

DATE: 4/25/2012
NAME: Robert John Laumbach MD, CIH, MPH
PRESENT TITLE: Associate Professor, Department of Environmental and Occupational Medicine
Robert Wood Johnson Medical School
University of Medicine and Dentistry of New Jersey
OFFICE ADDRESS: Environmental and Occupational Health Sciences Institute
170 Frelinghuysen Road, Room 204
Piscataway, NJ 08854
TELEPHONE NUMBER/E-MAIL ADDRESS: 732-445-0123, ext. 628
laumbach@eohsi.rutgers.edu

CITIZENSHIP: United States of America

EDUCATION:

- A. Undergraduate Graduate and Professional
The Cooper Union School of Art
Fine Arts 8/81

Rutgers University
New Brunswick, NJ
B.S. Environmental Science 2/84
- B. Graduate and Professional
Columbia University
New York, NY 2/92
M.P.H. Occupational and Environmental Health

UMDNJ-Robert Wood Johnson, New Jersey
Piscataway, NJ
M.D. 5/97

POSTGRADUATE TRAINING:

- A. Internship and Residencies
UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ
Resident, Family Medicine,
1997-1999

UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ
Chief Resident, Family Medicine
1999-2000

B. Research Fellowships
UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ
Fellow, Occupational Medicine
2000-2001

C. Postdoctoral Appointments

MILITARY: Not applicable

ACADEMIC APPOINTMENTS:

Department of Environmental and Occupational Medicine
UMDNJ-Robert Wood Johnson Medical School
Associate Professor
7/12-present

Department of Environmental and Occupational Medicine
UMDNJ-Robert Wood Johnson Medical School
Assistant Professor
7/01-present

Department of Family Medicine,
UMDNJ-Robert Wood Johnson Medical School
Assistant Professor (joint),
7/01-present

Assistant Professor (joint),
UMDNJ-School of Public Health
7/01-present

Environmental and Occupational Health Sciences Institute
UMDNJ-Robert Wood Johnson Medical School/Rutgers University
Member
1/03

National Institute of Environmental Health Sciences Center for the
Environmental Health Sciences
Member
1/04-present

Joint Graduate Program in Toxicology,
Rutgers University and UMDNJ
Faculty
1/06-present

HOSPITAL APPOINTMENTS: Not applicable

OTHER EMPLOYMENT OR MAJOR VISITING APPOINTMENTS:

Sanitarian
Manalapan and Matawan Regional Health Departments, NJ
1985-1988

Industrial Hygienist
Lederle Laboratories,
Pearl River, NY
1988-1989

Corporate Safety, Health and Environmental Manager

Cambrex Corporation, E. Rutherford, NJ
1989-1993

PRIVATE PRACTICE: Not applicable.

LICENSURE:

New Jersey Medical License MA67788 / expiration: 6/30/2013

DRUG LICENSURE:

New Jersey CDS No. D076184 / expiration: 10/31/2011

New Jersey DEA No. BL6417251 / expiration: 03/31/2014

CERTIFICATIONS:

Diplomate, American Board of Industrial Hygiene (Certified Industrial Hygienist, Comprehensive Practice), 1993-present

Diplomate, National Board of Medical Examiners, 1997-present

Diplomate, American Board of Family Practice, 9/2000-present

Diplomate, American Board of Preventive Medicine (Occupational Medicine), 2001-present

MEMBERSHIPS, OFFICES AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:

Alpha Omega Alpha student chapter
Co-President, local chapter
1997

New Jersey Academy of Family Physicians Resident Caucus
Vice-Chair
1998-2000

American Industrial Hygiene Association, NJ Chapter
Member
1999-present

American College of Occupational & Environmental Medicine (ACOEM)
Member
2001-present

American Thoracic Society (ATS)
Member
2002- present

NJ Clean Air Council
Member
2009-present

NJ Department of Environmental Protection Science Advisory Board
Member
2010-present

Working Group, US EPA Community Action to Renew the Environment (CARE I), Ironbound Community, Newark, NJ
Member
2010-present

