



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

The Canadian Society for Mechanical Engineering (CSME), founded in 1970, is pleased to announce the winning recipients of its 2026 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 exceptional professionals will be presented with their medals on 26 May at the 2026 CSME International Congress to be hosted on 24-27 May by UBC in Vancouver.

Please consider attending the 2026 CSME International Congress to congratulate these exceptional winners and attend keynote lectures: <https://www.csmecongress.org/>.

CSME Fluid Mechanics Medal

For “exceptional research and innovation contributions to the field of fluid mechanics in Canada”



Jerzy Maciej Floryan, Ph.D., FCSME
University of Western Ontario, London, ON

Dr. Jerzy M. Floryan is a Professor in the Department of Mechanical and Materials Engineering at the University of Western Ontario and a globally recognized leader in fluid mechanic research. With nearly 200 peer-reviewed journal publications and 277 conference papers, his groundbreaking contributions span boundary layer theory, laminar-turbulent transition, convection, droplet dynamics, flow control, drag reduction, and pattern interaction effects.

Currently Chair of the Canadian National Mechanics Committee, Professor Floryan is a Fellow of eight major professional societies including the Canadian Academy of Engineering, American Physical Society, and American Society of Mechanical Engineers. His distinguished career includes prestigious awards such as the C.N. Downing Award (CSME's highest honor, 2025), John B. Stirling Medal (2023), Stachiewicz/Heat Transfer Medal (2023), Robert W. Angus Medal (2011), and McCurdy Award (2015). His international recognition includes service on the 2020 Nobel Prize in Physics Nominating Committee and over 238 invited lectures worldwide, establishing him as a foremost authority in computational and applied fluid mechanics.

CSME Manufacturing Medal

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



Patrick Lee, Ph.D., FCSME
University of Toronto, Toronto, ON

Dr. Patrick C. Lee is an Associate Professor and founding director of the Multifunctional Composites Manufacturing Laboratory at the University of Toronto. Internationally recognized for pioneering manufacturing innovations in polymer processing, Dr. Lee has advanced hybrid composite technologies, micro-/nanolayer extrusion, and bioinspired structuring for lightweight, multifunctional materials. His work has led to transformative applications in transportation, energy, and sustainability, supported by over \$10 million in research funding and protected by multiple international patents.

With 117 peer-reviewed journal publications and extensive industry partnerships, he has translated advanced materials research into scalable, commercially relevant processes. Dr. Lee's integration of process–structure–property relationships with manufacturing science has yielded composites with enhanced mechanical, thermal, and functional performance. He has trained over 100 highly qualified personnel who now lead in academia and industry. His contributions have significantly strengthened Canada's manufacturing sector, advancing both technological capability and global competitiveness.

CSME Solid Mechanics Medal

For “exceptional research and innovation contributions to the field of solid mechanics in Canada”



Zengtao Chen, Ph.D., FCSME

University of Alberta, Edmonton, AB

Dr. Chen is a Full Professor of Mechanical Engineering at the University of Alberta. He is internationally recognized for his significant contributions to solid mechanics, with a focus on the mechanical behavior of lightweight metals, thermal stress analysis, and the multi-physics analysis of advanced functional materials. Dr. Chen has authored over 300 peer-reviewed journal articles, three books, and numerous conference papers.

He has delivered over 120 invited and keynote lectures. Over the past decade, he has successfully supervised 6 postdoctoral fellows, 32 visiting scholars, 37 PhD students and 21 MSc students. Dr. Chen has served as editor or guest editor for nine international journals and has taken on leadership roles as a chair or scientific committee member at more than 30 international conferences.

He is an elected Fellow of the Canadian Academy of Engineering (CAE), the American Society of Mechanical Engineers (ASME), and the Canadian Society for Mechanical Engineering (CSME).