals in Bird Populations
Population Biology of Gulls and Terns
Evolution of Parasites
Genetic and Physiological Consequences of Parasitism
Interaction and Integration of Parasites and other Symbionts
with their Hosts at the Population Level of Organization
Geographic Information Systems and Public Health

Research Support:

Mathematical Modelling Approaches to Mosquito Control
Grant GB-33688 from the National Science Foundation
May 1972-April 1974, Principal Investigator.

Application of Remote Sensing to Public Health Ecology
Contract No. NAS 9-12696 with the National Aeronautics and Space Administration
May 1972-October 1973, Associate Investigator.

Computer Simulation in Medical Ecology: Development of a Teaching Program.
Grant from Exxon Education Foundation
October 1973 - September 1975, Principal Investigator.

Construction of an Ecotoxicity Laboratory
Halliburton Education Foundation
1980-1, Principal Investigator.

Support for an Ecotoxicity Laboratory
Halliburton Education Foundation
1982-3, Principal Investigator.

A Genetic Method for Assessing Heavy Metal Contamination in Estuarian Ecosystems.
Robert J. Kleberg, Jr. and Helen C. Kleberg Foundation
1985-6, Principal Investigator.

Environmental Impact Statement for Gulf Coast Strategic Homeport
Subcontract for Aquatic Life Studies, U.S. Navy
1985-1986, Co-Principal Investigator.

AIDS Education and Training Center
Health Resources and Services Administration, U.S. Public Health Service
1988-96 Consultant on Law

Community Health Needs-Assessment. Harris County Hospital District
1994 Consultant on Law

Consultation on Modelling and Watershed Assessment in Texas.
Texas Natural Resource and Conservation Commission
1994-6 Principal Investigator

Advanced Nurse Education Training Grant
Health Resources and Services Administration, U.S. Public Health Service

1995- 2002 Curriculum development for Population & Environmental Assessment

Children with HIV/AIDS: Development of a Relational Data Base in Romania.

World AIDS Foundation, Fogarty International Center. National Institutes of Health 1999-2001.
Consultant on Geographic Information Systems

Assessment of the Ecological Sustainability of an Urban Health Science Center.

University of Texas-Health Science Center Houston --Office of the Executive Vice President for Administration and Finance
1998-2003

Creation of an Urban Ecology Research Park and Arboretum at the University of Texas Health Science Center Houston

Office of the Assistant Vice President for Facilities Development and Planning and the Office of the Executive Vice President for Administration and Finance
1998-2003

Studies on the Economics of a Sustainable Health Science Center. (with D. Lairson). UT Health Science Center Houston. Office of the Executive Vice President for Administration and Finance. 2000 to 2003

Grant for Funding an Urban Forester. Texas Forest Service. October 2000 -September 2001

St Luke's Episcopal Health Charities. Community Health Information Systems Project. Environmental Risk Factors. 2001

Field Experience:

Puerto Rico, September 1971 - Application of Remote Sensing Technology to Schistosome Ecology.

National Space and Aeronautics Administration.

El Salvador, Panama, Guatemala, November 1971, Application of Remote Sensing Technology to Malaria, Arbovirus, Leishmania and Blackfly Ecology.

National Space and Aeronautics Administration.

St. Lucia, B.W.I., December 1972 - Application of Remote Sensing Technology to Schistosome Ecology.

National Aeronautics and Space Administration.

Panama, April 1973 - The Use of Parasites to Evaluate the Effectiveness of Health Programs.

U. S. Agency for International Development

Pakistan, September 1978- Computer Modelling of Malaria and Mosquito Vector populations.

Pakistan Medical Research Center, Lahore, Pakistan.

Mexico, 1987-94 - Computer modelling of malaria and mosquito vector populations.

Centro Nacional de Research de Paludismo, Tapachula, Chiapas, Mexico

National Aeronautics and Space Administration.

Romania, 1999-date Children with HIV/AIDS: Development of a Relational Data Base in Romania.

World AIDS Foundation, Fogarty International Center. National Institutes of Health

Consultantships, Panels, and Advisory Boards:

CONDUIT:

An Educational Consortium for Computing Ideas in Higher Education
Biology Division. 1975.