HONORS AND AWARDS:

Tri Beta National Biological Sciences Honor Society
1983

Appleton and Lange Outstanding Medical Student Award
UMDNJ-RWJMS
1997

Alpha Omega Alpha Medical Honor Society
1997

Frank C. Snope Excellence Award for UMDNJ-RWJMS Family Medicine Residents
1999

Occupational Physicians Scholarship Fund Award
2000

NIH Mentored Clinical Scientist Career Development Award (K08)
NIH
2005

BOARDS OR DIRECTORS/TRUSTEES POSITIONS:

Member, Board of the New Jersey Environmental Federation, 2/2010 to present

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

None

SERVICE ON MAJOR COMMITTEES:

- A. International - None
- B. National - None
- C. Medical School/University - None
- D. Hospital - None
- E. Department - None
- F. Editorial Boards - None
- G. Ad-hoc Reviewer, American Journal of Epidemiology (9/2009-present)
Ad-hoc Reviewer, American Journal of Respiratory and Critical Care Medicine (6/2010-present)
Ad-hoc Reviewer, Environmental Health Perspectives (1/2007-present)
Ad-hoc Reviewer, Environmental Health (1/2008-present)
Ad-hoc Reviewer, American Journal of Industrial Medicine (1/2007-present)
Ad-hoc Reviewer, Indoor Air (1/2005-present)
Ad-hoc Reviewer, Toxicology and Applied Pharmacology (1/2004-present)

SERVICE ON GRADUATE SCHOOL COMMITTEES:

Academic Standing Committee, UMDNJ-Robert Wood Johnson Medical School
2002-2004

SERVICE ON HOSPITAL COMMITTEES: None**SERVICE TO THE COMMUNITY:**

USEPA Community Actions to Renew the Environment (CARE) Working
Group, Ironbound Community Corporation, Newark, NJ
2009-present

Member, New Jersey Clean Air Council
2010-present

Member, Science Advisory Board, NJ Department of Environmental Protection
2010-present

SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE: None

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

Multiple Occupational/Environmental Medicine Residents
UMDNJ-SPH Master of Public Health students

Field work supervisor for:

Damir Mazlagic MD, MPH 2005/2006
Anthony Grippo MD, MPH 2006/2007
Christopher Pai MPH 2007/2008

Ph.D. Thesis Committee:

Ming-Wei Chao Ph.D. Joint Program in Toxicology 2010
Jicheng Gong 2009

RWJMS First-year medical student mentor and advisor
2001-2007

TEACHING RESPONSIBILITIES:

A. Lectures or Course Directorships

RWJMS, Lecturer, Foundation Week, The Normal Patient capstone, 1.5 hr

RWJMS, Lecturer, Body in Motion, Carpal Tunnel Syndrome, 1.5 hr

RWJMS, Small group facilitator, Environmental and Community Medicine I, 5.0 hr

RWJMS, Small group facilitator, Environmental and Community Medicine II, 5.0 hr

Joint Graduate Program in Toxicology, Lecturer, General Toxicology, Cardiovascular Toxicology 3.0 hr

SPH, Lecturer, Principles of Occupational Health, Introduction to Industry Hygiene and Respiratory Protection, 3 hr

SPH, Lecturer, Principles of Occupational Health, Radiation and Noise, 3 hr

SPH, Lecturer, Occupational and Environmental Epidemiology, Benzene and Cancer, 3.0 hr

B. Research Training

Pre Doctoral Students:

Manthan Shah, PhD program at SPH, 9/2010 to present

CLINICAL RESPONSIBILITIES:

Physician, Clinical Center of the Environmental & Occupational Health Sciences Institute
2000-present

GRANT SUPPORT:

A. Principal Investigator

1. US EPA Science to Achieve Results (STAR), Effects of Stress and Traffic Pollutants on Childhood Asthma in and Urban Community, 6/1/2010 – 5/31/2014, \$1,249,960.
2. NIEHS Center Pilot grant, Clinical and Phenotypic Characterization of a World Trade Center Cohort for Studies of Epigenetic Mechanisms, 4/1/2011-3/30/2012, \$30,000.
3. NIEHS Center Pilot grant, A Cytokine Profiles in Human Exhaled Breath Condensates after Controlled Exposure to Diesel Exhaust, 4/1/2010-3/30/2011, \$20,000.
4. NIEHS, Mentored Clinical Scientist Career Development Award (K08), Mechanisms of Responses to Diesel Exhaust and Stress, 9/1/2005-8/31/2010, \$678,915.
5. UMDNJ Foundation, Systemic Inflammatory Effects of Diesel Exhaust in a Susceptible Murine Model, 6/2005-5/2006, \$25,000.
6. NIEHS Center, Pulmonary and Systemic Responses to Diesel Exhaust in a Susceptible Animal Model, 6/2005-3/2006, \$18,000.
7. NIOSH ERC Pilot project, Noninvasive Measures of Oxidative Stress and Inflammatory Responses to Diesel Exhaust in Human Respiratory Epithelium, 12/2004-6/2005, \$10,000.
8. NIEHS Center, Heat Shock Protein Expression in Nasal Lavage Cells: A Sensitive Marker of Irritant Exposure?, 6/2003-3/2004, \$14,998.
9. American Lung Association of New Jersey (ALANJ), Models of Chemical Sensitivity, 7/2002-6/2004, \$35,000.
10. American Lung Association of New Jersey, Pulmonary toxicity of limonene-ozone reaction products, 6/2002-6/2005, \$35,000.
11. NIEHS Center (World Trade Center Supplement), Qualitative Risk Assessment, 10/2002-10/2004, \$30,002.
12. Environmental Sensitivities Research Institute (ESRI), A Double-blinded, Placebo-controlled Study of Caffeine Sensitivity Among MCS Subjects, 10/2000-10/2002, \$25,000.

B. Co-Investigator

1. NJ Department of Environmental Protection (Gochfeld - PI), Chromium Exposure and Health Study in Hudson County, 2/08 - 11/10, \$476,429.
2. US EPA (Kipen HM - PI), Responses to Fresh Aerosol in Susceptible Subjects, 9/01/2004 – 8/31/2008, \$1,521,398.
3. US EPA (Zhang J – PI), Validation of Diesel Exhaust Biomarkers, 10/2004-9/2007, \$572,497.
4. NIEHS Center Pilot grant (Fan Z – PI), Association of Health Effects and Elevated Particulate Air Pollution, 4/1/2004-3/2005, \$15,000.

5. NIEHS Center (Fan Z – PI) Acute Short-Term Exposure to PM2.5 and Cardiopulmonary Effects, 6/2004-3/2005, \$15,000.
6. DOD US Army Medical Research. (Fiedler N – PI) The Effects of Diesel Exhaust and Stress on the Acute Phase Response and Symptoms in the Chemically Intolerant, 1/2003-12/2005, \$1,519,951.00
7. American Petroleum Institute (API) (Fiedler N – PI) Controlled Human Exposure – Response Study to Environmental Levels of Hydrogen Sulfide in Normal Subjects: Pilot Investigations and Neurobehavioral Study. 8/2001-1/2006, \$1,027,242.

C. Pending: None

PUBLICATIONS:

- A. Refereed Original Articles In Journals:
 1. Sarkar S, Song Y, Sarkar S, Kipen HM, **Laumbach RJ**, Zhang J, Ohman Strickland PA, Gardner CR, Schwander S. Suppression of the NF-κB pathway by diesel exhaust particles impairs human antimycobacterial immunity. Journal of Immunology, 188 (6): 2778-2793, 2012.
 2. Pettit AP, Brooks A, Laumbach R, Fiedler N, Wang Q, Ohman Strickland P, Madura K, Zhang J, **Kipen HM**. Alteration of peripheral blood monocyte gene expression in humans following diesel exhaust inhalation, Inhalation Toxicology, 24(3): 172–181, 2012.
 3. **Laumbach RJ**, Kipen HM, Kelly-McNeil K, Zhang L, Lioy PJ, Ohman-Strickland P, Gong J, Kusnecov A, Fiedler N. Sickness response symptoms among healthy volunteers after controlled exposures to diesel exhaust and psychological stress. Environmental Health Perspectives, 119(7), 945-950, 2011.
 4. Chao MW, Kozlosky J, Po IP, Strickland PO, Svoboda KK, Cooper K, **Laumbach R**, Gordon MK. Diesel exhaust particle exposure causes redistribution of endothelial tube VE-Cadherin. Toxicology, 279(1-3), 73-84, 2011.
 5. Kipen HM, Gandhi S, Rich D, Ohman-Strickland P, **Laumbach R**, Fan Z, Chen L, Laskin D, Zhang J, Madura K. Acute decreases in proteasome pathway activity following inhalation of fresh diesel exhaust or secondary organic aerosol. Environmental Health Perspectives, 119(5):658-63, 2010.
 6. **Laumbach RJ**, Kipen HM. Acute effects of motor vehicle traffic-related air pollution exposures on measures of oxidative stress. Annals New York Academy of Science, 1203:107-112, 2010.
 7. **Laumbach RJ**, Rich DQ, Gandhi S, Amorosa L, Schneider S, Zhang J, Ohman-Strickland P, Gong J, Lelyanov O, Kipen HM. Acute changes in heart rate variability in subjects with diabetes following a highway traffic exposure. Journal of Occupational and Environmental Medicine, 52 (3), 2010.
 8. Sunil, VR, Mainelis G, Turpin BJ, Patel KJ, Ridgely S, **Laumbach RJ**, Kipen HM, Veleparambil, M, Gow AJ, Laskin DL. Pulmonary Effects of Inhaled Diesel Exhaust in Aged Mice. Toxicology and Applied Pharmacology 241(3)283-293, 2009.

9. **Laumbach RL**, Harris G, Kipen HM, Georgopoulos P, Shade P, Isukapalli S, Galea S, Vlahov D, Wartenberg D. Lack of association between estimated WTC plume intensity and respiratory symptoms among residents outside of Lower Manhattan. American Journal of Epidemiology. 170(5):640-9, 2009.
10. **Laumbach R**, Tong J, Zhang L, Ohman-Strickland P, Stern A, Fiedler N, Kipen H, Kelly-McNeil K, Liroy P, Zhang J. Quantification of 1-aminopyrene in human urine after a controlled exposure to diesel exhaust. Journal of Environmental Monitoring. 11(1):153-9, 2009.
11. Fan Z, Meng Q, Weisel C, **Laumbach R**, Ohman-Strickland P, Shalat S, Hernandez M, Black K. Acute exposure to elevated PM2.5 generated by traffic and cardiopulmonary effects in healthy older adults. Journal of Exposure Science and Environmental Epidemiology. 19(5):525-33, 2009.
12. Fiedler N, Kipen H, Ohman-Strickland P, Zhang J, Weisel C, **Laumbach RJ**, Kelly-McNeil K, Olejeme K, Liroy P. Sensory and cognitive effects of acute exposure to hydrogen sulfide. Environmental Health Perspectives. 116(1):78-85, 2008.
13. Sunil V, **Laumbach RJ**, Patel K, Turpin BJ, Lim HJ, Kipen HM, Laskin J, Laskin DL. Pulmonary Effects of Inhaled Limonene Ozone Reaction Products in Elderly Rats. Toxicology and Applied Pharmacology. 222 (2), 211-220, 2007.
14. **Laumbach RJ**, Fiedler N, Gardner CR, Laskin DL, Fan ZH, Zhang J, Weschler CJ, Liroy PJ, Devlin RB, Ohman-Strickland P, Kelly-McNeil K, Kipen HM. Nasal effects of a mixture of volatile organic compounds and their ozone oxidation products. Journal of Occupational and Environmental Medicine. 47:1182-1189, 2005.
15. Fiedler N, **Laumbach RJ**, Kelly-McNeil K, Liroy PJ, Fan ZH, Zhang J, Ottenweller J, Ohman-Strickland P, , Kipen HM. Health effects of a mixture of indoor air volatile organics, their ozone oxidation products and stress. Environmental Health Perspectives. 1139(11)1542-8, 2005.
16. Bukowski J.A, Lewis R.J., Gamble J.F., Wojcik N.C, and **Laumbach R.J.**. Range-finding study of risk factors for childhood asthma development and national asthma prevalence. Human and Ecological Risk Assessment: 8(4):735-765, 2002.

