Monday April 22, 2019

8:00 – 8:45	Registration/Breakfast (STScI Rear Lobby/Café Azafran)	
8:45 – 8:50	Ken Sembach	Welcome
8:50 – 9:00	Martha Boyer	Introduction

Session 1 – Which Stars Explode?

Chair: Emily Levesque		
9:00 – 9:30	**Stephen Smartt**	***Which Stars Explode?***
9:30 – 10:00	**Stan Woosley**	***The Deaths of Massive Stars***
10:00 – 10:15	Carolyn Doherty	*Impact of Rotation on the Low-mass/High-mass Star Divide*
10:15 – 11:00	Coffee Break + Posters	
Chair: Ori Fox		
11:00 – 11:30	**Tuguldur Sukhbold**	***Missing Redsupergiants and Carbon Burning***
11:30 – 11:45	Ashley Chrimes	*Exploring Progenitor Pathways for Long Duration Gamma-ray Bursts in Binary Stellar Evolution Models*
11:45 – 12:00	Jeremiah Murphy	*Toward Predicting and Constraining the Explosions of Massive Stars*
12:00 – 12:15	Jose Groh	*The Surprising Look of Massive Stars before Death*
12:15 – 12:30	Jeffrey Cummings	*The Transition Mass for Core-Collapse Supernovae Derived from the Initial-Final Mass Relation*
12:30 – 1:40	Lunch	

Session 2 – What Are the Physical Effects Controlling Stellar Death?

Chair: Craig Wheeler		
1:40 – 2:10	**Maryam Modjaz**	***Impact of Metallicity on the Diverse Deaths of Massive Stars***
2:10 – 2:25	Eva LaPlace	*The Size of Stripped-envelope Supernovae Progenitors and Its Impact on Gravitational Waves Events*
2:25 – 2:55	**Jen Andrews**	***Mass Loss and Eruptions in Core Collapse Supernova Progenitors***
2:55 – 3:10	Emily Levesque	*Rotation and Mass Loss in Luminous Blue Variables*
3:10 – 4:00	Coffee Break + Posters	
Chair: Stuart Ryder		
4:00 – 4:15	Jennifer Hoffman	*Leaving traces: How polarized lines reveal properties of CCSN progenitors*
4:15 – 4:45	**JJ Eldridge**	***EM and GW transient with BPASS & CURVEPOPS***
4:45 – 5:00	Trevor Dorn-Wallenstein	*Stellar Population Diagnostics of the Massive Star Binary Fraction*
5:00 – 5:15	Niharika Sravan	*A Comprehensive Population-scale Modeling of Type IIb Supernova Progenitors*
5:15 – 5:30	David R. Aguilera-Dena	*Progenitors of Type I SLSNe and Long GRBs*
5:30 – 7:00	Welcome Reception (Café Azafran)	

Tuesday April 23, 2019

8:15 – 9:00	Registration/Breakfast (STScI Rear Lobby/Café Azafran)

Session 3 – How Do Stars Die?

Chair: Suvi Gezari		
9:00 – 9:30	**Sofia Ramstedt**	***Stellar Winds with ALMA***
9:30 – 9:45	Raghvendra Sahai	*Binarity and the Formation of Bipolar and Multipolar Pre-Planetary and Planetary Nebulae*
9:45 – 10:15	**Ragnhild Lunnan**	***What Powers Superluminous Supernovae?***
10:15 – 11:00	Coffee Break + Posters	
Chair: Tuomas Kangas		
11:00 – 11:30	**Iair Arcavi**	***New Discoveries of Extreme Supernovae***
11:30 – 11:45	Nathan Roth	*The Aspherical Cow: Interpretation of Multi-Wavelength Observations of AT2018cow*
11:45 – 12:00	Anna Ho	*A Ic-BL Supernova with Shock-cooling Emission, Discovered as a Fast optical Transient*
12:00 – 12:15	Andy Howell	*Connecting SNe to their progenitors with the Global Supernova Project*
12:15 – 12:30	Jacob Jencson	*Uncovering Hidden Stellar Explosions with Spitzer*
12:30 – 1:40	Lunch	
Chair: Ryan Foley		
1:40 – 1:55	Eric Hsiao	*Observational Clues on the Origins of "Super-Chandrasekhar" Type Ia Supernovae*
1:55 – 2:10	Andreas Floers	*Constraints On the Explosion Mechanisms of Type Ia Supernovae from Optical and NIR Nebular Phase Spectroscopy*
2:10 – 2:25	Sumit K. Sarbadhicary	*Local Group Delay Time Distributions (DTDs): A New Perspective on Progenitor Models Using Resolved Stellar Populations*

