

Free Seminar on  
**“Artificial Intelligence Awareness Among  
Engineers and Students”**

*January 18, 2020, 9 am to 2.30 pm at Langara College, 100 W 49<sup>th</sup> Ave, Vancouver Canada*

Presented by



Chartered Engineers Pacific (CEP)

<https://charteredengineerspacific.ca/>

*People in many industries are now using Artificial Intelligence (AI) technology to develop machine to perform different activities. Artificial Intelligence is increasingly being employed across many disciplines, including engineering. It is expected Artificial Intelligence techniques and applications is likely to change the entire engineering profession in future. Therefore, this seminar aims to update the young engineers and students on application of AI.*

**Seminar Schedule**

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| 09.00 am – 09.15 am | <b>Registration</b>  |
| 09:15 am – 09.30 am | <b>Inauguration and welcome</b> by Dr. Suresh Vishwakarma, Chair - CEP.<br><b>Introduction to CEP</b> and Thanks to sponsors by Matthew Walton-Knight, Past Chair - CEP.   |
| 09:30 am – 10.15 am | <b>Presentation 1:</b> “Application of Artificial Intelligence in Database Management” by Aiman El-Ramly - Chief Business Officer - ZE Power Group of Companies, Richmond BC.  |
| 10.15 am – 10.45 am | Coffee / Snacks Break  |
| 10.45 am - 11.30 am | <b>Presentation 2:</b> “Application of Artificial Intelligence and Internet of Things in Optimizing Performance and Management of Wastewater Treatment Plants” by Samantha Deoraj, Territory Manager, Nexsys International LC, Trinidad and Tobago.                              |
| 11:30 am – 12.15 pm | <b>Presentation 3:</b> “Role of Adaptive Technologies and Artificial Intelligence in Education and Automotive Industry: Past, Present and future” by Prof. Mrinal Bachute Department of Electronics and Telecommunication Engineering, Symbiosis Institute of Technology, India. |
| 12.15 pm - 12.45 pm | Lunch and Networking.  |
| 12:45 pm – 01.30 pm | <b>Presentation 4:</b> “Application of Artificial Intelligence in Space System and Future Space Missions” by David McQuiggan, Principal Director, Aerospace Corporation, California.   |
| 01.30 pm – 02.15 pm | <b>Presentation 5:</b> "Improving Disaster Resilience and Preparedness through Artificial Intelligence" by Dr. Indrajit Pal, Chair, Disaster Preparedness, Mitigation and Management, Asian Institute of Technology, Thailand.   |
| 02.15 pm – 02.30 pm | Closing Comments by Matthew Walton-Knight, Distribution of Certificates  |

**Register before January 6, 2020 by sending email to [ietrepresentativewesterncanada@gmail.com](mailto:ietrepresentativewesterncanada@gmail.com)**

## About the speakers...

	<p><b>Aiman El-Ramly</b> is the Chief Business Officer at ZE Power Group, Richmond BC and Chief Operating Officer for ZE Power Engineering. He has MBA from Royal Roads University and a Bachelor of Arts from UBC. He is a Certified Management Consultant. With 35 years' experience in competitive markets in the energy, commodity and IT industries as well as significant community outreach, Aiman is well rounded and has developed an impressive portfolio of skills in leading strategy, sales, marketing, human resource management and operations. Aiman is also a sought-after expert in data management and business strategy and has helped Fortune 500 companies across energy, commodities, agriculture, insurance, and finance to advance their business.</p>
	<p><b>Samantha Deoraj</b> is a result oriented professional and is currently the Trinidad and Tobago Territory Manager at Nexsys International LC. Samantha has a background in Asset Management and was previously employed at Microsoft within the role as a Software Asset Management Specialist for the LATAM, Caribbean and Canadian Regions. She also served at the National Gas Company of Trinidad and Tobago and at Canadian engineering consulting firm Genivar Inc., which today is known as WSP Global. Samantha is a graduate of the University of the West Indies with a Distinction in MSc. Engineering Management and a BSc. in Mechanical Engineering. Samantha is an active and passionate volunteer of the Engineering fraternity.</p>
	<p><b>Mrinal Bachute</b> is Associate Professor at Symbiosis Institute of Technology, Pune, India. She has master's degree in digital electronics and a PhD in Study and Analysis of Adaptive Filters for Speech Enhancement Applications. She has teaching experience of 20 years and has guided many graduate students for their projects. Her areas of specialization are Digital Signal Processing and Adaptive Signal Processing. She has presented her work at many international workshops and conferences. Her research papers have been published in reputed Journals and conferences at National and International Level.</p>
	<p><b>David McQuiggan</b> is the Principal Director at Aerospace Corporation, Los Angeles. He has BS in electrical and electronics engineering from University of Bath and MBA from Yale University. His career has progressed from design engineer in the UK to senior level management and executive leadership experience with both private and public companies in Europe, the U.S. and Asia. Prior to joining Aerospace Corporation, he was interim CEO of a small U.S. defense contractor and prior to that, he led a VC- funded high-tech venture, through the development and commercialization of rugged fiber-optic distributed sensor systems for maritime, energy and communications markets.</p>
	<p><b>Indrajit Pal</b> is Assistant Professor and Chair, Disaster Preparedness, Mitigation and Management at Asian Institute of Technology, Thailand. He has MTech in Applied Geology and PhD in Seismotectonic and Earthquake Hazard Assessment. He has 15 years' experience in research and training. His research areas include Disaster Governance and Response, Emergency Response and Policy planning issues, Disaster Risk Reduction into Development, Incident Command System, Capacity Development, Use of GIS / RS in disaster risk management, Mainstreaming, Climate Change Adaptation and Socio-Economic implications, Participatory Disaster Risk Management</p>

### About Chartered Engineers Pacific

Chartered Engineers Pacific (CEP), formerly Western Canada Group of Chartered Engineers, serves members of the Institution of Civil Engineers (UK), Institution of Mechanical Engineers (UK), Institution of Engineering and Technology (UK), Institution of Structural Engineers (UK), and Chartered Institute of Building Services Engineers (UK) located in British Columbia, Yukon, Washington State and Alaska. CEP exists to extend institutions' services to members locally, and to assist Canadian professional engineers, EITs and technologists with aspirations to register professionally in Europe.

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