

**SPEAKER BIOGRAPHIES
AND
PRESENTATION OVERVIEWS**

PRESENTERS LISTED IN ORDER OF AGENDA

RUSSELL PERRY – William McDonough and Partners

Russell Perry is the managing partner at William McDonough and Partners, Architecture and Community Design, a firm that believes in maximizing design effectiveness by incorporating the elegance of natural systems. William McDonough, the author of *The Hannover Principles/Design for Sustainability* leads the firm. The regeneration of Ford's historic River Rouge plant in Dearborn, Michigan; a mixed-use project and a residential development in Banff, Alberta; and a private school master plan in Toronto, Ontario are but a few of the firm's current projects.

Perry, with over twenty years of professional management and design experience with complex architectural projects, has been recognized with numerous awards, including a national American Institute of Architects design award in 2000 and a Federal Design Achievement Award in 1995.

PRESENTATION OVERVIEW:

Perry will focus on buildings that moved beyond eco-efficiency to an eco-effective agenda, celebrating the abundance of nature: natural light, fresh air, diversity, life and creativity.

BARRY JESSIMAN – Health Canada

Barry Jessiman is Head of the Fuel and Air Quality Assessment Section of the Air Health Effects Division of Health Canada. Mr. Jessiman has occupied this position for the past seven years. In that time Mr. Jessiman has conducted and overseen assessments of a variety of air pollutants, both indoor and outdoor, as well as for alternative fuels and fuel additives. The work of the Section examines both ongoing issues such as in-use fuels and the health effects of specific air pollutants, and prospectively examines issues of potential importance such as the implications for the introduction of specific fuels or zero-emission vehicles.

Mr. Jessiman obtained his M.Sc. from the University of Ottawa in 1982 after studying the environmental impacts of persistent pollutants. He has since worked for both public and private organizations in the fields of environmental and human health impact assessment. He joined Health Canada in 1990, and has since worked on health issues related to contaminated sites, hazardous waste, chemical emergency response, and for the last eight years, the impact of indoor and ambient air contaminants.

PRESENTATION OVERVIEW:

In 2000, the Canadian Council of Ministers of Environment adopted Canada Wide Standards for Particulate Matter and Ozone. The development of the scientific basis for these Standards encompassed many years of work in examining the health effects and other aspects of these pollutants. This presentation represents an overview of the original health effects evidence which supported the development of the Standards, and the additional evidence and perspectives currently available. The meaning of these findings and the uncertainties involved in the health science will also be discussed.

DAVID PENGELLY – McMaster Institute of Environment and Health

Biography not available at time of print.

PRESENTATION OVERVIEW:

In May 2000, Toronto Public Health released the report *Air Pollution Burden of Illness in Toronto*. Using 1995 as its base year, this study estimated that each year about 1,000 Toronto residents die prematurely and another 5,500 are admitted to hospitals because of six smog-related air pollutants. In addition to these severe effects, air pollutants are associated with thousands of preventable visits to hospital emergency rooms, and increased symptoms of chronic bronchitis and asthma.

Toronto Public Health sought to increase awareness of the adverse impacts of air pollution on health so as to support and accelerate local air quality improvement initiatives, as well as influence federal and provincial policies and regulations that govern air emissions. Raising public awareness is the first step of a long-term strategy to encourage the community to adopt behaviours to improve the air.

The purpose of the study (reported in November 2001) was to examine whether the air quality classifications of the Ontario Air Quality Index (AQI) values appropriately reflect the state of air quality and associated burden of illness in Toronto. The AQI categories are “Very good” (AQI<16), “Good” (AQI=16-31), “Moderate” (AQI=32-49), “Poor” (AQI=50-99) and “Very poor” (AQI=100+).

The study demonstrated that, for the City of Toronto as a whole, more than an estimated 92% of the premature mortality and hospitalization occurs when the Air Quality Index is in the “Very good” or “Good” range. An estimated 8% of the burden of adverse health outcomes measured occurs when the air quality is in the “Moderate” or “Poor-Very poor” range. This does not mean that “Poor” air quality has little adverse health outcome, but rather that the breakpoints (which indicate the concentration range of a pollutant) used to classify the “Good” and “Very good” AQI categories do not always correspond with pollutant levels that do not cause adverse health impact. This study shows that the air quality that is currently characterized by the AQI as “Very good” or “Good” is responsible for the major burden of adverse health effects in Toronto.

