

HOWARD MATTHEW KIPEN**OFFICE ADDRESS AND CURRENT POSITION:**

Interim Chair and Professor, Department of Environmental and Occupational Medicine
Chief, Clinical Research and Occupational Medicine Division
Acting Associate Director, Environmental and Occupational Health Sciences Institute (EOHSI)
Robert Wood Johnson Medical School (RWJMS)
University of Medicine and Dentistry of New Jersey (UMDNJ)

MAILING ADDRESS: Environmental and Occupational Health Sciences Institute
170 Frelinghuysen Road
Piscataway, NJ 08854
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CITIZENSHIP: United States of America

EDUCATION:

B.A.	University of California, Berkeley	1976
M.D.	University of California, San Francisco	1979
MPH	Columbia University, New York	1983

PROFESSIONAL TRAINING:

Intern, Medical Service, Presbyterian Hospital, New York	1979-1980
Junior and Senior Assistant Resident, Medical Service, Presbyterian Hospital, New York	1980-1982
Resident, Occupational and Community Medicine, Environmental Sciences Laboratory, Mount Sinai Medical Center, New York	1983-1984

ACADEMIC APPOINTMENTS:

Visiting Clinical Fellow, College of Physicians and Surgeons, Columbia University, New York	1979-1982
Assistant in Medicine, College of Physicians and Surgeons, Columbia University, New York	1982-1983
Assistant Professor, Department of Environmental and Occupational Medicine, UMDNJ-Robert Wood Johnson Medical School	1984-1991
Track Director, Occupational and Environmental Health, Graduate Program in Public Health, UMDNJ-Robert Wood Johnson Medical School/ Rutgers University	1985-1992
Assistant Professor (joint), Department of Medicine, UMDNJ- Robert Wood Johnson Medical School	1985-1991
Member, Environmental and Occupational Health Sciences Institute, UMDNJ-Robert Wood Johnson Medical School/Rutgers University	1987-
Member, Joint Graduate Program in Toxicology, Rutgers University/ UMDNJ-Robert Wood Johnson Medical School	1988-
Associate Member, Graduate Program in Environmental Science, Rutgers, The State University of New Jersey	1989-
Associate Member, Graduate Faculty, Rutgers, The State University of New Jersey	1985-
Associate Professor, Department of Environmental and Occupational Medicine, UMDNJ-Robert Wood Johnson Medical School	1991-1999
Associate Professor (joint), Department of Medicine, UMDNJ- Robert Wood Johnson Medical School	1991-
Chief, Clinical Research and Occupational Medicine Division, Department of Environmental and Occupational Medicine, UMDNJ-Robert Wood Johnson Medical School	1994-
Director, Clinical Research and Occupational Medicine Division, Environmental and Occupational Health Sciences Institute	1994-
Associate Professor (joint), Department of Family Medicine, UMDNJ- Robert Wood Johnson Medical School	1995-
Member, The Cancer Institute of New Jersey, UMDNJ-Robert Wood Johnson Medical School	1998-
Professor, Department of Environmental and Occupational Medicine, UMDNJ-Robert Wood Johnson Medical School	1999-

ACADEMIC APPOINTMENTS: (cont'd)

Vice Chair, Department of Environmental and Occupational Medicine,
UMDNJ-Robert Wood Johnson Medical School 2000-2001

Professor, UMDNJ-School of Public Health 2001-

Acting Chair, Department of Environmental and Occupational Medicine,
UMDNJ-Robert Wood Johnson Medical School 2001-2003

Acting Deputy Director, Environmental and Occupational Health
Sciences Institute 2001-2003

Research Consultant, Department of Veterans New Jersey Health Care
System 2002-2003

Founder & Co-Director (with D. Wartenberg), Integrated Health Sciences
Facility Core, NIEHS Center for Environmental Exposures & Disease 2007-

Interim Chair, Department of Environmental and Occupational Medicine,
UMDNJ-Robert Wood Johnson Medical School 2007-

Acting Associate Director, Environmental and Occupational Health
Sciences Institute 2007-

HOSPITAL APPOINTMENTS:

Assistant Physician, Department of Medicine (Employee Health
Service), Presbyterian Hospital, New York 1982-1983

Attending Clinic Physician, Family Practice Center, UMDNJ-
Robert Wood Johnson Medical School 1985

Attending Physician, Department of Medicine, Robert Wood
Johnson University Hospital, New Brunswick, New Jersey 1985-

Attending Physician, Eric B. Chandler Health Center, UMDNJ-
Robert Wood Johnson Medical School, New Brunswick, New Jersey 1988-1990

Director, Clinical Center, Environmental and Occupational
Health Sciences Institute, Piscataway, New Jersey 1989-

Attending Physician, VA New Jersey Healthcare System, East Orange, NJ 2003-2005

CERTIFICATION:

Diplomate, National Board of Medical Examiners	1980
Diplomate, American Board of Internal Medicine	1982

CERTIFICATION: (cont'd)

Diplomate, American Board of Preventive Medicine (Occupational)	1986
"B reader," National Institute for Occupational Safety and Health,	1987
Recertified	1991,1995,1999, 2003,2007

PROFESSIONAL SOCIETIES:

Member, American College of Physicians
Member, American Public Health Association
Fellow, American College of Occupational & Environmental Medicine (ACOEM)
Program Chairman, Occupational & Environmental Medicine Association of New Jersey (OEMANJ), 1991
Vice Chair, Environmental Medicine Committee, ACOEM
Secretary, OEMANJ, 1992
President, OEMANJ, 1994
Fellow, American College of Preventive Medicine
Charter Member, International Society for Environmental Epidemiology
Member, New Jersey Medical Society
Fellow, American College of Chest Physicians
Member, American Thoracic Society
Member, New Jersey Thoracic Society - Member, Research Grant Committee, 1988-1994
Fellow, New Jersey Academy of Medicine

HONORS AND AWARDS:

California Heart Association Student Research Fellowship, Institute of Environmental Stress, UC Santa Barbara	1974
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HONORS AND AWARDS: (cont'd)

