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Curriculum Vitae

GEORGE D. THURSTON

3 Catherine Court
Chester, NY 10918
Hm: (845) 783-1978
Wk: (845) 731-3564
Fax: (845) 351-5472

Email: george.thurston@nyu.edu

<http://www.med.nyu.edu/biosketch/gdt1/research>

Education

Degree	Field	Institution
Diploma	Academic	Barrington High School, RI
Sc.B. (Honors)	Environmental Engineering	Brown University
A.B.	Environmental Studies	Brown University
S.M.	Environmental Health Sciences	Harvard Univ. Schl. of Public Health
Sc.D.	Environmental Health Sciences	Harvard Univ. Schl. of Public Health

Postdoctoral Training

Specialty	Mentor	Place of Training
Environ. Epidemiology	Dr. H. Ozkaynak	Harvard Univ., Kennedy Schl. of Gov., Camb., MA

Internships and Residencies N/A

Clinical and Research Fellowships N/A

Licensure and Certification N/A

Academic Appointments

1987-1993	Assistant Professor, Dept. of Environmental Medicine, New York University School of Medicine, New York City, NY.
1993-2006	Associate Professor (Tenured), Dept. of Environmental Medicine, New York University School of Medicine, New York City, NY.
2007-present	Professor (Tenured), Dept. of Environmental Medicine, New York University School of Medicine, New York City, NY.
2007-present	Affiliated Faculty, Environmental Studies Program, College of Arts and Sciences, New York University, New York City, NY.
2012-present	Affiliated Faculty, Marron Institute on Cities and the Urban Environment, New York University, New York City, NY
2012-present	Faculty Mentoring Champion, Dept. of Environmental Medicine, New York University School of Medicine, New York City, NY.

Hospital Appointments: N/A

Other Professional Positions and Visiting Appointments:

Oak Ridge Institute for Science and Education (ORISE) Fellow (2008-2010)

Major Administrative Responsibilities

<i>Year</i>	<i>Title, Place of Responsibility</i>
1995-2004	Director, Community Outreach and Environmental Education Program, NYU-NIEHS Center of Excellence, Nelson Inst. of Environ. Med., NYU School of Medicine, Tuxedo, NY
2002-2012	Deputy Director, NYU Particulate Matter Research Center, Nelson Inst. of Environmental Medicine, NYU School of Medicine, Tuxedo, NY
2007-2008	Director, Environmental Epidemiology Core, NYU-NIEHS Center of Excellence, Department of Environmental Medicine, Tuxedo, NY
2010-present	Co-Leader, Metals Research Focus Group, NYU-NIEHS Center of Excellence, Department of Environmental Medicine, Tuxedo, NY.
2012-present	Director, Program in Exposure Assessment and Human Health Effects, Department of Environmental Medicine, NYU School of Medicine.
2012-present	Chair, Appointments and Promotions Committee, Department of Environmental Medicine, NYU School of Medicine.

Teaching Experience

<i>Year</i>	<i>Name of course</i>	<i>Type of Teaching/Contact Hrs.</i>
1984-1994	Air Poll. Transport Modeling (G48.2048)	Course Director
2006-present	Weather, Air Pollution, and Health (G48.1010)	Course Director
1986-present	Aerosol Science (G48.2033)	Course Director
1984-2010	Environmental Contamination (G48.2305)	Lecturer
1984-present	Environ. Hygiene Measurements (G48.2035)	Lecturer/Lab
1990-1998	Environmental Toxicology (G48.1006)	Lecturer
1993-1995	Environmental Epidemiology I (G48.2039)	Lecturer
2001-2003	NYU Summer Institute, Wagner School	Lecturer
2006-present	Environmental Epidemiology I (G48.2039)	Lecturer
2006-present	Science, Health & Envir. Journalism (G54.1017.0)	Lecturer
2009-2011	Global Environmental Health (U10.2153.1)	Course Director
2009-2012	Global Issues in Environ. Health (G48.1011)	Course Director
2009-present	Earth Systems Science (undergrad) (V36.0200)	Lecturer
2011-present	Principles of Environmental Health (G48.1004)	Course Director
2013-present	Environ. Hygiene Measurements (G48.2035)	Course Co-Director

Awards and Honors

November 1999	Orange Environment Citizens Action Group, OE Award for Excellence in Translating Science to the Public
December 2000	NYU School of Medicine Dean's Research Incentive Award
October 2012	Recipient of the "Haagen Smit Prize" for Best Paper, <u>Atmospheric Environment</u> . http://geo.arc.nasa.gov/sgg/singh/winners12.html
March 2013	Recipient of the "Best Paper of the Year – Science" Award from <u>ES&T</u> http://pubs.acs.org/doi/full/10.1021/es400924t

Major Committee Assignments

New York University Committees

2007-present:	University Sustainability Task Force
2010-2012:	University Faculty Senate Alternate
2012-2013:	University Faculty Senator

NYU School of Medicine Departmental Committees

1992-1998:	Sterling Forest Library Committee, Member, NYU SOM Dept of Environ. Medicine
1991-1994	Health & Safety Committee, Member, NYU SOM Dept. of Environ.. Medicine

1992-2004 Community Outreach and Education Comm., Chairman, NYSOM Dept. of Environ. Med.
 1999-2004 Dept. Chairman's Internal Advisory Comm., Member, NYUSOM Dept. of Environ. Med.
 2005-present Dept. Academic Steering Committee, Member, NYUSOM Dept. of Environ. Medicine
 2007-2012 Dept. Appointments & Promotions Comm., Member, NYUSOM, Dept. of Environ. Medicine
 2012-present Dept. Appointments & Promotions Comm., Chair, NYUSOM, Dept. of Environ. Medicine

Advisory Committees

Regional

1983-1984 Massachusetts Acid Rain Advisory Board, Member, Mass. Dept. of Env. Protection
 1984-1986 Committee on Environ. And Occup. Health. , NY State American Lung Association
 1991-1996 Air Management Advisory Comm., Member of Health Effects Subcom., NY State DEC
 1995-1999 Engineering Advisory Board, Member, Tuxedo, NY
 1997-1998 Advisory Committee to the Mayor on the Port of Newburgh, Member, Newburgh, NY
 1996-1999 CUES Asthma Working Group, Member, New York Academy of Medicine
 2008-2010 New York City Community Air Study (NYCCAS) Advisory Panel

National

1995-1999 Comm. on Health Effects of Waste Incineration, Member, National Academy of Sciences
 1995-1999 National Air Conservation Commission, Member, American Lung Association
 2000-2004 National Action Panel on Environment, Member, American Lung Association
 2005-present National Clean Air Committee, Member, American Lung Association
 2007-2010 U.S. EPA Clean Air Science Advisory Committee (CASAC) for SO_x and NO_x
 Mar. 2012 EPA Panelist for "Kickoff Workshop to Inform EPA's Review of the Primary NO₂ NAAQS"

International

1996-1997 Sulfur in Gasoline Health and Environment Panel, Chairperson, Health Canada
 Sept. 2007 Illness Cost of Air Pollution Expert Committee, Canadian Medical Association
 2008-2012 Global Burden of Disease (GBD), Committee on the Human Health Effects of Outdoor Air Pollution, World Health Organization (WHO)

