

OSPE OPEA Winners 09 Press Release

Final

Monday, October 5, 2009

Ontario Professional Engineers Awards Recipients Selected for 2009

TORONTO, Monday, October 5, 2009 – The Ontario Society of Professional Engineers and Professional Engineers Ontario have announced the winners of the 2009 Ontario Professional Engineers Awards. The awards will be presented at a special black tie gala ceremony on Saturday, November 21, 2009, at The Toronto Congress Centre. Members of the media are invited to attend. Awards are given to Professional Engineers who have shown exemplary service in their respective fields, to their communities and to their profession.

Selected for the Professional Engineers Gold Medal

The Late Victor Milligan, P.Eng., Co-founder, Golder Associates

Victor Milligan had only one standard. Whatever he did, it had to be the best. He was an international expert in dam construction, founder of one of the world's most successful consulting engineering firms, mentor to young engineers and scientists, and a world-class athlete. He was President, then Chair of Golder Associates, formally retiring in 1994, but continuing with Golder as a retained consultant and, in his private practice, serving on international panels and boards. On March 4, 2009, Mr. Milligan passed away while vacationing in Mali, West Africa.

Engineering Medal – Engineering Excellence Category

Radhey Mohan Mathur, PhD, P.Eng., FCAE, Executive Consultant, Energy Systems Professor and Dean Emeritus, Faculty of Engineering, University of Western Ontario.

A world-renowned researcher in electrical machines and flexible power transmission systems, R. Mohan Mathur has contributed to the engineering profession as an innovative educator, academic administrator and as the architect of new and visionary initiatives that will influence the next generation of engineers.

J. Moyra J. McDill, PhD, P.Eng., FCAE, Professor and Associate Chair

(Undergraduate Studies) Department of Mechanical and Aerospace Engineering, Carleton University

Dr. McDill has used her expertise in thermal-mechanical numerical analysis to help keep Canada competitive in the global economy and her gifts as a ground breaking educator and mentor to inspire her colleagues and students alike. Dr. McDill's research focuses on ways to apply thermal-mechanical numerical analysis to such manufacturing processes as welding. Numerical analysis is widely used in new product and process development in the aerospace, automotive and rail equipment industries. Techniques developed by Dr. McDill have been used by international researchers and by such companies as Volvo and Bayer.

Thomas Szirtes, PhD, P.Eng., Consultant/Lecturer

For more than 50 years, Thomas Szirtes has made numerous outstanding contributions to the practice of mechanical and biomedical engineering. He began his engineering career designing and testing diesel motors in his native Hungary in the early 1950s. Making Canada his home in 1956, he worked for the next 37 years with leading Canadian engineering companies like RCA and Spar Aerospace in the advanced, high-technology environment of telecommunications, satellite tracking, robotic space manipulators and remote tools for the nuclear industry. Dr. Szirtes holds five U.S. and world-wide patents, and is the author of a definitive 850-page textbook, *Applied Dimensional Analysis and Modeling*, now into its second edition. He has also published over 80 scientific and engineering papers and was the founding editor of the *Spar Journal of Engineering and Technology*.

Engineering Medal – Entrepreneurship Category

Peter B. Sorensen, P.Eng., President, EMS-TECH Inc.

Since Peter Sorensen co-founded EMS Associates 20 years ago in a shopping mall office previously occupied by a beauty salon, the business has grown into a world leader in the design and supply of bulk material handling systems. Today, EMS-TECH is a multi-disciplined engineering team comprising experts in the engineering, design, manufacturing, purchasing and management of custom-designed bulk material handling equipment and industrial systems. As a result of the company's success, EMS-TECH received the Global Traders Gold Level Award in Innovation and the Silver Level Award in Market Expansion in 2006. The awards are sponsored by the Ontario government and recognize exceptional contributions by small- and mid-sized companies.

Engineering Medal – Management Category

Raymond Joseph Mantha, P.Eng., Executive Director, Provincial Highways Management, Ontario Ministry of Transportation

The reputation of the Ontario Ministry of Transportation (MTO) as a world leader in moving people and goods is due, in no small measure, to Ray Mantha's more than 30 years of visionary leadership in several different capacities. As a member of MTO's senior management team, Mantha is driven to test and implement innovation. He continually challenges staff to be creative and forward thinking in their work to deliver a safe, reliable provincial highway network that promotes economic, environmental and social sustainability.