National Academy of Science
NSF Postdoctoral Research Fellowships
Biological Sciences Review Panel - 1977

U.S. Navy
Workshop on the development of Disease-Risk Prevention Model
Bethesda, MD - October 1979

J. Robb Associates, Inc.
Senior Ecological Consultant
Houston, TX 1980

Houston-Galveston Area Council
Environmental Health Advisor Panel -1979

Electric Power Research Institute
Ecological Modelling Workshop
Palo Alto, California, 1982

Harris County (Texas) Mosquito Control District
Scientific Advisor Board, 1982-
Chairman, 1985-

National Aeronautics and Space Administration
Ames Research Center.
Biospherics Modelling and Disease Prediction
Statistical design and modelling. 1986-

University of Houston Law Center
Health Law Institute Advisory Board 1988-89

Texas Air Control Board
Resource Panel on Health, Environmental Effects, and Technology.
1989

Institute for Corporate Environmental Management
University of Houston College of Business Administration
Program Advisory Board 1992-
Consultant on Sustainable Development 1997-

Foresight Houston Project, Technical Committee on Comparative Risk Analysis for Ecosystems.
1994- 95

Houston Green Coalition
1999-date

Presentations, Symposia, and Abstracts:

Hacker, C.S. 1971. Rapporteur for Session on Specificity of the Host-Relationship. U.S.-Japan Program Workshop on Intra-molluscan Development of Larval Schistosomes. Harvard School of Public Health, April 1971.

Hacker, C.S. 1972. Discussant at the U.S.-Japan Program Workshop on Development of Filariae in Mosquitoes. UCLA School of Public Health, March 1972.

Hacker, C.S. 1973. Population Dynamics of Mosquitoes. Presented at the U.S.-Japan Program Workshop on Factors Affecting the Competence of Diptera as Vectors of Arboviruses and Filariae. University of California at Berkeley, January 1973.

Hacker, C.S. 1974. Heuristic Models for Vector Populations. Presented at SIAM Institute for Mathematics and Society Research Conference on Epidemiology. Alta, Utah, July 1974.

Hacker C.S. 1974. Models, Computers and the Genetics of Mosquito Populations. Presented at a Symposium on the Genetics of Mosquito Populations. Entomological Society of America Annual Meeting Minneapolis, Minnesota, December 1974.

Hacker, C.S. 1974. Heuristic Models of Insect Densities. Presented at a Symposium on the Dynamics of Insect Populations with Reference to Computer Modelling. Entomological Society of American Annual Meeting Minneapolis, Minnesota, December 1974.

Hacker, C.S. 1975. Computer Simulation in Teaching of Ecology and Epidemiology. Presented at the 11th Symposium on Biomathematics and Computer Science Houston, Texas, March 1975.

Hacker, C.S. 1975. ECOEXX, A Computer Program Package for Ecology. Presented at a Symposium on Computers in Biological Teaching. Am. Inst. Biol. Sci. Annual Meeting, Corvallis, Oregon, August 1975.

Hacker, C.S. 1976. Computer Simulation in Biological Education. Five lectures presented at the Second Conference on Educational Computing in Minority Institutions, Atlanta, Georgia, March 9-12, 1976.

Hacker, C.S. 1977. Computer Simulation in Biological Education. Five lectures presented at the Third Conference on Educational Computing in Minority Institutes, New Orleans, La., March 22-27, 1977.

Hacker, C.S. & Thompson, J.R. 1977. Forecast Models for Mosquito Populations. Presented at SIAM Institute for Mathematics and Society Research Conference on Time Series and Ecological Processes. Alta, Utah, June 1977.

Hunt, G., Hacker, C., Pool, G., & Barnett, R. 1982. Computer Mapping and the Control of Mosquito Populations. Presented at Texas Mosquito Control Association Austin, Texas, October 1982.

Hacker, Carl S. 1983. Lecture series on Ecological Modelling. School of Public Health, University of Alabama at Birmingham. March 29-30, 1983.

