

# Geometric and Topological Graph Theory

## 29th September to 4th October 2013.

Breakfast (buffet): 7:00–9:30 am, Sally Borden building, Monday–Friday

Lunch (buffet): 11:30 am–1:30 pm, Sally Borden building, Monday–Friday

Dinner (buffet): 5:30–7:30 pm, Sally Borden building, Sunday–Thursday

Coffee breaks: As per daily schedule, in the foyer of the TransCanada Pipeline Pavilion (TCPL)

**Please remember to scan your meal card at the host/hostess station in the dining room for each meal.**

All lectures will be held in the lecture theater in the TransCanada Pipelines Pavilion (TCPL). An LCD projector, a laptop, a document camera, and blackboards are available for presentations.

### Sunday

4:00 check-in begins (front desk - Professional Development Centre - open 24 hours)  
5:30–7:30 buffet dinner, Sally Borden building  
8:00 informal gathering in 2nd floor lounge, Corbett Hall  
(beverages and a small assortment of snacks are available on a cash honor system).

### Monday

7:00–8:45 breakfast  
8:45–9:00 introduction and welcome by BIRS station manager, TCPL  
9:00–10:00 5-min presentations  
10:00–10:30 coffee break, TCPL  
10:30–11:30 5-min presentations  
11:30–1:00 lunch  
1:00–2:00 guided tour of the Banff Centre; meet in the 2nd floor lounge, Corbett Hall  
2:00 group photo (outdoors so a jacket might be required); meet in foyer of TCPL  
2:30–3:00 coffee break, TCPL  
3:00–5:30 5-min presentations  
5:30–7:30 dinner

### Tuesday

7:00–9:00 breakfast  
9:00–10:00 **Jacob Fox**, “Minors of matrices”  
10:00–10:30 coffee break, TCPL  
10:30–11:00 **Alex Scott**, “Hypergraphs of bounded disjointness”  
11:00–11:30 **Bruce Reed**, “Length of a longest cycle in a grid”  
11:30–1:30 lunch  
1:30–2:30 **Eli Berger**, “Relation between the maximal degree of a graph and the topological connectivity of its independence complex”  
2:30–3:00 **Penny Haxell**, “Extremal hypergraphs for Ryser’s conjecture”  
3:00–3:30 coffee break, TCPL  
3:30–4:00 **Sergey Norin**, “Turan’s brickyard problem and flag algebras”  
4:00–5:30 crossing numbers session (**Bojan Mohar**, **Radoslav Fulek**, others??)  
5:30–7:30 dinner

## Wednesday

7:00–9:00	breakfast
9:00–10:00	<b>Zdenek Dvorak</b> , “Coloring graphs on surfaces”
10:00–10:30	coffee break, TCPL
10:30–11:00	<b>Alexandr Kostochka</b> , “Planar 4-critical graphs with exactly 4 triangles”
11:00–11:30	<b>Luke Postle</b> , “3-coloring and 3-list-coloring graphs on surfaces”
11:30–1:30	lunch
afternoon:	free
5:30–7:30	dinner

## Thursday

7:00–9:00	breakfast
9:00–10:00	<b>Zhentao Li</b> , “Intersection graphs of axis parallel rectangles and Scott’s conjecture”
10:00–10:30	coffee break, TCPL
10:30–11:00	<b>Janos Pach</b> , “Incidence results on the plane and distinct distances”
11:00–11:30	<b>Geza Toth</b> , “The Erdos-Szekeres theorem for lines”
11:30–1:30	lunch
1:30–2:30	<b>David Wood</b> , “Tree decompositions on surfaces with applications”
2:30–3:00	<b>Mark Ellingham</b> , “Partial duality for graph embeddings”
3:00–3:30	coffee break, TCPL
3:30–4:00	<b>Matthieu Plumettaz</b> , “Graphs with no $0 \pmod 3$ cycles”
4:00–4:30	<b>Peter Whalen</b> , “Odd $K_{3,3}$ subdivisions in bipartite graphs”
4:30–5:00	<b>Chun-Hung Liu</b> , “Structure theorems and well-quasi-ordering”
5:00–5:30	<b>Paul Seymour</b> , “Variants of Woodall’s conjecture”
5:30–7:30	dinner

## Friday

7:00–9:00	breakfast
9:00–??	informal discussions
10:00–10:30	coffee break, TCPL
11:30–13:30	lunch

**On Friday, please checkout of the guest rooms by 12 noon.** Participants are welcome to use the BIRS coffee lounge, TCPL and reading room until 3 pm.