Grant Review Committees (National)

March 1989 EPA Air Chemistry and Physics Extramural Grants Review Panel (*ad hoc member*)
 Oct. 1989 NIEHS P30 Center Special Review Panel (*ad hoc member*)
 July 1992 NIH R01 Epidemiology & Disease Control Study Section (*ad hoc member*)
 Nov. 1992 NIEHS P20 Center Development Grant Special Study Section, (*ad hoc member*)
 June 1996 EPA Special Review Panel of the Health Effects Institute (HEI) (*ad hoc member*)
 March 1997 EPA Office of Res. and Development External Grant Review Panel (*ad hoc member*)
 April 1997 NIEHS Community-Based Participatory Res. R01 Special Study Sect. (*ad hoc member*)
 July 1997 EPA National Environ. Research Lab Intramural Research Review Panel (*ad hoc member*)
 June 1998 EPA Office of Res. and Development External Grant Review Panel (*ad hoc member*)
 July 1998 EPA Climate Policy and Programs Division Grant Application Review (*ad hoc member*)
 Oct. 1998 Mickey Leland Center for Air Toxics Grant Review Panel (*ad hoc member*)
 April 2000 NIEHS P30 Center Special Review Panel (*ad hoc member*)
 July 2001 NIEHS Community-Based Participatory Res. R01 Special Study Sect. (*ad hoc member*)
 Dec. 2001 NIEHS Program Project P01 Site Visit Review Panel (*ad hoc member*)
 April 2003 NIH R21 Fogarty Health, Env. and Economic Development Study Sect. (*ad hoc member*)
 Nov. 2003 U.S. EPA STAR Grant Panel (Epidemiologic Research on Health Effects of Long-Term Exposure to Ambient Particulate Matter and Other Air Pollutants) (*member*)
 October 2004 NIEHS Program Project P01 Review Panel (*ad hoc member*)
 June 2005 NIH Special Emphasis Panel (ZRG1 HOP Q 90 S) (*ad hoc member*)
 Nov. 2005 NIH Infectious Disease, Reproductive Health, Asthma/Allergy, and Pulmonary (IRAP) Conditions Study Section Review Panel (*ad hoc member*)

- Feb. 2006 NIH Infectious Disease, Reproductive Health, Asthma/Allergy, and Pulmonary (IRAP) Conditions Study Section Review Panel (*ad hoc member*)
- June 2006 NIH Infectious Disease, Reproductive Health, Asthma/Allergy, and Pulmonary (IRAP) Conditions Study Section Review Panel (*ad hoc member*)
- Dec. 2006 NIEHS Special Emphasis Panel on Genetics, Air Pollution, and Respiratory Effects (ZES1 TN-E FG P) (*member*)
- Nov. 2007 NIH Special Emphasis Panel on Community Participation in Research (ZRG1 HOP-S) (*member*)
- June 2009 NIH Study Section Review Panel on Challenge Grants in Health & Science Research
- March 2011 U.S. EPA Science to Achieve Results (STAR) Graduate Fellowship Review Panel – Clean Air Panel (*chair*)
- Sept. 2011 NIH Special Epidemiology Study Section (ZRG1 PSE K 02 M) (*member*)
- Oct. 2012 NIH Cardiac and Sleep Epidemiology (CASE) Study Section (*ad hoc member*)
- June 2013 NIH Special NHLBI Dataset Study Section (ZRG1 PSEQ 56) (*member*)
- July 2013 NIH “Career Awards” Study Section (ZES1 LWJ-D, K9) (*member*)
- Sept. 2013 Appointed Permanent Member, NIH Cardiac & Sleep Epid. (CASE) Study Section

Memberships, Offices, And Committee Assignments In Professional Societies

- | <i>Year</i> | <i>Society/Committees</i> |
|--------------|--|
| 1980-1996 | Air and Waste Management Association (Comm. on Health Effects and Exposure,) |
| 1992-Present | American Thoracic Society (ATS): Environmental and Occup. Health (EOH) Assembly, 1995-1999, 2012-present: ATS EOH Long Range Planning Committee; 1993-1994, 2002-2004: ATS Program Committee 2006-2007 Chairman of the ATS-EOH Nominating Committee 2010-present: ATS Environmental Health Policy Committee, member 2012-present: ATS Environmental Health Policy Committee, Vice-Chairman |
| 1990-present | International Society of Exposure Science |
| 1992-present | International Society for Environmental Epidemiology (Annual Meeting Program Committee: 1998, 2000, 2003, 2004, 2006) (ISEE Conference Planning Committee: 2006-present) |
| 2007-2009 | New York Academy of Sciences (membership given in appreciation for a 1/23/07 NYAS forum presentation) |

Editorial Positions

- | <u>Journal Board Membership</u> | |
|-----------------------------------|--|
| <i>Year</i> | <i>Name of Board</i> |
| 1993-2008 | International Society of Exposure Analysis (J. of Exp. Anal. and Environ. Epid.) |
| <u>Ad Hoc Manuscript Reviewer</u> | |
| <i>Years</i> | <i>Journal</i> |
| 1996-1998 | American Journal of Epidemiology |
| 1994 | Archives of Environmental Health |
| 1995-present | Atmospheric Environment |
| 1995-present | Environmental Health Perspectives |
| 1994-present | Environmental Research |
| 2004-present | Environmental Science and Technology |
| 2011-present | Epidemiology |
| 1993-present | Journal of Exposure Analysis and Environmental Epidemiology |
| 1994-present | Journal of the Air and Waste Management Association |

1996-present	Journal of the American Medical Association
1997-present	Journal of Occupational and Environmental Medicine
1997-present	Journal of Respiratory and Critical Care Medicine
2006-present	Thorax

Scientific Report Reviewer

August, 1986	Reviewer for the National Academy of Sciences, Board on Environmental Studies and Toxicology report “The Airliner Cabin Environment: Air Quality and Safety”
October, 2002	Reviewer for the NAS, Board on Environmental Studies and Toxicology report “Estimating the Public Health Benefits of Proposed Air Pollution Regulations”

Mentoring of Graduate Students, Residents, Post-Doctoral Fellows in Research

Under direct supervision:

<i>Student Name</i>	<i>Type of Position</i>	<i>Time Period</i>	<i>Present Position</i>
Mark Ostapczuk	Masters	1984-1986	Industrial Hyg., Barr Labs, Pomona, NJ
Kazuhiko Ito	Masters/Doctoral	1984-1990	Scientist, NYC Dept. of Health, NYC, NY
Peter Jaques	Masters/Doctoral	1988-1998	Assoc. Prof., Clarkson Univ., Potsdam, NY
R. Charon Gwynn	Masters/Doctoral	1992-1999	Epidemiologist, Columbia Univ., NY
Ramona Lall	Masters/Doctoral	2000-2007	Research Sci. IV, NYC Dept. of Health, NY
Ariel Spira-Cohen	Masters/Doctoral	2003-2009	Research Sci. III, NYC Dept. of Health, NY
Kevin Cromar	Masters/Doctoral	2008-2012	Assistant Professor, NYU School Of Medicine
Lital Yinon	Doctoral	2011-present	Doctoral Candidate, NYU School of Medicine

In advisory function (thesis committee):