Phi Beta Kappa	1974
Research Training Fellowship, Department of Physiology, UCSF	1976
Alpha Omega Alpha	1978
Teaching and Service Incentive Award, UMDNJ-Robert Wood Johnson Medical School	1989
Environmental and Occupational Medicine Academic Award, National Institute of Environmental Health Sciences	1992-1997
Adolph G. Kammer Merit in Authorship Award, American College of Occupational and Environmental Medicine	1992
Sixth Annual Alice Hamilton Lecturer, Department of Medicine, University of California, San Francisco	1998
Top Doctors in New Jersey, Occupational Medicine	2003
Top Doctors in America	2009-2010

EDITORIAL POSITIONS:

Assistant Editor, American Journal of Industrial Medicine	1984
Associate Editor, American Journal of Industrial Medicine	1985-
Reviewer, Annals of Occupational Hygiene	
Reviewer, Epidemiology	
Reviewer, American Journal of Epidemiology	
Reviewer, Environmental Health Perspectives	
Reviewer, American Journal of Public Health	
Reviewer, European Respiratory Journal	
Reviewer, American Journal of Physiology, Lung Cellular & Molecular Physiology	
Reviewer, Inhalation Toxicology	

SERVICE ON INTERNATIONAL AND NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS AND COMMITTEES:

Member, Peer Review Panel, CDC Project on Adverse Reproductive Outcomes in New Jersey	1989-1993
Ad Hoc Reviewer, Environmental Sciences Review Committee, NIEHS	1989, 1993
Ad Hoc Reviewer, Toxicology Study Section, NIH	1989, 1990

**SERVICE ON INTERNATIONAL AND NATIONAL GRANT REVIEW PANELS,
AND STUDY SECTIONS, COMMITTEES: (cont'd)**

Chairman, Case Evaluation Group, Workshop to Develop Research Protocols for Multiple Chemical Hypersensitivity Syndrome. National Research Council. Irvine, California, March 20-21,	1991
Ad Hoc Peer Reviewer, Agency for Toxic Substances and Disease Registry	1991-
Accreditation Site Visitor, Council on Education for Public Health	1991
Member, Peer Review Panel for Case Studies in Environmental Medicine, ATSDR	1991-1993
Chairman, Workshop to Assist in Developing a Standardized Immune Test Battery for Use in Environmental Health Studies. ATSDR, Atlanta, GA. June 22-23,	1992
Member, Environmental and Occupational Medicine Academic Award Review Committee, NIEHS	1992, 1993, 1995, 1996
National Board of Directors, Association of Occupational and Environmental Clinics	1992-1995
Member, Environmental Medicine Committee, American College of Occupational and Environmental Medicine	1992-
Member, Expert Panel on Multiple Chemical Sensitivities. ATSDR, Annapolis, MD. April 13-14,	1993
Member, Committee on Curriculum Development in Environmental Medicine. Institute of Medicine, Washington, DC.	1993-1995
Chairperson, Special Review Committee for Environmental/Occupational Medicine Academic Awards. NIEHS, Research Triangle Park, NC. November 16,	1994
Member, Panel on Evaluating Individuals Reporting Sensitivities to Multiple Chemicals. CA Department of Health Services, Berkeley, CA.	1994-1995
Member, Oversight Subcommittee on "A National Health Survey of Persian Gulf War Veterans." Department of Veterans Affairs, Washington, DC.	1994-1996
Member, Persian Gulf Expert Scientific Committee. Department of Veterans Affairs, Washington, DC.	1993-1997

**SERVICE ON INTERNATIONAL AND NATIONAL GRANT REVIEW PANELS,
AND STUDY SECTIONS, COMMITTEES: (cont'd)**

Member, Committee on the DoD Persian Gulf Syndrome Comprehensive Clinical Evaluation Program. Institute of Medicine, Washington, DC.	1995-1997
Member, Scientific Advisory Committee to Oversee Research on Chemically Related Illness. Department of Labor and Industries, State of Washington.	1995-
Member, Steering Committee for the International Congress on Hazardous Waste: Impact on Human and Ecological Health. Agency for Toxic Substances and Disease Registry, Atlanta, GA. June 5-8,	1995
Chair, Committee on Increasing Health Professionals' Use of Toxicology and Environmental Health Databases. Institute of Medicine, Washington, DC.	1995-1997
Participant, National Center for Environmental Health Planning for Performance. Centers for Disease Control and Prevention, Atlanta, GA. February 13	1996
Chair, Workshop on Multiple Chemical Sensitivities (MCS). World Health Organization International Program on Chemical Safety, Berlin, Germany. February 21-23,	1996
Co-chair, Planning Meeting on Personnel Needs and Scope of Practice Issues for Medical Toxicology. Institute of Medicine, Washington, DC. April 24-25,	1996
Report Reviewer, National Research Council, Board on Environmental Studies and Toxicology	1996
Member, Special Emphasis Panel to Review Grant Applications for Community-based Prevention/Intervention/Research in Environmental Health Sciences. NIEHS, Research Triangle Park, NC. April 1-2,	1997
Chair, Postgraduate Course in Occupational and Environmental Medicine. Indoor Air: Symptoms, Evaluation, Diseases, and Management. American Lung Association/American Thoracic Society. San Francisco, CA. May 16-21	1997
Chairperson, Special Review Committee for Environmental/Occupational Medicine Academic Awards. NIEHS, Research Triangle Park, NC. November 12,	1997
Member, Gulf War Expert Scientific Advisory Committee. Department of Veterans' Affairs, Washington, DC.	1997-1998
Chair, Committee on Toxicology and Environmental Health Information Resources for Health Professionals, Institute of Medicine. Washington, DC.	1998-1999

SERVICE ON INTERNATIONAL AND NATIONAL GRANT REVIEW PANELS, AND STUDY SECTIONS, COMMITTEES: (cont'd)