Hacker, Carl S. & James R. Thompson, 1983. The use of Time Series Techniques to Analyze Ecological Risk. Electric Power Research Institute Workshop on Ecological Risk Assessment. Albuquerque, N.M. April 1983.

Hacker, Carl S. Fall & Spring 1988-9. Lecture series on Statistical Methods in Medicine. Departments of Surgery and Gynecology, The University of Texas M. D. Anderson Cancer Center, Houston, Texas

Hacker, Carl S. May 1989. Remote Sensing and predictive modelling of mosquito populations.

Department of Electrical Engineering, University of Texas at El Paso.

Hacker, Carl S. Fall 1989. Lecture Series on Statistical Methods in Medicine. Department of Urology. The University of Texas M. D. Anderson Cancer Center, Houston, Texas

Hacker, Carl S. May 1990 & June 1991. Toxic Chemicals, Standards, Testing, and Remedies. Environmental Law and Environmental Science for Lawyers. Continuing Legal Education Course sponsored by University of Houston Law Center and the Environmental Liability Law Program in Houston, Texas.

Hacker, Carl S. September 1990. Legal Implications of AIDS. Texas Rural Health Association Sixth Annual Conference, Arlington, Texas.

Hacker, Carl S. April 1992 & 1993. Epidemiology. Environmental Law and Environmental Science for Lawyers. Continuing Legal Education Course sponsored by University of Houston Law Center and the Environmental Liability Law Program and the University of California-Davis School of Law. Houston, TX & San Francisco, CA.

Hacker, C. April 1992. Law and Epidemiology. University of California-Davis, School of Veterinary Medicine.

Hacker, C. April 1992. Acid Rain Program (Moderator). National Clean Air Conference. Houston, TX

Hacker, C. July 1992. Conference on the Standard For Blood-borne Pathogens: What OSHA Requires. The Legal Issues. Southwest Center for Occupational and Environmental Health. The University of Texas Health Science Center, School of Public Health. Houston & Lubbock, TX.

Hacker, C. Spring 1993. Strategic Environmental Planning; Managing Environmental Risks; Environmental Policy and Program Implementation Management. Facilitator for Three programs on Corporate Environmental Management through the University of Houston Center for Executive Development, Institute for Corporate Environmental Management.

Hacker, Carl S. June 1994. Epidemiology. Environmental Law and Environmental Science for Lawyers. Continuing Legal Education Course sponsored by University of Houston Law Center. Houston, TX.

Hacker, C. 1995. Uncertainty Analysis in Ecological Risk Assessment: A Lawyer's View. Pellston Conference on Uncertainty Analysis in Ecological Risk Analysis. Society of Environmental Toxicology and Chemistry, University of Michigan Biological Station, Pellston, MI., Aug 1995.

Hacker, C. and J. R. Watson. 1995. How uncertainty analysis in ecological risk assessment is used in the courtroom. Uncertainty Analysis in Ecological Risk Assessment (Platform Session). Second Society of Environmental Toxicology and Chemistry World Congress. Vancouver, British Columbia. November 1995.

Hacker, Carl S. 1996. Human health risk from Ecological Change. Symposium on Foresight Houston: Houston Environment 1995. Houston Advanced Research Center, Environmental Institute of Houston, & Houston Zoological Gardens, Houston, TX, April 1996.

Hacker, Carl S. 1996. Serving the Community: A look at Public Health --Environmental Health Hazards. National Youth Leadership Forum on Medicine. Houston, TX July 1996.

Hacker, Carl S. 1996. Science and Law: Who decides what risks we accept? Gulf Coast

Chapter, Association of Industrial Hygienist. July 1996

Hacker, Carl S. 1997. The Natural Step — A Framework for Achieving a Sustainable Environment. Workshop for the Texas Natural Resource Conservation Commission. Austin, TX August 1997

Kozinetz, C. and Hacker, C. 1999. Epidemiology and Geographic Information Systems: Methods for Investigating your Community. *Pediatric Research* 45:104A (Abstract) Annual Meeting for Society for Pediatric Research

Hacker, Carl. February 1999. Population as an Environmental Issue. Rice University 7th Annual Environmental Conference. Houston, TX

Hacker, Carl, March 1999. Forecasting mosquito populations using remote sensing technology. Department of Statistics, Rice University, Houston, TX

Hacker, Carl. November 1999. Bugs in Space. Department of Biology, University of Houston-Downtown, Houston, TX

Hacker, Carl S. February 2001. Creation of an Urban Ecology Research Park. Texas Natural Resources Conservation Commission. Partnership for a Livable Texas Conference.

