

S.W.A.T. 771 Robotics Symposium  
Morning FRC Schedule

9:00 Registration Student Lounge Please sign in on arrival with your name and team number

9:15 Keynote Speaker Theatre **Mark Breadner, Executive Director of FIRST Canada**

9:45 Break Student Lounge Snacks available or bring your own

10:00 – 10:40	Team 771 S.W.A.T. Karen Lee <b>Social Media and Ur Team – Getting the FIRST word out in new ways.</b>	Team 771 S.W.A.T. Angelique Sturino <b>A basic start to wiring your robot (Hands-On)</b>	Team 1114 Simbotics Ben Bennet <b>Mechanical Design - This presentation deals with the basics of drivetrain design in FIRST, focusing on how to get the most out of what's provided in the FIRST Kit of Parts. (Hands-On)</b>	Team 1503 Spartonics Philipp Schrader <b>Basic - Programming your robot in C++. Participants will learn how to, then try to, create robot programs from scratch, compiling them and downloading them to a robot. (Hands-On)</b>	Maplesoft Industry Member Bonnie <b>Bringing your robot to life, simulator style. The capabilities of MapleSim software will be outlined and attendees will learn what they can do with it and how it can be used.</b>	LabView Industry Member Ben Zimmer Patrick Allen <b>Basic “7 Steps to Robot Success with LabVIEW” Starting with Step 1 Start a New FRC LabVIEW Project Step 2: Add a Joystick Button</b>	Team 781 Kinectic Knights Michelle LaPointe <b>Best Battery Practices. Your batteries should be just like your friends! We'll cover all the things you need to know about them. (Hands-On)</b>
10:40 – 10:50	Break	Break					
10:50 – 11:30	Team 1334 Red Devils  <b>Outreach Tips: How your team can maximize community initiatives</b>	Team 771 S.W.A.T. Eryn Dickison Aileen Yu <b>Junior FIRST Lego League – Tips on starting your own team</b>					

11:30 - 12:30 Pizza Lunch \$5 includes 1 slice, 1 drink and 1 cookie. Extra slices are available at \$3 each  
Entertainment includes: FLL Demo, Puzzles, Games, Lego fun and Conversation

S.W.A.T. 771 Robotics Symposium  
Afternoon FRC Schedule

12:30 – 1:10	Team 771 S.W.A.T. Meghan Holloway <b>Team Leader discussion – Bringing your team together to get where you want to go. (max 2 students per team)</b>	Team 1334 Red Devils Sheridan College professor Avrim Katzman <b>Animation: Tips to assist in the creation of an animation for FRC.</b>	Team 1114 Simbotics Karthik Kanagasabapathy <b>“Strategy” deals with the strategic decisions to be made while designing a robot, as well as competition strategy (scouting, alliance selection, etc.)</b>	Team 610 Crescent Rob Stehlik <b>Computer Aided Design (CAD) – Using technology to design and build your robot. Sharing tips and answering frequently asked questions.</b>	Maplesoft Industry Member Bonnie <b>Repeat of morning session. Bringing your robot to life, simulator style. The capabilities of MapleSim software will be outlined and attendees will learn what they can do with it and how it can be used.</b>	LabView Industry Member Ben Zimmer Patrick Allen <b>Advanced “7 Steps to Robot Success with LabVIEW” Continuing from morning with steps such as: Step 3: Add a Servo Motor Step 4: Add a Digital I/O as Limit Switch</b>	Team 610 Crescent Shawn Lim <b>Advanced Electrical and Programming Tips and Tricks Learn about great electrical components available to get the performance you desire from your robot. Limited to 10 attendees (Hands-On)</b>
1:10 – 1:20	Break	Break					
1:20 – 2:00	Team 3504 Girls of Steel Jaden Barney, Rachel Round Elizabeth Kysel <b>FIRST: The Key to young women exploring STEM</b>	Team 771 S.W.A.T. Sarah Sils <b>Mentor Mingle – Time to share ideas on how to make this season the best ever.</b>					

2:15            Dining Hall            Cake and Conversation

2:40            Dining Hall            **Closing Speaker – Chris Hadfield, Canadian Astronaut extraordinaire.**

# Agenda

9:00	Doors Open for Check-in and Registration	
9:15	Keynote Speaker – Mark Breadner	Theatre
9:45	Break	
10:00	Morning Workshops begin – Please go to either A or AB workshops	
10:40	Break if attending “A” workshop	
10:50	B workshops begin	
11:30	Lunch and Social time	Dining Hall
12:30	Afternoon Workshops begin – Please go to either C or CD workshops	
1:10	Break if attending “C” workshop	
1:20	D workshops begin	
2:00	All workshops finished	
2:15	Cake and Chatter	Dining Hall
2:40	Closing Remarks – Chris Hadfield	Dining Hall
3:30	Event End	

S.W.A.T. 771 Robotics Symposium  
Morning FLL Schedule

9:00 Registration Student Lounge Please sign in on arrival with your name and team number

9:15 Keynote Speaker Theatre **Mark Breadner, Executive Director of *FIRST* Canada**

9:45 Break Student Lounge Snacks available or bring your own

10:00 – 10:40	<b>FLL: Using What You've Got</b> Focus on game strategy, and increasing success by using walls and mission models.	<b>FLL: The Light Sensor</b> How to detect and follow a line and discussion of accuracy strategies. Other sensors if time allows.	<b>FLL: Rookie Basics</b> Just what every rookie needs! The basics of programming your robot will be reviewed by way of the common palette. In addition, proven strategies will be revealed. There will be time to get your programming and strategy questions answered in this session.	<b>FLL: Advanced Concepts</b> This workshop will focus on the advanced capabilities of the NXT-G software. This is recommended for experienced coaches or computer programmers.
10:40 – 10:50	Break	Break		
10:50 – 11:30	<b>FLL: Using What You've Got</b> Repeat of early session Focus on game strategy, and increasing success by using walls and mission models.	<b>FLL: The Light Sensor</b> How to detect and follow a line and discussion of accuracy strategies. Other sensors if time allows.		

11:30 - 12:30 Pizza Lunch \$5 includes 1 slice, 1 drink and 1 cookie. Extra slices are available at \$3 each  
Entertainment includes: FLL Demo, Puzzles, Games, Lego fun and Conversation

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Afternoon FLL Schedule

12:30 – 1:10	<p><b>FLL: Best Practices for Building</b> Focus in this session is a universal attachment process, building strong structures, and modular designs.</p>	<p><b>FLL: Organizing your team</b> This session will discuss questions like: How big should your team be? How do you organized the team? What kinds of activities should I do with my kids? What should our season look like?</p>	<p><b>FLL: General Question and Answer Session</b> This session will be a time for you to get your questions answered. Bring questions about FLL in general, the tournament, logistics or whatever is on your mind.</p>	<p><b>FLL: Advanced Concepts</b> This workshop will focus on the advanced capabilities of the NXT-G software. This is recommended for experienced coaches or computer programmers.</p>
1:10 – 1:20	Break	Break		
1:20 – 2:00	<p><b>FLL: Open Session to help teams with anything that is needed.</b>  This session will be facilitated by 4 or 5 experienced FLL coaches.</p>			

2:15            Dining Hall            Cake and Conversation

2:40            Dining Hall            **Closing Speaker – Chris Hadfield, Canadian Astronaut extraordinaire.**