

New York City Global Partners

City of New York, Office of the Mayor



# Public Health and Climate Change: The Urban Policy Connection

Wednesday, June 25 to Friday, June 27, 2008

Columbia University in the City of New York

Co-sponsored by Columbia University in the City of New York

## Program Summary

Leaders of the world's great cities are confronting extraordinary challenges in the twenty-first century. An international consensus recognizes that the quality of urban life, the future prosperity and the very existence of global cities will be determined by the capacity to mitigate climate change and address the public health challenges impacted by air pollution and extreme weather events, as well as the condition and availability of their water supply. Identifying citywide adaptation strategies is vital to the future of cities and our planet. City leaders have realized that they cannot wait for their national governments to act and are successfully addressing these challenges through innovative public policies and public-private partnerships. This international summit is showcasing successful city initiatives from New York City and around the globe that effectively address these challenges, as well as the interagency strategic plans developed by cities to implement innovative policies and programs. Summit Workshops will also give our global partners an opportunity to share the challenges they are facing with experts and colleagues who can provide valuable expertise and insight from their own experiences. A practical tool kit for measuring health impacts and your carbon footprint is being offered to summit participants for use in their cities.

The Mayor's Office of the City of New York, New York City Global Partners and Columbia University are pleased to convene this summit, which brings together governmental leaders, policy professionals and renowned intellectuals from 24 nations. Cities represented at the summit include Barcelona, Beijing, Bogotá, Buenos Aires, Brussels, Copenhagen, Delhi, Dhaka, Hong Kong, Johannesburg, Karachi, London, Manila, Mexico City, Milan, Montréal, Mumbai, Paris, Rio de Janeiro, Rome, Rotterdam, São Paulo, Seoul, Shanghai, Stockholm, Sydney, Tokyo, Toronto and Warsaw. During the Summit's public program, New York City Mayor Michael Bloomberg and leaders from Toronto, São Paulo, Mexico City and Copenhagen will discuss programmatic solutions that have been implemented to address the challenges of global warming. This event will be part of a three-day dialogue between New York City and its global city partners.

# Public Health and Climate Change: The Urban Policy Connection

Thursday, June 26, 2008

8:45 a.m. [Welcome Remarks](#)

Robert Kasdin, J.D., Senior Executive Vice President, Columbia University  
Meyer Feldberg, Ph.D., President, New York City Global Partners, Inc.

9:00 a.m. [Keynote Address](#)

Michael R. Bloomberg, Mayor of the City of New York

**“Think Locally, Act Globally: How Curbing Global Warming Emissions Can Improve Local Public Health”**

9:45 a.m. [Panel Discussion: Innovative Responses to Public Health Impacts of Climate Change](#)

*Questions and Answers to follow.*

*Moderator:*

Ester R. Fuchs, Ph.D., Professor of Public Affairs and Political Science at  
Columbia University

*Panelists:*

David McKeown, M.D.C.M., M.H.Sc., F.R.C.P.C.,  
Medical Officer of Health for the City of Toronto

Emily Lloyd, Commissioner,

Department of Environmental Protection (DEP), City of New York

Eduardo Jorge, Municipal Secretary of the Environment, City of São Paulo

10:45 a.m. [Break](#)

11:00 a.m. [Panel Discussion: Integrated Approaches to Policymaking and Implementation](#)

*Questions and Answers to follow.*

*Moderator:*

Ester R. Fuchs

*Panelists:*

Martha Delgado, Secretary of the Environment, Mexico City

Henrik Dissing, Chief Advisor for Climate Change,  
Office of the Lord Mayor, City of Copenhagen

Rohit Aggarwala, Ph.D., Director,

Mayor's Office of Long-term Planning and Sustainability, City of New York

*Generous sponsorship provided by AIG, Deutsche Bank and Pfizer Inc*

*The following sessions are limited to official delegates and other invited guests.*

12:30 p.m. **Luncheon**

**Welcome Remarks**

Marjorie B. Tiven, Commissioner, New York City Commission for the United Nations, Consular Corps, and Protocol

**Luncheon Address**

Rajendra K. Pachauri, Ph.D., Chairman, Intergovernmental Panel on Climate Change and Co-recipient of the Nobel Peace Prize

**“Climate Change and Urbanization: Challenges for the Future”**

2:00 p.m. **Break**

2:15 p.m. **Concurrent Delegate Workshops**

**Workshop A: Technical Assistance on Health Impact Assessments**

*Panelists:*

Sylvia Medina, M.D., Ph.D., Institute for Public Health Surveillance, Paris

Thomas Matte, M.D., M.P.H., Director, Environmental Research, Department of Health and Mental Hygiene, City of New York