Carl S. Hacker December 2001. A Heuristic for Guiding Environmentally Sustainable Decision Making. University of Arkansas-Little Rock, Program on Public Health

Carl S. Hacker April 2002. Scientific Principles of Sustainable Decision Making. Annual Meeting of the National Association of Educational Buyers. Los Vegas, NV.

Hacker, Carl S. July 2002. Establishing Native Plant Complexes on an Urban University Campus. Gulf Coast Chapter Workshop , Texas Department of Parks and Wildlife, Texas Master Naturalist Program

Hacker, Carl S. October 2002. The Flowering of an Urban University Campus. Invited Presentation to the *Native Plant Society of Texas Annual Meeting*, Houston, Texas.

Hacker, Carl S. August 2003. Greening Houston. Public Forum presented by the Rice Design Alliance

Kozinetz, C. Hacker, C. October 2003. Infection Disease Roundtable. At *Bridges in Life Sciences*, A Workshop for U.S. and Central and Eastern European Scientists, Budapest, Hungary. Sponsored by Fogarty International Center, NCI, NIMH, and NIEHS, of the NIH.

Hacker, Carl S. November 2003. A Heuristic for Organizations and Institutions to Assess and Guide Environmental Decision Making. Organizer, Moderator and Presenter of a Panel presentation on *Organizations, Sustainable Environments, and Public Health: A Heuristic for Creating a Community-Based Initiative* at the 130th Annual Meeting of the American Public Health Association, Philadelphia , PA.

Hacker, C. April 2004. Legal and Regulatory Issues in Public Health. Short course for the Chinese Public Health Training Delegation. Houston, TX

Kozinetz C, Matusa R, Ruta S, Cernescu C, Hacker C, Cazacu A. Alternative to HIV-RNA and CD4 count to monitor HIV disease progression: A prospective cohort study in Romania. **Amer J Epidemiol** 2004;159:S40.

Hacker, C. Vegetating An Urban Roof.
September 2004 Native Plant Society of Texas- Houston Chapter
October 2004 Sierra Club—Houston Texas Chapter
January 2005 Bellaire Nature Center, Bellaire, TX
January 2005 Houston Advanced Research Center: Integrated Solutions for a Sustainable Future
September 2005 Thoreau Unitarian Church, Stafford, Texas
December 2005 Bellaire Rotary Club
May 2006 Master Gardeners-- Harris County Precinct 3
August 06 Emerson Unitarian Church, Houston, Texas
September 2006 Baker Policy Institute, Rice University, Houston. Texas

Hacker, C. February 2006 Thinking Like an Ecosystem

Hacker, C. Sept. 2005. *A Conversation with Mr. James Madison*. Wrote, produced, directed, and starred in a production that fulfilled the UTHSC-H's federally mandated requirement to provide a program on the U.S. Constitution Day

Publications:

A. Population Biology of Vector-borne Diseases

Population Dynamics

Hausermann, W., R.W. Fay, and C.S. Hacker. 1971. Dispersal of Genetically-Marked *Aedes aegypti* in Meridian, Mississippi. *Mosquito News* 31:38-51.

Hacker, Carl S. 1972. Measuring Reproductive Potentials in Populations. *Mosquito News* 32:193-196.

Crovello, T., and C.S. Hacker. 1972. Evolutionary Strategies of Life Table Characteristics among Feral and Urban Strains of *Aedes aegypti*. *Evolution* 26:185-196.

Hacker, Carl S., D. Scott, and James R. Thompson. 1973. Time Series Analysis of Mosquito Population Data. *J. Med. Ent.* 10(6):533-543.