<i>Student Name</i>	<i>Advisory Role</i>	<i>Time Period</i>	<i>Student’s Supervisor</i>
Shao-Keng Liang	Doctoral Committee member	1990-1994	Dr. J. Waldman, UMDNJ, Rutgers
Jerry Formisano	Doctoral Committee member	1997-2000	Dr. M. Lippmann, NYU SOM
Yair Hazi	Doctoral Committee member	1993-2001	Dr. B. Cohen, NYU SOM
Samantha Deleon	Doctoral Committee member	1997-2003	Dr. K Ito, NYU SOM
Chun Yi Wu	Doctoral Committee member	2000-2004	Dr. L.C. Chen, NYU SOM
Carlos Restrepo	Doctoral Committee member	2002-2004	Dr. R. Zimmerman, Wagner, NYU
Shaou-I Hsu	Doctoral Committee member	2000-2009	Dr. M. Lippmann, NYU-SOM
Steven Schauer	Doctoral Committee member	2007-2009	Dr. B. Cohen, NYU-SOM
Christine Ekenga	Doctoral Committee Chair	2009-2011	Dr. G. Friedman-Jimenez, NYU-SOM
Rebecca Gluskin	Doctoral Committee Chair	2009-2012	Dr. Kazuhiko Ito, NYU SOM
Jiang Zhou	Doctoral Committee Chair	2008-2012	Dr. Kazuhiko Ito, NYU SOM

Teaching Awards Received

N/A

Major Research Interests

- 1) Air Pollution Epidemiology: Real-world air pollution exposures and human health effects in the general population and study cohorts of suspected susceptible individuals (e.g., children).
- 2) Aerosol Science: Ambient particulate matter aerosol exposures, including designing and implementing air monitoring equipment to collect human exposures to air pollution.
- 3) Environmental Exposure Assessment: Methods to assess human exposures and health effects from air pollution, especially the development of source apportionment models to separate human effects

on the basis of pollution source. Design of epidemiological models/methods that better incorporate potential air pollution confounders/effect modifiers (e.g. weather and genetic influences).

Grants Received

Prior:

Agency	Title	Grant #	Period	Total Direct Costs	Role	% Effort
USEPA	Effects of Acute Exposure to Summertime Haze Episodes on the Health of Humans	R811563	05/01/84-09/30/87	\$538,586	Co-I	50%
NIH	Acid Aerosol Exposure: Effect on Respiratory Morbidity	R01 ES04612	09/25/87-08/31/92	\$846,966	PI	30%
USEPA	Acid Aerosol Chamber Experiments	OD2524AEX	7/2/90-7/31/90	\$5,810	PI	9%
USEPA	Analysis of Acid Aerosol Experiments	00422248NAEX	8/1/90-9/30/90	\$3,364	PI	5%
USEPA	Air Pollutants and Human Health	R814023	05/18/87-05/17/91	\$690,921	CO-I	50%
USEPA	Development and Field Application of an Automated Sequential Weekly Average H+ Sampler	Subcontract to EPA Grant CR816740-03	6/1/92-2/28/93	\$13,156.	PI	15%
NIH	Acid Aerosol Exposure: Effect on Respiratory Morbidity	R01 ES04612	09/01/92-08/31/95	\$377,298.	PI	30%
HEI	Retrospective Characterization of Ozone Exposures	Health Effects Institute Grant	11/1/93-10/31/94	\$98,238	CO-I	10%
NIH	Temperature and Air Pollution Effects on Human Mortality	R01 ES05711	6/1/92-5/31/93	\$371,993	PI	30%
NYUSOM	Environmental Effects on Human Mortality and Morbidity	Bridge Grant	9/1/95-8/31/96	\$48,400	PI	-
USEPA	Effects of Exposure to Ambient Air Pollutants on Human Health	R808325	10/1/91-09/30/96	\$870,565	CO-I	50%
USEPA	Investigation of Acid Aerosol Exposures in Metropolitan Settings	Subcontract to Grant No. CR822050	11/1/93-10/31/96	\$200,499	PI	10%
USEPA	An Evaluation of Potential Confounders in PM10 Mortality Associations	R825271	11/25/96-11/24/01	\$219,410	CO-I	10%
USEPA	Acidic PM and Daily Human Mortality in Three U.S. Cities	#R825264	11/25/96-11/24/00	\$232,671	PI	15%
NYS-ERDA	Environmental Monitoring, Evaluation, and Protection Program	6084-ERTER-ES00	12/01/99-11/30/02	\$341,926	PI	20%
HEI	Children's Asthma Incidence and Personal Exposures to Diesel Particles and Traffic in NYC		01/01/02-12/31/02	\$154,800	PI	30%
USEPA	Influence of Alternate Indicators of Exposure to PM and PM Components in Statistical Associations with Mortality and	R827358	03/01/99-02/28/03	\$183,089	PI	30%

	Hospital Admissions					
NIH	NIEHS Center Supplement: Health Issues Related to the World Trade Center Disaster, Outreach Project	ES00260-S1	04/01/02-03/31/03	Total=\$ 936,487 Outreach=\$172,031	Co-PI PI	10% 15%
NIH	Effects of Ambient Air Pollutants on Annual Mortality	RO1 ES09560	9/15/99-8/31/03	\$471,408	PI	30%
USEPA	Particle Exposures of High-Risk Sub Populations	R827164	10/01/98-09/30/03	\$1,327,240	Co-I	10%
USEPA	A Source Oriented Evaluation of the Combined Effects of Fine Particles and Co-pollutants	R827997	02/01/00-01/31/04	\$291,407	Co-I	15%
NIH	NIEHS Center Grant: Outreach and Education Program	ES00260	04/01/00-03/31/05	Total=\$5,000,000 Outreach=\$240,365	Co-I PI	5% 5%
USEPA	EPA PM Health Effects Center Project 6: "A Prospective Study of Asthma Susceptibility to PM Epidemiologic Investigations of Key PM Components and Biomarkers of Effects & Community Outreach Project	R827351	06/01/99-05/31/05	Total=\$6,000,000 Project 6=\$134,923 Outreach=\$77,779	Co-PI PI PI	15% 10% 10%
NIH	Genetic/Epigenetic Susceptibility to Superfund Chemicals: Outreach Project	ES010344	05/08/00-03/31/06	\$156,812	Co-I	5%
USEPA	Env. Issues in the South Bronx. Thurston Project: S. Bronx Backpack Study	X1982152	08/01/00-09/30/06	Total=\$921,922 Project=\$307,131	CO-I PI	5% 15%
NIH	NIEHS Center Supplement: Health Issues Related to the World Trade Center Disaster, Source Attribution (Project 4) & Community Outreach	ES00260-S2	04/01/02-03/31/04	Total=\$660,000 Project 4=\$69,999 Outreach=\$172,031	Co-PI PI PI	10% 10% 15%
USEPA	The role of traffic-related pollution in PM health effects associations among inner-city children with asthma	16511	09/01/06-08/31/09	\$51,516	PI	-
California Air Resources Board (CARB)	Spatio-temporal Analysis of Air Pollution and Mortality in California Based Upon the ACS Cohort (Thurston: Consulting Project)		06/01/07-5/31/10	Project=\$13,634	Co-I	4%
USEPA	Real time modeling of weather, air pollution, health outcome indicators in NYC.	RD-83362301-0	12/07-11/10	\$130,496	Co-I	5%
NIH	Fine Particles and Out-of-Hospital Cardiac Arrest in New York City	R01ES014387-01A2	04/09-12/11	\$200,000	Co-I	10%
Health Effects Institute (HEI)	Characteristics of PM Associated with Health Effects. <i>Thurston Project</i> : "Study Of PM Components and U.S. Human Mortality In The ACS Cohort.	4750	01/01/07-3/31/11	Total=\$3,247,567 Project=\$355,920	Co-I PI	5% 20%

