



## LIFE EXTENSION TECHNOLOGIES 3<sup>rd</sup> INTERNATIONAL WORKSHOP

### *"Advanced Technologies for Rehabilitation and Security Management of Water Distribution and Critical Underground Networks"*

#### Tentative Agenda

October 1<sup>st</sup> and 2<sup>nd</sup>, 2001

Location: Urban Utility Center, Polytechnic University  
Six Metrotech Center, Brooklyn, NY

#### Organizing Committee

*Joel Miele, NYCDEP, Chair*  
*Jean-Michel Barbier, SAGEP, Co-chair*

*Mr. Dino NG, NYCDDC*

*Mr. Robert Zlokovitz, UUC*

*Prof. Tom O'Rourke, ICIS*

*Prof. Ilan Juran, UUC*

*Mr. Arthur Kressner, Con Edison*

*Mr. Cosmo Iannicco, Keyspan*

*Mr. Pascal Bocherel, GDF Energy*

#### Co-organized by:



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For further information, please contact:  
*André Delfino, Secretary*  
*Tel: (718) 260-3940*  
*Tel: (718) 260-3717*  
*Fax: (718) 260-3433*  
*e-mail: [adelfino@poly.edu](mailto:adelfino@poly.edu)*

## **Monday October 1<sup>st</sup>: “Current State of Practice and R&D Needs Assessment”**

**8:15 - 8:45 Registration and Coffee**

8:45 – 9:15 Introduction/Workshop Objectives  
Prof. Ilan Juran, Prof. Tom O'Rourke and Prof. Rae Zimmerman

9:15 – 10:45 Session I – *Technology Assessment for Rehabilitation and Expedient Restoration*  
Chair: Steven Kramer, *Principal*, Jacobs Sverdrup

Keith Oxner, *Project Engineer*, Insituform  
Robert Torielli, *President*, PIM Corporation  
Lembit Maimets, *President*, Link Pipe  
Graeme Burns, *Senior Research Engineer*, ONDEO Services, Lyonnaise des Eaux  
Marco Beros, *Deputy Head*, Vivendi Water  
Tony Hranicka, *Senior Engineer*, Con Edison & Ted Fiala, *General Manager*, Exelon  
Pascal Bocherel, *General Manager*, GDF Energy

Discussion & Comments

**10:45 – 11:00 Coffee Break**

11:00 – 12:30 Session II – *In-network Monitoring for Performance Improvement, Water Quality and Security Management*  
Chair: Tony Codner, *Department Manager R&D*, Con Edison

Douglas Greeley, *Deputy Commissioner*, NYCDEP  
Robert Torbin, Foster-Müller  
Bruno Nguyen, *Operations Engineer*, SAGEP  
Mike Shepherd, *Technical Manager*, Thames Water  
Marco Beros, *Deputy Head*, Vivendi Water  
Arthur Kressner, *Department Manager Advanced Technology*, Con Edison  
Mark Leach, Leach Industry

Discussion & Comments

**12:30 – 1:30 Lunch**

1:30 – 2:30 Session III – *Interference Management, Field Investigations and Contractual Aspects*  
Chair: Dr. Diana Chapin, *First Deputy Commissioner*, NYCDEP

Gregory Penza, *Director*, ULC Robotics  
Steven Kramer, *Principal*, Jacobs Sverdrup  
Arthur Kressner, *Department Manager Advanced Technology*, Con Edison  
Tony Savino, *Manager Operations Research*, Keyspan  
Mike Oristagilo, *Chief Scientist*, Witten Technology