*Moderator:*

Patrick L. Kinney, Sc.D., Associate Professor of Environmental Health Sciences, Columbia University

*Discussant:*

Aaron J. Cohen, M.P.H. Sc.D., Principal Scientist, Health Effects Institute

OR

**Workshop B: Developing Clean and Sustainable Public Transportation**

*Facilitator:*

Janette Sadik-Khan, Commissioner, Department of Transportation, City of New York

3:15 p.m. **Break**

3:30 p.m. [Concurrent Delegate Workshops](#)

**Workshop C: Technical Assistance on Measuring a City's Carbon Footprint**

*Panelists:*

Jim Yienger, Director, Policy Institute, ICLEI – Local Governments for Sustainability  
Jonathan Dickinson, Senior Policy Advisor,  
Mayor's Office of Long-Term Planning and Sustainability, City of New York

*Moderator:*

Cynthia E. Rosenzweig, Ph.D., Senior Research Scientist, NASA Goddard  
Institute for Space Studies, Columbia University

OR

**Workshop D: Sustainability Planning and Implementation**

*Facilitator:*

Steven Cohen, Ph.D., Executive Director, Earth Institute at  
Columbia University

*Discussant:*

Edoardo Croci, Deputy Mayor for Transport, Mobility and the Environment,  
City of Milan

4:30 p.m. [Break](#)

4:45 p.m. [Review and Analysis](#)

Howard Frumkin, M.D., M.P.H., Dr.P.H., Director, National Center for  
Environmental Health, U.S. Department of Health and Human Services,  
Centers for Disease Control (CDC)

*A reception and dinner at the American Museum of Natural History follows the formal program.*

Friday, June 27, 2008

9:00 a.m. [Special Session: Clearing the Air Indoors: Creating Smoke-Free Places](#)

*Location: Governor's Room, City Hall*

*Moderator:*

Ester R. Fuchs

*Panelists:*

Thomas R. Frieden, M.D., M.P.H., Commissioner,  
Department of Health, City of New York

Adriana Blanco, M.D., Tobacco Control Team, Pan American Health Organization,  
World Health Organization (WHO)



## ROBERT KASDIN

Robert Kasdin was appointed senior executive vice president of Columbia University in March 2002 and assumed his responsibilities as of September 1, 2002. Prior to joining Columbia University, he served as the executive vice president and chief financial officer of the University of Michigan. Before his service at the University of Michigan, he was the treasurer and chief investment officer for The Metropolitan Museum of Art in New York City, and the vice president and general counsel for Princeton University Investment Company. He started his career as a corporate attorney at Davis Polk & Wardwell.

Mr. Kasdin serves on several boards. He is president of the Board of Trustees of The Dalton School, and a trustee of the National September 11 Memorial & Museum. On February 21, 2008, he was appointed to the Board of Directors of the Noranda Aluminum Holding Corporation.

Mr. Kasdin earned his A.B. from Princeton and his J.D. from Harvard Law School.

## MEYER FELDBERG

Professor Meyer Feldberg is senior advisor at Morgan Stanley in New York and professor and dean emeritus at Columbia Business School. Professor Feldberg's career has included leadership positions in the business schools of the universities of Cape Town, Northwestern and Tulane. He was president of Illinois Institute of Technology from 1986 to 1989. He served as dean of Columbia Business School for 15 years and currently serves as dean emeritus and professor of leadership and ethics.



Professor Feldberg has been a visiting Professor at MIT, Cranfield and Insead. He serves on the Advisory Board of the British American Business Council and on the Board of the New York City Ballet and has served on the Council of Competitiveness in Washington, D.C. In 2001, the International Centre in New York honored South African born Professor Feldberg as a distinguished foreign-born American who has made a significant contribution to American life. In 2007 Mayor Michael R. Bloomberg appointed him president of New York City Global Partners. He is a director of Macy's, Inc., Revlon, Inc., Primedia, Inc., UBS Funds and Sappi Limited.

Professor Feldberg was a world ranked swimmer in the 1950s and 1960s and competed in the Empire Games, the Maccabi Games and the World Student Games. He received his B.A. at the University of Witwatersrand, his M.B.A. at Columbia University, and his Ph.D. at the University of Cape Town. He is married to the artist Barbara Feldberg and has two children and six grandchildren.



