Monday, October 10 (all sessions at VU Conference Center)

Session 1 9:00 – 10:55 (Andrej Prša, Villanova University)

9:00 *Welcome*
9:05 Edward Guinan – *The Proxima Centauri Star-Planet System: Planet and Stellar Properties from Time-Series Observations* (keynote)
9:40 Melissa Graham – *LSST overview and status*
10:05 Tony Tyson – *LSST optical transient survey modes* (invited)
10:30 Mark Wells – *Preliminary Results on the Performance of the LSST on the Detection of Eclipsing Binaries* (invited)

Coffee 10:55 – 11:15

Session 2 11:15 – 12:30 (Rob Seaman, University of Arizona)

11:15 Lynne Jones – *The Solar System and LSST* (keynote)
11:50 Colin Slater – *Image Differencing in LSST*
12:05 Eric Christensen – *The Enhanced Catalina Sky Survey for Near-Earth Objects*

Lunch 12:30 – 1:30 (on site)

Session 3 1:30 – 3:20 (Eric Christensen, University of Arizona)

1:30 Sarah Greenstreet – *Preparing for LSST with the LCOGT NEO Follow-up Network* (keynote)
2:05 Tim Lister – *The LCOGT NEO Follow-up Network* (invited)
2:30 Ashish Mahabal – *CRTS: Recent Progress and Results*
2:55 Patrick A. Taylor– *Arecibo Radar and Multi-Wavelength Collaborations on Near-Earth Asteroids* (invited)

Coffee 3:20 – 3:50

Session 4 3:50 – 5:15 (Ashish Mahabal, Caltech)

3:50 Gareth Williams – *Implementing Minor Planet Center V2.x* (keynote)
4:25 Joseph Masiero– *NEOWISE: Overview and Recent Results* (invited)
4:50 Larry Denneau – *The Asteroid Terrestrial-impact Last Alert System (ATLAS) Update* (invited)

Breakouts 5:30 – 6:30

5:30 *Near Earth Asteroids* (1 hour)

Reception 7:00 pm (Villanova University Conference Center)

Tuesday, October 11

Session 5 9:00 – 10:20 (Larry Denneau, University of Hawaii)

9:00 *Announcements*
9:05 Matthew J. Lehner – *The Transneptunian Automated Occultation Survey (TAOS II)*
9:30 Dan Avner – *FRoST: Flagstaff Robotic Survey Telescope* (invited)
9:55 Brian Burt – *The State of MANOS and asteroid.lowell.edu* (invited)

Coffee 10:20 – 10:50

Session 6 10:50 – 12:15 (Roy Williams, Caltech / LIGO)

10:50 Samaya Nissanke – *EM Follow-up for LIGO* (keynote)
11:25 Maohai Huang – *SVOM Science Ground Segment*
11:50 Reed Essick – *Internal vetting and analysis of low-latency GW triggers* (invited)

Lunch 12:15 – 1:30 (on site)

Session 7 1:30 – 3:00 (Tara Murphy, University of Sydney)

1:30 Roy Williams – *Skymap Viewer: Evaluating Observation Priority for Gravitational-Wave Follow-up*
1:55 David A.H. Buckley – *The SAAO-SALT Transient Detection and Followup Program* (invited)
2:20 Gautham Narayan – *ANTARES: Progress towards building a Broker of time-domain alerts*
2:45 *ANTARES Demo* (15 min)

Coffee 3:00 – 3:30

Session 8 3:30 – 5:10 (Joshua Pepper, Lehigh University)

3:30 Paula Szkody– *Lessons Learned from Past/Ongoing Survey Followups* (invited)
3:55 Eric Bellm – *The Zwicky Transient Facility* (invited)
4:20 R.K. Pawłaszek– *Project Solaris - a global network of robotic telescopes. Current status and prospects*
4:45 M. Litwicki – *Environmental data acquisition system for Project Solaris*

Breakouts 5:30 – 6:30

5:30 *Rapid response follow-up for multi-messenger phenomena* (1 hour)

Dinner (on your own)

Wednesday, October 12

Session 9 9:00 – 10:30 (Rachel Street, LCOGT)

9:00 *Announcements*

9:05 Jessie Christiansen– *Detection and Characterization of Exoplanets in the Era of Space-based Transit Surveys* (keynote)

