

MACAS Symposium 2022 program

Atlantic Daylight Time (ADT)	Tuesday, August 16 th	
09:00 - 09:30	Welcome & Video break Zoom link 1	
09:30 - 10:00 1 Presentation Session	Shifting teachers' attitudes toward development stem skills in early childhood * Mark Applebaum & Judith Zamir, Kaye Academic College of Education, Israel Zoom link 1	
10:00 - 10:30 1 Presentation Session	Computational thinking and mathematics viewed as transdisciplinary configurations * Morten Misfeldt & al., University of Copenhagen, Denmark Zoom link 1	
10:30 - 11:00	Opening remarks – Yves Bourgeois, doyen des études (Dean), Université de Moncton, campus de Shippagan Zoom link 1	
11:00 - 12:00 Keynote	Let's steam! creative problem solving in interdisciplinary projects * Margarida Romero Université de Nice, France Zoom link 1	
12:00 - 13:00	Video break (+ lunch for the organizers) Zoom link 1	
13:00 - 13:30 2 Presentation Sessions	Characterising problem handling in the intersection between computational thinking and mathematics * Raimundo Elicer, Aarhus University & Andreas Lindenskov Tamborg University of Copenhagen, Denmark Zoom link 1	When an inclusive math competition opens the door to STEM * Manon LeBlanc & Paul Deguire, Université de Moncton, Canada Zoom link 2
13:30 – 14:00 2 Presentation Sessions	Empowering students' mathematics problem-solving skills: The role of computational thinking * Yimei Zhang, McGill University, Tanya Chichekian, Université de Sherbrooke, Annie Savard, McGill University, Canada Zoom link 1	Rapturousness in makerspaces: Delight in construction * Olga Fellus, University of Ottawa, & Viktor Freiman, Olivia Lurette, Université de Moncton, Canada Zoom link 2
14:00 - 14:30 2 Presentation Sessions	Bridging the practice-to-research chasm for in-service STEM teachers * Heather McPherson McGill University Zoom link 1	Interdisciplinarity of science, mathematics and technology in a context of scientific investigation in elementary school using a virtual manipulative * Takam Djambong & Viktor Freiman, Université de Moncton Zoom link 2:
14:30 - 15:00	Video break Zoom link 1	
15:00 - 15:30 1 Presentation Session	Bodymarking: Interpreting Embodied Experiences of Spatial Reasoning * Josh Markle, Brock University & Jo Towers, University of Calgary, Canada Zoom link 1	
15:30 - 16:00 1 Presentation Session	Examining Physics Teachers' Views Of Mathematical Knowledge For Science Teaching * Marina Milner-Bolotin, University of British Columbia & Rina Zazkis, Simon Fraser University, Canada Zoom link 1	

Zoom link 1: <https://us06web.zoom.us/j/84385648009?pwd=aUIGSEtDTmhaYzZCMlpgS3dsSjhDUT09>

Zoom link 2: <https://us06web.zoom.us/j/89592723039?pwd=VXFiU2VRb0w1SXpuVjdkbzRPYkpVZz09>

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10:00 - 10:30 1 Presentation Session	"Musimath": Creative thinking via Music, Math and Technology in elementary school * Libby Azaryahu, Levinsky College of Education, Shai Cohen, Bar Ilan University et al., Israel Zoom link 1	
10:30 - 11:00 1 Presentation Session	Poetry and mathematics in relation * Richard Barwell, University of Ottawa, Canada & Yasmine Abtahi, University of South-Eastern Norway Zoom link 1	
11:00 - 12:00 Keynote	Supporting youth's socially engaged inquiry through the arts * Camillia Matuk, University of New York, United States Zoom link 1	
12:00 - 13:00	Video break (+ lunch for the organizers) Zoom link 1	
13:00 - 13:30 2 Presentation Sessions	Lifestyles Project: An Interdisciplinary Integration of Mathematics with Science, Arts and English * Midhat Noor Kiyani et al., McGill University, Canada Zoom link 1	Role of understanding of mathematical concepts in the context of debugging computer codes * Jacques Kamba & Viktor Freiman, Université de Moncton, Canada Zoom link 2:
13:30 - 14:00 2 Presentation Sessions	Beyond Flipped Classrooms: Learning Experiences in an Undergraduate Physics course * Dominic Manuel, Marc de Montigny, Lamyae Fahim, Martine Pellerin, University of Alberta, Canada Zoom link 1	Mathematics and Its Link to Statistical Mechanics * Amel Kaouche, Université de Moncton, Canada Zoom link 2:
14:00 - 14:30 2 Presentation Sessions	Breaking down classroom walls to STEMulate collaboration in science and mathematics education * Manon LeBlanc, Nicole T. Lirette-Pitre & Micaël Richard, Université de Moncton, Canada Zoom link 1	Connecting arithmetic and geometry as an artistic expression of collateral creativity * Sergei Abramovich, State University of New York, United States & Viktor Freiman, Université de Moncton, Canada Zoom link 2
14:30 - 15:00	Video break Zoom link 1	
15:00 - 15:30 1 Presentation Session	Revisiting Abeng for Multispecies' Flourishing * Steven Khan & al., Brock University, Canada Zoom link 1	
15:30 - 16:00 1 Presentation Session	Multidisciplinarity in teaching stem through modelling: implications for teacher education * Dragana Martinovic, University of Windsor & Marina Milner-Bolotin, University of British Columbia, Canada Zoom link 1	
16:00 - 16:30 1 Presentation Session	Literature and the Construction of the Mathematical Self: The Case of Picturebooks * Olga Fellus, University of Ottawa, Canada Zoom link 1	

