

Alberta Mathematics Dialogue (AMD) 2014

AMD 2014 Program

Abstracts for AMD Themes/Sessions (each is sorted alphabetically by surname)

Thursday May 1: [Number Theory](#) [K-12 Curriculum](#) [Student](#) [Pedagogy](#) [General](#)

Friday May 2: [Mathematical Biology](#) [Partial Differential Equations](#)

Thursday, May 1 Schedule [Overview, May 1](#)

8:45 a.m. Opening Remarks in F1-350 (AU Chapel)

9:00 a.m. Gerda de Vries (University of Alberta), Winner of the 2014 CMS Excellence in Teaching Award

Insights from Teaching Calculus in the Context of a First-Year Integrated Science Course [Abstract](#)

10:00 a.m. Coffee, Juice, Fruit, Snacks

10:20 a.m. **Parallel Sessions:** *Number Theory, Alberta K-12 Curriculum, and Student*
[Number Theory Schedule](#) [K-12 Curriculum Schedule](#) [Student Schedule](#)

12:00 noon LUNCH in Dining Hall

1:00 p.m. Paul Gauthier (Université de Montréal) in F1-350 (AU Chapel)
The Riemann Hypothesis, Number One Problem in Mathematics [Abstract](#)

2:00 p.m. Coffee Break

2:10 p.m. **Parallel Sessions:** *Number Theory, Alberta K-12 Curriculum, General, and Pedagogy*
[Number Theory Schedule](#) [K-12 Curriculum Schedule](#) [General Schedule](#) [Pedagogy Schedule](#)

3:50 p.m. Another Coffee Break

4:00 p.m. Round Table Discussion on Math Education and Outreach in Alberta

5:30 p.m. Przemyslaw Prusinkiewicz (University of Calgary) in F1-350 (AU Chapel)
Plants, Computers, and Math [Abstract](#)

6:30 p.m. Wine and Cheese Reception, Cash Bar

7:15 p.m. Conference Banquet in Dining Hall

Friday, May 2 Schedule [Overview, May 2](#)

8:45 a.m. Opening Remarks in F1-350 (AU Chapel)

9:00 a.m. Mark Lewis (University of Alberta), Tier 1 CRC in Mathematical Biology
The Mathematics Behind Biological Invasion Processes [Abstract](#)

10:00 a.m. Coffee, Juice, Fruit, Snacks

10:20 a.m. **Parallel Sessions:** *Mathematical Biology* and *Partial Differential Equations*
[Mathematical Biology Schedule](#) [Partial Differential Equations Schedule](#)

12:00 noon LUNCH in Dining Hall

1:00 p.m. In F1-350 (AU Chapel)
Walter Craig (McMaster University, Director of the Fields Institute), Tier 1 CRC in
Mathematical Analysis and its Applications
Vortex filament dynamics [Abstract](#)

2:00 p.m. Coffee Break

2:10 p.m. **Parallel Sessions:** *Mathematical Biology* and *Partial Differential Equations*
[Mathematical Biology Schedule](#) [Partial Differential Equations Schedule](#)

3:50 p.m. Another Coffee Break

4:00 p.m. **Final Session:** *Mathematical Biology* only [Mathematical Biology Schedule](#)

Accommodation and Setting

- Some Places to Stay – [Norsemen Inn](#), [Ramada Inn](#), [Best Western Plus](#)
The first of these, the *Norsemen Inn*, has offered us the best discount and price (\$95/night, see [terms](#)) and has the best location (less than 3 km from Augustana and close to shops). The other two have also given us discounted prices (*Best Western* \$109/night, *Ramada* \$121/night) and offer a swimming pool, free hot breakfast, and similar terms. NOTE: Room blocks are reserved for AMD until **April 17**; after this date, these blocks are released and discounted prices may no longer be available. Specify *Alberta Math Dialogue* when booking your room.
- About the University of Alberta – www.ualberta.ca
- About Augustana – www.augustana.ualberta.ca
- About Camrose – www.camrose.ca

Parking and Maps

Free parking is available on campus. Please use **Lot P4** (see [campus map](#)), which is adjacent to the complex of connected buildings (from the Chapel, northwest, to the Library, southeast) in which all AMD activities will occur. In the unlikely event that Lot P4 is full, you can also park on the streets (50 St, 46 Ave) adjacent to campus. To see the Augustana Campus in a flexible context, please see the [Interactive UA-Augustana Map](#).

Acknowledgements

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