Lloyd Alexander McCoomb, PhD, P.Eng., President and Chief Executive Officer Greater Toronto Airports Authority

With more than 35 years of experience in transportation and engineering management, Lloyd McCoomb is recognized throughout the world as Canada's leading practitioner in airport planning, functional design, finance, implementation and management. As President and CEO of the Greater Toronto Airports Authority, Dr. McCoomb manages a large, multi-disciplinary, non-share corporation with annual revenues topping \$1 billion; an operating budget of over \$570 million; and 1,300 professional and support staff. As well, he helps to train the next generation of Canadian transportation engineers as an Adjunct Professor in Civil Engineering at the University of Toronto.

John David Tofflemire, P.Eng. Director of Community Services, Municipality of Leamington
As Windsor's Commissioner of Traffic Engineering and subsequently City Engineer and General Manager of Public Works, Tofflemire managed multi-million-dollar capital works budgets and supervised several hundred staff. Today, residents and visitors can find his fingerprints on many of the city's major developments including the city's computerized traffic control system, Windsor Riverfront Plaza, Casino Windsor, City Hall Square Precinct, Tunnel Plaza, Walker Road CP Rail Grade Separation and the largest capital works project ever undertaken in Windsor – the \$110 million expansion of the Lou Romano Water Reclamation Plant. He also spearheaded such community-based planning projects as the Windsor Area Long Range Transportation Study; the Bicycle Use Master Plan; the Strategic Rail Study; and the Environmental Master Plan.

Engineering Medal – Research and Development Category

Chul B. Caleb Park, PhD, P.Eng., Professor, Department of Mechanical and Industrial Engineering, Tier 1 Canada Research Chair in Microcellular Plastics, University of Toronto
Chul B. Caleb Park is a world leader in developing innovative, cost-effective technologies to produce foamed plastics, including microcellular processing, inert gas-injection processing, rotational foam molding, wood-fibre composites and open-cell foams. To recognize his outstanding research achievements, Dr. Park has received numerous honours and awards. In 2009 alone, he was named a Tier 1 Canada Research Chair; received the Robert W. Angus

Medal from the Canadian Society for Mechanical Engineering; a Canadian Foundation for Innovation LEF award; and he was made a Fellow of the Canadian Academy of Engineering.

Greg J. Evans, PhD, P.Eng. Professor, Department of Chemical Engineering and Applied Chemistry University of Toronto

Throughout his career, Greg Evans has made remarkable strides in applying science to serve society, paying specific attention to helping our environment and improving public health. His research seeks to understand how particles released into the atmosphere from anthropogenic and natural sources interact with other pollutants to result in poor air quality and risk to public health. Dr. Evans also co-founded the Leaders of Tomorrow program to promote leadership skills and societal engagement of engineering students at the University of Toronto.

Nazir P. Kherani, PhD, P.Eng., Associate Professor, University of Toronto

Underlying Dr. Nazir Kherani's research career is the theme of energy, leading him to pioneering work in the fields of tritium, and solar science and technology. As a senior scientist with Ontario Hydro Research Division, Dr. Kherani became recognized as an international expert in tritium science and technology, and his work led to the development of world-class tools for the detection, safe handling and storage of tritium as used at CANDU stations and tritium laboratories around the world. Dr. Kherani's research and development has led to more than 100 publications in such prestigious journals as *Advanced Materials*, *Optics Express* and *Applied Physics*. He has five U.S. patents and is the author of a textbook on electrical fundamentals for undergraduate students.

Edward Arthur McBean, PhD, P.Eng., Professor, School of Engineering, Canada Research Chair in Water Supply Security, University of Guelph

An expert researcher in the fields of environmental engineering, risk assessment and interpretation of statistics, Edward McBean has used his knowledge to improve engineering practice in both the developed and the developing world. Dr. McBean's research involves assessing water supply systems and helping decision makers find ways to make those systems safer in Canada and abroad. His work has been instrumental in evolving the modeling of the fate and transport of contaminants as they move through the environment which has led to applications to treat leachates from solid waste landfills and mitigate contaminated groundwater, helping to ensure the safety of our water supply and the environment.