The Ontario AQI system as it currently exists cannot always communicate air quality conditions that may produce adverse health effects. The system needs to be modified to reflect more accurately an up-to-date understanding of the health and environmental impacts of air pollution.

BRIAN MCCARRY – McMaster University

Brian McCarry's environmental research interests include bioassay-directed fractionation of environmental samples to identify new bio-active contaminants, development of source apportionment methodologies to distinguish contributions of contaminant sources, multi-media transport of contaminants in urban and rural ecosystems, and chemical transformations of contaminants in air and identification of new genotoxins. Brian is also involved in polymer membrane research to develop novel pore-filled membranes for separations of lino's by nanofiltration, electrodialysis and diffusion dialysis. The applications of this include water softening at low pressures and acid recovery. His community environmental involvements include Clean Air Hamilton as chair of the committee, the coordination group and the Research and Policy Committee. Brian is also director of the Bay Area Restoration Council and member of the Bay Area Implementation Team, member of the Randle Reef Remediation Technical Steering Committee and the Member of the Red Hill Creek Watershed Planning Committee.

PRESENTATION OVERVIEW:

Clean Air Hamilton is the most recent phase of the **Hamilton Air Quality Initiative** (HAQI) partnership. The first phase of the partnership began in 1994 and involved a comprehensive research program that analyzed local air quality data from the previous 20 years. The HAQI partnership involved representatives from industry, all levels of government (federal, provincial and municipal), academia, corporate consultants, community groups and the general public. The first phase culminated a series of groundbreaking reports in the fall of 1997 that addressed the human health, environmental and economic impacts of air pollution in Hamilton.

The second phase began in 1998 with the formation of an Implementation Committee that concentrated its efforts on implementation of the key recommendations and strategies that were outlined in the 1997 HAQI reports. These efforts focused on developing practical solutions to reducing air quality impacts in Hamilton and have resulted in a variety of activities including a fleet-greening partnership, a community tree planting program, an international air conference, an electronic information network between Southern Ontario and US communities, a road dust study, a truck emissions research project, ongoing assessments of health effects impacts, a method for monitoring local improvements, and more.

BARRY BOYER – Buffalo-Niagara Institute for Local Governance & Regional Growth

Barry Boyer is a Professor of Law at the State University of New York in Buffalo. He is Co-Director of the State of the Region project developing performance indicators for the Buffalo-Niagara Region, sponsored by the University of Buffalo Institute for Local Governance and Regional growth. This project received awards from the Western New York chapter and the Upstate New York chapter of the American Planning Association. Mr. Boyer is also vice president and member of the Board of Directors for the Friends of the Buffalo-Niagara River and member of the Board of Directors for the Erie County Environmental Education Institute.

PRESENTATION OVERVIEW:

Air quality and other environmental problems are experienced, and need to be addressed, at all scales from the neighborhood to the biosphere. Emerging popular scholarly interest in regional governance creates opportunities to understand and improve air quality at the regional scale, even when the region encompasses different, national, provincial, state and local governments.

REID EWING – Rutgers University

Reid Ewing is a Research Professor at Rutgers University and Research Director of the Surface Transportation Policy Project in Washington, D.C., the recognized U.S. leader in transportation reform. Reid is also Acting Director of the Alan M. Voorhees Transportation Center at Rutgers University, overseeing the National Transit Institute and Transportation Policy Institute. He is the author of *Best Development Practices*, the American Planning Association's top selling book three years in a row; *Traffic Calming State-of-the-Practice*, projected to be one of Institute of Transportation Engineers' top selling books ever based on first-year sales; *Pedestrian- and Transit-Friendly Design* for the Florida Department of Transportation, and *Context-Sensitive Design Standards for Main Streets* for the New Jersey Department of Transportation. He has written many articles on growth management, community design, and traffic management, and speaks and consults widely on these subjects. Reid holds master degrees in Engineering and City Planning from Harvard University and a Ph.D. in Transportation Systems and Urban Planning from the Massachusetts Institute of Technology. Formerly, he was a state legislator in Arizona, and before that, a Congressional staff director.

