	Wednesday June 12		Thursday June 13		Friday June 14	
8:30 - 9 AM	Coffee & danish		Coffee & danish		Coffee & danish	
9 AM - Noon (Coffee break 10:20-10:40 AM)	From solar to stellar astrophysics		Stellar evolution		Stellar formation	
	Topics	Instructor	Topics	Instructor	Topics	Instructor
	 The sun as a star Corona and wind Magnetism and dynamo Activity cycle, eruptive events, and radiative variability 	Paul Charbonneau (UdeM)	 What is a star? The HR diagram and parameters that determine how a star evolves Equations of stellar structure: hydrostatic balance, energy transport, nuclear burning, stellar evolution timescales Introduction to the MESA code Basic ideas in stellar evolution: central density/temperature diagram and mapping to the HR diagram; core vs shell burning and giants Using MESA to run a 1 solar mass model from PMS to white dwarf 	Andrew Cumming (McGill)	 Birth properties of stars Structure and Turbulence in Molecular Clouds Fluid instabilities and fragmentation scales Protostellar cores and disks Feedback interactions in star formation 	Chris Matzner (U. of Toronto)
Noon - 1:30 PM	Lunch		Lunch		Lunch	
	Bottom of the main sequence		Massive stars and stellar winds		Stellar death	
	Topics	Instructor	Topics	Instructor	Topics	Instructor
1:30 - 4:30 PM (Coffee break 3:00 - 3:20 PM)	 Solar neighborhood Young associations and stellar dynamics Very low-mass stars Brown dwarfs Planetary-mass objects 	Jonathan Gagné (UdeM)	 Massive stars - The massive stars zoo; evolution in the upper HR diagram; extra-galactic massive stars; starbursts; population III stars Stellar Winds - Observational signatures; isothermal winds; line driven winds; dust driven winds 	Laurent Drissen (U. Laval) & Nicole St-Louis (UdeM)	 White dwarfs - Basic properties; white dwarf atmospheres; the cooling problem; spectral evolution Neutron stars - Core-collapse Supernovae; TOV equation and equation of state; pulsars; binary neutron star mergers and their GWs Black holes - Early history; the Schwarzschild solution: basic properties and implications; how are BH detected: the basics of accretion; bringing in rotation: the Kerr solution, the most general BH; esoteric topics 	Pierre Bergeron (UdeM), Vanessa Graber (McGill) & Serge Pineault (U. Laval)