Current:

Agency	Title	Grant #	Period	Total Direct Costs	Role	% Effort
New York State DOT	Mobile Source Air Toxics (MSATs) Mitigation Measures		09/01/10 06/31/13	SubProject=\$89,062	Co-I	10%
Robert Wood Johnson Foundation	The Effect of Peak-Shaving Regulations on the Activity, Toxic Emissions, and Health Impacts of Local Power Plants	Public Health Law Research	1/12- 7/13	\$151,500	Co-I	10%
NIH	Long-term Air Pollution Exposure and Mortality in the NIH-AARP Cohort.	R01ES019584 -01A1	1/01/12- 6/30/16	\$1,221,253	MPI (Contact PI)	20%
The Public Health Research Institute of Abu Dhabi	Development of a Public Health Research Institute in Abu Dhabi. <i>Thurston Project: "Air Pollution in Abu Dhabi"</i> .		3/2012- 2/2017	\$9,993,960	Co-I	10%
NIH	Dietary Influence on Mortality from Air Pollution Exposure in the NIH-AARP Cohort (R21)	1R21ES02119 4-01	7/12- 6/14	\$150,000	MPI (Contact PI)	8%

Patents

None

Boards and Community Organizations

1990-1995 St. Mary's Episcopal Church, Tuxedo, NY, Vestry member
1992-2008 Monroe-Woodbury Soccer Club, Coach (Board Member: 1999-2000)
1994-1999 Orange County Citizen's Foundation, Member
1999-2009 Y2CARE Monroe-Woodbury, NY School District Residents Action Group, Founder
2005-present St. Mary's Episcopal Church, Tuxedo, NY, Community Outreach Committee, Member
2006-present EPISCOBUILD-Newburgh, NY Habitat for Humanity Advisory Board, Member
2012-present St. Mary's Episcopal Church, Tuxedo, NY, Vestry member

Military Service

None

International Scientific Meetings Organized

May 28-30, 2003 "Workshop on the Source Apportionment of PM Health Effects." U.S. EPA PM Centers, Harriman, NY.
Aug. 1-4, 2004 "Sixteenth Conference of the International Society for Environmental Epidemiology," Kimmel Conference Center, Washington Square, New York University, New York City, NY.

Scientific Forums for the Public Organized

June 2001 "Science and Community Interaction Forum on the Environment." Held at Hostos Community College, Bronx, , New York City, NY.
October 2001 "Forum on Environmental Health Issues Related to the World Trade Center Disaster." Held at NYU Law School, Washington Square, New York City, NY.

- October 2002 “2nd Annual Forum on the Environmental Health Issues Related to the World Trade Center Disaster.” Held at Manhattan Borough Community College, New York City, NY.
- October 2003 “3rd Annual Forum on the Environmental Health Issues Related to the World Trade Center Disaster.” Held at NYU Lower Manhattan Campus, New York City, NY.

Invited U.S. House and Senate Congressional Testimony

- Feb. 5, 1997 “Human Health Effects of Ambient Ozone Exposures” Statement before the Committee on Environment and Public Works, Subcommittee On Clean Air, Wetlands, Private Property, And Nuclear Safety, U.S. Senate, Washington, DC.
<http://epw.senate.gov/105th/thurston.htm>
- April 16, 1997 “Human Health Effects of Ambient Ozone and Particulate Matter Exposures.” Statement before the Government Reform and Oversight Committee of the U.S. House of Representatives, Washington, D.C.
- May 8, 1997 “Human Health Effects of Ambient Ozone and Particulate Matter Exposures.” Statement before the Subcommittee on Health and Environment, Committee on Commerce of U.S. House of Representatives, Washington, D.C.
- July 29, 1997, “The Human Health Effects of Ambient Ozone And Particulate Matter Air Pollution.” Statement before the Subcommittee on Commercial and Administrative Law of the Judiciary Committee of the U.S. House of Representatives, Washington, D.C.
<http://judiciary.house.gov/legacy/commercial.htm>
- October 22, 1997 “Ozone and Particulate Matter Air Pollution Health Effects.” Statement before the U.S. Senate Committee on Environment and Public Works Subcommittee on Clean Air, Wetlands, Private Property, and Nuclear Safety. Washington, DC.
<http://epw.senate.gov/105th/thursto2.htm>
- July 15, 1999: “The Mandated Release of Government-Funded Research Data.” Statement before the Committee On Government Reform, Subcommittee on Government Management, Information And Technology, U.S. House of Representatives
- July 26, 2001 “The Human Health Effects Of Air Pollution From Utility Power Plants.” Statement before the Committee on Environment and Public Works, U.S. Senate, Washington, D.C.
<http://www.c-spanvideo.org/program/PlantE>
- Feb 11, 2002: “The Air Pollution Effects of The World Trade Center Disaster.” Statement before the Committee On Environment And Public Works, Subcommittee On Clean Air, Wetlands, And Climate Change. United States Senate, New York, NY.
<http://www.c-spanvideo.org/program/Qualitya>
- March 5, 2002 “The Use of the Nationwide Registries to Assess Environmental Health Effects.” Statement before the Committee On Health, Education, Labor, And Pensions, Subcommittee On Public Health, U.S. Senate, Washington, DC.
- Sept. 3, 2002 “The Clean Air Act and The Human Health Effects of Air Pollution from Utility Power Plants.” Statement before the U.S. Senate Committee on Health, Education, Labor, and Pensions, Subcommittee on Public Health, Washington, D.C. <http://www.c-spanvideo.org/program/AirStand>
- April 1, 2004 “The Human Health Benefits Of Meeting the Ambient Ozone And Particulate Matter Air Quality Standards.” Statement before the Committee on Environment and Public Works, Subcommittee on Clean Air, Climate Change, and Nuclear Safety, U.S. Senate, Washington, D.C.
<http://epw.senate.gov/epwmultimedia/epw040104.ram>

- July 19, 2006 [“The Science And Risk Assessment Of Particulate Matter \(PM\) Air Pollution Health Effects.”](#) Statement before the Committee on Environment and Public Works, U.S. Senate, Washington, D.C.
<http://epw.senate.gov/hearingstatements.cfm?id=258766>
- May 7, 2008 [“Science And Environmental Regulatory Decisions.”](#) Statement before the Committee On Environment And Public Works of The U.S. Senate, Subcommittee on Public Sector Solutions to Global Warming, Oversight, and Children’s Health Protection, U.S. Senate, Washington, D.C.
<http://www.c-spanvideo.org/program/RegulatoryD>
<http://epw.senate.gov/public/index.cfm?FuseAction=Hearings.Hearing&HearingID=a1954f70-802a-23ad-4192-fc2995dda7f4>
- October 4, 2011 [“The Science of Air Pollution Health Effects and the Role of CASAC in EPA Standard Setting”](#) Statement before the Subcommittee on Energy and the Environment, Committee on Science, Space and Technology, U.S. House Of Representatives, Washington, DC.
<http://science.house.gov/hearing/energy-and-environment-subcommittee---hearing-quality-science-quality-air>

