



**The Canadian Society for Mechanical Engineering**  
A constituent society of the Engineering Institute of Canada

**La Société Canadienne de génie mécanique**  
Une société constituante de l'Institut canadien des ingénieurs

## **NEWS COMMUNIQUÉ**

(corrected 19 January 2023)

The Canadian Society for Mechanical Engineering (CSME), founded in 1970, is pleased to announce the winning recipients of its 2023 technical awards. These awards may be bestowed biannually to members of the society for their outstanding contributions to specific areas of mechanical engineering in Canada.

The following three exceptional engineers will be presented with their medals on 30 May at the 2023 CSME International Congress to be held from 28-31 May at the Faculty of Engineering, University of Sherbrooke, QC. Each winner will be presenting a plenary lecture at the Congress.

Please consider attending the 2023 CSME International Congress to congratulate these exceptional winners and attend their lectures: <https://www.csmecongress.org/>.

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### **Emerging Technologies Medal**

*For “exceptional research and innovation contributions to the field of thermal plasma in Canada”*



**Javad Mostaghimi, Ph.D., FCSME**

Professor, MIE Department, University of Toronto, ON

A Mechanical & Industrial Engineering professor at the University of Toronto, Dr. Javad Mostaghimi is also founding director of the Centre for Advanced Coating Technologies. He received his BSc degree from Sharif University, Iran and MSc and PhD degrees in mechanical engineering from the University of Minnesota in 1978 and 1982, respectively. Before joining the University of Toronto, he held positions at Pratt & Whitney Canada and the University of Sherbrooke.

His main research interests are in plasma processing and thermal spray coating. Professor Mostaghimi is a fellow of the Royal Society of Canada and 7 other societies and the recipient of many awards, including the NSERC Brockhouse Canada Prize and the Heat Transfer Memorial Award of the ASME. He is an inductee of the ASM Thermal Spray



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Hall of Fame. He is a member of the editorial board of Plasma Chemistry and Plasma Processing and the International Review Board of the Journal of Thermal Spray.

## **Jules Stachiewicz Heat Transfer Medal**

*For "exceptional research and innovation contributions to the field of heat transfer in Canada"*



**Maciej Floryan, Ph.D., FCSME**

Professor, MME Department, Western University, ON

Jerzy M. Floryan, Professor at the Department of Mechanical and Materials Engineering, University of Western Ontario, is a world-leading expert in heat transfer. He is a fellow of APS, ASME, CSME, CASI, JSPS, EIC, CAE, Erskine, Lady Davis, NATO, STA, and Humboldt. He received Humboldt Research Prize, McCurdy Award, Robert W. Angus Medal, and the Canadian Pacific Railway Engineering Medal.

Professor Floryan held visiting positions at Technion, City University of Hong Kong, Darmstadt Technical University, Tokyo Metropolitan University, Beijing Institute of Technology, University of Canterbury, National University of Singapore, Stuttgart University, French Aerospace Research Institute, National Aeronautical Laboratory (Japan) and Los Alamos National Laboratory. He is credited with numerous fundamental contributions to heat transfer, including the creation of the concept of patterned convection, the discovery of the pattern interaction effect and thermal drift, the identification of energy-efficient chaotic mixing, and the elucidation of fundamentals of rupture of non-isothermal interfaces.

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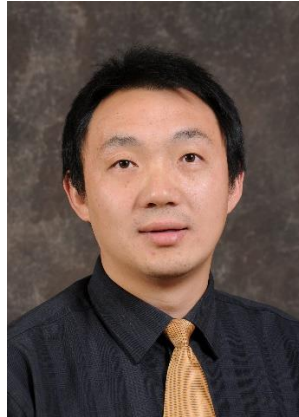


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## **Mechatronics Medal**

*For “exceptional research and innovation contributions to the field of mechatronics in Canada”*



**Yang Shi, Ph.D., FCSME**

Professor, ME Department, University of Victoria, BC

Dr. Yang Shi, a Professor in the Department of Mechanical Engineering, University of Victoria, is an internationally renowned expert in control systems and mechatronics with successful applications in industrial automation, autonomous flying and underwater vehicles, and cyber-physical systems. He has published three monographs and over 220 papers in premiere journals; his publications have received 17,080 citations with an h-index of 71 (Google Scholar).

Recognizing his pioneering work, Clarivate Analytics has named him a worldwide Highly Cited Researcher based on his exceptionally high research impact during 2014-2022. Dr Shi has significantly contributed to CSME, ASME and IEEE technical committees and conferences; he serves as Co-Editor-in-Chief of two premium IEEE journals and General Chairs of several flagship conferences. He has received two university teaching awards and trained over 160 next-generation engineers/researchers. He is a Fellow of IEEE, CSME, ASME, and the EIC.