Discussion & Comments

- 2:30 – 3:30    **Session IV – *Research Forum on Rehabilitation Technologies: Guidelines for Trenchless Technology Assessment, Expedient Restoration and R&D Needs Assessment***  
 Chair: Paul Beckendorf, *Managing Director*, GTI
- NYC's Needs and Perspectives for Trenchless Technologies*  
 Douglas Greeley, *Deputy Commissioner*, NYCDEP  
 Y.P. (Dino) NG, *P.E.*, NYCDDC
- Guidelines for Selection of Trenchless Technologies for Gas & Water Mains Rehabilitation*  
 Robert Zolkovitz, *Senior Research Advisor*, Urban Utility Center
- Expedient Retrofitting of Electrical Networks*  
 Arthur Kressner, *Department Manager of Advanced Technology*, Con Edison
- Applications of Crime Patterns Analysis for Expedient Restoration, Security Management and Hazard Mitigation of Critical Urban Utility Infrastructure*  
 Victor Goldsmith, *Coordinator of Incubator Development*, Hunter College
- Discussion & Comments
- 3:30 – 3:45    **Coffee Break**
- 3:45 – 5:15    **Session V – *Research Forum on In-network Monitoring – Demonstration, Deployment and Future Perspectives***  
 Chair: Douglas Greeley, *Deputy commissioner*, NYCDEP
- NYC On-line Leak Detection Demonstration Program*  
 UUC, Con Edison, SAGEP, NYCDEP
- Network Degradation Modeling*  
 Prof. Ilan Juran, Annie Raven and Prof. Symeon Christodoulou
- Effects of the 1989 Loma Prieta Earthquake on the San Francisco Natural Gas System*  
 Paul Beckendorf, *Managing Director*, GTI
- GIS for Emergency Management in Water Distribution Systems*  
 Prof. Tom O'Rourke, *Co-chair Executive Committee*, ICIS
- SmartCities Program*  
 Robert Hall, *Division Head*, Brookhaven National Laboratory
- From Demonstration to Large-scale Deployment*  
 Diana Chapin, *Executive Director*, NYC Water Board
- Discussion & Comments
- 5:15 – 5:30    **Panel Conclusions**  
 Prof. Tom O'Rourke, Prof. Ilan Juran and Session Chairs
- 7:00            **Dinner with the Quartet of Students of Julliard School**

## Tuesday October 2<sup>nd</sup>: “City Agencies’ Perspectives, Needs, and Challenges”

8:00 – 8:30 **Coffee**

8:30 – 9:00 Introduction  
Prof. George Bugliarello, *Chancellor*, Polytechnic University

9:00 – 10:30 Session VI – *NYC’s Current Practice & Challenges for Public-private Partnerships*  
Chair:

Joel Miele, *Commissioner*, NYCDEP  
Anthony Savino, *Manager of Operations Research*, Keyspan  
Arthur Kressner, *Department Manager for Advanced Technology*, Con Edison  
Anthony Fasulo, *First Deputy Commissioner*, NYCDOT  
Prof. Bud Griffis *Formerly US Army Corps of Engineers*

Discussion & Comments

10:30 – 10:45 **Coffee Break**

10:45 – 12:15 Session VII – *International Experience: Performance Improvement and Security Management*  
Chair:

Bruno Nguyen, *Operations Engineer*, SAGEP, Paris  
Mike Shepherd, *Technical Manager*, Thames Water, London  
Kathleen O’Toole, *Special Advisor of the Mayor of Boston*, City of Boston  
Joseph Symick, *Chief Engineer & Surveyor*, City of Philadelphia

Discussion & Comments

12:30 – 1:30 **Lunch Break**

1:30 – 3:30 Session VIII – *Research Forum*

### **“Advanced Technologies for Expedient Restoration, Security Management and Hazards Mitigation”**

Chair: Dr. Miriam Heller, *Director Engineering CMS Systems*, NSF  
Coordinators: Prof. Tom O’Rourke and Prof. Ilan Jurau  
Panels involving City Governments, Utilities, Construction Industries and the Research Community.

Dr. Miriam Heller: *NSF Institutional Mechanism for Public-Private R&D Partnerships*  
Introductory Comments:

Dr. George Bugliarello, *Chancellor*, Polytechnic University  
George Greenwood, *Vice President*, Con Edison  
Douglas Greeley, *Deputy Commissioner*, NYCDEP

Discussion issues suggested by participants, such as:

- Strategies for upgrading security management and hazards mitigation of critical underground networks
- Intelligent management systems
- Strategies for public-private partnerships
- Interference management & information systems
- Advanced technologies: from demonstrations to large scale deployment
- Performance measures & impacts assessment of innovative systems
- R&D needs assessment
- Opportunities & barriers for innovation

3:30 – 3:45 **Coffee Break**

3:45 – 4:30 *Session IX – Agenda for Inter-city Public-Private Partnership on Innovative Technologies for Expedient Restoration, Security Management and Hazard Mitigation of Critical Networks*

**Chair: Joel Miele & Kathleen O'Toole**

4:30 – 5:00 *Session X – Conclusions & Recommendations*  
Panel discussion of session chairs  
**Prof. Tom O'Rourke & Prof. Ilan Juran**