Ian Donald Moore, PhD, P.Eng., Professor, Civil Engineering

Canada Research Chair in Infrastructure Engineering, Queen's University

The name of Ian Moore is synonymous with excellence and innovation in the geotechnical, geosynthetics and soil-structure interaction communities with the results of his work contributing to North American and international codes of practice. Dr. Moore is well known as the leading expert on buried infrastructure for municipal and highway applications in Canada and beyond. He has established his reputation in this area through the development of non-linear computer modeling and through carefully designed and executed experimental projects.

Javad Mostaghimi, PhD, P.Eng., Professor, Department of Mechanical and Industrial Engineering, Distinguished Professor in Plasma Engineering, University of Toronto

Javad Mostaghimi is internationally recognized in the area of thermal spray coatings. His work has led to major advances in the aerospace, automotive, power generation and resource processing industries. Thermal spray coating is an enabling technology widely used to improve the performance of engineering systems by protecting their components from wear, corrosion and high temperatures. Dr. Mostaghimi is also a member of the advisory board of the Ontario Research Fund and the board of management of the Centre for Materials and Manufacturing.

Engineering Medals – Young Engineer Awards

Dwayne R. Shirley, PhD, P.Eng. Semiconductor Packaging R&D Engineer, Texas Instruments Inc.

Dr. Shirley has established expertise in the deformation of the lead-free solder used extensively in the electrical connections in modern computers and microelectronics devices. In 2009, he received his PhD from the University of Toronto in Materials Science and Engineering. He also holds Master (2003) and Bachelor (2001) degrees from the university. His dissertation developed a novel approach to accurately account for creep and thermal fatigue, which are major factors affecting the reliability of microelectronic devices. Dr. Shirley is now engaged in materials and package development for the next generation of semiconductor devices at Texas Instruments Inc.

Professional Engineers Citizenship Award

Mohinder Singh Grover, PhD, P.Eng., Senior Quality Engineer, Atomic Energy of Canada Limited

For over three decades, Mohinder Singh Grover has dedicated himself to enhancing his profession and society-at-large through tireless volunteer contributions. A recognized authority on reliability engineering and quality engineering, Dr. Grover worked for nearly 30 years with Ontario Hydro/Ontario Power Generation delivering many training courses in reliability and quality engineering for power generation, transmission and distribution. Dr. Grover is an active fundraiser for various causes, participating in the annual Terry Fox Run for 25 consecutive years and donating his time for the United Way, the White Ribbon Campaign, Habitat for Humanity, and Employment Equity. He has also served on committees within and representing the Sikh community.

About OSPE

The Ontario Society of Professional Engineers (OSPE) is the Voice of Ontario's Engineers. OSPE promotes and supports excellence in all aspects of engineering by enhancing the professional recognition of Ontario's engineers among employers and all levels of government; increasing their public profile; and advancing their economic interests by offering exemplary continuing education, career advancement and affinity programs. Practically everything we rely on to live and work in Ontario every day is a product of Engineering -- from the water we drink to the cars we drive, to the fact that the light comes on when we flick a switch. Engineers make our society run. For more information about OSPE, please visit www.ospe.on.ca.

About PEO

Professional Engineers Ontario administers the *Professional Engineers Act* by licensing Ontario's 71,500 professional engineers, granting temporary, limited and provisional licences to practise professional engineering, and authorizing businesses to provide engineering services to the public. It sets standards for and regulates engineering in Ontario so that the public interest is served and protected. Rigorously educated, experienced, and committed to a Code of Ethics that puts the public first, licensed professional engineers can be identified by the P.Eng. after their names. PEO has presented awards for professional achievement and community service since 1947.

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To schedule an interview with the award winners and find out more about OSPE's Programs, please contact: Sonya Agnew, MBA, Director, Marketing and Communications, Ontario Society of Professional Engineers at 416-223-9961, ext. 224, sagnew@ospe.on.ca

For additional information about PEO, please contact: David Smith, Manager, Communications at 416-840-1068; 800-339-3716, ext.1068, dsmith@peo.on.ca.