



New York Indoor Environmental Quality Center, Inc.

ENVIRONMENTAL QUALITY SYSTEMS SYMPOSIUM AT SYRACUSE

Sponsored by:
Carrier Corporation, Niagara Mohawk and NYSTAR

AGENDA

Tuesday October 29, 2002 Morning

LOCATION: *Registration, Session and Lunch, Lyle Auditorium, Carrier Corp. (park at the Wyndham Syracuse Hotel)
Reception and Dinner, Harbour Ballroom, Wyndham Syracuse Hotel*

7:30 AM REGISTRATION

8:00 AM WELCOME AND OVERVIEW

Edward Bogucz, Dean, College of Engineering & Computer Science, Syracuse University
John M. Mandyck, V.P. Government & International Affairs & acting V.P. of Communications, Carrier Corp.
R. Leland Davis, Executive Director, New York Indoor Environmental Quality Center, Inc.
H. Ezzat Khalifa, Director, NY STAR Center for Environmental Quality Systems

8:30 AM KEYNOTE ADDRESS

Indoor Environment in the 21st Century: Impact on Human Productivity, Health and Comfort
P. Ole Fanger, Professor and Director, International Centre for Indoor Environment and Energy, Technical University of Denmark

9:15 AM BREAK

9:25 AM SESSION 1: BUILT ENVIRONMENTAL SYSTEMS

Chair: Joseph Sangiovanni, United Technologies Research Center

9:25 AM **NRC Indoor Environment Research Facility**

John Shaw, National Research Council Canada

10:05 AM **Indoor Air Pollutants in Limited Resource Households and Childcare Facilities**

Joseph Laquatra, Jr., Cornell University

10:25 AM **Selected Pesticide Residues in House Dust from Homes in Central NY**

Ann T. Lemley, Cornell University

10:45 AM **Modeling Indoor Emission Sources— What We Have and What We Need**

Zhishi Guo, US Environmental Protection Agency

11:05 AM **Predicting the Impact of Building Material Selections on Indoor VOC Concentrations**

Jianshun S. Zhang, Syracuse University

11:30 AM CONGRESSMAN JAMES T. WALSH ANNOUNCES LICENSING AGREEMENT FOR TECHNOLOGY TRANSFER

12:00 NOON BOX LUNCH AND RESEARCH POSTERS

Tuesday October 29, 2002 Afternoon

LOCATION: *Afternoon Sessions, Lyle Auditorium, Carrier Corp. (park at the Wyndham Syracuse Hotel)
Reception and Dinner, Harbour Ballroom, Wyndham Syracuse Hotel*

12:20 PM SESSION 2: EXPERIMENTAL/ANALYTICAL METHODS IN ENVIRONMENTAL SYSTEMS RESEARCH

Chair: Philip K. Hopke, Clarkson University

12:20 PM From Outer Space to Personal Space: The Past, Present and Future of Inertial Measurement for Particulate Matter Mass

Harvey Patashnick, Rupprecht & Patashnick

1:00 PM Chemical Sensors: Detection of Target Gases and Liquids

Michael A. Carpenter, SUNY Albany

1:20 PM Improving Border Security and Monitoring for Inadvertent Bioterrorism with COAST II (Computer-Optimized Aerosol Sampling Technique)

Robert E. Baier, SUNY Buffalo

1:40 PM Development of a Standard Full-Scale Chamber Test Method for Determining the Performance of Gas-Phase Air Cleaning Devices

Wenhao Chen, Syracuse University

1:55 PM PM2.5 Technology Assessment and Characterization Study in New York – PMTACS-NY: An Overview of the 2001 Summer Intensive in Queens, NY

Kenneth Demerjian, SUNY Albany

2:20 PM BREAK

2:30 PM SESSION 3: HUMAN HEALTH AND PERFORMANCE IN URBAN AND BUILT ENVIRONMENTS

Chair: Jerrold L. Abraham, SUNY Upstate Medical University

2:30 PM Does IEQ Affect Productivity?

