

CAROLYN KIERAN, GEORGE GADANIDIS AND TOM SALISBURY, Université du Québec à Montréal,
University of Western Ontario, York University
*Mathematics Teacher Training, Algebra, and Teacher Shortages / Formation des enseignants en mathématiques,
algèbre, et pénuries d'enseignants*

This working group will discuss some of the current issues and challenges in mathematics teacher education at the secondary level. The main questions will relate to algebra and pre-service training, but overlaps with inservice education will occur during the third session. More specifically, the three sessions are structured as follows:

Session 1

- What are the big ideas of algebra for grades 7-12 pre-service teachers?
- What algebra ideas draw our attention to mathematical relationships and offer opportunities for experiencing the pleasure of critical thinking and mathematical insight?
- What does this look like in the mathematics classroom?

Session 2

- How should we prepare pre-service teachers to teach algebra?
- Do we continue preparing our preservice students to teach some algebraic manipulation?
- Do we question where the teaching of algebra is going? How do we do this?

Session 3

- How do we deal with non-mathematics teachers teaching mathematics?
- What are some inservice/retraining models used in the various provinces?
- How do we deal with the shortage of mathematics teachers?