## MICHAEL R. BLOOMBERG

Michael R. Bloomberg is the 108th mayor of the City of New York. Elected to office in 2001, in his first term, Mayor Bloomberg cut crime 20 percent; created jobs by supporting small businesses; unleashed a building boom of affordable housing; expanded parks and worked to revitalize the waterfront; implemented ambitious public health strategies, including the successful ban on smoking in restaurants and bars; expanded support for community arts organizations; and improved the efficiency of government. In addition, fulfilling a campaign promise, he won control of New York's schools from the broken Board of Education, and began turning around the nation's largest school district by injecting standards into the classroom and holding schools accountable for success. As a result, graduation rates have increased nearly 20 percent, and reading and math scores have both risen to record levels.



In 2005, Mayor Bloomberg was re-elected by a diverse coalition of support that stretched across the political spectrum. In his second term, while balancing the budget and driving unemployment to a record low, Mayor Bloomberg has taken on a number of new challenges. He launched an innovative program to combat poverty that encourages work and makes work pay. He's undertaken a far-reaching campaign to fight global warming and prepare New York for an estimated million more residents by 2030. And as co-founder of a bipartisan coalition of more than 200 mayors from every region of the country, Mayor Bloomberg is working to keep illegal guns out of the hands of criminals and off city streets.

Michael Bloomberg began a small start-up company called Bloomberg LP in 1981. Today, Bloomberg LP has over 250,000 subscribers to its financial news and information service. Headquartered in New York City, the company has 9,500 employees in more than 130 cities worldwide.

## ESTER R. FUCHS

Ester R. Fuchs is professor of public affairs and political science and director of the urban policy concentration at Columbia University. She served as special advisor to the mayor for governance and strategic planning under New York City Mayor Michael R. Bloomberg from 2001-2005. Dr. Fuchs was appointed by Mayor Bloomberg to serve as chair of the 2005 New York City Charter Revision Commission. She was the first woman to serve in this capacity. Before going on a public service leave to join the Bloomberg Administration, Dr. Fuchs was professor of political science at Barnard College, chair of the Urban Studies Program at Barnard and Columbia Colleges and founding director of the Columbia University Center for Urban Research and Policy.

Dr. Fuchs serves on the Mayor's Sustainability Advisory Board, New York City Economic Opportunity Commission, the New York City Workforce Investment Board, the New York City Commission on Women's Issues and the Advisory Board for New York City's Out of School Time (OST) Initiative. She is appointed to the Committee on Economic Inclusion of the Federal Deposit Insurance Corporation (FDIC) and is a member of the Boards of the Fund for the City of New York, the Citizens Union, the Museum at Eldridge Street, the Advisory Committee of The National Center on Addiction and Substance Abuse and the International Board of Overseers of The Hebrew University Rothberg International School.

Dr. Fuchs is the author of *Mayors and Money: Fiscal Policy in New York and Chicago* and a frequent political commentator on television and radio. She received a B.A. from Queens College, C.U.N.Y., an M.A. from Brown University, and a Ph.D. in Political Science from the University of Chicago.

## DAVID MCKEOWN

David McKeown is the medical officer of health for the City of Toronto, the executive officer of the Toronto Board of Health and chief health advisor to the Toronto City Council. He leads Toronto Public Health, the largest municipal public health agency in Canada, which provides a comprehensive range of health promotion and protection services to Toronto's diverse population of 2.6 million people.

Dr. McKeown is a physician specialist who has worked in the public health field for 24 years. He holds degrees in medicine from McGill University in Montreal and in community health and epidemiology from the University of Toronto. He is a fellow of the Royal College of Physicians of Canada and a certificant of the American College of Preventive Medicine.

Dr. McKeown has served on the boards of the Toronto Atmospheric Fund and the Laidlaw Foundation Environment Program and is currently a director of the Clean Air Partnership, an environmental non-governmental organization. He is also an adjunct professor in the Department of Public Health Sciences at the University of Toronto.

As a public health leader, Dr. McKeown has been an outspoken advocate for environmental health issues such as the health impacts of air pollution, the regulation of exposure to environmental tobacco smoke, the closure of coal-fired power plants, the impact of environmental contaminants on children and the impact of climate change on vulnerable populations.