Hacker, Carl S., D.W. Scott, and James R. Thompson. 1973. A Forecasting Model for Mosquito Population Densities. *J. Med. Ent.* 10(6):544-551.

Hacker, Carl S., and W.K. Kilama. 1974. The Relationship between *Plasmodium gallinaceum* parasitemia and the fecundity of *Aedes aegypti*. *J. Inv. Path.* 23:101-105.

Walter, N.M. and C.S. Hacker. 1974. Variation in life table characteristics among three geographic strains of *Culex pipiens quinquefasciatus*. *J. Med. Ent.* 11:541-50.

Lansdowne, C. and C.S. Hacker. 1975. The effect of fluctuating temperatures and humidity on the adult life table characteristics of five strains of *Aedes aegypti*. *J. Med. Ent.* 11:723-733.

de Figueirdo, R.J.D, C.S. Hacker, and J.R. Thompson. 1975. A system approach to mosquito control. *J. Env. Management* 3:63-76.

Hacker, C.S., D.W. Scott, and J.R. Thompson. 1975. A transfer function forecasting model for mosquito populations. *Can. Ent.* 107:243-249.

Hacker, Carl S. 1971. The Differential Effect of *Plasmodium gallinaceum* on the Fecundity of Several Strains of *Aedes aegypti*. *J. Invert. Path.* 18:373-377.

Hacker, C.S., W-W., Ling, B., Hsi, and T. Crovello, 1977. An application of Mathematical Modelling to the Study of Reproductive Strategies in the Yellow Fever Mosquito, *Aedes aegypti*. *J. Med. Ent.* 13:485-492.

Hunt, G.J., and C.S. Hacker. 1984. Computer-generated maps as an aid to mosquito control (Diptera: Culicidae). *J. Med. Ent.* 21:21:489-500.

Wood, B., Washino, R. Beck, L., Hibbard, K., Pitcairn, M., Roberts, D., Rejmankova, E., Paris, J., Hacker, C., Salute, J., Sebesta, P., and Legters, L. 1991. Distinguishing high and low anopheline-producing rice fields using remote sensing and GIS technologies. *Preventative Veterinary Medicine* 11:277-288.

Hacker, C., and D. Roberts. 1994. Public Health Applications of Satellite Remote Sensing. *SistemaTerra* 3(1): 34-36

Beck, L. Rodriguez, M. Dister, S., Rodriguez, A. Rejmankova, E. Uljoa, A. Meza, Roberts, D. Paris, J. Spanner, M. Washino, R. Hacker, C., Legters, L. 1994. Remote sensing as a landscape epidemiological tool to identify villages at high risk for malaria transmission. *Am. J. Trop Med & Hyg.* 51(3): 271-280.

Rios J, Hacker CS, Hailey CA, Parsons RE. 2006 Demographic and spatial analysis of West Nile virus and St. Louis encephalitis in Houston, Texas. *J Am Mosq Control Assoc.* 22(2):254-63.

Population genetics

Cheng, M.-L., and C.S. Hacker. 1976. Inheritance of 6-phosphogluconate dehydrogenase variants in *Culex pipiens quinquefasciatus*. *J. Hered.* 67:215-219.

Cheng, M.L., T. Yamauchi, and C.S. Hacker, 1977. Genetic Polymorphisms of Isocitrate Dehydrogenase in the *Culex pipiens* Complex. *Biochem. Genetics* 15(9/10):903-907.

Cheng, Min-Lee, and C.S. Hacker, 1979. The Genetics of Hexokinase in a Mosquito, *Culex pipiens*. *Genetics* 92:903-913.

Pryor, S.C., M.L. Cheng, R.F. Ferrell, and C.S. Hacker, 1980. Biochemical Genetics of the *Culex pipiens* complex. I. 6-Phosphogluconate Dehydrogenase. *Comp. Biochem. Physiol.* 65B:663-668.

Pryor, S.C., M.L. Cheng, R.F. Ferrell, and C.S. Hacker, 1980. Biochemical genetics of the *Culex pipiens* complex. II. Hexokinase. *Comp. Biochem. Physiol.* 67B:705-710.

