THIRD DIXY LEE RAY MEMORIAL SYMPOSIUM

INTERNATIONAL CONFERENCES ON
GLOBAL CARBON MANAGEMENT AND SEQUESTRATION TECHNOLOGIES
LIFE CYCLE ANALYSIS

August 29-31, 2000 - Renaissance Hotel - Washington, DC

REGISTRATION NOTICE

Sponsored by
The American Society of Mechanical Engineers
American Society of Agricultural Engineers
American Institute of Chemical Engineers
U.S. Department of Energy
Institute for Regulatory Science

CO₂
LCA
PURPOSE OF THE SYMPOSIUM
The Third International Dixy Lee Ray Symposium follows the tradition of previous symposia honoring the world-renowned scientist, humanitarian, administrator, and elected official. Dixy, as she was known by her friends, had a deep interest in the advancement of technology and lived the life of a conservationist. This year’s Conference covers two independent and yet related topics.

GLOBAL CARBON MANAGEMENT AND SEQUESTRATION TECHNOLOGIES
The Conference is intended as a technical forum to evaluate the current status of carbon management and technologies, including recycling and disposal of carbon dioxide.

LIFE CYCLE ANALYSIS
The objective of this conference is to systematically evaluate LCA methods and their application to a variety of technologies such as energy, water supply, and other life necessities.

PUBLICATION OF MANUSCRIPTS
Authors of accepted abstracts will receive instructions for preparation of manuscripts, and are expected to provide full-length papers for consideration for publication. Furthermore, because the panel discussions are likely to reveal significant information, they will be recorded, summarized, edited, and published.

Arrangements have been made with the editors of Technology to publish peer-reviewed and accepted manuscripts as well as a summary of panel discussions in that Journal. Authors of printed papers and participants of the Symposium will receive a copy of Technology. Manuscripts should be submitted to:

A. Alan Moghissi
General Chair
Institute for Regulatory Science
5457 Twin Knolls Road, Suite 408
Columbia, MD 21045

Note: Session 1 and Panel Discussions will be attended by all, while Sessions 2 - 5 will split into either A or B groups.

A - GLOBAL CARBON MANAGEMENT AND SEQUESTRATION TECHNOLOGIES  B - LIFE CYCLE ANALYSIS

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TECHNICAL PROGRAM COMMITTEE
Richard Blauvelt, Ernest L. Daman, James Ekmann, A. Alan Moghissi, Karen Moore, Paul Plotkowski, John Steele, Charles O. Velzy

ONLINE INFORMATION
The technical program of the meeting is being arranged by two Technical Program Committees, including the representatives of cosponsoring organizations. The Institute for Regulatory Science (RSI) is the primary sponsor of the Symposium and will support the organizational aspects of the meeting. The progress of the technical program; information on preparation of manuscripts; and all other relevant information can be obtained via Internet on RSI Website at NARS.org under DLR Symposium.

CONTACT
Sharon D. Jones
Director, Training Programs
Institute for Regulatory Science
5457 Twin Knolls Road, Suite 408
Columbia, MD 21045

TECHNICAL INFORMATION
Further information on the program of the CO₂ Conference may be obtained by contacting:

Ernest L. Daman
Chair, Technical Program Committee
Tel: (973) 535-2344; Fax: (973) 535-2242
E-mail: damande@worldnet.att.net

Further information on the program of LCA may be obtained by contacting:

Karen Moore
Chair, Technical Program Committee
Tel: (208) 526-8852; Fax: (208) 526-0425
E-mail: gia@inel.gov

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TECHNICAL PROGRAM

Tuesday, August 29, 2000

Symposium Registration:  8:00 a.m - 8:30 a.m.
Plenary Session:  Senator Larry Craig (invited), John Elter and George Yates
Presentation of Dixy Lee Ray Award:  Seymour Padnos

SESSION 1 - Recycling
- Shelley Padnos. Design for Recycling®
- Susan Yester. Design for the Environment: An Auto Manufacturer’s Perspective
- Shirley T. Fleischmann. Teaching Environmentally Responsible Design: The Padnos Design Competition

PANEL DISCUSSION: LCA for Sustainable Development
- Mary Ann Curran. John Elter. Dena Sue Potestio. and Wendell Stills

PANEL DISCUSSION: Economics of Global CO₂ Management
- Thomas Graham. Mary Hutzler. and Margo Thornig

