

A Symposium

# CODING, COMPUTATIONAL MODELLING, & EQUITY IN MATHEMATICS EDUCATION

Also including a  
**PD Day for teachers!**  
April 26

Face-to-Face, Brock University  
April 27-29, 2023

FOR MORE INFORMATION  
VISIT:  
[CPMATH.CA/CCMEME2023](http://CPMATH.CA/CCMEME2023)

Recently, computational thinking [CT] – in the form of coding and computational modeling – has received increased emphasis via practice and public policy in mathematics education settings, including being formally integrated in mathematics curricula (e.g., in Ontario, Finland, Sweden, Australia, France, ...) and supported by international organizations (e.g., PISA's decision to assess mathematical literacy as involving elements of CT starting in 2022).

In this evolving context, the event seeks to provide a forum for sharing perspectives and experiences, and discussing emerging issues such as:

- the meaning of CT and its relations with mathematics
- how coding and computational modelling can be practically and meaningfully integrated in mathematics classrooms across education levels (elementary, secondary, university)
- equity, including how to attain equitable participation and learner outcomes

## Keynote Speakers:

**Dr. Andrea diSessa**

University of California Berkeley, USA

**Dr. Gideon Christian**

University of Calgary, Canada

## 3 Working Groups: Early Years / Elementary

led by Iain Brodie, Dr. Steven Khan, & Dr. Sandy Youmans

## Secondary / University

led by Dr. France Caron, Dr. Steven Floyd, & Dr. Miroslav Lovric

## Equity, Diversity, & Inclusivity

led by Dr. Annie Savard, Dr. Ricardo Scucuglia, & Dr. Diane Tepylo

## 2 Discussion Panels:

### Practical Challenges/Opportunities

Professor Dame Celia Hoyles (Chair), Dr. George Gadanidis,  
Dr. Oh Nam Kwon, Dr. Simon Modeste, Dr. Elena Prieto-Rodriguez,  
& Dr. Richard Noss (Reactor)

### Interactions between CT and MT

Dr. Nathalie Sinclair (Chair), Dr. Paul Drijvers,  
Dr. Eirini Geraniou, & Dr. Elise Lockwood

## Poster Session:

### Research and Innovative Practices

Proposal submission until February 10, 2023



## Chairs of the Organizing Committees:

Steven Khan, Laura Broley, Chantal Buteau, Dorothy Levay (Brock),  
Immaculate Namukasa, Marja Bertrand (Western)