Other Invited Presentations

Regional Presentations

- April 21, 1993 [“Summertime Smog and Hospital Admissions for Respiratory Illness”](#), Environmental and Occupational Health Sciences Institute Seminar Series Lecture, UMDNJ-Robert Wood Johnson Medical School, Piscataway, NJ.
- Dec .14, 1995 [“Health Effects of Acidic Aerosols”](#), NY State Dept. of Health, Wadsworth Center Seminar, Albany, NY
- Jan. 18, 1996 [“Outdoor Air Pollution and Asthma in Children](#) “ American Lung Association Press Briefing, New York, NY.
- June 1, 1996 [“Asthma and Urban Air Pollution”](#), WHEACT, Harlem Hospital, New York, NY.
- July17, 1996 [“Asthma and Outdoor Air Pollution”](#), Making the Connection: Urban Air Toxics & Public Health. Northeast States for Coordinated Air Use Management (NESCAUM), Roxbury, MA
- Feb. 11, 1997 [“Outdoor Air Pollution and Asthma”](#),_Bellevue Hospital Asthma Clinic *Grand Rounds*. New York City, NY.
- Feb. 26, 1998 [“Scientific Research for Ozone and Fine Particulate Standards “](#), Pace University School of Law, White Plains, NY
- Nov. 30, 1998 [“Outdoor Air Pollution and Asthma”](#), Center for Urban and Environmental Studies (CUES), NY Academy of Medicine,, New York, NY
- Feb. 22, 1999 [“Asthma and Air Pollution”](#), Cornell University, Ithaca, NY
- April 28, 2001 [“Asthma and Air Pollution in New York City”](#), NYC Council Environmental Candidate School, NY League of Conservation Voters, New York, NY.
- Nov. 1, 2001 [“Air Quality and Environmental Impacts Due to the World Trade Center Disaster”](#), Testimony before the Comm. on Environ. Protection, NYC Council, New York, NY.
- Nov. 13, 2001 [“WTC Pollution Impacts in Lower Manhattan”](#), Stuyvesant High School Parents Association General Meeting, Stuyvesant High School, New York, NY
- Feb. 28, 2002 [“Lung Cancer Effects of Long-Term Exposure to Ambient Fine Particulate Matter”](#), Mailman School of Public Health, Columbia University, New York, NY.
- April 5, 2002 [“Air Pollution Impacts of the WTC Disaster”](#), 23rd Annual Scientific Conference of the NY/NJ Education and Research Center: "Worker Health and Safety: Lessons Learned in the Aftermath of Sept. 11, 2001," Mt. Sinai School of Medicine, NYC, NY

- April 21, 2002 “Adverse Health Effects of Power Plant Air Pollution on Children” Earth Day 2002, 14th Street Y, New York City, NY.
- May 23, 2002 “Human Health Effects of Power Plant Pollution”, Rockland County Conservation Association, Suffern, NY
- May 31, 2002 “Environmental Health Impacts of the World Trade Center Disaster”, University of Rochester Medical School, Rochester, NY.
- Sept. 19, 2002 “Community Air Pollution Related to the World Trade Center Disaster”. NYC Council Forum: The Environmental Health Consequences of 9/11: Where Do We Stand One Year Later? Borough of Manhattan Community College, New York City, NY.
- Oct. 3, 2002 “Community Exposures to Particulate Matter Air Pollution from the World Trade Center Disaster”, Mount Sinai School of Medicine *Grand Rounds*, New York City, NY.
- April 11, 2003 “Environmental Impacts of the World Trade Center Disaster”, NIEHS Public Interest Liaison Group, New York City, NY.
- April 21, 2003 “Asthma and Air Pollution”, Airborne Threats to Human Health, NIEHS Town Hall Meeting, Syracuse, NY.
- May 7, 2003 “Asthma and Air Pollution in NY City” Environmental Candidate School for New York City Council Candidates, Wagner School, NYU, New York City, NY.
- July 21, 2003 “Health Effects of Particulate Matter Air Pollution”, Ozone Transport Commission, Philadelphia, PA.
- Nov. 18, 2004 “Ambient Air Pollution Particulate Matter (PM): Sources and Health Impacts”. U.S. Environmental Protection Agency, Region 2, New York City, NY.
- Feb. 17, 2005 “Community Air Pollution Aspects Of The Demolition Of 9-11 Contaminated Buildings”. Testimony before the Committee On Lower Manhattan Redevelopment, New York City Council, New York City, NY.
- Oct. 19, 2005 Air Pollution Health Effects: Consideration of Mixtures. Fall Meeting of the Mid-Atlantic Chapter of the Society of Toxicology (MASOT), East Brunswick, NJ.
- Dec. 7, 2006 Asthma and Air Pollution Effects in the South Bronx. New York City Child Health Forum, The Children’s health Fund, Harlem, NYC, NY.
- Jan. 18, 2007 Air Pollution Effects in New York City. NYU Environmental Sciences Seminar Lecture, Washington Square, NYC, NY.
- Jan. 23, 2007 The South Bronx Backpack Study: Asthma and Air Pollution in NYC. Presented at the forum "High Asthma Rates in the Bronx: What Science Now Knows and Needs to Learn." New York Academy of Sciences, 7 World Trade Center, NYC, NY.
- Oct. 2, 2009 “Diesel Air Pollution and Asthma in New York City”. Brown Superfund Research Program. <http://www.brown.edu/Research/SRP/thurston%20oct%202.pdf> , Brown University, Providence, RI.
- June 19, 2012 “The Backpack Study of Asthma and Diesel Air Pollution in the South Bronx”. Region 1 U.S. EPA, Citizen Science Workshop, New York City, NY.

National Presentations

- Oct. 20, 1987. NIEHS Symposium on the Health Effects of Acid Aerosols: “Re-examination of London, England, Mortality in Relation to Exposure to Acidic Aerosols During 1963-1972 Winters” RTP, NC.
- Aug. 13, 1991 “Kuwait Mortality Risks from SO₂ and Particles: Insights from the London Fogs” The Kuwait Oil Fires Conf., American Academy of Arts and Sciences, Cambridge, MA.
- Jan. 24, 1994 “Air Pollution Epidemiology: Is the Model the Message?” The First Colloquium on Particulate Air Pollution and Human Morbidity and Mortality”. Beckman Center of the NAS, Irvine, CA.