William J. Fisk, Lawrence Berkeley Laboratory

3:10 PM Evaluating Acoustical Influences on Human Performance

Dana M. Smith, Rensselaer Polytechnic Institute

3:30 PM Daylight and Productivity - A Possible Link to Circadian Regulation

Marian G. Figuerio & Mark S. Rea, Rensselaer Polytechnic Institute

3:50 PM Health Effects of Ultra Fine Particles

Mark J. Utell, University of Rochester

4:15 PM RESEARCH POSTERS (*Location: Carrier Corp., from 4:15 – 6:15.*)

5:00 PM INDUSTRY DISPLAYS (*Location: Wyndham Syracuse Hotel, from 5:00 – 6:30.*)

6:30 PM COCKTAIL RECEPTION (*Location: Harbour Ballroom, Wyndham Syracuse Hotel*)

7:00 PM DINNER (*Location: Harbour Ballroom, Wyndham Syracuse Hotel*)

Featured Speaker

Russell W. Bessette, Executive Director, New York State Office of Science, Technology and Academic Research (NYSTAR)

9:00 PM ADJOURN DAY ONE

Wednesday October 30, 2002

LOCATION: *Morning Sessions, Panel, and Reflections, Harbour Ballroom, Wyndham Syracuse Hotel*
Lunch, Grand Ballroom, Wyndham Syracuse Hotel

8:00 AM WELCOMING REMARKS

William E. Davis, Chairman, National Grid USA

8:00 AM SESSION 4: URBAN ECOSYSTEMS

Chair: Kenneth L. Demerjian, SUNY Albany

8:00 AM **Advances in Monitoring Methods for Airborne Particles**

Philip K. Hopke, Clarkson University

8:40 AM **Collection and Analysis of Respirable Aerosol Particulates at the US-Canada Peace Bridge and Upwind/Downwind Sites**

Robert Baier, SUNY Buffalo

9:00 AM **Air Flow and Particle Transport and Deposition Near Peace Bridge**

Goodarz Ahmadi, Clarkson University

9:20 AM **Flux-Towers: Studying Surface-Atmosphere Exchanges in Urban Areas**

Jeffrey Walton, US Forest Service/SUNY College of Environmental Science and Forestry

9:45 AM BREAK

10:00 AM SESSION 5: SAFE BUILDING TECHNOLOGIES AND ENVIRONMENTAL SECURITY

Chair: Mark Glauser, Syracuse University

10:00 AM **Biometric Building Security System Concept**

Lisa A. Osadciw, Syracuse University

10:20 AM **Bioanalytical Microsystems: Approaching Single Cell Level Detection of Pathogenic Bacteria and Viruses**

Antje J. Baeumner, Cornell University

10:40 AM **Fast and Reliable Prediction of Indoor Contaminant Distribution for the Entire Buildings**

Jelena Srebric, Penn State University

11:00 AM SESSION 6: Trends IN GREEN DEVELOPMENT

Chair: R. Leland Davis, NYIEQ

11:00 AM **Green Building Design**

Robert F. Fox, Jr., Fox & Fowle Architects

11:30 AM **An Overview of Battery Park City**

Timothy S. Carey, Battery Park City Authority

12:00 NOON **DestiNY USA**

Michael J. Lorenz, DestiNY USA

12:45 PM LUNCH

NYIEQ Commercialization Assistance Program (CAP) Awards

R. Leland Davis, NYIEQ Center

William B. Magnarelli, NYS Assemblyman

Featured Speaker

Paul Gilman, Assistant Administrator, Office of Research and Development, US Environmental Protection Agency

2:30 PM PANEL: CAN HEALTH, PRODUCTIVITY, SUSTAINABILITY, AND SECURITY BE RECONCILED IN BUILT AND URBAN ENVIRONMENTS?

Moderator: Edward A. Bogucz, Syracuse University

Karen Blanchard, US Environmental Protection Agency

P. Ole Fanger, International Centre for Indoor Environment and Energy

Robert F. Fox, Jr., Fox & Fowle Architects

3:30 PM REFLECTIONS

Edward Bogucz, Syracuse University

4:00 PM ADJOURN DAY TWO