



## LIVABLE CITIES OF THE FUTURE

A SYMPOSIUM HONORING THE LEGACY OF GEORGE BUGLIARELLO

**Friday**  
**October 26, 2012**

8 a.m. to 5 p.m.  
Pfizer Auditorium  
Bern Dibner Library  
of Science and Technology  
Polytechnic Institute of  
New York University  
Brooklyn, New York



## Join in this global metropolitan forum honoring the legacy of George Bugliarello.

The symposium, *Livable Cities of the Future*, will bring together an interdisciplinary group of engineers, civic leaders, educators and futurists in a unique forum that will offer an open discussion of how George Bugliarello's vision manifests itself in innovative urban planning for the cities of tomorrow. Discussions will examine the critical role engineers play in the social and economic development of cities and their ever-increasing importance in the area of policymaking.

### **The symposium is intended to:**

- cultivate ideas for best practices and innovative strategies for sustainable urban development.
- facilitate the evolution of New York City into a real-life laboratory for urban innovation.

### **The symposium will specifically address:**

- experiences of private and public service operators, infrastructure agencies, elected officials, the academic community and other stakeholders in the critical urban sectors.
- sectors critical to resilient and sustainable cities including
  - energy, water, infrastructure,
  - transportation, telecommunications and
  - environment.

### **Who should attend?**

Engineers, academics, practitioners in public and private agencies, urban planners, designers, developers, policymakers, researchers.

### **Confirmed speakers include:**

Patrick Foye, CEO, Port Authority of New York/New Jersey; Andrew Hermann, President, American Society of Civil Engineers; Craig Ivey, President of Consolidated Edison; Steven Koonin, Director of the Center for Urban Science and Progress; David Miller, former mayor of Toronto and NYU-Poly Future of Cities Global Fellow; and Carter Strickland, Commissioner, New York City Department of Environmental Protection.

Program listing to come.

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## About Polytechnic Institute of New York University

Polytechnic Institute of New York University (formerly Polytechnic University), an affiliated institute of New York University, is a comprehensive school of engineering, applied sciences, technology and research, and is rooted in a 158-year tradition of invention, innovation and entrepreneurship: i<sup>2</sup>e. The institution, founded in 1854, is the nation's second-oldest private engineering school. In addition to its main campus in New York City at MetroTech Center in downtown Brooklyn, it also offers programs at sites throughout the region, around the globe and remotely through NYUe-Poly. NYU-Poly is an integral part of NYU Abu Dhabi, NYU Shanghai and the NYU Center for Urban Science and Progress (CUSP) in downtown Brooklyn. For more information, visit [www.poly.edu](http://www.poly.edu).

## Polytechnic Institute of NYU Department of Civil and Urban Engineering

The ABET-accredited Department of Civil and Urban Engineering at NYU-Poly offers BS, MS and PhD degrees in civil engineering. With a distinguished history of research in urban infrastructure engineering and planning as well as environmental sustainability, the department is dedicated to advancing the body of knowledge and professional practice of civil and urban engineering to meet the imminent and ever-changing challenges of the future. Offering students the benefits of the most highly regarded faculty, the department continues to utilize

the real-world urban laboratory of New York City and produce leaders prepared to meet the needs of an increasingly complex world with breakthrough advances in the field. This symposium is NYU-Poly's Department of Civil and Urban Engineering's tribute to George Bugliarello.

## New York University

New York University, which was established in 1831, is one of the largest and most prestigious private research universities in the U.S. It has more international students than any other U.S. college or university. Through its numerous schools and colleges, NYU conducts research and provides education in the arts and sciences, law, medicine, dentistry, education, nursing, business, social work, the cinematic and performing arts, public administration and policy, and continuing studies, among other areas.

## MetroTech

George Bugliarello's vision was the creative force behind the development of MetroTech, the 16-acre urban university-industry park in downtown Brooklyn. The creation of MetroTech heralded the gentrification of the area and created over 20,000 jobs. The center attracted employers in major industries such as banking, utilities, securities, the New York City Fire Department, and large hotel chains such as the Marriott and Sheraton. Its success has proven to be a primary case study in university, corporate, government and private developer cooperation.

## CUSP

In April 2012, New York City announced the launch of the Center for Urban Science and Progress (CUSP), an applied science research institute created by NYU and Polytechnic Institute of NYU, with a consortium of world-class universities and the foremost international tech companies to address the needs of cities. Generating an entirely new sector in New York City's economy and placing it at the center of a global stage in this field, CUSP will be located in MetroTech in a City-owned building steps from NYU-Poly.