Cheng, M.L., C.S. Hacker, S.C. Pryor, R.E. Ferrell, and G.B. Kitto. 1982. The ecological genetics of the *Culex pipiens complex* in North America. In *Recent Developments in the Genetics of Insect Disease Vectors*, Stipes Publishing Co., Champaign, Il. pp. 581-627.

Harrington, M.A., C.S. Hacker, M.L. Cheng, and R. Ferrell. 1984. Genetic variation in an urban population of *Aedes aegypti* (Diptera: Culicidae). *J. Med. Ent.* 21:706-710.

B. Environmental studies

1. Pollutants

Munoz, R.V., C.S. Hacker, and T.F. Gesell. 1976. Environmentally acquired lead in the laughing gull, *Larus atricilla*. *J. Wild. Dis.* 12:139-142.

Cech, I., R. Weisberg, C. Hacker and R. Lane. 1976. Relative contribution of land uses to urban heat in the coastal subtropics. *Intern. J. of Biometeor.* 20:9-18.

Hulse, M., J.S. Mahoney, G.D. Schroder, C.S. Hacker, and S.M. Pier. 1980. Environmentally Acquired Lead, Cadmium and Manganese in the Cattle Egret, *Bubulcus ibis*, and the Laughing Gull, *Larus atricilla*. *Archives of Environ. Contamin. and Toxicology* 9(1):65-77.

Cheney, M.A., C.S. Hacker, and G. Schroder, 1981. Bioaccumulation of Lead and Cadmium in the Louisiana Heron and Cattle Egret. *Ecotoxicology and Environmental Safety* 5:211-224.

Maedgen, J., C.S. Hacker, G. Schroder, and F. Weir, 1982. Bioaccumulation of Lead and Cadmium in the Royal Tern and Sandwich Tern. *Archives of Env. Cont. and Toxicol.* 11:99-102.

Reid, M. and C.S. Hacker, 1982. Spatial and temporal variation in lead and cadmium in the laughing gull, *Larus atricilla*. *Marine Pollution Bulletin* 13:387-389.

Pool, George and C.S. Hacker, 1982. Geographic and seasonal distribution of rabies in skunks, foxes and bats in Texas. *Journal of Wildlife Diseases* 18:405-418.

Stahl, C.H., L.G. Sultatos, C.S. Hacker, and S.D. Murphy. 1984. Mixed-function oxidase studies in the Redfish, *Sciaenops ocellata* from Galveston Bay, Texas. *CompBiochemPhysiol* 79C:177-182.

Howard, C. L., and C. S. Hacker. 1990. Effects of salinity, temperature, and cadmium stress on cadmium binding protein in the grass shrimp, *Palaemonetes pugio*. *Archives of Env. Cont. and Toxicol.* 19(3):341-347.

2. Environmental Sustainability

Mathur, Sondip K., Carl S. Hacker, and Aday, Lu Ann. 2005. *Sustainable Development* in: Aday, Lu Ann, editor. *Reinventing Public Health: Policies and Practices for a Healthy Nation*. Pp-65-105. Jossey-Bass

C. Law and policy

Hacker, C., and J. Watson. 1994. *AIDS Law for Nurses*. in Grimes, D. & Grimes, R. *HIV/AIDS*, Mosby, St. Louis

Hacker, C. S., J. R. Watson, and R. M. Grimes. 1995. Following the Patient's Wishes: Living Wills and Durable Powers of Attorney. *AIDS Patient Care* (Dec 95) 293-296.

Rosenau, P. V., R. D. Jones, J. R. Watson, and C. S. Hacker. 1995. Anticipating the impact of

NAFTA on health and health policy. *Canadian-American Public Policy* 21:1-51.