Chair, Committee on Internet Access to the National Library of Medicine's Toxicology and Environmental Health Databases. Institute of Medicine. Washington, DC.	1998-1999
Group Chair, Susceptible Subpopulations Panel Committee, George Washington University, Washington, DC, April 19-20	1999
Panel Member on "Susceptibility in Microbial Risk Assessment," The George Washington University, Washington, DC.	1999-2003
Member, International Advisory Committee, International Congress on Environmental Health, International Society of Environmental Medicine, Hanover Medical School, Germany, Oct. 1-4,	2000
Organizer and Conference Chair, Environmental Factors in Medically Unexplained Physical Symptoms and Related Syndromes, EOHSI, Piscataway, NJ	2001
Member, The National Academies of Science, Subcommittee on Emergency and Continuous Exposure Guidance Levels for Selected Submarine Contaminants (Primary author on CO ₂ and Benzene chapters)	2003 - 2007
Reviewer, "Validation and evaluation of biomarkers in workers exposed to benzene in China," Health Effects Institute, Boston, MA.	2003
Reviewer, "Characterizing Exposure of Veterans to Agent Orange and Other Herbicides Used in Vietnam: Final Report," Institute of Medicine, Washington, DC.	2003
Chair, Environmental Medicine Committee, American College of Occupational and Environmental Medicine	2003
Member, Clinicians' Panel on Management of Mold-Exposed Individuals, John Hopkins Bloomberg School of Public Health Association of Occupational and Environmental Clinics/Society of Occupational and Environmental Health, December 11-12, 2003	2003
Member, AdHoc Review Panel, Epidemiological and Medical Monitoring of Former DOD Contract Workers at the Iowa Army Ammunition Plant, American Institute of Biological Science, Sterling, VA, January 15, 2004	2004
AdHoc Reviewer, NIH Predoctoral Fellowship Awards for Minority, Disabled Students, Center for Scientific Review, March 16, 2004	2004

SERVICE ON INTERNATIONAL AND NATIONAL GRANT REVIEW PANELS, AND STUDY SECTIONS, COMMITTEES: (cont'd)

Invited Participant, 2 nd Jack Pepys Occupational Asthma Workshop, Toronto, Canada, May 21-22, 2004	2004
Invited Participant, NIEHS/SOEH Mold-Related Health Effects: Clinical Remediation Worker Protection and Biomedical Research Issues, Washington, DC, June 28-29, 2004	2004
Group Leader, Indoor Chemistry and Health Workshop, UC Santa Cruz, NIOSH July 12-15, 2004	2004
AdHoc Reviewer, NIH Predoctoral Fellowship Awards for Minority, Disabled Students, Center for Scientific Review, July 22, 2004	2004
Reviewer, “Veterans and Agent Orange: Update 2004,” Institute of Medicine of the National Academies	2004
NIOSH Review Panel Member, “Disease, Disability and Injury Prevention and Control and Special Emphasis Panel”, State-based Occupational Safety and Health Surveillance, November 30 – December 3, 2004	2004
Chairman, NIEHS K23 Mentored Patient-Oriented Research Career Development Award Review Committee	2004, 2006
Reviewer, Institute of Medicine, Gulf War and Health: Review of the Medical Literature Relative to Gulf War Veterans Health	2006
Peer Reviewer, American Institute of Biological Sciences/United States Army Medical Research Material Command, Gulf War Veteran’s Illness Research Program, March 13-14, 2007	2007
Member, National Institute of Health, National Institute of Environmental Health Sciences, Special Emphasis Panel, Patient-Oriented Career Development Award (K23), April 12, 2007	2007
Session Chair, “Diesel Update” at American Thoracic Society Annual Meeting, San Francisco, CA, May 22, 2007	2007
Chairperson, Clinical Trials Award Committee, Gulf War Illness Research Program, Department of Defense, Congressionally Directed Medical Research Programs, Reston, VA. December 3-5, 2008	2008
Chair, NASA Human Research Program’s Advanced Environmental Health/Advanced Food Technology Standing Review Panel	2009-

SERVICE ON INTERNATIONAL AND NATIONAL GRANT REVIEW PANELS, AND STUDY SECTIONS, COMMITTEES: (cont'd)

Member, External Advisory Panel, Center for Environmental
Medicine and Lung Biology, University of North Carolina,
September 8-10, 2009 2009

SERVICE ON STATE OF NEW JERSEY COMMITTEES AND REVIEW PANELS:

Member, Committee on Health Effects of the PJP Landfill.
New Jersey State Department of Health 1986-1987

Chairman, Pesticide Review Committee, Bureau of Pesticide Control,
Division of Environmental Quality, New Jersey Department of
Environmental Protection 1986-1989

Governor's Appointee, Public Employees' Occupational Health and Safety
Review Board, New Jersey Department of Labor 1986-present

Member, Advisory Panel on Occupational Disease Surveillance,
Occupational Health Service, New Jersey Department of Health 1988-

Member, Advisory Panel, Teratology Information Program,
Division of Special Child Health Services, New Jersey Department of Health 1989

Member, Task Force on Cancer Clusters in New Jersey, New Jersey
Department of Health and Senior Services 2003-2004

SERVICE ON UNIVERSITY OF MEDICINE & DENTISTRY OF NEW JERSEY COMMITTEES:

University Internal Review Committee, UMDNJ 1997

Task Force on Education/Curriculum, UMDNJ 1997

SERVICE ON ROBERT WOOD JOHNSON MEDICAL SCHOOL COMMITTEES:

Curriculum Committee, Department of Environmental and Occupational
Medicine, UMDNJ-Robert Wood Johnson Medical School 1984

Grant Review Committee, UMDNJ-Robert Wood Johnson Medical School 1988-1994

Committee on Clinical Prevention, UMDNJ-Robert Wood Johnson
Medical School 1988-

Postdoctoral Curriculum Committee, UMDNJ-Robert Wood Johnson
Medical School 1991-1993

**SERVICE ON ROBERT WOOD JOHNSON MEDICAL SCHOOL COMMITTEES:
(cont'd)**

Chair, Curriculum Committee, Department of Environmental and Occupational Medicine	1992-1998
Committee to Review the Chair of Pediatrics, UMDNJ-Robert Wood Johnson Medical School	1995-1996
Committee to Review Chairman of Radiology, UMDNJ-Robert Wood Johnson Medical School	1998-1999
Committee on Appointments and Promotions, UMDNJ-Robert Wood Johnson Medical School	2000-2001
Search Committee for Chair of Family Medicine, UMDNJ-Robert Wood Johnson Medical School	2005-2006
Member, Population Science Steering Committee, UMDNJ-Robert Wood Johnson Medical School	2007 -

SERVICE ON GRADUATE SCHOOL COMMITTEES:

Executive Committee, New Jersey Graduate Program in Public Health	1984-1992
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SERVICE ON ROBERT WOOD JOHNSON MEDICAL SCHOOL HOSPITAL COMMITTEES:
None**SERVICE TO THE COMMUNITY:**

Board of Directors, Center for Safety in the Arts, New York, NY	1988-1995
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SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE:

Joel Moorhead, MD, PhD. PhD UMDNJ-School of Public Health ,Fall, 2006.