B. Books, Monographs and Chapters

1. **Laumbach R** and Gochfeld M. Toxicology. In Levy B. et al. Eds. Occupational and Environmental Health. 6th Ed. Oxford University Press, New York, New York, 2011.
2. Gochfeld M and **Laumbach R**. Chemical Hazards. In Levy B. et al. Eds. Occupational and Environmental Health. 6th Ed. Oxford University Press, New York, New York, 2011.
3. Kotchian S, **Laumbach R**. Environmental health practice. In Frumkin H Ed. Environment Health: From global to local. 2nd Ed. John Wiley & Sons, Inc., San Francisco CA, 2010.
4. **Laumbach RJ**. Sick building syndrome. In Encyclopedia of Public Health. Quah S. and Heggenhougen K, Eds. Academic Press. September, 2008.

5. Laskin D.L., Sunil V.R, **Laumbach R.J.**, Kipen H.M. Cytokines as mediators of immune-related lung pathology, in *Cytokines in human health: Immunotoxicology, pathology and therapeutic applications*. R. House and J. Descotes, Eds. Humana Press, 2006.
6. **Laumbach R.J.**, Fiedler N, Weschler C, Gardner CR, Zhang J, Liyo P, Fan T, Kelly-McNeil K, Kipen HM. Do MVOCs cause irritation?: Nasal effects of VOCs and VOC oxidation products in controlled human exposures. In Johanning E editor: *Bioaerosols, Fungi, Bacteria, Mycotoxins and Human Health: Patho-physiology, Clinical Effects, Exposure Assessment, Prevention and Control in Indoor Environments and Work*, 2005.
7. Udasin, IG, Lu H, **Laumbach R.J.**, Kipen HM. Symptomatic improvement after cessation of mold exposure: clinical experience in environmental and occupational health. In Johanning E editor: *Bioaerosols, Fungi, Bacteria, Mycotoxins and Human Health: Patho-physiology, Clinical Effects, Exposure Assessment, Prevention and Control in Indoor Environments and Work*, 2005.
8. **Laumbach R.J.**, Kipen H.M. Health care services. In Frumkin H Ed. *Environment Health: From local to global*. Jossey-Bass, San Francisco CA, 2005. Winner of 2005 Association of American Publishers Award for Excellence in Professional and Scholarly Publishing (Allied/Health Sciences Category).

C. Patents Held: None

D. Other Articles (Reviews, Editorials, etc.) In Journals; Chapters; Books; other Professional Communications

1. **Laumbach R.J.**, Kipen HM, Respiratory Health Effects of Air Pollution: Update on Biomass Smoke and Traffic Pollution. *Journal of Allergy and Clinical Immunology*. 129(1):3-11; quiz 12-3. Review, 2012.
2. **Laumbach R.J.** and Kipen, H.M. Does Diesel Exhaust Cause Lung Cancer (Yet)? *American Journal of Respiratory and Critical Care Medicine*. 183:7:843-844, 2011.
3. **Laumbach R.L.** Air pollution and patient health. *American Family Physician*. 81 (2):175-180, 2010.
4. **Laumbach R.J.**, Kipen HM. Bioaerosols and sick building syndrome: particles, inflammation and allergy. *Current Opinion in Allergy and Clinical Immunology*: 5(2):135-9, 2005

