

Fulkerson 100, Jul 17-19, 2024, University of Waterloo

Welcome!

We are very happy to host Fulkerson 100: A workshop in celebration of Ray Fulkerson's centenary year of birth, at the University of Waterloo (UW). We welcome you to Waterloo, and the Department of Combinatorics & Optimization (C&O) at the University of Waterloo.

We hope that the workshop, with its mix of invited talks by distinguished researchers in graph theory, combinatorics, optimization, and theoretical Computer Science, and lightning talks and posters by junior researchers, along with ample breaks for discussion, will provide a stimulating atmosphere over the next few days.

We thank the C&O staff (Gen, Carol, and Melissa) for their abundant help in planning this workshop, and especially Gen for her tireless efforts. We also thank all the C&O student volunteers for their help during the conference.

We hope that you will have an enjoyable workshop.

Fulkerson 100 organization committee:

Joseph Cheriyan

Bertrand Guenin

Chaitanya Swamy, chair

Some snippets of local information

Venue

The talks take place in QNC 0101, which is accessed via QNC 1101. The reception on Jul 17 evening takes place in the QNC atrium. The poster session and banquet on Jul 18 evening take place in Fed Hall. These locations have been marked on the University of Waterloo campus map included on the last page of this document.

Wifi

WiFi access on UW campus is via the Eduroam network. If you use Eduroam at your home university, then you will likely just be able to connect here. Alternatively, you can obtain guest access quite conveniently via the UniversityofWaterloo network. At the time of connection, a guest account with limited-time access is set up with the information you provide.

Dining

A number of food options are available in and around campus; the map on the last page shows some of the food locations near campus. Away from campus, Uptown Waterloo and downtown Kitchener have a variety of food and drink options including restaurants, cafes, bars, and pubs. A brief selection of these options is shown on the next page.

CLOSE TO CAMPUS

University Shops Plaza

The plaza is located across the tram tracks and consists of various restaurants and a variety of options. Here are just a few suggestions:

Food

- **Williams Fresh Café** (Soup, sandwiches, coffee)
- **Indian Sweet Master** (Indian)
- **Kismet** (Bangladeshi, Indian)
- **Seoul Soul** (Korean bbq, soups, noodles)
- **Pita Factory**
- **Ken Sushi House** (East end across Philip St.)

Coffee and Tea

- **Williams Fresh Café** (Soup, sandwiches)
- **Sweet Dreams Teashop** (Bubble tea)

Pubs

- **Molly Blooms Irish Pub**

ON CAMPUS

Food:

- **University Club** (sit-in dining)
- **Student Life Center** (SLC – food stalls)

Coffee and Tea

- **Starbucks** (STC, LHI)
- **Tim Hortons** (SLC, DC)

Pub: **Graduate House** (craft beer, burgers, and pizza)

OTHER PLACES IN KW

Wildcraft Grill + Long Bar (north of campus), **The Bauer Kitchen**, **Arabella Park Beer Bar** (great place for beer)

UPTOWN WATERLOO

Close to the Delta hotel, this area offers a variety of dining options and nice coffee places.

Food

- **Abe Erb Waterloo** (brewery with comfort food)
- **Beertown** (vegan/gluten free menu available upon request, good selection of beers)
- **Copper Branch** (vegan options)
- **Famoso Neapolitan Pizzeria**
- **White Rabbit** (good cocktails)
- **Proof Kitchen + Lounge** (in the Delta hotel)
- **Jinzakaya** (Japanese)
- **Jane Bond** (veggie and vegan options, craft beer)
- **Princess Cafe** (sandwiches, soup, beer, coffee)
- **Champa Kitchen** (Thai, Vietnamese)
- **Masala Bay** (Indian)
- **Dosa Boyz** (South indian)

Fine Dining

- **King Street Trio** (New Canadian cuisine)
- **Red House** (New Canadian eats, cocktails)
- **Loloan Lobby Bar** (Southeast Asian cuisine)

Coffee and Tea

- **Pilot Coffee Roasters** (great coffee)
- **Seven Shores** (Snacks, sandwiches, and coffee)
- **Starbucks**