Arlean Medeiros, PhD candidate (withdrew during dissertation)

Ashley Petit, PhD candidate, Toxicology, 2008-

Multiple MPH graduates

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

Multiple Occupational/Environmental Medicine Residents

Lawrence Stein, PhD (Supported on NIOSH grant; Nancy Fiedler, PhD is primary supervisor)

SPONSORSHIP OF POSTDOCTORAL FELLOWS: (cont'd)

Kenny Boyd, PhD (Supported on current CDC grant; William Hallman, PhD is primary supervisor)

Noel Brewer, PhD (Support on CDC grant; William Hallman, PhD is primary supervisor)

Michelle Robertson, MD, MPH (first clinical EOHSI toxicology fellow)

TEACHING RESPONSIBILITIES:

Course Director, Issues in Clinical Prevention (ECM2)	1996-2002
Course Director, Occupational & Environmental Epidemiology (SPH)	1990-2002
Co-director, Advanced Principles of Occupational & Environmental Health (SPH)	1986-2002
Co-director, Environmental and Community Medicine I (ECM1)	2004-

CLINICAL RESPONSIBILITIES:

Attending Physician, Department of Medicine, Robert Wood Johnson University Hospital	1987-
Clinic Attending, Department of Medicine, Eric B. Chandler Health Center	1988-1989
Director, Clinical Center of the Environmental and Occupational Health Sciences Institute (EOHSI)	1989-present
Medical Director, Controlled Exposure Facility, EOHSI	1996-present

GRANT HISTORY:

1. Physician Education in Occupational Health: Interpersonal Skills for Effective Patient Care (funded by Hunterdon Health Fund, \$15,000), 1985-1986. HMK principal investigator.
2. Mortality Study of New Jersey Sewage Treatment Operators (funded by UMDNJ-Robert Wood Johnson Medical School, General Research Support, \$17,500), 1985-1986. HMK principal investigator.
3. Mortality Study of New Jersey Water Treatment Operators (funded by New Jersey Department of Environmental Protection, Office of Science and Research, \$46,478), 1987-1988. HMK principal investigator.
4. Extrinsic Allergic Alveolitis Surveillance (cooperative agreement with New Jersey Department of Health), 1986-1988. HMK principal investigator.
5. Acute Myelogenous Leukemia and Low Dose Benzene Exposure: A Case Control Study Using Death Certificates (funded by the Environmental and Occupational Health Sciences Institute, \$15,000), 1988. HMK co-principal investigator. (D. Wartenberg, PI)

GRANT HISTORY: (cont'd)

6. Evaluation of the Quality and Quantity of Information Available for the Study of Cancer Among Blacks and Economically Disadvantaged Individuals in New Jersey (funded by NJ Commission on Cancer Research, \$65,000), 1988-1989. HMK co-investigator. (M. Greenberg – PI)
7. Epidemiologic Surveillance of Hospitalized Cases of Hypersensitivity Pneumonitis in New Jersey: 1983-1985 (funded by American Lung Association of New Jersey, \$10,000), 1988-1990. HMK principal investigator.
8. Toxicologically-related Research Training for Occupational Medicine Residents (funded by National Institute for Occupational Safety and Health, \$29,677), 1987-1988. HMK co-director. (M. Gochfeld,
9. Research in Environmental Health Sciences (funded as National Institute of Environmental Health Sciences Center Grant), 1988-1992. HMK member of Core IV, Exposure Measurement and Assessment.
10. SENSOR: Cooperative Agreement To Support Sentinel Event Notification Systems for Occupational Risks (National Institute for Occupational Safety and Health, \$51,188 subcontract from NJ Department of Health), 1987-1988. HMK principal investigator on subcontract.
11. SENSOR: Cooperative Agreement to Support Sentinel Event Notification Systems for Occupational Risks (National Institute for Occupational Safety and Health, \$30,000 subcontract from NJ Department of Health), 1988-1989. HMK principal investigator on subcontract.
12. Health Effects of Chronic Exposure to Pesticides (funded by New Jersey Department of Environmental Protection, subcontract from Rutgers University, \$189,996), 1989-1990. HMK co-principal investigator on subcontract. (N. Fiedler, PI)
13. Pliofilm Hematology (funded by American Petroleum Institute, \$14,250), 1989-1990. HMK principal investigator.
14. Multiple Chemical Sensitivities: An Objective Evaluation (funded by Hazardous Substance Management Research Center, \$241,000), 1989-1992. HMK co-principal investigator. (N. Fiedler, PI)
15. Biomarkers of Benzene Exposure (funded by the United States Environmental Protection Agency, \$18,000), 1989-1992. HMK co-investigator. (B. Goldstein, PI)
16. Immune Biomarker Addendum to Health Effects of Chronic Exposure to Pesticides (funded by Environmental and Occupational Health Sciences Institute, \$10,000), 1991. HMK principal investigator.
17. Immune Biomarker Standardization Project, Centers for Disease Control (CDC), \$19,422, (funded through Association of Occupational and Environmental Clinics), 1990-1991. HMK principal investigator.