PRESENTATION OVERVIEW:

Presentation overview not available at time of print.

SUE ZIELINSKI – Moving the Economy

Sue Zielinski (MES) is co-founder and Director of Moving the Economy and has worked for over 10 years with the City of Toronto Planning Department developing programs and multistakeholder partnerships focused on sustainable transportation, or new mobility development. She is a founding board member of Transportation Options and the Green Tourism Association, a member of the board of the Centre for Sustainable Transportation, and an alto in Toronto's Choir On Bikes. She advises on a wide range of local and international policies and initiatives, including the City of Toronto's Anti-Smog and Sustainable Transportation strategies as well as Transport Canada's Sustainable Development Strategy, the OECD EST Project and the World Business Council on Sustainable Development (WBCSD) Mobility Project.

PRESENTATION OVERVIEW:

New mobility is where transportation meets new economy. It is supported world-wide by an emerging industry cluster that comprises telecommunications and e-business, logistics, transportation, tourism, real estate development, finance and investment, and a broad range of new and innovative services, products, and technologies. Its focus: real life solutions for moving people, moving goods, and moving less, in ways that are integrated, service-oriented, sustainable, safe, and knowledge based. Sue Zielinski will paint a picture of new mobility trends, sharing real life examples from around the world and findings from MTE's New Mobility Study. She will make a practical connection between applied innovation and improved air quality.

JOANNE MCCALLUM – McCallum Sather Architects Inc.

Biography not available at time of print.

PRESENTATION OVERVIEW:

Presentation overview not available at time of print.

MARK MITCHELL – Keen Engineering Co. Ltd.

Mark is a Vice President and Director of Keen Engineering and has serviced Keen clients for over 26 years. Mr. Mitchell completed his education at the University of Washington, with an Honours degree in Mechanical Engineering in 1972.

He joined Keen Engineering after graduation and has worked at each professional level from production to team leader. He is a licensed professional engineer in Ontario, British Columbia, Nova Scotia and Washington State, USA.

He is currently involved with the Education Committee of the US Green Building Council to help design and implement educational tools to transform the building industry in North America.

Mr. Mitchell has always supported finding innovative and more energy efficient ways of designing buildings. In 1984, Mr. Mitchell was the recipient of the Canadian Consulting Engineers Award of Merit for an innovative heat recovery system that resulted in substantial energy savings over conventional system design.

In 1990, Mr. Mitchell developed a green “decision making matrix” to assess the application of Green Engineering to the Body Shop Headquarters which began the green movement in Ontario.

Mark’s recent specific relevant experience includes many new sustainable design features that are dramatically improving the quality of buildings. Examples include:

- Concordia University Integrated Complex, Montreal, QC
 - 600,000 ft² Engineering and Fine Arts Building
 - Green Engineering Design including:
 - Daylighting strategies
 - Natural Ventilation strategies
 - CBIP Application at 57% MNECB
 - Assessment of double façade and access floor
- Bahen Information Technology Centre – University of Toronto. Under Construction.
 - 330,000 ft² Information Technology Centre c/w 5000 ton central cooling plant and waste heat recovery system off central steam plant. CBIP compliant @52% MNECB.
- SCAET – The Sheridan Centre for Animation and Emerging Technologies at Sheridan College. Completed August 2000.
 - Underfloor displacement ventilation in Lecture Auditoriums.
- IDRC Call Centre – Buffalo, New York. Completed December 1999.
 - 18” Underfloor air supply system and control zoning for a single 70,000 ft² floor plate.
- 372 Bay Street – Keen Office. Completed in 1998.
 - Advanced office retrofit – Downtown Toronto
 - 8” Underfloor air supply system

- Operable windows c/w hot water radiant heat.
- 100% natural daylighting.
- Indirect lighting – two level switching
- Body Shop Canadian Headquarters. Completed in 1992.
 - Retrofit of existing 60,000 ft² printing press building
 - Water Source Heat Pump System
 - Wastewater Infrastructure including “Living Machine” and backup system and monitoring design.

