



# MMT Observatory's 40<sup>th</sup> Anniversary Symposium & Celebration Program

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## Monday, 13 May 2019

9:00 AM	Mt. Hopkins Tour	
7:30 PM	Steward Observatory Public Evening Lecture – Steward, Room N210 “Still Innovating and Discovering! - The MMT Turns 40” followed by viewing of the 21-inch Ray White Telescope	Don McCarthy

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## Tuesday, 14 May 2019

9:00 AM	Welcome	Grant Williams Dean Joaquin Ruiz
9:10	You Can't Do It That Way: Stories from the MMT Construction	Bill Hoffmann
9:40	Early Science with the MMT	David Latham
10:00	From Polishing the Original Six Mirrors, Phasing Them with Laser AO and a Neural Net, to Making the Single Mirror	Roger Angel
10:30	<b>Break/Posters</b>	
11:00	Making the 6.5m Primary Mirror for the MMT Upgrade	John Hill
11:20	Two Horses One Coach	Nick Woolf
11:40	A Brief History of Binospec	Dan Fabricant
12:10 PM	<b>Lunch</b>	
1:40	Going Deep with Binospec: Evolution of Ultra-Diffuse Galaxies from Their Internal Dynamics and Stellar Contents	Igor Chilingarian
2:00	MMT's Powerful Large Field of View Multi-Object Spectroscopy Probes Star Formation in the Milky Way	Serena Kim

2:20	Constraining the Formation Timescale of Star Clusters with Hectochelle	Beomdu Lim
2:40	Spectroscopic Studies of Young Stellar Objects in Nearby Star Forming Regions with MMT in Past Decades	Min Fang
3:00	<b>Break/Posters</b>	
3:30	Gravitational Wave White Dwarf Binaries	Warren Brown
3:50	MAPS: Upgrading MMT AO with 3rd-Generation ASM Technology and ARIES with High-Resolution Spectroscopy for Characterizing Exoplanets	Phil Hinz and Katie Morzinski
4:20	New Capabilities for Science with ARIES and MMTAO	Craig Kulesa
4:40	The MMT at 50 Years Old: What Should the MMT be in 2029?	Daniel Eisenstein
5:00	Discussion on future instrumentation	
5:30	<b>Opening Reception and Group Photo – ENR2 Rooftop</b>	TBD

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## Wednesday, 15 May 2019

9:00 AM	Massive Stars in M31 and M33: What the Mighty MMT Has Taught Us	Philip Massey
9:20	Discovering and Characterizing Binary Red Supergiants	Kathryn Neugent
9:40	Chasing Gamma-Ray Bursts with the MMT	Wen-fai Fong
10:10	Rapid Follow-Up of Gravitational Wave Events with SAGUARO and the MMT	Kerry Paterson
10:30	<b>Break/Posters</b>	
11:00	Results of the Arizona Transient Exploration and Characterization Program over the Past 5 Years	Jennifer Andrews
11:20	Getting Supernovae into Shape with the MMT	Grant Williams
11:40	Asphericities in Type II <sub>n</sub> Supernovae Revealed by MMT Blue Channel and SPOL data	Christopher Bilinski
12:00 PM	<b>End of Day 2 Symposium - Free Afternoon/Posters</b>	
1:30 – 5:00	<b>Optional Workshops</b>	
1:30	How to Prepare for Your Observing Run with the MMTO Scheduler Database	Joannah Hinz, Tim Pickering, Ben Weiner, Dallan Porter, Chun Ly, ShiAnne Kattner

2:15	How to Design Masks for MMIRS and Binospec	Igor Chilingarian, Kirill Grishin, Chun Ly, Ben Weiner, Tim Pickering
3:15	Using the Data Reduction Pipelines for MMIRS and Binospec	Igor Chilingarian, Chun Ly, Ben Weiner, Tim Pickering
4:00	How to Communicate Your Science Result	Amy Oliver, Joannah Hinz, ShiAnne Kattner
5:30	<b>Banquet at Kingan Gardens</b>	TBD

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## Thursday, 16 May 2019

9:00 AM	The Galactic Stellar Halo Revealed by the H3 Survey	Charlie Conroy
9:30	Hectochelle and Dwarf Galaxies: 2005-present	Edward Olszewski
9:50	The Ophiuchus Stream - Longer, but Still Short	Nelson Caldwell
10:10	<b>Break/Posters</b>	
10:40	Hectospec is Shedding Light on Black Hole—Galaxy Co-Evolution in Extragalactic Surveys	Andy Goulding
11:00	The HectoMAP Cluster Survey	Jubee Sohn
11:30	Rare Views of Galaxy Cluster Laboratories: a Redshift Survey in the Field of PLCK G165.7+67.0	Brenda Frye
11:50	<b>Lunch</b>	
1:20 PM	Attack of the Lyman-Alpha Blobs: A Multi-Wavelength and Polarization Study using MMT	Ann Zabludoff
1:50	Pushing the limit of the MMT: Chemical Abundances for Low-Mass Galaxies from the MACT Survey	Chun Ly
2:10	Extremely Metal-Poor Galaxies as Stellar Laboratories	Peter Senchyna
2:30	<b>Break/Poster</b>	
3:00	High-Resolution Companion Searches with the MMT: Implications for Star and Planet Formation	Jenny Patience
3:30	Probing Exoplanet Atmospheres with Binospec	Ben Rackham
3:50	ACCESS-North: Exploring the CO/CH <sub>4</sub> Temperature Boundary	Ian Weaver

4:10	Status of the Telescopio San Pedro Martir	Jesus Gonzalez or Michael Richer
4:40	Beyond the Successes of MMT -- A Bright Future for 6.5-m Observatories	Jeff Kingsley

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## Posters

MMT Observations of the JWST Time Domain Field	Christopher Willmer
The MMT's View of PKS1502+106: The Highest Optical Polarization Ever Seen in a Quasar	Paul Smith
Star-Formation Histories of Diffuse Post-Starburst Galaxies in Coma and Abell 2147	Kirill Grishin
Highly Cited Papers from the MMTO	Joannah Hinz
Searching for the Most Distant Quasars with the MMT: 2002 – 2019	Xiaohui Fan
Discovery of the First Gravitationally Lensed Quasar in the Reionization Epoch using MMT	Jinyi Yang
BLAS: The Binospec Lyman Alpha Survey	Rohan Naidu
Accretion variability of young stars in Lynds 1641	Min Fang
Characterizing the Circumstellar Disks of IC 1805	Matthew Wentzel - Long