GRANT HISTORY: (cont'd)

18. Continuation of Pliofilm Hematology (funded by American Petroleum Institute, \$5,000), 1990-1991. HMK principal investigator.
19. Environmental/Occupational Medicine Academic Award (funded by National Institute of Environmental Health Sciences, \$705,839), 1992-1997. HMK principal investigator.
20. Toxicologically-related Research Training for Occupational Medicine Residents(funded by National Institute for Occupational Safety and Health, \$481,090), 1992-1998. HMK co-investigator. (M. Gochfeld, PI)
21. Evaluation of Sensitivity to Low Level Chemicals (funded by National Institute of Environmental Health Sciences Superfund Research Program, \$402,708), 1992-1995. HMK co-investigator. (N. Fiedler, PI)
22. Educating Physicians in Occupational Health and the Environment (funded by National Institute for Occupational Safety and Health, \$10,289), 1992. HMK principal investigator.
23. Time Dependence of Chemically Induced Leukemia (funded by US Environmental Protection Agency, \$20,061), 1992-1993. HMK principal investigator.
24. Educating Physicians in Occupational Health and the Environment (funded by the National Institute for Occupational Safety and Health, \$9,748), 1993. HMK principal investigator.
25. Research in Environmental Health Sciences (funded by the National Institute of Environmental Health Sciences, \$6,184,538), 1993-1998. HMK co-investigator. (M. Gallo, PI)
26. Bronchial Hyperreactivity Following Acute Inhalation Injury (funded by the American Lung Association, \$50,000), 1994-1997. HMK co-investigator. (S. Mohr, PI)
27. New Jersey Center for Environmental Hazards Research (funded by the Department of Veterans Affairs, \$2,600,000), 1994-2000. HMK co-principal investigator. (B. Natelson, PI)
28. Educating Physicians in Occupational Health and the Environment (funded by the National Institute for Occupational Safety and Health, \$11,193.45), 1994. HMK principal investigator.
29. Cooperative Agreement to Conduct Studies of Illnesses Among Persian Gulf Veterans #U50/CCU214463-01, Defining Gulf War Illnesses (funded by Centers for Disease Control and Prevention, \$1,800,000), 1997-2000. HMK principal investigator.
30. Hazardous Waste Fact Sheets (funded by the New Jersey Department of Health, \$570,570 subcontract from Rutgers, The State University of New Jersey), 1998-2001. HMK principal investigator on subcontract.
31. Measurement of Pesticide Exposure Among Farmworkers in New Jersey (funded by Environmental Protection Agency, \$199,968), 1999-2000. HMK principal investigator.

GRANT HISTORY: (cont'd)

32. Toxicologically-related Research Training for Occupational Medicine Residents(funded by NIOSH, ERC T42 CCT210425, \$674,345), 7/00-6/05. HMK co-investigator. (M. Gochfeld, PI).
33. Health Effects to Exposures to VOCs, Ozone and Stress(funded by NIOSH, \$1,311,430), 1999-2002. HMK co-investigator. (N. Fiedler, PI)
34. Nasal Responses to Airborne Environmental Chemicals (funded by NIEHS, 1K23 ES00385-01 \$645,476), 3/9/2001 - 2/28/2006. HMK principal mentor. (G. Greene, PI)
35. Development of a Nasal Respiratory System Blocking Apparatus for the Investigation of Non-Specific Building-Related Illness (funded by NIOSH B Education & Research Center, Region II, \$9,800), 8/2000 - 7/2001. HMK principal investigator. (G. Greene, PI)
36. Human Genetic Susceptibility to Organophosphate Exposure Based on PON1 Polymorphism (funded by NIEHS Center for Environmental Health Sciences (Gallo-PI) P30 ES05022 \$10,839 (551652 RQ1652), 6/00-3/01. HMK principal investigator.
37. Double-blind Placebo-controlled Study of Caffeine Sensitivity in MCS Patients (funded by ESRI - Environmental Sensitivities Research Institute, RQ1676, \$24,981), 11/00 - 6/02. HMK co-investigator. (R. Laumbach, PI)
38. Environmental Factors in Medically Unexplained Physical Symptoms and Related Syndromes, (conference funded by CDC/ATSDR RQ1659 #ATR218434; NIEHS/EPA RQ1666 #R3ES10663A) \$30,511. 01/01-12/01. HMK principal investigator.
39. Center to Study War Related Illness (funded by Veteran's Administration East Orange, RQ1687, \$37,500), 5/02-4/03. HMK principal investigator of subcontract.
40. Improved Risk Communications to Prevent Unexplained Illnesses Related to Military Deployments (funded by CDC E11/CCE219962-01, \$954,188), 9/01-8/04; **no cost extension to 8/05**. HMK co-investigator (W. Hallman, PI)
41. General Population Health and Psychological Symptoms following WTC Disaster: Examination of Relationship to Plume Exposure, (funded by NIEHS Research Center in Environmental Health Sciences: World Trade Center (WTC) Supplement ES05022-15S1 \$366,744), 4/19/02-3/31/03. HMK principal investigator. (M. Gallo, PI).
42. World Trade Center Worker and Medical Screening Program (subcontract with Mount Sinai; funded by CDC, \$120,000) 10/02 - 9/03. HMK principal investigator.
43. Work Organizational Factors and Psychological Distress, (R21 Program funded by NIOSH Exploratory/Developmental Grant (R21) Program, \$234,375), 9/02-8/04; **no cost extension to 8/05** HMK co-investigator (O. Osinubi, PI).

GRANT HISTORY: (cont'd)