Mark was instrumental in the development of the Quality Assurance standards for engineering firms in the province of Ontario, and was the past Chairman of the Association of Consulting Engineers in 2000.

Mark is a frequent Charette leader and speaker on Green Engineering including the OAA Professional Development Seminar on Greening of the Health Care Facility May 2001.

PRESENTATION OVERVIEW:

Presentation overview not available at time of print.

CHRISTOPHER MORGAN – City of Toronto

Christopher Morgan, Ph.D., was a university professor in Ontario in the fields of physical geography and environmental science for approximately 10 years. He then joined and remained for a further 10 years as the City of Toronto Planning Department's Senior Policy Planner (Environment). He moved to become the Senior Air Quality Specialist (a combined senior scientist and senior policy position) as part of the Air Quality Improvement Branch with the Department of Works & Emergency Services in 1999.

Since which time he has been instrumental in helping to form the direction of the unit and in managing several projects that have helped to determine Toronto's best direction forward.

These have dealt with – establishing Toronto's air quality inventory, monitoring and modelling system; evaluating Toronto's general air quality and smog event impacts; regional growth management studies; and issues of energy provision and transportation as relate to air pollution. He also continues to teach graduate courses at the University of Toronto Planning School – specifically in Environmental Planning and Policy. And as a member of the Region of Halton's Ecological and Environment Committee (EEAC) and in conjunction with Regional Planning Staff, he continues to promote the inclusion of policies respecting Air Quality in the Region's forthcoming Official Plan and to promote the necessary implementation measures to support the policies.

PRESENTATION OVERVIEW:

Land Use Planners are often chided for not addressing sprawl 50 years or ago. It is said that if they had the present problems would not be so difficult. Conversely, if and where such problems are addressed now – perhaps the problems of 50 years into the future, as may still be caused under business-as-usual scenarios, can be avoided. Though perhaps not obvious to everyone, land use planning can not provide a quick fix, nor even a simple or full fix for its previous oversight. But perhaps it can offer a means of mitigating the future burgeoning problem of sprawl and the related loss of countryside, the degradation of air quality and a continuing cause of further climate change.

The City of Toronto is undertaking a study (to be completed before year end) on regional growth strategies for managing development patterns, protecting valuable countryside such as the Oak Ridges Moraine, and reducing greenhouse gas emissions and air pollution. The study and its findings will form a major part of the paper.

The paper will address the background of land use planning and sprawl in general and the background and findings of the study in particular. In outline the work is to:

- i) assess the implications and costs of the status quo/business as usual approach
(where are we going?);
- ii) develop an alternate vision

- (where would we like to go?); and
- iii) identify possible strategies to achieve the alternate vision (how do we get there?).

The study's intended main product is to suggest a strategic approach to guide the form of future urban development and infrastructure provision that appropriately addresses countryside and air quality protection. The study will be used to inform and guide the City's own planning and environmental, policies and implementation initiatives. The approach could then be advocated, and potentially adopted and implemented across the City and the regions of the GTA alike through available or new mechanisms.

Conclusions drawn from the study will be augmented by, and discussed in the context of, the research and findings of the of Air Quality Improvement Branch respecting sources, species and receptors of general air quality ("hot spots"), smog events and climate change contributions. Conclusions will also be evaluated in the context of findings from a related policy and legal study to address what improvements can also be achieved through other municipal measures.

MIKE LEPAGE – Rowan Williams Davies & Irwin Inc. (RWDI)

Mike Lepage is a certified Consulting Meteorologist and Project Director at RWDI. He has nearly 20 years of experience and has published numerous articles and conference papers on industrial, urban and regional air quality. Mr. Lepage is a participant in various government and other research programs on regional air quality, and a member of the American Meteorological Society and the Canadian Meteorological Society.