E. Abstracts:

1. Kipen H.M., Laumbach R.J., Fan Z., Ohman-Strickland P., Kelly-McNeil, K., Ko S., Cepeda C., Gow A. Human Exposure to Roadway Traffic Particles Produces Respiratory Oxidative Stress. Presented at the Society of Toxicology (SOT) 51st Annual Meeting, 2012.
2. Laumbach, R.J., Rich, D.Q., Gong, J., Zhang, L., Zhang, J., Ko, S., Cepeda, C., Kelly-McNeil, K., Ohman-Strickland, P., Pettit, A.P., Gow, A., Kipen, H.M. Traffic Pollution and Biomarkers of Pulmonary Oxidative Stress in Healthy Humans. Presented at the American Thoracic Society (ATS) 2012 International Conference, 2012.
3. Laumbach, R.J., Rich D.Q., Ko S., Cepeda C., Kelly McNeil K., Ohman-Strickland P., Zhang L. Zhang J. Kipen H.M. Short-Term Exposure to Traffic-Related

Particles is Associated with Acute Decreases in High Frequency Heart Rate Variability among Healthy Adults. Presented at the American Thoracic Society (ATS) 2011 International Conference, 2011

4. Laumbach, R , Rich D., Gong J., Zhang L., Zhang J., Ko S., Cepeda C., Kelly-McNeil K., Ohman-Strickland P., Veleparambil M., Gow A., Kipen H. In-Vehicle Exposure to Traffic and Biomarkers of Airway Oxidative Stress among Healthy Humans. Presented at the International Society of Environmental Epidemiology (ISEE)/International Society of Exposure Science (ISES) Conference, 2010
5. Laumbach, Robert; David Q. Rich, Sampada Gandhi, Louis Amorosa, Stephen Schneider, Junfeng Zhang, Pamela Ohman-Strickland, Oleksiy Lelyanov, Howard M. Kipen, Acute changes in heart rate variability in Type II diabetics following a highway traffic exposure, Presented at the American Thoracic Society (ATS) International Conference, 2009.
6. Laumbach, R.J. Gray J.R., Sunil V.R, Jamil S., Mansukhani M., Mainelis, Laskin, D.L. Ozone Potentiates Diesel Exhaust-Induced Amphiregulin Expression in the Mouse Lung. *AJRCCM*. 2008 177 A427.
7. Sunil V.R., Patel K.J., Laumbach R.J., Turpin B.J., Mainelis G., Laskin D.L. Effects of Single and Repeated Exposure to Diesel Exhaust Particles in Young and Old Mice. *AJRCCM*. 2008 177 A428.
8. Laumbach, R. O.Lelyanov, J. Gong, P. Ohman-Strickland, K. Kelly-McNeill, S. Gandhi, Q. Wang, J. Zahang, Fiedler N., Kipen H.M. Glutathione-S-Transferase M1 and Effects of Diesel Exhaust on Heart Rate Variability in Healthy Humans. *AJRCCM*. 2008 177 A427.
9. Chao M-W, Pettit A, Kozlosky J, Sont R, Gerecke D, Laumbach R, Gordon M. The effect of diesel particles on capillary endothelial tubes grown in vitro. Presented at the Society of Toxicology (SOT) Annual Meeting, 2008.
10. Kipen HM, Laumbach RJ, Zhang J, Lioy PJ, Phillip C, Shindler D, Gandhi S, McNeil KK, Ohman-Strickland P, Laskin DL. Triggering acute vascular responses to air pollution: endothelial and platelet responses to fresh aerosol inhalation. Presented at the American Thoracic Society (ATS) International Conference, 2007.
11. Chao MW, Pettit A, Koslosky JC, Sont R, Gerecke D, Laumbach RJ, Gordon MK. The Effects of Diesel Particles on Capillary Endothelial Tubes Grown in Vitro. Presented at the Society of Toxicology (SOT) Annual Meeting, 2007
12. Laumbach RJ, Kipen HM, Kelly-McNeil K, Gandhi S, Pham P, Gong J, Ohman-Strickland P, Zhang J, Lioy PJ, Laskin DL, Fiedler N. Effects of diesel exhaust and stress on systemic inflammation and the acute phase response in humans. Presented at the American Thoracic Society (ATS) International Conference, 2007
13. Laumbach RJ, Fiedler N, Kelly-McNeil K, Gandhi S, Pham P, Gong J, Ohman-Strickland P, Zhang J, Lioy PJ, Laskin DL, Kipen HM. Combined effects of diesel exhaust and psychological stress on inflammation and the acute phase response in normal humans. The Role of Air Pollutants in Cardiovascular Disease, EPA and NIEHS-sponsored meeting at USEPA, RTP, 2006.
14. Laumbach RJ, Fiedler N, Pham P., Kelly-McNeil K, Gandhi S, Zhang J, Lioy PJ, Laskin DL, Kipen HM. Diesel Exhaust and Psychological Stress: Redistribution of