44. Hope Partnership, (Funded by NCRR R25RR018490, \$1,619,760.00), 09/30/03 - 08/31/08. HMK co-investigator (A. Gotsch, PI).
45. Symptoms Psychology, Respiratory Disease and Disability in NYC Firefighters following the WTC (Funded by NIEHS Research Center in Environmental Health Sciences: World Trade Center (WTC) Supplement P30 ES05022-16S1 Gallo(PI), \$194,652) 4/034/04; no cost extension to 4/05. Carry over 4/15/05 – 3/31/06. HMK principal investigator.
46. The Effects of Diesel Exhaust and Stress on the Acute Phase Response and Symptoms in the Chemically Intolerant (Funded by DOD DAMD \$1,519,951) 1/1/03 –12/31/05 HMK co-investigator (N. Fiedler PI)
47. Controlled Human Exposure – Response Study to Environmental Levels of Hydrogen Sulfide in Normal Subjects: Pilot Investigations and Neurobehavioral Study. (Funded by American Petroleum Institute, 01-0000-4714, \$1,027,242) 8/2001-1/2006 HMK co-investigator (N. Fiedler, PI).
48. Responses to Fresh Aerosols in Susceptible Subjects, (Funded by EPA, R832144 \$1,521,398, 09/01/04-08/31/08) HMK principal investigator.
49. Solvent Exposure: Functional Imaging and Behavior (Funded NIOSH, 1R01 OH8198, \$1,763,160, 09/01/04-08/31/07) HMK co-investigator (N. Fiedler, PI)
50. Clinical Center for Monitoring Health in WTC Responders (Funded by CDC, U10 OH008239 \$1,985,000, 07/04-06/09). HMK co-investigator (I. Udasin, PI)
51. Sentinel Event Notification System for Occupational Risks Partnership (Funded by NJDHSS, \$52,000, 1/03-9/30/05) HMK consultant
52. Symptomatic and Perceptual Responses to Anthrax Bioterrorism on Capitol Hill) HMK consultant. \$25,000 (C. North, PI, Washington University, St. Louis)
53. Work Performance and Insulin Therapy in Diabetics: a Feasibility Study. (Funded by Avenis Pharmaceuticals, \$15,000, 9/03-9/04) HMK co-investigator (N. Fiedler, PI).
54. Oxidative Stress Markers of Diesel Exhaust (Funded by NIOSH, Pilot Project through Mount Sinai, \$9,257, 12/2004-6/2005) HMK Co-I (R. Laumbach, PI).
55. Exploration of Gene-Environment Interactions in Acute Exposures to Diesel Exhaust. (Funded by NIEHS Center for Environmental Health Sciences, P30 ES05022 Pilot Project, \$18,000, 5/19/05-3/31/06). HMK principal investigator.
56. Effects of Inhaled, Fresh Diesel Exhaust on Airway Remodeling in an Asthmatic Mouse Model. (Funded by NIEHS Center for Environmental Sciences, P30 ES005022-18 Pilot Project; \$18,000, 4/1/05 - 3/31/06) (D. Gerecke, PI).

GRANT HISTORY: (cont'd)

57. Inflammatory Effects of Diesel Exhaust (Funded by UMDNJ Foundation, \$25,000, 6/2005-5/2006) HMK Co-I (R. Laumbach, PI).
58. Effects of Diesel Exhaust Particles on Human Antimycobacterial Immunity (Funded by NIEHS Center for Environmental Sciences, Pilot Project, \$29,822, 4/1/06 – 3/31/07) HMK Co-I (Schwander, PI).
59. Diabetic Susceptibility to the Procoagulant Effects of Traffic-Generated Particulate Air Pollution (NIEHS Pilot, \$29,617, 4/1/06 – 3/31/07) HMK Co-I (D. Rich, PI).
60. Diesel Exposure in Mild and Moderate Asthmatics (NIEHS pilot, \$30,394, 4/1/06 – 3/31/07) HMK Co-I (S. Hussain, PI).
61. Molecular and physiological responses to drastic changes in PM concentration and composition. (Health Effects Institute, 4760-RPFA05-3, \$569,602, 7/1/07-12/31/09) HMK Co-I (J. Zhang, PI)
62. Triggering of myocardial infarction by ambient fine particles and fine particle components (American Heart Association, \$195,000, 7/1/07-6/30/10) HMK Co-I (D. Rich, PI).
63. Response to Drastic Changes in Air Pollution: Reversibility and Susceptibility (National Institute of Environmental Health Sciences, 1 R01 ES015864, \$1,406,290, 10/01/07- 9/30/10) HMK Co-I (J. Zhang, PI)
64. Research Center in Environmental Health Science (National Institute of Health/National Institute of Environmental Health Sciences, 2P30ES005022-21, \$8,581,519, 4/01/09-03/31/2014) HMK IHSFC Project PI (H. Zarbl, PI).
65. Oxidative Stress from Automobile Commuting Exposures: A Biomarker Study using the NJ Family Medicine Research Network (Cancer Institute of New Jersey, \$50,000, 5/1/08-4/30/09) HMK PI.
66. Chemoprevention of Breast and Prostate Cancer in Shift Workers by Dietary Methylselenocysteine: Effect on Circadian Rhythm and Estrogen Receptor – B Cycling (The V-Foundation for Cancer Research, \$600,000, 11/01/08 – 10/31/2001) HMK Project PI (H. Zarbl, PI).
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D. ABSTRACTS: (cont'd)

87. D.Q. Rich,, **H.M. Kipen**, J. Zhang, L. Kam at, B. Turpin, A.W ilson,, J. Kostis. Triggering of Myocardial Infarction by Ambient Fine Particles & Fine Particle Species. AmJ Respir Crit CareMed 179; 2009:A1176.

INVITED PRESENTATIONS (AFTER 2000):

“Medically Unexplained Symptoms: Field and Laboratory Investigations,” Yale University of School of Medicine, Department of Medicine, Occupational Medicine Program, February 27, 2001.

“Medically Unexplained Symptoms in the Workplace.” Millennium Series at the American Occupational Health Conference (AOHC) in San Francisco, CA, April 24, 2001.

Panel Member and Speaker on "Clinical Medical Testimony" at the ALI-ABA Seminar on "New Directions in Expert Testimony" in San Francisco, CA, April 27, 2001.

Facilitator, Thematic Poster Session, Occupational Allergic and Non-Allergic Airways Disease at ATS San Francisco, CA, May 20, 2001.

“Toxicity and Disability”, The Prudential Insurance Company of America, Parsippany, NJ, June 5, 2001.

Participant as a Panel Member at the ATSDR Expert Panel Meeting, Atlanta, GA, June 18-19, 2001.

Participant, Defining Susceptibility for Microbial Risk Assessment: A Dialogue, George Washington University, June 26-27, 2001.

Invited Expert on "Air Pollutants and Related Health Effects from the World Trade Center Fire and Collapse" on Radio Station 101.5 on September 13, 2001 (aired on 9/14/01).

Invited Expert on "Expected Health Impacts of the World Trade Center Disaster" on Television NJ News 12 on September 15 - 16, & 19, 2001.