PRESENTATION OVERVIEW:

The presentation deals with air quality models as a tool for predicting how green urban designs affect the quality of the air we breathe. Regional air quality models help to define the size of the region or airshed where emissions need to be controlled. They also predict the effect of various urban design initiatives so that air quality priorities can be established. The presentation will give examples of how regional air quality models currently are being used by RWDI to study smog problems in urban regions of Canada and elsewhere.

DANIEL CAYEN – Ontario Ministry of Environment

Daniel Cayen has been with the Ontario civil service for the past 19 years. He is the Director of the New Program Development Group at the Ministry of Environment. The Group is an integral part of the team put in place to implement the *Managing the Environment* report. The report, commissioned by Premier Harris, recommends fundamental shifts on how Ontario manages environmental protection. Prior to this, Daniel was responsible for leading the Ministry of Environment's regulatory review, leading to the release of the document *Better, Stronger, Clearer Environmental Regulations for Ontario* on November 27, 1997. Daniel has also worked in communications, constitutional policy, aboriginal affairs and labour market policy.

PRESENTATION OVERVIEW:

The Ontario Ministry of the Environment has been challenged to move towards a more strategic approach to managing the environment. This shift involves moving beyond traditional approaches to environmental responsibilities to a more comprehensive approach emphasizing continuous improvement for all sources of pollution, multimedia and cumulative impacts, and broader public participation and access to information.

Mr. Cayen will be speaking about the key elements of the Ministry's new environmental management initiatives. These performance-based integrated compliance assurance initiatives seek to achieve improved pollution prevention outcomes. These initiatives place a greater emphasis on the government's role in setting outcomes and then working with the regulated community and the public to determine how best to meet them. It is the Ministry's objective that this flexible approach will encourage environmental and technological innovation and foster a commitment to continuous improvement in environmental performance.

FRED EISENBERGER – Green Venture Self Sufficient House

Fred Eisenberger was born in Amsterdam Holland and immigrated to Canada at the tender age of seven. He is married to Diane who works as a dental hygienist and they have two children...Brett 19 who is studying journalism at Carlton university in Ottawa (donations Gratefully accepted) and daughter Alida a Grade 10 French Immersion student at Sherwood Secondary School.

Fred was a member of council in the old City of Hamilton from 1991 until the year 2000 when he put in a valiant effort to become the Mayor of the new City of Hamilton. During his tenure on council representing ward 5 Fred was chairman of

- The Environmental Services Committee
- The Parks and Recreation Committee
- The Licensing Committee
- The West Harbourfront Development Committee

He was a member of the following boards, commissions and committees:

- Transportation services
- Planning and development
- Hamilton conservation Authority
- The Royal Botanical Gardens
- The Art Gallery of Hamilton
- Vision 2020 review committee and task force
- Hamilton Harbour Remedial Action Plan
- Hamilton Historical Board
- Hamilton Air Quality Initiative
- Creative Arts
- Hydro Restructuring Committee

As well as various neighbourhood associations and committees too numerous to mention.

He holds an honours Diploma in Municipal Planning and Development as well as diploma in Communication Arts and continues his studies towards a Bachelor of Environmental Science at the University of Waterloo. He currently is employed with Green Venture as the business development manager and is a consultant to The American Water Corporation Formerly Azurix North America and soon to be RWE which is a multinational water and waste water treatment company. Fred sits on various boards and is the Chairman of the New Hamilton Port Authority.

PRESENTATION OVERVIEW:

Green Venture, a non for profit environmental organization is creating a demonstration house from an existing residential building and grounds called the Glen Manor Ecohouse. The heritage home in the east end of Hamilton will be an environmental

museum open to the public and will demonstrate practical home retrofits that will benefit the environment, reduce the strain on municipal infrastructure and show homeowners how to reduce their increasing utility costs.

MURRAY PATERSON – Ontario Power Generation Windfarms

Murray Paterson is currently Manager – Business Development in the newly created OPG – Evergreen Energy business in Ontario Power Generation's Electricity Production Group. He is responsible for adding new green power supply to OPG's generation portfolio. Recently, Murray was also named Vice President of Huron Wind Inc, a joint venture between OPG and British Energy Canada, that will develop the first commercial wind farm in Ontario near Kincardine, Ontario.

