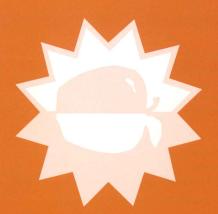
Metropolitan New York in the Greenhouse

Infrastructure decisions in this decade will have consequences that reach far into the next century, a period in which — according to most of the world's climate scientists — the greenhouse effect will result in global climate change. Although there is great uncertainty as to the nature and extent of these consequences, metropolitan New York might be adversely affected in a number of ways. For example, greater evaporation in summer may outweigh heavier precipitation in winter to reduce New York City's water supply, a problem that could be compounded by greater salt water intrusion up the Hudson River and into ground water. Rising sea level, especially if combined with more severe and frequent storms, would increase coastal flooding and erosion. Already out of compliance with air quality standards for ozone, the metropolitan area could find higher temperatures exacerbating the situation. Worsened air pollution and prolonged heat waves may cause increased mortality among the elderly and the sick. With little prospect for automobiles with reduced carbon dioxide emissions, other controls on transportation would be required. Longer, hotter summers would require more air conditioning, adding to peak summer electricity loads and making electricity relatively more expensive; it is not clear where more electricity that does not contribute to the greenhouse effect would come from. Building design and maintenance would need to be reconsidered.

Scenario Planning is a means of exploring the future in the face of uncertainty. In four parallel workshops, the conference participants will develop a plausible, consistent description of metropolitan New York in the year 2020. Each group will be assigned an assumption as to the severity of future climate change, ranging from no effect at all to very severe. Their task will be to prepare a rich description of metropolitan New York under those circumstances, considering the waterfront, water resources and wastewater management, land use and infrastructure, air quality, transportation, building design and maintenance, and energy demand and supply.

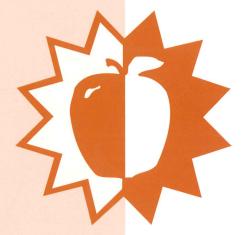
Scenario planning is about perceiving possible futures in the present, rather than about predicting the future. Its purpose is to gather and transform information of strategic importance into fresh perceptions. The end result is not an accurate picture of tomorrow, but better decisions for the future.



State University of New York
Stony Brook, New York 11794-5

Metropolitan New York
in the Greenhouse:

The Baked Apple?



Metropolitan New York in the Greenhouse:

Infrastructure
Planning for an
Uncertain Future

A conference for community leaders to be held on Thursday and Friday, **November 3 and 4, 1994** at the Oval Room World Trade Center New York, New York **Program**

Thursday,	3 November 1994	2:45	ENERGY DEMAND AND SUPPLY Samuel C. Morris and Gary A. Goldstein	
8:45 a.m.	INTRODUCTION Douglas Hill Infrastructure Group, Metropolitan Section		Brookhaven National Laboratory Ajay Sanghi, New York State Energy Office Douglas Hill, Douglas Hill, PE, PC	
	American Society of Civil Engineers	3:15	Break	
9:00	THE GREENHOUSE EFFECT: THE SCIENCE BASE Anthony J. Broccoli NOAA Geophysical Fluid Dynamics Laboratory	3:45	SCENARIO PLANNING ASSIGNMENTS Malcolm J. Bowman Marine Sciences Research Center, SUNY at Stony Brook	
	Princeton University	4:15	SCENARIO PLANNING WORKSHOPS (begin)	
9:30	ECONOMIC AND POPULATION	5:15	Buffet dinner break	
	PROJECTIONS Regina B. Armstrong	6:15	SCENARIO PLANNING WORKSHOPS (resume)	
	Senior Fellow, Regional Plan Association	9:00	Adjourn	
10:00	Break		A	
10:30	WATERFRONT PLANNING	Friday, 4 November 1994		
	Holly Haff Former Director, Waterfront and	9:00 a.m.	SCENARIO PLANNING WORKSHOPS (resume)	
	Open Space Division NYC Department of City Planning	I2 noon	Lunch Ruth W. Messinger	
11:00	LAND USE AND INFRASTRUCTURE PLANNING		Borough President of Manhattan	
	Rae Zimmerman Professor of Planning and Public Administration New York University	1:00 p.m.	REPORTS OF SCENARIO PLANNING WORKSHOPS RESPONSES, Panel: Jeanne Fox, Regional Administrator, LLS Foxica possed Proposition A congress	
11:30	WATER RESOURCES AND WASTEWATER MANAGEMENT Robert Alpern Co-Director, Reengineering and Strategic		U.S. Environmental Protection Agency Rita Meyninger, Regional Director, Federal Emergency Management Agency Raymond R. Ruggieri, Director, New York Metropolitan Transportation Council	
	Planning Group NYC Department of Environmental Protection		Antonia Bryson, Deputy Commissioner, NYC Department of Environmental Protection	
12:00	Luncheon Stanley Lundine Lieutenant Governor, New York State		Philip Jessup, International Council for Local Environmental Initiatives Edward A. Parson, JFK School of Government, Harvard University	
1:15 p.m.	AIR QUALITY AND HEALTH EFFECTS Lawrence I. Kleinman and Frederick W. Lipfert Brookhaven National Laboratory	4:00	Adjourn	
1:45	TRANSPORTATION PLANNING <i>John Falcocchio</i> Professor of Transportation, Polytechnic University	Sponsors •American Society of Civil Engineers, Metropolitan Section, Infrastructure Group •The University at Stony Brook, Marine Sciences Research Center •Rutgers University, Institute for Marine and Coastal Sciences •The New York Academy of Sciences, Engineering Section •The Port Authority of New York and New Jersey •New York Sea Grant Institute •New York State Bar Association, Environmental Law Section • Regional Plan Association		
2:15	BUILDING DESIGN AND MAINTENANCE Lindsay Audin Energy Manager, Columbia University			

Conference Registration Form

Metropolitan New York in the Greenhouse: Infrastructure Planning for an Uncertain Future November 3 and 4, 1994

First name		Last name			
Affiliation					
Mailing address					
City		State	Zip		
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Telephone number		Fax Number			
Make your check payable to Metropolitan Section — ASCE. Please return this form with your full payment to:					
Gina Gartin Marine Sciences Research Center State University of New York Stony Brook, New York 11794-5000 Phone: 516-632-8781 Fax: 516-632-8820					
FEES Registration fee includes attendance and buffet lunches on both days of the meeting and a buffet supper on Thursday, November 3. If the reservation is made with this form, hotel accommodations are available at Loew's New York Hotel, Lexington Avenue at 51st Street. There is a direct subway connection on the E-train between the hotel and the World Trade Center. No door registration because of security regulations					
Hotel @ \$129 per n	Enclosed				
	☐ Wed. 11/2 ☐ Confirmation ☐ Smoking	☐ Thu. 11/3 requested ☐ Non-smoking	\$		
Postmarked Registration	Before 10/22 \$190	After 10/22 \$240	\$		
Total fees enclosed					

Registrations will be accepted after October 22 only if space is available. Refund requests will not be honored after October 22, 1994. Registration fee is waived for speakers, moderators, and panelists only.