- May 23, 1994 “Epidemiological and Field Studies”. American Thoracic Society Annual Meeting, Boston, MA.
- May 25, 1994 “Epidemiological Evidence Linking Outdoor Air Pollution and Increased Hospital Admissions for Respiratory Ailments” American Thoracic Society Annual Meeting, Boston, MA.
- May 6, 1996 “Associations Between PM₁₀ & Mortality in Multiple US Cities”. Second Colloquium on Particulate Air Pollution and Health. Park City, Utah.
- Sept. 5, 1996 “Particulate Matter Exposure Issues for Epidemiology” U.S. EPA Particulate Matter Workshop, RTP, NC
- April 3, 1997 “Health Effects of Ambient Ozone & Particulate Matter” Air and Waste Assoc. Regional Conference On Impacts of EPA’s Proposed Changes to Ozone and PM Standards, Oak Brook, IL
- April 22, 1998 “The New EPA Standards for Ambient PM and Ozone” American Lung Association Annual Meeting, Chicago, IL.
- Dec. 21, 1999 “Global Overview of Human Death and Illness due to Air Pollution”. California Air Resources, Sacramento, CA.
- March 24, 2000 “Estimating Ancillary Impacts, Benefits and Costs Of Proposed GHG Mitigation Policies For Public Health” Resources for the Future, Wash., DC.
- June 24, 2002 “Investigations Into the Environmental Health Impacts Related to the WTC Disaster” Air And Waste Management Annual Meeting, Baltimore, MD.
- July 15, 2002 “Air Pollution and Human Health” NIEHS Built Environment Conference, RTP, NC
- July 26, 2002 “The Human Health Effects of Power Plant Emissions and Associated Air Pollution”, The Environment & Health Forum, Physicians for Social Responsibility, Washington, DC.
- October 7, 2002 “Community Exposures to Particulate Matter Air Pollution from the World Trade Center Disaster” Plenary Speaker at the American Association for Aerosol Research, Charlottesville, North Carolina.
- Nov. 11, 2002 “Characterization of Community Exposures to World Trade Center Disaster Airborne and Settled Dust Particulate Matter Air Pollution”, American Public Health Association Annual Meeting, Philadelphia, PA.
- Dec. 5, 2002 “Susceptibility of Older Adults to Air Pollution”, EPA Workshop on Differential Susceptibility of Older People to Environmental Hazards. National Academy of Sciences, Washington, DC.
- Feb. 3, 2003 “Health Effects of Particulate Matter Air Pollution”, National Air Quality Conference, U.S. EPA, San Antonio, Texas
- May 17, 2003 “Assessing the Influence of Particle Sources and Characteristics on Adverse Health Effects of PM”, PG18 - New Tools to Evaluate the Health Effects of Air Pollution in Epidemiologic Studies. American Thoracic Society Annual Meeting, Seattle, WA.
- Sep. 10, 2003 “Nature and impact of World Trade Center Disaster fine particulate matter air pollution at a site in Lower Manhattan after September 11.” Annual Meeting of the American Chemical Society, New York, NY.
- October 20, 2003 “Translating Air Pollution Risks to the Community” Annual Meeting of the NIEHS Center Directors, Baltimore, MD.
- May 18, 2004 “The Health Imperative for Implementation of the Clean Air Act” State and Territorial Air Pollution Program Administrators/ Association of Local Air Pollution Control Officials (STAPPA/ALAPCO) National Conference, Point Clear, Alabama.
- Oct. 18, 2004 “NIEHS Centers’ Investigations of the World Trade Center Collapse Pollution Exposures and Effects: A Public Health Collaboration” National Institute of Environmental Health Sciences Center Directors’ Meeting, Research Triangle Park, NC.

- May 25, 2005 “Human Health Effects Associated with Sulfate Aerosols”, American Thoracic Society Annual Meeting, San Diego, CA
- Oct. 24, 2005 “The Science Behind the Particulate Matter (PM) Standards” State and Territorial Air Pollution Program Administrators/ Association of Local Air Pollution Control Officials (STAPPA/ALAPCO) National Conference, Alexandria, Virginia.
- Oct. 14, 2008 “Diesel Air Pollution and Asthma Exacerbations in a Group of Children with Asthma” Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Pasadena, California.
- Feb. 26, 2010 “What studies are appropriate to use to estimate health impacts from specific sources such as diesel PM?” CARB Symposium: “*Estimating Premature Deaths from Long-term Exposure to PM_{2.5}*”. Sacramento, CA.
- May 6, 2011 “Lung Cancer Risks from Exposure to Fine Particle Air Pollution” NYU Cancer Institute Symposium: “Cancer and the Environment”, NYC, NY.
- May 16, 2012 “The Human Health Effects of Air Pollution” The Air We Breathe: Regional Summit on Asthma and Environment at Allegheny General Hospital, Pittsburgh, PA.
- June 20, 2013 “Particles in our Air: A Global Health Risk”, Northeastern University, Research Seminar. Boston, MA.

International Presentations

- May 1, 1987 “Acid Aerosols: Their Origins, Occurrence, and Possible Health Effects”, Canadian Environmental Health Directorate Seminar, Health and Welfare Canada, Ottawa, Canada
- July 2, 1987 “Health Effects of Air Pollution in the US”, University of Sao Paulo, Sao Paulo, Brasil
- Feb. 5, 1991 “Results from the Analysis of Toronto Summer Sulfate and Aerosol and Acidity Data”, Workshop on Current Use and Future Directions of Hospital-Based Data in the Assessment of the Effects of Ambient Air Pollution on Human Health. Health and Welfare Canada, Ottawa, Canada.
- April 23, 1997 “An Evaluation of the Role of Acid Aerosols in Particulate Matter Health Effects”, Conference on the Health Effects of Particulate Matter in Ambient Air. Air & Waste Management Association, Prague, Czech Republic.
- May 12, 1998 “The Health Effects of PM and Ozone Air Pollution”, Air Pollution: Effects on Ontario’s Health and Environment. Ontario Medical Association, Toronto, Canada
- Nov. 1, 1999 “Climate Change and the Health Impacts of Air Pollution”. The Public Health Opportunities and Hazards of Global Warming Workshop at the U.N. Framework Convention on Climate Change, Conference of Parties (COP5), Bonn, Germany.
- August 31, 2000 “Particulate Matter Air Pollution and Health in three Northeastern Cities”, World Congress on Lung Health, Florence, Italy
- January 29, 2001 “PM Exposure Assessment and Epidemiology”, NERAM International Colloquia: Health and Air Quality: Interpreting Science for Decision Makers. Ottawa, Canada.
- Feb. 4-5, 2002: “Air Pollution Exposure Assessment Approaches in U.S. Long-Term Health Studies”, Workshop on Exposure Assessment in Studies on the Chronic Effects of Long-term Exposure to Air Pollution, World Health Organization, Bonn, Germany
- May 2, 2002 “Health Effects of Sulfate Air Pollution” Air Pollution as a Climate Forcing Workshop, East-West Center, Honolulu, Hawaii
- Sept. 24, 2003 “Identification and Characterization of World Trade Center Disaster Fine Particulate Matter Air Pollution at a Site in Lower Manhattan Following September 11.” Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Perth, Australia.
- Dec. 1, 2003 “Terrorism and the Pulmonary Effects of the World Trade Center Disaster Particulate Matter Air Pollution”, British Thoracic Society, London, England.