Wednesday, August 30, 2000

SESSION 2A - Carbon Sequestration and Carbon LCA
- James Ekman. Update on Carbon Sequestration Research-Progress Along the Road Mapped
- Carl-W. Hustad and Geir Bjonnes. The Norwegian CO₂-Infrastructure Initiative: The Economics and Socio-Economics of Using CO₂ for Enhanced Oil Recovery in the North Sea Basin
- Brian Glazebrook. A Life Cycle Approach to Greenhouse Gas Mitigation Strategies

SESSION 2B - LCA for Sustainable Development
- Mary Ann Curran. The EPA’s Emerging Focus on Life Cycle Assessment
- Dena Sue Potestio. Ground Transportation for the 21st Century
- Rita Schenck. Life Cycle Assessment: Indicators of Sustainability

PANEL DISCUSSION: Long Term Stewardship
- James Warner. Clyde Frank. Lawrence C. Mohr (invited)

SESSION 3A - CO₂ Sequestration and Related Technologies
- Sven-Olov Ericson. Biomass for Domestic Small Scale Heating; Electricity as Energy Carrier Versus Small Scale Combustion Evaluated by Resource Efficiency and Externalities
- Milos Krofa and David Burgess. Reduction of Greenhouse Gas Emissions by Sludge Incineration Replacement with Oxyzone 2 Biosolids Treatment and Recycling
- Kenneth E. Heselton. Carbon Reduction by Rightsizing Using Cycling Efficiency

SESSION 3B - LCA for Environmental Systems


SESSION 4A - Impact of CO₂ on Biological Systems
- Kiyoshi Dowaki. Hisashi Ishitani. and Ryuji Matsuhashi. Study on a Comprehensive Life Cycle Analysis of a Biomass Energy System
- Remi Coulon, Laurence Fournet. Greenhouse Gas Profile of a Plastic Material Derived from a Genetically Modified Plant
- Kazuhisa Ohtaguchi and Anondho Wijanarko. Elevation of the Efficiency of Cyanobacterial Carbon Dioxide Removal by Monoethanolamine Solution
- E.L. Fiscus. J.E. Miller, F.L. Booker. and C.D. Reid. Is the Crop Productivity Response to CO₂ Likely to be Overestimated?

SESSION 4B - Economics of Environmental Systems
- Anne Landfield. Life Cycle Assessment of Capital Equipment for Energy and Climate Change Strategy

Thursday, August 31, 2000

SESSION 5A - LCA of Energy Systems

SESSION 5B - The John Steele Memorial Session
- John L. Steele and Evaristo J. Bonano. Web-Based Risk and Hazard Identification and Screening
- Joseph Adler. Design Considerations for Facilities Exposed to Radioactive Materials
- Peter R. Siebach. Philip M. Daling. Steven B. Ross. and Bruce M. Biwer. Life-Cycle Evaluation of Alternative Configurations for Shipping Low-Level Radioactive Waste to the Nevada Test Site
- Jay Cornish. Proposed Methodology for Monetizing Adverse Health Effects to Workers Cleaning Up the U.S. DOE Complex

FINAL PANEL DISCUSSION: Technology, Economics, and Policy Issues Associated with Stabilizing Global Atmospheric Carbon Concentrations
- Duncan Moore. David C. Thomas. Robert Watts. and Kurt Yeager
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REGISTRATION FORM

Name______________________________________ Title ______________________________________________
Organization___________________________________________________________________________________
Street Address _________________________________________________________________________________
City, State, Zip __________________________________________________________________________________
Telephone ____________________________________ Fax ______________________________________________
E-Mail ________________________________________________________________________________________

REGISTRATION FEES AND INFORMATION

TYPE OF REGISTRATION

☐ $350

☐ $300 (for presenters, members of sponsoring professional societies, and employees of Federal and State governments)

PAYMENT (credit cards not accepted)

☐ My check (payable to Institute for Regulatory Science) in the amount of $ _______________ is enclosed.

☐ My Purchase Order is enclosed. Please bill company

Registration Fees Include: Access to sessions, registration package, copy of the journal Technology containing papers from the Symposium.

CANCELLATION/REFUND POLICY:

• No refunds will be granted for cancellations.
• All cancellations must be received in writing.

Signature: ___________________________________________________________ Date: ________________________________

Mail completed forms and payment to: DLR Memorial Symposium, Attn: Sharon Jones, Institute for Regulatory Science, 5457 Twin Knolls Road, Suite 408, Columbia, MD 21045, tel. (301) 596-1700, fax (301) 596-1707.