

2016 GROWTH Education Workshop Program

July 27

9:00 – 9:15 am	Registration
9:15 – 10:30am	Opening Session: Overview Talks
9:15 – 9:30am	Overview of GROWTH education program (Bryan Penprase)
9:30 – 9:45am	Discovering the Universe class at Caltech and Caltech Optical Observatories (Shri Kulkarni)
9:45 – 10:20am	Overviews of undergrad/major student populations at each GROWTH partner institution (moderated by Stuart Vogel)
10:20 – 10:30am	GRADMAP (Stuart Vogel)
10:30 – 11:00 am	Coffee Break
11:00 – 12:15 pm	Session 1: Advanced Astronomy Courses – overview of curriculum
11:00 – 11:25am	Observational Astronomy Course at Pomona (Phil Choi)
11:25 – 11:35pm	Short course in astronomy research at Stockholm University with NOT (Seméli Papadogiannakis)
11:35 – 12:00pm	Observational Astronomy Course at Williams (Jay Pasachoff)
12:00 – 12:15pm	Astrophysics Problems and Courses at Tokyo Institute of Tech (Nobuyuki Kawai)
12:30 – 1:30 pm	Lunch
1:30 – 3:00 pm	Session 2: Introductory Astronomy Courses and Time-Domain Astronomy
1:30 – 2:00pm	SDSU Astronomy Labs and Using SN light curves in astronomy cases (Robert Quimby)
2:00 – 2:30pm	Remote Radio Astronomy: ARCC@UWM and Beyond (David Kaplan)
2:30 – 3:00pm	Introductory Astronomy Course at UMD with Remote Observing (Melissa Hayes-Gehrke)
3:00 – 3:15 pm	Coffee Break
3:15 – 4:45 pm	Session 3: Time-Domain Astronomy – Observing and Research
3:15 – 3:45pm	Pulsar Timing Workshop and Pulsar Search Collaboratory (Joe Swiggum)
3:45 – 4:15pm	Using PTF Variable Marshal in Astronomy Major Course (Melissa Hayes-Gehrke)
4:15 – 5:00pm	Developing a Global Advanced Observational Astronomy Course + shared remotely operated telescopes (Bryan Penprase)

July 28

9:00 – 10:20 am	Session 5: Active Learning and Shared Resources
	<i>Developing Active Learning Techniques in Astronomy Courses</i> (1) Education Research on Active Learning Techniques (2) Active Learning Techniques for Astronomy Courses at All Levels (3) “Flipping” a Course to Promote Engagement
10:20 – 10:40	Coffee Break
10:40 – 11:30 am	Session 6: Shared Resources for Undergraduate Research and Education
	(1) Develop plans for sharing curriculum resources for undergraduate courses (2) Developing modules and tutorials relevant to multiple courses
11:30 – 12:00 pm	Closing Discussion
	Discussion with entire group with report-out from both working groups, and plan for next steps.