## Symposium Chair

Jerry M. Hultin  
President, NYU-Poly

## Honorary Chair

Paul Soros

## Symposium Co-Chair

Mohammad Karamouz  
Director, Environmental Engineering,  
NYU-Poly

## Symposium Sponsors

- Polytechnic Institute of NYU Department of Civil and Urban Engineering
- NYU Center for Urban Science and Progress
- National Academy of Engineering
- American Society of Civil Engineers



## GEORGE BUGLIARELLO 1927-2011

### **A Man of Vision**

George Bugliarello's range of interests and expertise transcended many disciplines, including civil engineering, bio-medical engineering, urban development, science policy, water resources and environmental science. His vision of the role of science, innovation and education, coupled with a passion for turning his vision into reality, is reflected in today's urban communities, forged through academic and industry interactions in ways that spur economic growth and societal well-being, while respecting the quality of human life and the environment.

### **The Biosoma Paradigm**

In emphasizing the urgent need for a clear strategy for urban sustainability, Dr. Bugliarello recommended a new paradigm based on the biosoma—the indissoluble interaction of biology, society and machines, along with the complementary system of systems paradigm. The biosoma-environmental paradigm views the city as a complex, adaptive system where the three biosoma entities interact with the environment. Synergies and trade-offs among these entities and their interaction with sub-components such as materials, energy, information and systems, are at the heart of addressing issues of urban sustainability.

*“...[Answers to overarching  
questions about urban  
sustainability] ...depend on  
the development of new  
bio-socio-technological-  
environmental paradigms, and  
of a correspondingly broader  
conception of engineering and  
of the interdisciplinarity of  
knowledge.”*

*—George Bugliarello*



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## REGISTRATION FORM

### **Symposium Venue:**

Polytechnic Institute of NYU  
Pfizer Auditorium  
Bern Dibner Library of Science & Technology  
5 MetroTech Center  
Brooklyn, NY 11201

**Registration is limited. Registration Deadline: Tuesday, October 9, 2012**

To register online, please go to \_\_\_\_\_

To register by mail, please complete the form below and return to:

*Livable Cities of the Future: A Symposium Honoring George Bugliarello*  
Attn: Rose Emma  
Polytechnic Institute of NYU  
6 MetroTech Center  
Brooklyn, NY 11201

Or fax your registration form to 718-260-3433.

For inquiries, please contact Rose Emma at [remma@poly.edu](mailto:remma@poly.edu) or 718-260-3330.

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Mailing address: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

### **LUNCHEON REGISTRATION**

(Luncheon served from 12-1 p.m.)

- I will attend the lunch.
- I will not attend the lunch.

# LIVABLE CITIES OF THE FUTURE

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## HOTEL INFORMATION

A block of rooms for symposium attendees has been reserved at:

### **NU Hotel**

(approximately a 10-minute walk from the symposium venue)

85 Smith Street  
Brooklyn, NY 11201

Book your room online at: <http://booking.ihotelier.com/istay/istay.jsp?groupID=814961&hotelID=15335>  
or call 718-852-8585 and reference the NYU-Poly Bugliarello Symposium to receive the group rate of \$229/night  
+ 14.75% + \$3.50/rm/night occupancy tax (Queen, non-smoking room). Rate includes complimentary continental  
breakfast, free WiFi and 24-hour fitness center.

Rooms must be booked by **Sunday, September 9, 2012**.

Individual reservations must be cancelled at least **24 hours** in advance in order to avoid a one night's stay fee.

Other area hotels:

### **Sheraton Brooklyn New York Hotel**

(approximately a 5-minute walk from the symposium venue)

228 Duffield Street  
Brooklyn, NY 11201  
718-855-1900 or Maleta Phoenix-Edwards 718-254-7825  
[www.sheraton.com/Brooklyn](http://www.sheraton.com/Brooklyn)

### **Hotel Indigo**

(approximately a 5-minute walk from the symposium venue)

229 Duffield Street  
Brooklyn, NY 11201  
1-800-465-4329 or Maleta Phoenix-Edwards 718-254-7825  
[www.hotelindigo.com](http://www.hotelindigo.com)

### **Brooklyn Marriott**

(across the street from

MetroTech Center)

333 Adams Street  
Brooklyn, NY 11201  
718-246-7000  
[www.marriott.com](http://www.marriott.com)

Limited room availability, mention Polytechnic Institute of NYU.