## EMILY LLOYD

Emily Lloyd is commissioner of the New York City Department of Environmental Protection (DEP). She was appointed by Mayor Michael R. Bloomberg in February 2005. DEP is responsible for managing New York City's drinking water supply, wastewater collection and treatment systems; handling hazardous materials emergencies and toxic site remediation; overseeing asbestos monitoring and removal; and enforcing the City's air and noise codes. DEP has substantial responsibility outside of New York City, managing and protecting 2,000 square miles of watershed land in the Catskill Mountains and the Hudson River Valley.

Prior to DEP, Commissioner Lloyd served as executive vice president for administration for Columbia University for 10 years, and then as executive vice president for government and community affairs. She was commissioner for sanitation under Mayor Dinkins, director of business development at the Port Authority of New York and New Jersey and commissioner for traffic and parking for the City of Boston.

She is a graduate of Wellesley College, received a master's degree in city planning from the University of Pennsylvania and was a Loeb fellow at Harvard University. She has served on numerous boards and commissions and is a lifetime fellow of the National Academy of Public Administration.

## EDUARDO JORGE

Eduardo Jorge Martins Alves Sobrinho is secretary of the environment for the city of São Paulo. He develops priority projects related to the protection of natural resources and the quality of the air, water and soil in São Paulo, as well as initiatives focused on eco-economy, the appreciation of parks and green areas and a plan for planting more trees in the city.

Dr. Jorge served two terms as secretary of health for the city of São Paulo from 1989 to 1990 and from 2001 to 2002. A state representative (1983–87) and a federal congressman (1987–2003), he was the leader of the Labor Party (PT) in the House of Representatives in 1992.

As a member of Parliament, he was coauthor of the constitutional legislation pertaining to the Brazilian Unified Health System (1988) and author of the Law of Generic Medications and author of the law that regulates family planning in Brazil and establishes criteria for access to methods and means for Planned Parenthood.

He was the coordinator of the Gandhi Network: Health and Culture of Peace and Non-Violence (2004) and a member of the Executive Committee of the 12th National Conference on Health.

## MARTHA DELGADO

Martha Delgado has served as the secretary of the environment for Mexico City since 2006. She is responsible for setting up the City's Climate Action Plan under the direction of Mayor Marcelo Ebrard. This plan undertakes specific actions to reduce greenhouse gas emissions with the ultimate goal of making Mexico City the greenest city in Latin America.

Mrs. Delgado has spent 20 years working in leadership positions dedicated to promoting sustainable development and civic responsibility, including the Unión de Grupos Ambientalistas, the Instituto Nacional de Ecología and the Organización Presencia Ciudadana Mexicana. She is responsible for developing and implementing the Non-Motorized Transportation Program, which promotes the use of bicycles as sustainable and suitable means of transportation. She was the general coordinator of the Green Consultancy, an unprecedented exercise through which the city government asked for citizen's opinions about the necessary changes to environmental, transportation and natural resources usage policies.

She holds a B.A. in education with a specialization in environmental and civic education. She has obtained diplomas in Management and Analysis of Environmental Policies, as well as Funding and Institutional Development of Non-Profit Organizations. She is also a fellow in the Advanced Studies Program for Sustainable Development and the Environment of the Colegio de Mexico.

## HENRIK DISSING

Henrik Dissing is chief advisor to the Lord Mayor on climate change for the City of Copenhagen. In this capacity he is responsible for the city's Climate Change Program. Mr. Dissing also manages the city's cooperation with the C40 Large Cities Climate Leadership Group, international partnerships and business activities. Prior to his current position, Mr. Dissing was in charge of designing a new business development program for the City of Copenhagen.

Previously, Mr. Dissing led the Eastern Europe Field Project Program and the E.U. policies program at the World Wide Fund for Nature, as well as facilitated the design and implementation of the Environmental Management System at the Danish State Railways. A Civil Engineer, Mr. Dissing obtained his M.Sc. in Public Planning and Urban Development.

## ROHIT T. AGGARWALA

Rohit T. Aggarwala is director of the New York City Mayor's Office of Long-term Planning and Sustainability. This office was charged with the creation of "PlaNYC A Greener, Greater New York," a comprehensive sustainability plan consisting of 127 separate initiatives to make New York City greener.

Dr. Aggarwala is now charged with implementing the plan and supporting other efforts related to the sustainability of New York City. Under his leadership, the City has begun implementing over 90 percent of the 127 initiatives in PlaNYC, including regulations to make the City's taxicabs and black car fleets clean, planting a million trees throughout the five boroughs, and overseeing the investment of \$80 million a year to reduce the City's greenhouse gas emissions.