- Sept 14, 2005 “Results And Implications of The Workshop on the Source Apportionment of PM Health Effects”, Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Johannesburg, South Africa.
- Sept. 4, 2006 “A Source Apportionment of U.S. Fine Particulate Matter Pollution for Health Effects Analysis”, Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Paris, France.
- Sept. 4, 2007 “Applying Attributable Risk Methods to Identify Susceptible Subpopulations”, Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Mexico City, Mexico.
- Aug. 27, 2009 “Ischemic Heart Disease Mortality Associations with Long-Term Exposure to PM_{2.5} Components”, Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Dublin, Ireland.
- Dec. 1, 2010 "The Hidden Air Quality Health Benefits of Climate Change Mitigation". The Energy and Resources Institute (TERI), Lodhi Road, New Delhi, India.
- July 17, 2012 “Recent Findings on the Mechanisms and Health Risks of Particulate Matter Air Pollution”, European Centre for Environment & Human Health, Truro, England.
- Aug. 29, 2012 “Health Effects of PM Components: NYU NPACT Epidemiology Results and their Integration with Toxicology Results”, Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Columbia, SC.
- May 20, 2013 “Long-term PM_{2.5} Exposure and Mortality in the NIH-AARP Cohort”, Annual Meeting of the American Thoracic Society (ATS). Philadelphia, PA.
- Oct. 27, 2013 “Human Health Effects and Global Implications of Particle Air Pollution”, Center of Excellence in Exposure Science and Environ. Health, Technion University, Haifa, Israel.

Scientific Meeting Sessions Chaired

- May 1, 1996 “Epidemiological Findings”, 2nd Colloquium on Particulate Air Pollution & Health. Park City, UT.
- May 14, 1996 “Particulate Toxicity”, American Thoracic Society Annual Meeting, New Orleans, LA.
- Jan. 30, 1998 “Evaluation of PM Measurement Methods”. PM_{2.5}: A Fine Particulate Standard Specialty Conference. Los Angeles, CA.
- August 18, 1998 “Communities and Airports: How to Co-Exist?”, Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Boston, MA.
- April 28, 1998 “Clean Air Act Update”, American Thoracic Society Annual Meeting, Chicago, IL.
- Oct. 21, 1998 “Health Effects and Regulatory Issues in PM”, Particulate Methodology Workshop, U.S. EPA Center, for Statistics and the Env., Univ. of Washington, Seattle, WA.
- April 26, 1999 “Pulmonary Smoking and Air Pollution Epidemiology.” American Thoracic Society Annual Meeting, San Diego, CA
- Sept. 6, 1999 “Personal exposures to Gases and Particles”, Annual Conference of the International Society for Environmental Epidemiology (ISEE), Athens, Greece.
- March 31, 2000 “Epidemiology: Particles, Co-pollutants & Morbidity and Mortality”, Workshop on Inhaled Environmental/Occupational Irritants and Allergens: Mechanisms of Cardiovascular Responses, American Thoracic Society, Scottsdale, AZ
- Jan. 26, 2000 “Epidemiology of Particulate Matter Air Pollution”, PM2000 Specialty Conference, Air & Waste Management Assoc., Charleston, SC
- May 8, 2000 “Outdoor Air Pollution: Epidemiologic Studies”, American Thoracic Society Annual Meeting, Toronto, Canada
- Sept. 5, 2001 “Mortality Epidemiology Studies”, Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Garmisch, Germany.

- May 20, 2002 "After September 11: Bio-terrorism and The Environmental Health Aftermath of The World Trade Center Disaster", Plenary Session. American Thoracic Society Annual Meeting, Atlanta, GA.
- April 1, 2003 "Epidemiology: Short-Term and Long-Term Health Effects", Conference on Particulate Matter: Atmospheric Sciences, Exposure, and the Fourth Colloquium on PM and Human Health, Pittsburgh, PA
- May 19, 2003 "Particulate Air Pollution and Diseases in Adults", American Thoracic Society Annual Meeting, Seattle, WA.
- May 21, 2003 "Air Pollution as a Cause of Childhood Asthma and Chronic Airway Disease", American Thoracic Society Annual Meeting, Seattle, WA.
- Sept. 2003 "Unexplained Medical Symptoms", Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Perth, Australia.
- Sept. 25, 2005 "Technology and Health", Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Johannesburg, South Africa.
- June 22, 2006 "Characteristics of PM and Related Considerations", Annual Meeting of the Air and Waste Management Association, New Orleans, LA.
- Sept. 3, 2006 "Air Pollution Mechanisms", Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Paris, France.
- Sept. 20, 2006 "Linkage and Analysis of Air Quality and Health Data", EPA & CDC Symposium on Air Pollution Exposure and Health, RTP, NC
- Sept. 5, 2007 "Radiation Exposures and Health Risks", 2007 Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Mexico City, Mexico
- Aug. 26, 2009 "Exploring the Range of Methodological Approaches Available for Environmental Epidemiology." 2009 Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Dublin, Ireland
- March 23, 2010 "Exposure to and Health Effects of Traffic Pollution", 2010 American Association for Aerosol Research Conference on Air Pollution and Health, San Diego, CA.
- Sept. 16, 2011 "Susceptibility to Air Pollution", 2011 Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Barcelona, Spain.
- Aug. 27, 2012 "Source Apportionment Of Outdoor Air Pollution: Searching For Culprits". 2012 Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Columbia, SC.
- Aug. 21, 2013 "Source-specific health effects of air pollution". 2013 Annual Meeting of the International Society for Environmental Epidemiology (ISEE). Basel, Switzerland.

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Invited Journal Editorials

- Thurston GD and Bates DM, Air Pollution as an Underappreciated Cause of Asthma Symptoms, 2003. JAMA, 290:14, pp. 1915-1916 (2003).
- Thurston G.D. (2006). Hospital admissions and fine particulate air pollution. JAMA. Oct 25; 296(16):1966.
- Thurston G. (2007). Air pollution, human health, climate change and you. Thorax. 2007 Sep; 62 (9): 748-9.
- Thurston GD, Balmes JR; Particulate matter and the environmental protection agency: setting the right standard. Environmental Health Policy Committee of the American Thoracic Society. Am J Respir Cell Mol Biol. 2012 Dec;47(6):727-8. doi: 10.1165/rcmb.2012-0414ED.
- Thurston GD. (2013). Mitigation Policy: Health Co-Benefits. Nature Climate Change. Oct. (3) 863-864.

Book Chapters

- Thurston, G.D. and Leber, M. The relationship between asthma and air pollution. In: *Emergency Asthma* (ed.: B. Brenner), pp. 127-144. Marcel-Dekker, New York, NY (1999).
- Thurston, G.D. and Ito, K. Epidemiological studies of ozone exposure effects. In: *Air Pollution and Health* (ed.: S. Holgate and H. Koren). Academic Press. London. pp. 485-510 (1999).
- Chen, LC, Thurston, G, and Schlesinger, RB. Acid Aerosols as a Health Hazard. In: *Air Pollution and Health* (ed.: J. Ayres, R. Maynard, and R. Richards). Air Pollution reviews: Vol. 3. Imperial College Press. London. pp. 111-161 (2006).
- Thurston, G.D. and Wallace, L. Air Pollution: Outdoor and Indoor Sources. In: *Environmental and Occupational Medicine*, 4th Edition (Eds.: W. Rom and S. Markowitz). Lippincott, Williams, and Wilkins, Philadelphia (2006).
- Thurston, G.D. Air Pollution. In: *Encyclopedia of Public Health* (ed. K. Heggenhougen) Elsevier Press. (2007).
- Thurston, G.D and Bell, M. Aerosols, global climate, and the human health co-benefits of climate change mitigation. In *Aerosol Handbook* (2nd edition, in press) (eds.: Lev S. Ruzer and Naomi H. Harley). CRC Press (2012).
- Thurston, G. and Bell, M. The Human Health Co-benefits of Air Quality Improvements Associated with Climate Change Mitigation. In. *Global Climate Change and Public Health* (eds. Kent E. Pinkerton and William N. Rom). Humana Press (2013).