Human Peripheral Blood Leukocytes. Presented at the American Thoracic Society (ATS) International Conference, 2006,

15. Sunil VR, Laumbach RJ, Turpin BJ, Lim HJ, Patel K, Laskin JD, Laskin DL. Pulmonary Effects of Inhaled Limonene Oxidation Products: Role of Aging. Presented at the American Thoracic Society (ATS) International Conference, 2006
16. Laumbach RJ, Gray JP, Kipen HM, Laskin JD, Laskin DL. Oxidative stress and pro-inflammatory responses to diesel exhaust particles in human nasal respiratory epithelium. Presented at the Proceedings of the American Thoracic Society, 2005, 2: p A168.
17. Laumbach R.J., Laskin, D. Lim H.J., Turpin B., Patel, Sunil V. "Inhalation of limonene oxidation products induces lung injury and macrophage activation in mice." Presented at the International Conference of the American Thoracic Society (ATS), 2004.
18. Laumbach R.J., Fiedler N., Gardner C.R, Zhang J., Lioy P., Fan T, Kelly-McNeil K., Kusnecov A, Kipen H.M.. "Inhalation of terpene oxidation products may cause respiratory inflammation in humans." Presented at the International Conference of the American Thoracic Society (ATS), 2004.
19. Udasin I., Lu H, Laumbach R.J., Kipen H. "Symptomatic improvement after cessation of mold exposure: clinical experience in environmental and occupational health." Presented at the 5th International Conference on Bioaerosols, Fungi, Bacteria, Mycotoxins on Human Health, 2003 (Accepted for publication in Proceedings, June 2004)
20. Laumbach R.J., Laskin D., Gardner C.R., Fiedler N., Zhang J., Lioy P., Fan T., Kelly-McNeil K., Kipen H.M. "HSP 60: A biomarker for nasal inflammation?" Presented at American Occupational Health Conference May 6, 2003. Abstract published in JOEM, 45(7)771-774, 2003.
21. Laumbach R.J., N.Fiedler, C.R.Gardner, J.Zhang, P.Lioy, T.Fan, J.Soukup, R.B.Devlin, K.Kelly-McNeil, Kipen H.M. "Nasal effects of VOCs and ozone." Presented at the International Conference of the American Thoracic Society (ATS), 2003.
22. Laumbach R.J., Fiedler N., Weschler C. ,Gardner C.R.,Zhang J, Lioy P., Fan T., Kelly-McNeil K., Kipen H.M. "Do MVOCs cause irritation?: Nasal effects of VOCs and VOC oxidation products in controlled human exposures," Presented at the 5th International Conference on Bioaerosols, Fungi, Bacteria, Mycotoxins on Human Health, 2003.
23. Tian Y., Laumbach R.J., Gallo M. "Regulation of estrogen receptor (ER) mRNA levels in cell lines by 2,3,7,8 tetrachlorodibenzo-p-dioxin." Presented at the Annual Workshop on Cancer Research in NJ,1995,
24. Laumbach R.J., Carr R, Lehrer P. "Physiological effects of abdominal vs. thoracic breathing in healthy human subjects." Presented at the Robert Wood Johnson Summer Research Foundation Abstracts, 1995

F. Reports: None

PRESENTATIONS:

A. Scientific (Basic Science):

“Cumulative Impacts of Chemical and Nonchemical Stressors: Air Pollution, Psychosocial Stress and Asthma.” Grand Rounds, Division of Clinical Research and Occupational Medicine, Department of Environmental and Occupational Medicine, UMDNJ-Robert Wood Johnson Medical School, Piscataway, NJ. April 12, 2011.

