

I. (9:15-10:30) The Solar System

IA. Trends in the Short-Term SSI Variability over 100 Carrington Rotations from the UV through the Near IR	15
Lauren Bearden, Colgate University '14	
IB. The 2012 Transit of Venus: A Closer Look at the Cytherean Aureole	15
Eric Edelman, Wesleyan University '13	
IC. Measuring Water in Merrillite within Martian Meteorites	15
James W. Dottin III, Wesleyan University '13	
ID. Mars Brine Mineralogy	15
Lavontria Miché Aaron, Wesleyan University '14	
IE. Sidereal Period Determination of Koronis Family Asteroid (1635) Bohrmann	15
Alyssa Sokol, Colgate University '14	

II. (11:00-12:05) Laboratory Astrophysics and Exoplanets

IIA. Dynamics of Dust Aggregates in a Complex Plasma	15
Allen B. Davis, Williams College '14	
IIIB. Optimizing Exoplanet Transit Observations and Analysis at Wellesley College	20
Kirsten Blancato, Wellesley '15, Kerry Klemmer, Wesleyan '13, Anna Payne, Wellesley '15, and Amy Tulay, East Stroudsburg '13	
IIIC. Photometric Analysis of the Transiting Exoplanet TrES-1	15
Katie Iadanza, Colgate University '13	
IIID. WesTEP, Three Years On: Let's All Take A VECTOR-y Lap	15
Ben Tweed, Wesleyan University '13	

III. (1:15-2:35) Stars and ISM

IIIA. X-Ray Determinations of Nitrogen and Oxygen Abundances in the O Supergiants ζ Ori and ζ Pup	15
Jacob E. Neely, Swarthmore College '13	
IIIB. Hubble STIS Spectroscopic Census of HD 32297, a β Pic Analog	15
Michael S. Fusco, Colgate University '13	
IIIC. Silicon Abundance in the ISM	15
Sarah Sofia, Haverford College '14	
IIID. Topology in Synthetic Column Density Maps for Interstellar Turbulence	15
Joseph Putko, Middlebury College '13	
IIIE. An Atlas of Stars Past: Supernova Remnants in the Optical Spectrum	20
Lucia Perez, Wellesley '14, and Edward B. Smyth, Middlebury '15	

IV. (3:00-3:55) Extragalactic

IVA. Optical and Infrared Analysis of Star-forming Complexes in Local Spiral Galaxies	20
Yaron Teich, Vassar College '13, and Mark Popinchalk, Wesleyan University '13	
IVB. Properties of the Discrete X-ray Source Population of the M82 Starburst Region	15
Vaishali Parkash, Union '14	
IVC. Long and Short Term Optical Variability in BL Lac Object BL Lacertae	20
Carolyn Thayer, Wellesley College '14, and Lily Zucker, Wesleyan University '14	