Invited Panel Member at NIEHS meeting, John Hopkins University, Bloomberg School of Public Health, on Planning and Organizing a Response to the World Trade Center Tragedy, September 21, 2001.

Invited Speaker on “Odors; Chemical Sensitivities, and Stress Factors in Exposed Individuals,” Environmental Health Issues Related to the World Trade Center Disaster, New York University, New York, NY, October 18, 2001.

Invited Plenary Speaker at the Military and Veterans Health Coordinating Board Session on “Longitudinal Examination of Symptom Patterns Among Gulf War Registry Veterans, Rockville, MD, December 10, 2001.

Invited Speaker on “Potential Bioterrorism Agents” at the Bioterrorism and Chemical Hazards Collaboration—Inaugural Meeting, Woodbridge Hilton, Woodbridge, NJ, December 11, 2001.

INVITED PRESENTATIONS (AFTER 2000): (cont'd)

Panel Member at the New Jersey Institute for Continuing Legal Education on "Admitting Scientific & Expert Testimony: Getting Past the Gatekeeper," January 26, 2002.

Participant, Tremolite Asbestos Registry (TAR) Expert Work Group, ATSDR, Atlanta, Georgia, February 13-14, 2002.

"Medically Unexplained Symptoms and Syndromes in the Workplace" at the American Occupational Health Conference (AOHC) in Chicago, IL, April 17, 2002.

Invited Speaker on "Indoor Air Quality and Multiple Chemical Sensitivity" at Association of Trial Lawyers of America (ATLA) Boardwalk Seminar 2002, Workers' Compensation Seminar, Atlantic City, NJ, April 26, 2002.

Facilitator, "Indoor Exposure: Cigarette Smoke, Endotoxin, Irritants and Allergens. Poster Discussion Session. American Thoracic Society International Conference, Atlanta, GA, May 17-22, 2002.

Invited Speaker on "Multiple Chemical Sensitivity" at SOEH International Conference on Pesticide Exposure and Health, Bethesda, MD, July 11, 2002.

Invited Speaker on "Controlled Exposure Challenges to Elucidate Building Related Illness and Other Medically Unexplained Symptoms" at the 22nd International Symposium of UOEH, Japan, Conference I: Xenobiotics and Host Responses, Japan, Sept 24-25, 2002.

Invited Plenary Speaker on "Advances in Understanding Symptom-based Health Effects: Indoor Air Pollution and Gulf War Syndrome" at the Asian Conference for Occupational Health (ACOH) Symposium in Taipei, Taiwan on November 3, 2002.

Speaker on "Current Health Problems and Future Concerns from the World Trade Center Fallout and Experience" in the Support for the World Trade Center Disaster Session at the 2002 Eastern Analytical Symposium (EAS) at the Garden State Exhibit Center, Somerset, NJ on November 18, 2002.

Grand Rounds speaker on "Research update on Medically Unexplained Symptoms and the Environment", Yale Occupational Medicine, New Haven, CT, November 26, 2002.

Grand Rounds Speaker on "Medically Unexplained Symptoms in Primary Care" at the War-Related Illness and Injury Study Center, DVA NJ Health Care System, East Orange, NJ on December 11, 2002.

Consultant on Multiple Chemical Sensitivities for US Department of Justice, Civil Rights Division, Disability Rights Section, December 16, 2002.

Invited Speaker on "Current Health Problems and Future Concerns from the WTC Fallout and Experience" at the Pulmonary Care Symposium, sponsored by Pinnacle Health Systems, Harrisburg, PA, February 28, 2003.

"Cancer Clusters and Work" Rutgers Preparatory Academy, March 3, 2003.

INVITED PRESENTATIONS (AFTER 2000): (cont'd)

“Bell’s Palsy and Work” Johnson and Johnson, Raritan, NJ, March 12, 2003.

Invited Speaker on “Need for Environmentally Oriented Health Research and Services in Lower Manhattan.” American Red Cross. September 11 Recovery Program. New York Community Trust, March 11, 2003.

Medically Unexplained Symptoms and the Environment: the World Trade Center Disaster, New York University, Graduate Seminar, New York, NY, April 7, 2003.

Grand Rounds Speaker on “Update on Common Occupational Illnesses.” Janssen Pharmaceutica, Titusville, NJ, April 10, 2003.

Olfaction, Odors and Perception in E/O Syndromes, American Occupational Health Conference Research Session, Atlanta, GA, May 6, 2003.

Investigating Medically Unexplained Symptoms: From Field Studies to Controlled Exposures, American Occupational Health Conference Research Session, Atlanta, GA, May 6, 2003.

Presider on “Occupational Airway Disease/Asthma and Allergy.” ATS 2003-99th International Conference, Seattle, WA, May 19, 2003.

Chairman, “Occupational Asthma” Poster Session. ATS Conference, Seattle, WA, May 20, 2003.

Invited Speaker on “Medically Unexplained Symptoms and Syndromes in the Workplace” at the Puget Sound Occupational and Environmental Medicine Grand Rounds. University of Washington, Seattle, WA, May 21, 2003.

On-air Discussion on “What do you need to know about mold” at WCTC Radio Station on May 25, 2003. Television Interviews by NBC-4 New York and CN-8 (Comcast Cable Network) on 9-11 anniversary, Sept 11, 2003.

“The Biology, Psychology and Sociology of Non-Specific Syndromes, ACOEM State of the Art Conference, Toronto, Canada, October 15, 2003.

Grand Rounds speaker on “Occupational Asthma”, UMDNJ-NJMS, Division of Allergy, Newark, NJ, March 18, 2004.

“When the Dose is Low and the Response is Not - Multiple Chemical Sensitivity, Chronic Fatigue Syndrome and Similar Disorders” at IMX Symposium, Philadelphia, PA, May 19, 2004.

Invited Participant, 2nd Jack Pepys Occupational Asthma Workshop, Toronto, Canada, May 21-22, 2004.

Chairman, “Occupational Asthma” Poster Session. ATS Conference, Orlando, FL, May 25, 2004.