“Asthma, Stress, and Traffic: Hazards and Modes of Action (ASTHMA) Study.” New Jersey Department of Environmental Protection, Division of Air Quality, Quarterly Meeting, Trenton, NJ, March 31, 2011.

“Controlled Exposure to Diesel Exhaust is Associated with a Transient Increase in Nitrite in Exhaled Breath Condensate in Healthy Humans” (oral presentation, minisymposium) at the American Thoracic Society (ATS) 2010 International Conference, New Orleans, LA, May 2010.

“Acute effects of motor vehicle traffic-related exposures on measures of oxidative stress.” 4th International Conference on Oxidative-Nitrosative Stress and Disease, New York Academy of Sciences, October 28-30, 2009.

“Inter-individual variability in urinary 1-aminopyrene following a controlled exposure to diesel exhaust.” 2009 Wuhan International Conference on the Environment., Wuhan, Hubei Province, China. October 15-18, 2009.

“How do small amounts of particulate matter air pollution kill people?” American Occupational Health Conference, New York, New York, April 14, 2008

“Current Occupational Health Research at EOHSI” Presented at the monthly meeting of the New Jersey chapter of the American Industrial Hygiene Association, September 18, 2003

“Human Exposure Studies: How can we determine acceptable levels of exposure.” Presented at Conference on Ethics, Human Subject Protections, and Science of Experimental Human Exposures to Industrial Chemicals, EOHSI, June 20, 2003.

“Irritants: Irritation, Irritancy, and Irritability,” Spring 2002 Occupational Medicine Lecture Series, EOHSI, June 25, 2002.

B. Professional (Clinical):

“Air Pollution in the Garden State: Helping Patients to Reduce Health Risks.” New Jersey Academy of Family Physicians Annual Scientific Assembly, Atlantic City, NJ, June 19, 2010.

“Toxicology and Health Effects of Nanoparticles” Mid-Atlantic Biological Safety Association Symposium, Rutgers University, Piscataway, NJ. June 14, 2007

“Health Effects of Nanoparticles” Professional Development Course, Northeastern Regional Conference, American Industrial Hygiene Association, New Brunswick, NJ November 30, 2006.

“Air pollution and your patients’ health” Presented at American Occupational Health Conference, Washington DC, May 2005.

“Asthma and Allergies in Schools” for Woodbridge Township School District, Lynn

Crest Elementary School, Colonia, NJ, October 22, 2004.

“Health Effects of Mold: Relevance to Roebling and Duffy Elementary Schools,” Florence Township Board of Education Meeting, September 3, 2002.

“Health Effects of Mold: Relevance to Mendham Township Schools,” Mendham Township Board of Education Meeting, September 7, 2002.

“Occupational Medicine and You.” Robert Wood Johnson Mini Medical School program. April 4, 2002

“Review of Hazardous Site Health Evaluation Program Health Consultation.” Citizen Advisory Panel, Rhodia, Inc. February 5, 2002.

“Methanol, Phenol, and Toluene: Background for Rhodia CAP.” Citizen Advisory Panel, Rhodia, Inc. December 4, 2001.

“Health Effects of Mold,” Teaneck Police Department, Teaneck, NJ, November 7, 2001

“Medically unexplained symptoms in primary care,” 2001 Alumni Conference of the UMDNJ-Robert Wood Johnson Medical School Family Medicine Residency Program, New Brunswick, NJ. June 22, 2001.