National Academy Committee Books Co-Authored

National Research Council (NRC), *Waste Incineration & Public Health*. Committee on Health Effects of Waste Incineration. Board on Environmental Studies and Toxicology. National Academy Press, Washington, DC (2000).

International Reports Co-Authored

- Health Canada, *Health and Environmental Impact Assessment Panel Report*, "Joint Industry/Government Study: Sulfur in Gasoline and Diesel Fuels". Ottawa, Canada. (1997).
- World Health Organization (WHO), *Exposure assessment in studies on the chronic effects of long-term exposure to air pollution*. Report EUR/03/5039759. Geneva, Switzerland (2003).

Peer Reviewed Journal Articles/Letters

- Thurston, G.D. General Discussion: Atmospheric dispersion modeling - A critical review. *J. Air Pollut. Control Assoc.* 29: 939 (1979).
- Thurston, G.D. Discussion of multivariate analysis of particulate sulfate and other air quality variables by principal components - part I. Annual data from Los Angeles and New York. *Atmos. Environ.* 15: 424-425 (1981).
- Thurston, G.D., J.D. Spengler and P.J. Samson. An assessment of the relationship between regional pollution transport and trace elements using wind trajectory analysis. *Receptor Models Applied to Contemporary Pollution Problems*, Ed. E. Frederick, Air Pollution Control Association, Pittsburgh, PA (1982).
- Spengler, J.D. and G.D. Thurston. Mass and elemental composition of fine and coarse particles in six U.S. cities. *J. Air Poll. Control Assoc.* 33: 1162-1171 (1983).
- Currie, L., R. Gerlach, C. Lewis, W.D. Balfour, J. Cooper, S. Dattner, R. DeCesar, G. Gordon, S. Heisler, P. Hopke, J. Shah and G. Thurston. Inter-laboratory comparison of source apportionment procedures: Results for simulated data sets. *Atmos. Environ.* 18: 1517-1537 (1984).
- Thurston, G.D. and J.D. Spengler. A quantitative assessment of source contributions to inhalable particulate matter in metropolitan Boston, Massachusetts. *Atmos. Environ.* 19: 9-25 (1985).
- Thurston, G.D. and N.M. Laird. Letters: Tracing aerosol pollution. *Science* 227: 1406-1407 (1985).

- Thurston, G.D. and J.D. Spengler. A multivariate assessment of meteorological influences on inhalable particle source impacts. *J. Clim. and Appl. Met.* 24: 1245-1256 (1985).
- Ozkaynak, H., J.D. Spengler, A. Garsd and G.D. Thurston. Assessment of population health risks resulting from exposures to airborne particles. *Aerosols: Second U.S.-Dutch International Symposium*, Lewis Publishing Co., December 1985 (Peer Reviewed).
- Ozkaynak, H., A.D. Schatz, G.D. Thurston, R.G. Isaacs and R.B. Husar. Relationships between aerosol extinction coefficients derived from airport visual range observations and alternative measures of airborne particle mass. *J. Air Pollut. Control Assoc.* 35: 1176-1185 (1985).
- Thurston, G.D. and P.J. Liroy. Receptor modeling and aerosol transport. *Atmos. Environ.* 21: 687-698 (1987).
- Ozkaynak, H., and G.D. Thurston. Associations between 1980 U.S. mortality rates and alternative measures of airborne particle concentration. *Risk Analysis* 7: 449-460 (1987).
- Liroy, P.J., D. Spektor, G. Thurston, N. Bock, F. Speizer, C. Hayes and M. Lippmann. The design considerations for ozone and acid aerosol exposure and health investigation: The Fairview Lake Summer Camp-Photochemical Smog Case Study. *Environ. Int'l.* 13: 27-83 (1987).
- Spektor, D.M., M. Lippmann, P.J. Liroy, G.D. Thurston, K. Citak, D.J. James, N. Bock, F.E. Speizer and C. Hayes. Effects of ambient ozone on respiratory function in active normal children. *Am. Rev. Resp. Dis.* 137: 313-320 (1988).
- Lippmann, M. and G.D. Thurston. Exposure Assessment - Input into risk assessment. *Arch. Environ. Health* 43: 113-123 (1988).
- Spektor, D.M., M. Lippmann, G.D. Thurston, P.J. Liroy, J. Stecko, G. O'Connor, E. Garshick, F.E. Speizer, and C. Hayes. Effects of ambient ozone on respiratory function in healthy adults exercising outdoors. *Am. Rev. Resp. Dis.* 138: 821-828 (1988).
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- Thurston, G.D., K. Ito, M. Lippmann, and C. Hayes. Re-examination of London mortality in relation to exposure to acidic aerosols during 1962-1973 winters. *Environ. Health Persp.* 79: 73-82 (1989).
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- Echalar, E., P. Artaxo and G.D. Thurston. Source apportionment of aerosols in the industrial area of Cubatao, Brazil. In: *Aerosols: Science, Industry, Health and Environment* (S. Masuda and K. Takahashi, Eds.), pp. 942-945, Pergamon Press (1990).
- Spektor, D.M., V.A. Hofmeister, P. Artaxo, J. Brague, F. Echalar, D.P. Nogueira, C. Hayes, G.D. Thurston and M. Lippmann. Effects of heavy industrial pollution on respiratory function in the children of Cubatao, Brazil: A preliminary report. *Environ. Health Persp.* 94: 51-54 (1991).
- Waldman, J.M., S.K.C. Liang, P.J. Liroy, G.D. Thurston, and M. Lippmann. Measurements of sulfate aerosol and its acidity in the SO₂ source region of Chestnut Ridge, PA. *Atmos. Environ.* 25A: 1327-1333 (1991).
- Spektor, D.M., G.D. Thurston, J. Mao, D. He, C. Hayes, and M. Lippmann. Effects of single and multiday ozone exposures on respiratory function in active normal children. *Environ. Res.* 55: 107-122 (1991).
- Thurston, G.D. and H. Ozkaynak. Letters: Air pollution and mortality. *Science* 225: 382-383 (1992).
- Thurston, G.D., J.F. Gorczynski Jr., P. Jaques, J. Currie and D. He. An automated sequential sampling system for particulate acid aerosols: Description, characterization and field sampling results. *J. Exposure Anal. Environ. Epidemiol.* 2: 415-428 (1992).

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- Thurston, G.D., J.E. Gorczynski, J.H. Currie, D. He, K. Ito, M. Lippmann, J. Waldman and P. Liroy. The nature and origins of acid aerosol pollution measured in Metropolitan Toronto, Ontario. *Environ. Res.* 65:254-270 (1994).
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