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Atlantic Daylight Time (ADT)	Thursday, August 18th	
10:00 - 10:30 1 Presentation Session	Rep-Tile Tangram * Sabine Segre, Achva Academic College, Israel Zoom link 1	
10:30 - 11:00 1 Presentation Session	Embodiment and competencies: A discussion of the KOM-framework of mathematical competences * Oliver Kauffmann & Uffe Thomas Jankvist, University of Copenhagen, Denmark Zoom link 1	
11:00 - 12:00 Keynote	Social Media, School Mathematics, and Epistemology * Mario Sánchez Aguilar Instituto Politécnico Nacional, Mexico Zoom link 1	
12:00 - 13:00	Video break (+ lunch for the organizers) Zoom link 1	
13:00 - 13:30 2 Presentation Sessions	Mathematics for Multispecies' Flourishing: A case for kolams * Olivia Lu, Sreedevi Rajasekharan, Steven Khan, Brock University, Canada Zoom link 1	To tinker or not to tinker... that is the question: A study of problem solving within the context of digital fabrication * Caitlin Furlong, Université de Moncton, Canada Zoom link 2
13:30 - 14:00 2 Presentation Sessions	Premature children's negotiation of mathematic identity in the figured worlds of home and classroom * Rebecca Pearce, McGill University, Canada Zoom link 1	Creativity in situ, the art of living mathematics in a school setting * Xavier Robichaud & Viktor Freiman, Université de Moncton, Canada Zoom link 2
14:00 - 14:30 2 Presentation Sessions	Potentialities of a Narrative Approach for Critical Mathematics Inquiry * Nadia Stoyanova Kennedy City University of New York, United States Zoom link 1	Some mathematical models to improve practitioners' skills in ball games. Perspectives of their use in basic and applied research * Bienvenu Rajaonson, Université de Moncton, Canada Zoom link 2
14:30 - 15:00	Video break Zoom link 1	
15:00 - 15:30 1 Presentation Session	What is an Experimental Math Space? * Amenda Chow, York University, United States Zoom link 1	
15:30 - 16:00 1 Presentation Session	What is geometric about geometric sequences? Informal justifications for mathematical terminology * Andrew Kercher, Anna Marie Bergman & Rina Zazkis, Simon Fraser University, Canada Zoom link 1	

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Atlantic Daylight Time (ADT)	Friday, August 19th	
10:00 - 10:30 2 Presentations Session	John Keats “Ode on a Grecian Urn” in Aesthetic Geometry with inversion * Revolt Pimenov Zoom link 1	The history of multiplication * Akbar Zamani Lenjani, Isfahan Mathematics House, Iran Zoom link 2
10:30 - 11:00 2 Presentations Session	Dancing mathematical processes: stochastic and flow of motion dance * Jorge Soto-Andrade, Universidad de Chile & Ami Shulman, Chile Zoom link 1	A New Method For Constructing Penrose-like Tilings By Using Traditional Iranian Patterns * Payam Seraji and Mohammad Hossein Eslampanah, Isfahan Mathematics House, Iran Zoom link 2
11:00 - 11:30 2 Presentations Session	Teaching Geometry with a Human-Centered Design Approach * Gloriana González & Saadeddine Shehab, University of Illinois Urbana-Champaign, United States Zoom link 1	Leonardo da Vinci’s infinitesimal methods * Viktor Freiman, Université de Moncton, Canada & Alexei Volkov, National Tsing-Hua University, Taiwan Zoom link 2
11:30 - 12:00	Video break Zoom link 1	
12:00 - 13:00 Keynote	Inspired by Mi’kmaw Knowledge: Creating Space for Mathematics to Emerge * Lisa Lunney Borden St. Francis Xavier University, Canada Zoom link 1	
13:00 - 14:00	Mathematics and its Connections to the Arts and Sciences (MACAS): 15 years of Interdisciplinary Mathematics Education: celebrating our success and discussing the future. Zoom link 1	
14:00 - 14:15	Closing session	

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