Ontario Power Generation (OPG) is a new company set up following the break up of Ontario Hydro in 1999 to manage Hydro's generation assets.

Mr. Paterson holds a MSc. in geography from the University of Toronto and has over 25 years of experience in the environmental planning and assessment field with the former Ontario Hydro. He has extensive expertise in managing environmental issues and assessing legislative and other strategic initiatives affecting electrical utility planning and operations.

At Ontario Hydro (now OPG), Murray has participated in developing and implementing a sustainable energy development strategy with particular emphasis on providing leadership in the development and promotion of opportunities for the use of renewable energy technologies.

In 1999, Murray received Ontario Hydro's President's Sustainable Energy Development Champions Award in recognition of his ongoing efforts to promote and implement sustainable development practices within Ontario Hydro.

Murray has been married to Debbie for 26 years and has three children – Mark, Erin and Megan.

PRESENTATION OVERVIEW:

Provide a discussion of OPG's Green Power Program which has committed to quadruple the amount of Green Power (to 500 MW) in OPG's generation mix by 2005. The presentation will discuss sources of Green Power, review Green Power market research conducted by OPG and others, and outline OPG's plans for developing Green Power projects for the Ontario electricity market.

BRYAN YOUNG – Toronto Renewable Energy Coop

Bryan Young is the General Manager of the Toronto Renewable Energy Co-operative, which is working with Toronto Hydro Energy Services to develop North America's first urban-based windpower project. He has been with the project since its inception from its community roots in 1997. He received his Masters Degree in Environmental Studies from York University, specializing in Community-based renewable energy systems.

PRESENTATION OVERVIEW:

Bryan will discuss the Waterfront Windmill Project as a vehicle for direct community investment in renewable energy and about the potential for replication of the co-op model. A very similar model has been critical in getting Denmark to the point where almost 15% of its needs are met through clean, green wind energy.

DON MARSALES – Hamilton District Energy Project

Don is currently Chief Operating Officer of Hamilton Hydro Inc where he is responsible for the day to day operations of the local electrical distribution company in Hamilton.

A graduate of Queen's University in 1969 in Electrical Engineering he has thirty-three years experience in many facets of the electric power industry in both the public utility area and the private sector with Westinghouse Canada where he gained experience with small power generation projects.

Don is also President of Hamilton Community Energy a new private company, which has been charged with the responsibility of developing a district heating system in downtown Hamilton. This project, which will be the subject of his talk, is rapidly becoming a full time job as the system approaches a construction stage.

Don is an avid curler and golfer. He has also been involved with the operation of the Ontario Snowboard Association where his stepson currently competes at the national level. When the snow disappears he can often be found tending his garden and smoking a stogie.

PRESENTATION OVERVIEW:

The presentation will include an explanation of the concept of district energy, a summary of its benefits to society, municipalities and customers. Examples of its extensive use in Europe will be provided.

A review of the long term vision of using industrial waste heat from Hamilton industry will be followed by an overview of the scope and status of the current initial phase of the Hamilton Downtown District heating project. The benefits of using the concept of an efficient natural gas fired Combined Heat and Power Plant will be explained.

The presentation will conclude with a brief look at some of the challenges that must be faced in taking a project forward from an attractive feasibility study to the actual implementation stage.

DEAN SAITO – California Bureau Of Automotive Repair

Dean Saito is currently Chief of the Smog Check Operations Branch of the Bureau of Automotive Repair. Dean has over twenty-four years of experience in the air pollution field having worked for the California Air Resources Board (ARB) for over twenty-three years. During his tenure at the ARB, Dean was most recently the Manager of the Planning/Liaison Unit for the ARB having the responsibility of working with local air districts and developing air quality plans for the Federal/California Clean Air Acts. Currently, Dean is Chief of the Smog Check Operations Branch for the Bureau of Automotive Repair, leading the effort to implement California's Smog Check Program, a cornerstone of California's air quality control strategy to achieve healthful air quality for all of California.