INVITED PRESENTATIONS (AFTER 2000): (cont'd)

“Neurotoxic and Neurobehavioral Effects of Mold Exposure” (with N. Fiedler). NIEHS/SOEH Conference on Mold-Related Health Effects: Clinical Remediation Worker Protection and Biomedical Research Issues,” Washington, DC, June 28-29, 2004.

“Responses to Fresh Aerosol in Susceptible Subjects”. NIEHS/EPA Research Program, The Role of Air Pollutants in Cardiovascular Disease, Washington, DC, September 28, 2004.

Chair, Plenary Session VII: Closing Talk, “Recent Advances in Benzene Toxicity,” Munich, Germany, October 10-12, 2004.

“Human Neurobehavioral Effects of Controlled Exposure to Hydrogen Sulfide” poster session at the International Society of Exposure Analysis (ISEA), Philadelphia, PA on October 19, 2004.

“Medically Unexplained Symptoms and the Environment,” Psychiatry Grand Rounds, State University of New York, Stony Brook, NY, October 26, 2004.

“Health Effects of Diesel Exhaust,” Sixth Annual Women In Science Symposium, Environmental and Occupational Health Sciences Institute (EOHSI), Piscataway, NJ, November 12, 2004.

“Particulate Air Pollution and Myocardial Infarction: Explaining the Connection,” New Jersey Clean Air Council, Trenton, NJ, April 13, 2005.

“Defining Gulf War Illness: Factors, Clusters and Diagnoses” Institute of Medicine, Committee on Gulf War and Health, Washington, DC, April 20, 2005

"Overview of Human Exposure Experimentation", Ethics of Human Experiments Session, American Occupational Health Conference (AOHC), Washington, DC, May 2, 2005.

Keynote Speaker, “Gene-Environment-Stress Interactions: Diesel Exposures and Cardiopulmonary Disease” at the New Jersey Thoracic Society 33rd Annual Scientific Session, New Brunswick, NJ, June 3, 2005.

“Particle Exposures and Cardiopulmonary Disease Gene-Environment Interactions” ACOEM, SOTAC, Chicago, IL, October 29, 2005.

“Diesel Exposures and Cardiopulmonary Disease Gene-Environment-Stress Interactions” International Symposium Toxicology of Nanomaterials: Biomedical Aspects, Miami, FL, January 30, 2006.

“Does Air Pollution Cause MI's,” Medical Grand Rounds, Department of Medicine, Mountainside Hospital, Montclair, NJ, February 23, 2006.

“Does Air Pollution Cause MI's,” 4th Annual NJSRC Spring Lecture Series, New Jersey Hospital Association, Princeton, NJ, April 5, 2006.

INVITED PRESENTATIONS (AFTER 2000): (cont'd)

“Health Impact of Nanoparticles” Emerging Environmental Issues and Policies at the Mid-Atlantic States Section of the Air and Waste Management Association Spring Technical Conference, Hyatt Regency, New Brunswick, NJ, April 6, 2006.

Co-Chair and Speaker, “Combustion Nanoparticles and Cardiovascular Disease” at the Nanoparticles: Health, Science and Technology, ERC Annual Scientific Meeting, Mount Sinai Medical Center, April 7, 2006.

“Air Pollution and Myocardial Infarction: Causal Association and Mechanisms,” Medical Grand Rounds, Yale Occupational and Environmental Medicine Program, New Haven, CT, June 6, 2006.

“How Does Indoor Air Pollution Kill Us: Looking for Clues,” Philadelphia Occupational and Environmental Medicine Society (POEMS), Bala Cynwyd, PA, December 13, 2006.

“Air Pollution and Health,” Dartmouth Medical School, Public Health Program, Lebanon, NH, March 1, 2007

“Medically Unexplained Systems and the Environment,” Grand Rounds, Dartmouth Medical School, Lebanon, NH, March 2, 2007.

Expert Panel Member, “A Toxic Tort Hypothetical,” Sciences for Judges IX, Brooklyn Law School, Center for Health, Science and Public Policy, Subotnick Center, 11th Floor, Brooklyn, NY, April 13, 2007.

“Acute Cardiac Events from Air Pollution: Searching for Mechanisms from Piscataway to Peking.” Wood’s Hole Saturday Morning Sessions. Wood’s Hole, Massachusetts. August 4, 2007.

“Acute Cardiac Events from Air Pollution,” Occupational and Environmental Medicine Association of New Jersey, Princeton, NJ. November 13, 2007.

“Acute Health Effects from Air Pollution: Searching for Mechanisms from Piscataway to Peking” Clinical Research and Occupational Medicine Grand Rounds, EOHSI, Piscataway, NJ, February 5, 2008.

Session Organizer and Moderator, “What's New in Air Pollution: Investigations from Piscataway to Peking”. American College of Occupational & Environmental Medicine Annual Meeting, New York, NY April 14, 2008.

“How Does Air Pollution Cause MI’s? ,” NY Occupational and Environmental Medical Association, Update on Adverse Health Effects of Occupational and Environmental Dust and Irritant Exposure Conference, New York, NY, June 17, 2008.

The Beijing HEART Study: Review of Biological Endpoints. International Society for Environmental Epidemiology / International Society for Exposure Science, Annual Meeting, Pasadena, CA, October 15, 2008.

INVITED PRESENTATIONS (AFTER 2000): (cont'd)

The Integrated Health Sciences Facility Core (IHSFC) of the NIEHS Center at UMDNJ-Robert Wood Johnson Medical School. NIEHS Center Director's Meeting. Philadelphia, PA, October 21, 2008.

"Update on Cardiopulmonary Diseases Caused by Air Pollution: Deep Vein Thrombosis, Coronary Ischemia, & the Olympics," Division of Pulmonary and Critical Care Medicine, UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ, January 23, 2009.

"What the Beijing Olympics is Teaching us About Acute Air Pollution Health Effects," American Thoracic Society Annual Conference, San Diego, CA, May 20, 2009.

"Changes in Indicators of Pulmonary Oxidative and Nitrosative Stress Following Drastic Changes in Air Pollution during the Beijing HEART Study", 4th International Conference on Oxidative/Nitrosative Stress and Disease sponsored by UMDNJ, New York Academy of Sciences, Rutgers, and NIOSH. New York, NY, October 28-30, 2009.