9:40 Michael B Lund – *Exoplanets as Byproducts of Modern Surveys* (invited)

10:05 Knicole Colón – *Multi-Epoch Surveys with the NASA K2 Mission*

Coffee 10:30 – 11:00

Session 10 11:00 – 12:40 (Eric Jensen, Swarthmore College)

11:00 Tabetha Boyajian – *KIC 8462852: Where's the Flux?* (invited)

11:25 Matthew Penny – *WFIRST: The Wide-Field InfraRed Survey Telescope and what we can learn from its microlensing survey* (invited)

11:50 Jennifer Yee – *The WFIRST Microlensing Survey: 2.8 sq deg of the Bulge at a 15 minute cadence* (invited)

12:15 Keaton J. Bell – *Stellar Pulsations in Sparse Time Series Photometry* (invited)

Lunch 12:40 – 1:30 (on site)

Session 11 1:30 – 3:10 (Joshua Pepper, Lehigh University)

1:30 Scott G. Engle – *Revealing the Secret Lives of Cepheids Through Photometric Surveys and Multi-Wavelength Data*

1:55 Bartlomiej Debski – *Light Curve Mophology of close binary stars: a tool for refined classification in large photometric surveys*

2:20 Jan van Roestel – *Sky2Night*

2:45 Scott W. Fleming – *Project Blacklight: Intra-Visit Variables with gPhoton*

Coffee 3:10 – 3:30

Session 12 3:30 – 5:05 (Rob Seaman, University of Arizona)

3:30 Tim Staley– *Software sustainability in astronomy* (keynote)

4:05 *Software Demos & Discussions* (1 hour)

Banquet 7:00 (location to be announced)

Thursday, October 13

Session 13 9:00 – 10:55 (Tara Murphy, University of Sydney)

9:00 *Announcements*

9:05 Rachel Street – *Optimizing Facilities and Infrastructure for Time Domain Science* (keynote)

9:40 Ira W. Snyder – *LCOGT Server Deployment and Monitoring: An Adventure in Automation* (invited)

10:05 Curtis McCully – *BANZAI: An Open Source Data Reduction Pipeline for Las Cumbres Observatory* (invited)

10:30 Nikolaus Volgenau – *LCO: around-the-world, around-the-clock operations*

UnCoffee 10:55 – 11:15

Session 14 11:15 – 12:30 (Rachel Street, LCOGT)

9:05 *Unconference*

Pending: unabstracts / unagenda

Lunch 12:30 – 1:30 (on site)

Session 15 1:30 – 3:10 (Eric Jensen, Swarthmore College)

1:30 Andrej Prša – *1% accuracy in fundamental stellar parameters? Not without an extensive redesign of eclipsing binary models*

1:55 Darryl Wright – *Supernova Hunters: combining human and machine classifications*

2:20 James Guillochon – *An Open Catalog for Supernova Data*

2:45 Kyle Conroy – *Model-Centric All-Sky EB Catalog: collaborative open-science and optimizing follow-up efforts*

Coffee 3:10 – 3:40

Session 16 3:40 – 4:55 (Melissa Graham, University of Washington)

3:40 Bryan Miller – *Gemini Operations and the Time Domain* (invited)

4:05 Niharika Sravan – *Single versus binary star progenitors of Type IIb supernovae*

4:30 Greg Schwarz – *Mandates and Narrative: Including data in your AAS Journal article*

Dinner (on your own)

Friday, October 14

Session 17 9:00 – 10:20 (Andrej Prša, Villanova University)

9:00 *Announcements*
9:05 Vikram Ravi – *The hottest transients in the Universe* (invited)
9:30 Tara Murphy – *The Dynamic Radio Sky: Transient Pipelines for ASKAP and the MWA*
9:55 Howard E. Bond– *The SPIRITS Survey for Extragalactic Infrared Transients*

Coffee 10:20 – 10:50

Session 18 10:50 – 12:00 (Melissa Graham, University of Washington)

10:50 Tina Peters – *Quasars Selected by both Color and Variability* (invited)
11:15 Vishal P. Kasliwal – *Extracting Information from AGN Variability*
11:40 Tara Murphy – *Wrap-up* (20m)

12:00 pm – Symposium adjourns