PRESENTATION OVERVIEW:

California Mobile Source Emissions Trends and Reductions Needed with regards to Diesel sources, In-Use emissions, Evaporative emissions and Federal measures.

ED GILL – Ontario Ministry of Environment

Currently the Director of the Drive Clean Office, Ontario Ministry of the Environment, Ed Gill has held a variety of positions within the Ontario Public Service. A professional engineer with experience in both private sector and public sector, Mr. Gill has held progressively more senior positions including Assistant Regional Director here in Hamilton before joining the Drive Clean Program in September, 2000.

PRESENTATION OVERVIEW:

Presentation overview not available at time of print.

DENIS CORR – Ontario Ministry of Environment

Dr. Denis Corr is Technical Support Manager in the Ministry of Environment's West Central Region. Denis has performed research on health impacts of air pollution, better methods of delivery of aerosolized asthma medication (the Aerochamber) and air quality monitoring methods. He has been responsible for air quality and water quality monitoring networks, water treatment plants, planning and environmental assessment and regulation of pesticide use, as well as leading an environmental emergency response team in a number of major emergencies, including the Hagersville tire fire. Denis has been involved from the inception of Clean Air Hamilton/Hamilton Air Quality Initiative, and a number of other partnerships to improve environmental quality.

PRESENTATION OVERVIEW:

The Normal Use Vehicle (NUvehicle) program is intended to encourage the introduction of innovative, low emission, low energy use vehicles into normal fleet use in Hamilton. The program began with three Honda Insights and one Toyota Prius. Evaluation of these vehicles compared to normal fleet vehicles showed dramatic reductions in fuel use and pollutant emissions, yet the vehicles had comparable operating costs over a five-year lease . Subsequently, the Ministry of the Environment has purchased six Toyota Prius and the City of Hamilton is proposing to purchase 10 more hybrid vehicles.

ISABELL BERGER – Erie County

Isabell Berger has worked for the Erie County, New York Department of Environment and Planning since 1999. In her current position she is Energy Coordinator for County projects relating to energy efficiency and conservation. In this capacity, she is responsible for the establishment of a compressed natural gas refueling station in Western New York through the National Clean Cities Program. Prior to joining the Department, Ms. Berger worked for environmental consulting firms in Buffalo and New York City. Her project work ranged from alternative energy to hazardous and solid waste disposal projects. She has also worked for the U.S. Environmental Protection Agency, the National Office of Coastal Zone Management and Regional Planning Agencies. She holds a B.A. degree in Environmental Conservation from Barnard College and a M.F.S. in Environmental Science from Yale University.

PRESENTATION OVERVIEW:

The Clean Cities Program sponsored by the United States Department of Energy (DOE), supports local partnerships that deploy alternative fuel vehicles (AFVs) and build supporting infrastructure. By encouraging AFV use, the Program enhances environmental quality and energy security at both the national and local levels. This initiative is geared toward easing our economy away from petroleum based fuels. Alternative fuel vehicles operate on compressed natural gas, propane, 85% ethanol, 85% methanol, or electricity. In addition, support is being given for biodiesel, which is a vegetable oil based fuel and can be used in place of or as an addition to regular diesel. Unlike traditional government programs, Clean Cities takes a unique voluntary approach to AFV development. By working with coalitions of local stakeholders to help develop the AFV industry and integrate this development into larger planning processes, Clean Cities is able to focus on individual community needs.

The impetus for Erie County's involvement in the Clean Cities Program stems from a desire to improve air quality, advance the alternative fuel technology and perhaps do our share to alleviate global warming. Clean Cities is dedicated to the objectives of creating new jobs and commercial opportunities, facilitating alternative fuel vehicle production, expanding local refueling infrastructure, increasing the use of alternative fuel, and developing Clean Corridors. The Program is also intended to increase public awareness of the use, availability and reliability as well as the health benefits associated with alternative fuels.