DOWNTOWN KITCHENER

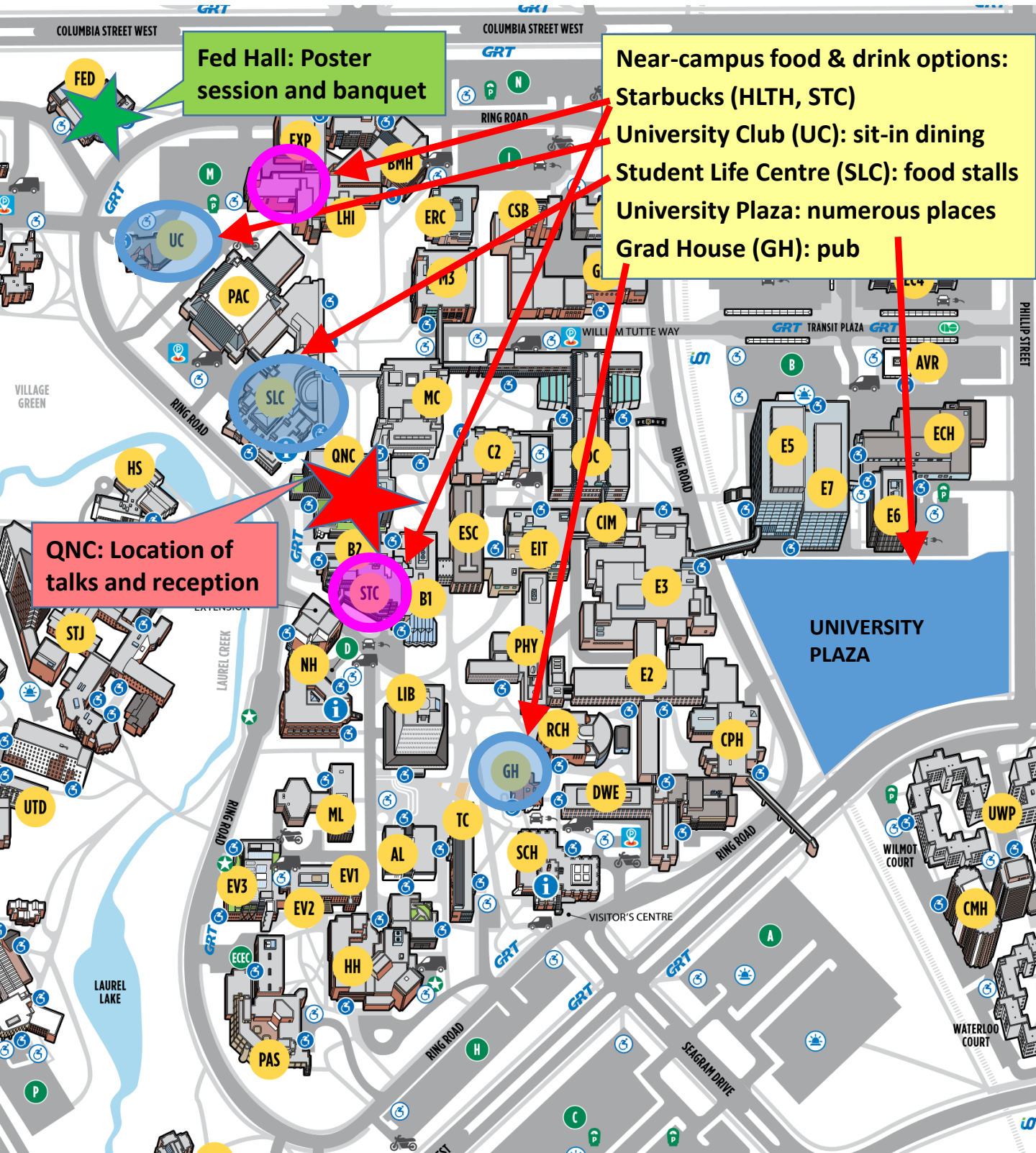
A short tram ride away, downtown Kitchener offers even more choices including:

Kinkaku Izakaya (sushi), **Grand Trunk Saloon** (Southern food with creative cocktails), and **Cafe Pyrus** (vegetarian, vegan, coffee)

Fullkerson 100 schedule

All talks take place in QNC 0101

Time	Wednesday, July 17	Thursday, July 18	Friday, July 19
8:30-8:50am 8:50-9am	Breakfast (light snacks) Welcome and opening remarks Session chair: Bertrand Guenin	Breakfast (light snacks)	Breakfast (light snacks)
9-9:45am	G�rard Cornu�jols Blocking theory and the replication conjecture	Maria Chudnovsky Forbidding induced subgraphs: structure and algorithms	Ravi Kannan The random separating hyperplane theorem and learning latent polytopes
9:50-10:10am	Break Session chair: Peter Nelson	Break	Break Session chair: Levent Tuncel
10:10-10:55am	Dan Kr�l Matroid depth and width parameters	Penny Haxell Independent transversals, topology and resource allocation	Thomas Rothvoss The subspace flatness conjecture and faster integer programming
11:05-11:50am	Cynthia Vinzant Log-concavity in matroids and beyond	Michel Goemans From Ford-Fulkerson's network flows to information or linking flows	Sam Fiorini Integer programs with nearly totally unimodular matrices: the cographic case
	Lunch Session chair: Chaitanya Swamy	Lunch	Lunch Session chair: Luke Postle
2:30-3:15pm	Ola Svensson Advancements in online edge coloring algorithms (Chair: Swamy)	�va Tardos Stability and learning in strategic games	Ken-ichi Kawarabayashi Three-edge-coloring projective planar cubic graphs: A generalization of the Four Color Theorem
3:20-3:50pm	Break	Satoru Iwata Finding maximum edge-disjoint paths between multiple terminals	Break
3:50-4:35pm	Jinyoung Park When sunflowers meet thresholds Session chair: Jane Gao	Break	Break Session chair: Kanstanstin Pashkovich
4:45-5:30pm	Jim Geelen Average plane size	Session chair: Bertrand Guenin Lightning Talks	(Special Tutte Colloquium) Paul Seymour Nearly-linear stable sets
	Reception (QNC atrium)	Poster session (Fed Hall) Banquet (Fed Hall)	Closing remarks
6-8:30pm		6:30-7pm 7-9pm	4:30-6pm Tutte Colloquium Reception



Fed Hall: Poster session and banquet

Near-campus food & drink options:
Starbucks (HLTH, STC)
University Club (UC): sit-in dining
Student Life Centre (SLC): food stalls
University Plaza: numerous places
Grad House (GH): pub

QNC: Location of talks and reception

UNIVERSITY PLAZA