Dr. Aggarwala holds B.A., M.B.A. and Ph.D. degrees from Columbia University, as well as an M.A. from Queens College in Ontario. Prior to joining the Bloomberg administration, Dr. Aggarwala was a management consultant at McKinsey & Company. During the Clinton administration, he worked at the Federal Railroad Administration. Dr. Aggarwala is also the author of several articles on transportation policy and on the history of New York City.



## MARJORIE B. TIVEN

Marjorie B. Tiven has served as commissioner of the New York City Commission for the United Nations, Consular Corps and Protocol (UNCCP) since February 2002. Part of the Office of the Mayor, UNCCP is the primary liaison between city government and the diplomatic community including relations with the U.S. State Department, the United Nations, 192 Permanent Missions to the United Nations and 110 Consulates. As commissioner, she promotes the City's interests and advocates on the City's behalf with regard to international treaty obligations, and provides policy guidance to the Mayor's Office, City agencies and New Yorkers regarding interaction with the United Nations, foreign governments and their officials. Ms. Tiven represents New York City on the United Nations Committee on Relations with the Host Country. She advises diplomatic and consular representatives on issues relating to their governmental operation in New York. Her Division of International Business assists foreign companies interested in opening an office in New York. As chief of protocol, she is the official liaison with foreign governments for courtesy visits at City Hall and gives advice and vetting to the Mayor's Office regarding international entities or persons.

Commissioner Tiven also serves as board member and treasurer of New York City Global Partners, Inc. which connects the Mayor's Office to international global cities. During her tenure, the City achieved the first-ever diplomatic parking agreement with the U.S. State Department and the first full fire-safety protection inspection of the United Nations complex. Commissioner Tiven restructured The Sister City Program to expand New York's interaction with other global cities and through Law Department litigation, landmark progress has been made in resolving decades-old debt for real estate taxes owed to the City by foreign governments for non-diplomatic use of diplomatic properties.

Marjorie Tiven earned an undergraduate degree from Antioch College and a graduate degree from Columbia University School of Social Work. She held positions at The National Council on the Aging and The National Association of State Units on Aging. In 2001, she resigned as director of training at Brookdale Center on Aging at Hunter College to campaign for her brother, Michael R. Bloomberg, as Mayor of the City of New York.

## RAJENDRA K. PACHAURI

Rajendra K. Pachauri is chairman of the Intergovernmental Panel on Climate Change and was awarded the Nobel Peace Prize in 2007 along with former Vice President Al Gore. Dr. Pachauri is director-general of The Energy and Resources Institute (TERI). TERI conducts original research and provides knowledge in the areas of energy, environment, forestry, biotechnology and the conservation of natural resources to governments, institutions and corporate organizations worldwide. Dr. Pachauri has been active in several international forums dealing with the subject of climate change and its policy dimensions.



At the beginning of his career, Dr. Pachauri joined the Administrative Staff College of India, Hyderabad and went on to become director of the Consulting and Applied Research Division. He has been a visiting professor at West Virginia University, a visiting research fellow at The World Bank, and a part-time advisor to the United Nations Development Programme's Administrator in the fields of energy and sustainable management of natural resources. Dr. Pachauri's wide-ranging expertise has resulted in his membership in various international and national committees and boards as well as his association with a variety of academic and research institutions. He has also authored 23 books and several papers and articles.

Dr. Pachauri obtained an M.S. and Ph.D. in industrial engineering and a Ph.D. in economics from North Carolina State University. He was conferred with the *Padma Vibhushan*, the second highest civilian award, for his services in the field of science and engineering in January 2008 by the president of India. He was bestowed the *Officier de la Légion D'Honneur* by the Government of France in 2006.

## JANETTE SADIK-KHAN

Janette Sadik-Khan is commissioner of the New York City Department of Transportation, appointed by Mayor Michael R. Bloomberg in April 2007. As commissioner, she has embarked on an aggressive agenda to improve air quality, mobility and public space and reach a state of good repair on all of the Department's facilities. She has pioneered the development of a Strategic Business Plan to bring all Departmental operations and planning in line with the sustainability goals of PlaNYC.

Prior to her appointment as commissioner, she was a senior vice president of Parsons Brinckerhoff, a leading international engineering firm. Previously, she was deputy administrator at the Federal Transit Administration (FTA). As director of the Office of Policy, she initiated the FTA's Art in Transit program. While serving as director of the Mayor's Office of Transportation, she was principal advisor to Mayor David Dinkins on mass transit issues. Key positions held at the New York City Department of Transportation included special counsel to the commissioner and legislative director of the agency.