An additional element in the Erie County alternative fuel program involves the Federal Highway Administration. A small portion of general highway budget money has been set aside to localities for projects to improve air quality. Erie County was awarded a project grant to build a compressed natural gas refueling station in Buffalo. The intention is to spur the local market for alternative fuel vehicles by providing centrally located refueling. On the State level, the New York Energy Research and Development Authority

(NYSERDA) provides financial incentives to advance energy efficiency and conservation programs through alternative transportation and fuel initiatives.

DOE provides a small amount of financial support and incentives for the program through grant opportunities, as well as educational opportunities and materials. Clean Cities International is using its experience in North America to help other countries realize the benefits of alternative fuel vehicles. The environmental benefits are clear and all nations can profit from cleaning their air, producing fuels domestically, and enhancing local economic activity. The international program works with governments, organizations and individuals to help them establish the foundation for viable alternative fuel markets.

ART WILLIAMS – STAPPA/ALAPCO

Art Williams is President of the Association of Local Air Pollution Control Official and the Director of the Jefferson County APCD.

Biography not available at time of print.

PRESENTATION OVERVIEW:

Presentation overview not available at time of print.

SONYA KAPUSIN – Southern Ontario Clean Airshed Network

Sonya Kapusin is coordinator of the Clean Air Hamilton Committee and chair of the Southern Ontario Clean Airshed Network Initiative. She is currently working in the Planning and Development Department at the City of Hamilton and has received a Bachelor of Environmental Studies Degree at the University of Waterloo.

PRESENTATION OVERVIEW:

The purpose of the Southern Ontario Clean Airshed Network is to exchange information on air quality developments and act collectively on transboundary and intra-provincial air pollution issues. The goal of the network is to improve air quality in conjunction with others, thereby reducing the human and environmental health impacts in Southern Ontario.

The current membership consists of approximately 30 citizens, politicians, municipal employees, provincial and federal government employees, public health inspectors, scientists, professors and policy and program specialists of a variety of community groups and government agencies.

JACK GIBBONS – Ontario Clean Air Alliance

Jack Gibbons is the Chair of the Ontario Clean Air Alliance and the Director of Pollution Probe's Energy Programme.

Mr. Gibbons was Economist, Energy Probe, 1979 - 1982; Project Manager, Ontario Energy Board, 1985 - 1989; Senior Economic Advisor, Canadian Institute for Environmental Law and Policy, 1989 - 2000; and Commissioner, Toronto Hydro, 1995 - 1997.

PRESENTATION OVERVIEW:

The Ontario Clean Air Alliance's goal is to phase-out Ontario Power Generation's 5 dirty coal-fired power plants.

In March 2001 Ontario's Environment Minister, Elizabeth Witmer, announced that the Lakeview coal-fired generating station must stop burning coal by April 2005. Lakeview is the single largest source of air pollution in the Greater Toronto Area.

Elizabeth Witmer and Tony Clement have recently announced that they support the phase-out of coal burning at the Nanticoke Generating Station. Nanticoke is Canada's #1 source of air pollution.

The Ontario Clean Air Alliance is a coalition of 80 organizations including the City of Hamilton, the Regions of Peel and Waterloo and the City of Toronto. Our member organizations represent over 6 million Ontarians.

KEITH STEWART – Toronto Environment Alliance

Dr. Keith Stewart is the Smog and Climate Change coordinator for the Toronto Environmental Alliance, a non-profit organization that was formed in 1988 to provide opportunities for Toronto citizens and groups to work together to develop local solutions to environmental problems. Through research, education and action, TEA promotes a healthier, greener and more sustainable society for Toronto. Keith joined TEA after completing his Ph.D. dissertation on Ontario environmental policy at York University in 1999. He has taught courses on public policy and the environment at York, Trent and Ryersons Universities, and has worked for a variety of non-profit groups over the last twelve years.

PRESENTATION OVERVIEW:

Non-profit groups play a vital role in mobilizing civil society to improve urban environmental governance. This presentation will outline some of the tools and strategies, such as municipal smog plans and Smog Report Cards, which the Toronto Environmental Alliance has used to promote alternatives to fossil fuels in Toronto.

DEREK CORONADO – Citizens Environment Alliance

Biography not available at time of print.

PRESENTATION OVERVIEW:

Presentation overview not available at time of print.