Hacker, C., 1998. Uncertainty analysis in Ecological Risk Assessment: A Lawyer's View. Published in: *Uncertainty Analysis in Ecological Risk Analysis*. Warren-Smith, W. and D. Moore. Society of Environmental Toxicology and Chemistry Pellston Conference. SETAC Press 160-168

Quill, B. E., L.A. Aday, C. S. Hacker, J. K. Reagan. 1999. Policy Incongruence and Public Health Professionals' Dissonance: The Case of Immigrants and Welfare Policy. *Journal of Immigrant Health* 1(1):9-18

Barrie, Martin, Carl Hacker. 2003. Conflicts of Policy Sciences in the U. S. Environmental Protection Agency Regulatory Process: The Revised National Ambient Air Quality Standards (NAASQS) for Particulate Matter and Ozone – A Framework for Change. Under review for publication in: *Policy Sciences*.

D. Pediatric AIDS

Kozinetz CA, Matusa R, Ruta S, Hacker CS, Cernescu C, Cazacu A. 2005 Alternatives to HIV-RNA and CD4 count to monitor HIV disease progression: A prospective cohort study in Romania. *J Med Virol* 77:159-163.

Kozinetz CA, Matusa R, Hacker CS. 2006. Biologic and social determinants of sequelae and long-term survival of pediatric HIV in Romania. *Annals Epidemiol.* 16:593-599.

E. This and that

Hacker, Carl S. 1968. Physiological Studies on the Host-Parasite System: *Biomphalaria glabrata* - *Schistosoma mansoni*. Ph.D. Dissertation, Rice University.

Hacker, Carl S. 1987. Medical Statistics at the Medical School of the University of Texas Health Science Center at Houston. *American Statistician* 41:266-7.

Books:

Hacker, Carl S. 1979. ECOEXX I: A computer package for studying ecological principles. Vol. 1 Estimation of Population Size and Distribution. Conduit: Iowa City, Iowa.

Hacker, Carl S. 1980. ECOEXX II: A Computer package for studying ecological principles. Vol. II. The Dynamics of Populations, Conduit: Iowa City, Iowa.

Proceeding and Reports:

Anon. 1972. Public Health Applications of Remote Sensing of the Environment. (An Evaluation). NASA Manned Spacecraft Center (Houston, TX)

Anon. 1973. Public Health Applications of Remote Sensing of the Environment. (Schistosomes and Mosquito-borne Diseases). NASA Johnson Space Center (Houston, TX)

Hacker, Carl S. 1975. The Dynamics of Mosquito Populations. From Proceedings of a SIMS Conference on Epidemiology. Society for Industrial and Applied Mathematics, pp. 28-37.

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Hacker, Carl S. 1984. The Use of Time Series Techniques to Analyze Ecological Risk. Electric Power Research Institute Publication. Palo Alto, California.

Hacker, Carl S. and Julie R. Watson. 1994. Statutory Law affecting the delivery of health care to underserved populations. Community Health Needs Assessment: Houston-Galveston-Brazoria Consolidated Metropolitan Statistical Area. University of Texas HSC, School of Public Health. Houston, TX

Lorimor, R. And C. Hacker. 1995. Environmental Equity: A Manual of Procedures. Manual prepared for Browning-Ferris Industries, Houston, Texas

Community Activities:

Brazos Bend State Park
Volunteer naturalist 1989-91

George Ranch Historical Park, Fort Bend Museum Association
Interpreter, 1990-2002
Volunteer Coordinator, 1993-99
Texian Market Days- Stockfarm program coordinator 1994-2002

San Jacinto State Historical Park
San Jacinto Battle Reenactment- Civilian Coordinator 1995-99
-Battle and Narration Coordination 1997-

Pro bono attorney, Houston (Texas) Volunteer Lawyers Program 1989

Volunteer Amateur Radio Operator (KB5LDY), M. D. Anderson Cancer Hospital 1989-93

Seabrook Sailing Club
Board of Governors, 1984-1995
Regatta Chair, 1984-
Commodore, 1991-1993

Houston-Tenneco Marathon- Communications Chair 1992-96
Houston -Methodist Health Care Systems Marathon- Communications Chair 1996-2000
Houston-Compaq Marathon - Communications Chair 2000-2002
H-P Houston Marathon –Communications Chair 2002-

ECHO Society (Amateur Radio)- President, 1992-3

Brazos Valley Amateur Radio Club- Parliamentarian, 1992-1996

Gulf Coast Ham Convention

Board of Directors- 1995-2004

President- 1996-8