Commissioner Sadik-Khan holds a B.A. in political science from Occidental College, a law degree from the Columbia Law School and is a member of the New York State Bar. She was a Rockefeller fellow and has been a visiting scholar at New York University.

President of the National Association of City Transportation Officials, Inc. (NACTO), co-chair of the Transportation Research Board's Committee on Transportation Issues in Major U.S. Cities and chair of Reconnecting America, Commissioner Sadik-Khan has received numerous awards recognizing her innovative contributions in the field of transportation. She writes extensively on transportation, finance and project management issues. An avid cyclist, she also frequently commutes to work by bike.

## THOMAS R. FRIEDEN

Thomas R. Frieden, M.D., M.P.H., has served as New York City's health commissioner since January 2002. The Health Department is one of the world's largest public health agencies, with an annual budget of \$1.7 billion and more than 6,000 staff.

Because tobacco is the leading cause of preventable illness and death in New York City, Dr. Frieden launched a comprehensive tobacco control program that included a tax increase, the Smoke-Free Air Act, hard-hitting media campaigns and continuous free quit assistance. In six years, this program decreased the number of adult smokers by 300,000 and reduced teen smoking by 52 percent, preventing 100,000 premature deaths in years to come.

Under Dr. Frieden, New York City was also the first place in the United States to eliminate trans-fats from restaurants, rigorously monitor the diabetes epidemic and require chain restaurants to post calorie information prominently. In 2006, the City launched the nation's largest community-based Electronic Health Record project, which will give more than one million New Yorkers improved preventive care.

A leading expert in tuberculosis control, Dr. Frieden was appointed health commissioner after working in India for five years. The Indian tuberculosis program has now treated more than eight million patients and has saved more than a million lives. Prior to India, Dr. Frieden was a C.D.C Epidemiologic Intelligence Service officer – a “disease detective” – and the assistant commissioner for the Health Department's Bureau of Tuberculosis Control. He was instrumental in stopping the tuberculosis epidemic in New York City, reducing cases of multidrug-resistant tuberculosis by more than 80 percent.

A graduate of Oberlin College, Dr. Frieden received his M.D. and M.P.H. from Columbia University. He completed specialty training in internal medicine at Columbia and subspecialty training in infectious diseases at Yale University. Dr. Frieden has received numerous awards and has authored more than 150 scientific articles.



New York City Global Partners, Inc. connects the City of New York with the world's great cities by promoting the exchange of best practices. Formerly known as The Sister City Program of the City of New York, Global Partners is located in the New York City Commission for the United Nations, Consular Corps and Protocol. Global Partners has produced and co-sponsored seven international summits. In 2007, Global Partners was a co-sponsor of the "C40 Large Cities Climate Summit" and produced the summit "Governing a Diverse City in a Democratic Society" in cooperation with Columbia University. Previous summits have included "Strategies for Public Art" (2005), "Transforming Government through Technology" (2004), "Meeting the Challenges of Terrorism and Crime" (2003) and "Rebuilding International Tourism" (2003). New York has historic Sister City relationships with Beijing, Budapest, Cairo, Jerusalem, Johannesburg, London, Madrid, Rome, Santo Domingo and Tokyo. For more information on New York City Global Partners, please visit [www.nyc.gov/globalpartners](http://www.nyc.gov/globalpartners) or call 311.

## **Leadership in Environment and Climate Research at Columbia University**



Columbia University has established itself as a global center of pioneering research and innovation in climate science. Across the University's campuses, schools and centers, Columbia researchers have achieved historic breakthroughs in understanding the complex forces affecting our environment and their impact on society. The breadth of Columbia centers working on the many aspects of climate change and adaptation include: the University's Earth Institute and Lamont-Doherty Earth Observatory; the Lenfest Center for Sustainable Energy; and the Center for Environmental Research and Conservation, a Columbia-led consortium of such internationally admired New York-based institutions as the Wildlife Conservation Society, the American Museum of Natural History and the New York Botanical Garden. The University also recently launched the Columbia Climate Center to provide a hub for interdisciplinary work by researchers whose work spans diverse fields including hydrology, oceanography, geophysics, economics, engineering and public health. Columbia is committed to developing workable solutions to environmental challenges while training future environmental leaders through more than 24 academic programs in earth science and sustainability.

To learn more about Columbia's breadth of research and education in climate science and environmental sustainability, please visit [www.columbia.edu/climateneews](http://www.columbia.edu/climateneews).