Session 4 – Which Pathways Lead to the Destruction of Stellar Remnants?

2:25 - 2:55	**Ken Shen**	***The Current View of Type Ia SN Progenitors***
2:55 - 3:10	Melissa Graham	*Identifying Non-Degenerate Companions in SNeIa via CSM Interaction*
3:10 - 3:25	Armin Rest	*(for Georgios Dimitriadis) Early and Late-time Observations of Kepler's Brightest Supernova SN 2018oh*
3:25 - 3:30	Conference Photo	
3:30 - 4:15	Coffee Break + posters	
Chair: Ken Nomoto		
4:15 - 4:45	**Selma de Mink**	***Progenitors of GW Detected Black Holes***
4:45 - 5:00	Nicola Giacobbo	*Stellar Deaths as the Birth of Double Neutron Stars*
5:00 - 5:15	Carl-Johan Haster	*Gravitational Wave Observations of a Population of Stellar Mass Black Holes*

~6:00	Conference Dinners (At several restaurants, led by SOC members)	
8:00 – 9:00	**Dan Milisavljevic**	***Public Lecture***

Wednesday, April 24, 2019

8:15 – 9:00	Registration/Breakfast (STScI Rear Lobby/Café Azafran)

Session 5 – What Happens in the Aftermath of Stellar Death?

Chair: Andy Fruchter		
9:00 – 9:30	**Nora Troja**	***Electromagnetic Emission from NS Mergers***
9:30 – 9:45	Ben Gompertz	*The Diversity of Kilonova Emission in Short Gamma-Ray Bursts*
9:45 – 10:15	**Enrico Ramirez-Ruiz**	***R-Process Kilonova Optical/Infrared Emission***
10:15 – 10:30	Charlie Kilpatrick	*Constraints on Long-lived Radioisotopes from the Gravitational Wave Counterpart AT 2017gfo*
10:30 – 11:15	Coffee Break + Posters	
Chair: Beth Sargent		
11:15 – 11:45	**Jennifer Johnson**	***Origin of the Elements***
11:45 – 12:00	Paola Marigo	*Carbon Star Formation in the Milky Way as Seen through the Initial-final Mass Relation*
12:00 – 12:15	Aldana Grichener	*R-process Nucleosynthesis in Common Envelope Jets Supernovae*
12:15 – 1:25	Lunch	

Session 5 continued

Chair: Erin Smith		
1:25 - 1:55	**Ambra Nanni**	***Dust from Stellar Deaths***
1:55 - 2:10	Eli Dwek	*The Evolution of Dust in SN Ejecta*
2:10 - 2:25	Guido de Marchi	*Polluting in Time and Space*
2:25 - 2:55	**Jay Farihi**	***Pandemonium in the Planetary Graveyard***
2:55 - 3:10	John Debes	*Finding Warm Dust Around a 3 Gyr White Dwarf via Citizen Science*
3:10 - 4:00	Coffee Break + Posters	
Chair: Armin Rest		
4:00 - 4:40	**Laura Lopez**	***Tying SN Remnants to SN Progenitors***
4:30 - 4:45	Brian Williams	*The Expansion of the Young Supernova Remnant 0509-68.7 (N103B)*
4:45 - 5:00	Wolfgang Kerzendorf	*The Siblings of Cas A*
5:00 - 5:30	**Tim Heckman**	***Supernova-driven Galactic Winds***
5:30 - 5:35	Gautham Narayan	*A Look Forward to the Upcoming Workshop*

Invited speakers are marked in bold, blue font