

Speakers

Alex R. Carpenter, MSc (they/them/theirs)

Civil Engineering PhD Student
University of Toronto, Canada

Alex R. Carpenter comes from a civil engineering undergraduate background with a master's degree in the Conservation of Historic Buildings from the University of Bath, England. Their master's research included a thesis on the conservation of New York State Whipple bowstring trusses through a reconciliation of British and American conservation methods for iron bridges. Currently, they are a PhD student at the University of Toronto, studying the use of structural health monitoring to inform and assess conservation efforts in heritage buildings with limited funding and at risk of failure without intervention.



Emma Cubitt, OAA, RAIC, LEED AP

Principal
Invizij Architects, Canada

Emma is a Principal of Invizij Architects and specializes in Housing, Sustainable Design, and work with non-profits. A graduate of the Universities of Illinois and Waterloo, she is a registered architect with over 15 years of architectural experience. She is involved in various community-building initiatives in downtown Hamilton and is an advocate for Low Carbon/Net Zero/Passive House design. She was recently awarded 'Environmentalist of The Year' by Environment Hamilton. A regular speaker on Passive House, Affordable Housing, and Heritage Restoration in both the US and Canada.



Randy Van Straaten, P.Eng PhD

Building Science Specialist
Building Enclosure Labs Inc., Canada

Dr. Randy Van Straaten has worked on historic masonry interior insulation retrofits for Building Science Corporation and then RDH Building Science and finally his own firm Building Enclosure Labs Inc stretching over 20 years and many projects. This work has grown from masonry decay risk assessments to optimizing insulation strategies for thermal performance and more recently to minimize embodied carbon impacts. He has recently completed a major optimization and methodology study for BC Housing focused on the evolving field of embodied carbon analysis for buildings. Randy continues to share the insights he gathers through regular publications, webinars, and conference presentations.



Patrick Moore, Degree

Educator / Founder and Director
The Professional School of Practical Stereotomy, Canada

Patrick M. Moore is a distinguished Canadian carpenter and construction manager, known for overseeing multiple mega construction projects. He is also an internationally acclaimed expert in stereotomy, particularly the French craft of L'Art du Trait. Moore was the first English-speaking individual to be accepted as a "Compagnon Passant Charpentier" in France and completed his Master's at La Grande École des Hommes de Métiers en Compagnonnage.



He holds a degree in construction management, two Red Seal Certificates in carpentry and cabinetmaking, three Gold Seal Certificates as a Construction Site Superintendent, Safety Practitioner, and Foreman, and is a certified National Construction Safety Officer. Moore is a member of several professional associations and has contributed significantly to the preservation of historical sites worldwide, including two UNESCO World Heritage Sites.

His work is featured in museums around the world, and he has authored numerous articles in leading journals. In 2014, Moore founded The Professional School of Practical Stereotomy in Ottawa, Canada, offering advanced education in this specialized craft. His expertise earned him the EB-1A Alien of Extraordinary Ability visa in 2023, recognizing his exceptional contributions to the field.

In 2024, Moore was honored with both the Woodworking Network's Wood Industry 40 Under 40 award and the Ottawa Business Journal's Forty Under 40 award, celebrating his impact on the wood industry and his rising prominence in the business community.

Daniel Durand, OAQ

Architect

DFS Inc. architecture & design, Canada

Associé de la firme DFS inc. architecture & design, il œuvre à des projets gouvernementaux, universitaires, religieux et résidentiels de grande envergure. Il est membre du Conseil du patrimoine de Montréal. Il a reçu une formation de technologue et d'architecte. Il a parfait sa formation en Italie. Il cumule quarante ans d'expérience en architecture. Tout au long de sa carrière, il s'est intéressé à l'histoire de l'architecture, l'architecture moderne et la rénovation d'immeubles existants. Depuis le milieu des années 1990, sa pratique est centrée dans les domaines de la restauration et de la réalisation d'expertises techniques et d'études patrimoniales.



Jean-Philippe Ouellette, P.Eng., M.Sc.A.

Structural Engineer

Cosigma Inc., Canada

Diplômé de l'École Polytechnique de Montréal, M. Ouellette a développé une expertise dans l'inspection, l'évaluation et la réhabilitation des structures endommagées. Il cumule des projets de type commercial, patrimonial et industriel réussis depuis le début de sa carrière. Il s'est spécialisé dans la conception, l'ingénierie sismique et les procédures d'entretien de diverses structures existantes. M. Ouellette utilise des techniques analytiques et expérimentales avancées pour étudier les conditions des structures et leur capacité portante en combinant l'analyse approfondie et la modélisation au besoin.



Moderators

Sarah Francisca, M.Sc., B.Eng., EIT, CAHP Intern
Structural Designer
John G. Cooke & Associates Ltd., Canada

Sarah is the Vice-Chair of APT Canada and is a building conservation engineering designer at John G. Cooke & Associates Ltd. in Hamilton, Ontario. Sarah has worked in the field of heritage conservation engineering for over four years and focuses primarily on the structural review, analysis and design of repairs for existing buildings, with a particular interest in the conservation of historic buildings. Prior to entering the workforce, Sarah completed a Master of Science in the Structural Analysis of Historic Monuments, a joint degree between the University of Minho in Portugal and the Polytechnical University of Catalunya in Spain. Sarah has a strong passion for the conservation of historic buildings, which led to her decision to become an active member of APT Canada.



Lena Buchinger, OAQ, ACECP/CAHP
Architecte, Associate Director
EVOQ Architecture, Canada

Lena Buchinger is the President of APT and APT Canada. She is an accomplished senior conservation architect, Associate Director, and key member of EVOQ Architecture. She has contributed to the award-winning rehabilitation of some of Canada's iconic historic places. As a member of Montreal's South-West Borough Advisory Planning Committee for 9 years, she provided counsel on countless design, preservation, and planning issues. A long-time member and contributor to APT, both at the international and chapter level, Lena was elected to the APT Board of Directors in 2018, and co-chaired APT Québec from 2019-2021. As co-chair of APT Québec, she increased the volunteer base and organized several training events.

