

Starting Student Space Hardware Programs V: Workshop Agenda

July 12 – 15, 2006
Boulder, Colorado

Wednesday, July 12, 2006

7:00	(60)	Registration (Continues until 9:00) Hot Breakfast (Provided)	Atrium Atrium
8:00	(30)	Welcome and Introductions – <i>Chris, Bill, Mike</i>	DLC 1B-70
8:30	(20)	Overview of Goals and Review of Workshop Agenda – <i>Chris</i>	DLC 1B-70
8:50	(20)	Overview of CricketSats, BalloonSats and Ballooning – <i>Chris, Bill, Mike</i>	DLC 1B-70
9:10	(10)	Introduction to Hands-On Activities & Team Forming	DLC 1B-70
9:20	(40)	Hands-on Activity: “Light to Pluto”	DLC 1B-70
10:00	(15)	Hands-on Activity: “Let them Fly”	Courtyard
10:15	(20)	Break	Atrium / Courtyard
10:35	(65)	Hands-on Activity: “Soldering 101”	DLC 1B-70
11:40	(20)	CricketSat Introduction and Overview - Mike	DLC 1B-70
12:00	(30)	Lunch	Atrium / Courtyard
12:30	(110)	Hands-on Activity: “CricketSat TX”	DLC 1B-70
2:20	(15)	Break (Snacks Provided)	Atrium / Courtyard
2:35	(75)	Hands-on Activity: “CricketSat RX”	DLC 1B-70
3:50	(20)	Hands-on Activity: “CricketSat Calibration”	DLC 1B-70
4:10	(20)	Hands-on Activity: “CricketSat Launch”	Courtyard
4:30	(10)	CricketSat Advanced Applications and Wrap-up - Mike	DLC 1B-70
4:40	(20)	<i>Past Participant Connection: Alaska CricketSat Program - Neal Brown</i>	DLC 1B-70
5:00	(10)	Recap of Day 1 and Adjourn	DLC 1B-70
5:10		Dinner on your own	

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7:00	(60)	Hot Breakfast (Provided)	Atrium
8:00	(20)	BalloonSat Overview - Chris	DLC 1B-70
8:20	(110)	Hands-on Activity: "Timing Circuit, Power and Camera Integration"	DLC 1B-70
10:10	(20)	Break	Atrium / Courtyard
10:30	(15)	Introduction of Environments at 100,000 feet – <i>Chris</i>	DLC 1B-70
10:45	(50)	Hands-on Activity: "Heater Circuit" Submission of Team information Too	DLC 1B-70
11:35	(25)	<i>Past Participant Connection:</i> <i>Puerto Rico Balloon Program – Oscar Resto and Gladys Munoz</i>	DLC 1B-70
12:00	(40)	Lunch	Atrium / Courtyard
12:40	(15)	Introduction to HOBO Computers – <i>Chris</i>	DLC 1B-70
12:55	(45)	Hands-on Activity: "Temperature Experiment and Solar Experiment & Delay Start"	DLC 1B-70
1:40	(60)	<i>Past Participant Connection:</i> <i>Large (and Small) Multi-disciplinary Student Design Projects - Suzanne Smith</i>	DLC 1B-70
2:40	(20)	Break (Snacks Provided)	Atrium / Courtyard
3:00	(10)	Van Assignments	DLC 1B-70
3:10	(15)	Introduction to BalloonSat Construction – <i>Chris</i>	DLC 1B-70
3:25	(85)	Hands-on Activity: "BalloonSat Construction, Switches, Integration, & Test"	DLC 1B-70
4:50	(20)	Integration of StudentSat Programs into Curriculum – <i>Chris</i>	DLC 1B-70
5:10	(05)	Recap of Day 2 and Adjourn – <i>Bill & Chris</i>	DLC 1B-70
5:15		Dinner on your own	

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Friday, July 14, 2006

7:00	(30)	Breakfast (Provided)	Atrium
7:30	(60)	Starting a Ballooning Program: The Montana Example – <i>Bill</i>	DLC 1B-70
8:30	(25)	Overview of Upcoming Group Activities – Bill & Chris	DLC 1B-70
8:55	(10)	Break (Room Divided into three)	Atrium / Courtyard
9:05	(55)	Group A BalloonSat Completion and Weigh In Group B Ballooning 101 Group C Balloon Inflation Group D Tracking and Recovery Group E On-Campus Fox Hunt	Front Middle Atrium Back Courtyard
10:05	(55)	Group E BalloonSat Completion and Weigh In Group A Ballooning 101 Group B Balloon Inflation Group C Tracking and Recovery Group D On-Campus Fox Hunt	Front Middle Atrium Back Courtyard
11:05	(55)	Group D BalloonSat Completion and Weigh In Group E Ballooning 101 Group A Balloon Inflation Group B Tracking and Recovery Group C On-Campus Fox Hunt	Front Middle Atrium Back Courtyard
12:00	(30)	Lunch (Provided)	Atrium
12:30	(55)	Group C BalloonSat Completion and Weigh In Group D Ballooning 101 Group E Balloon Inflation Group A Tracking and Recovery Group B On-Campus Fox Hunt	Front Middle Atrium Back Courtyard
1:30	(55)	Group B BalloonSat Completion and Weigh In Group C Ballooning 101 Group D Balloon Inflation Group E Tracking and Recovery Group A On-Campus Fox Hunt	Front Middle Atrium Back Courtyard
2:30	(20)	Break (Snacks Provided) (Rooms combine back to one)	Atrium
2:50	(55)	General Comments and Questions	DLC 1B-70
**	**	Dru Ellsberry – Maryland Space Grant Ballooning Program	
**	**	Mark Ford – Maine High School Ballooning Program	
**	**	John Bognar – Anasphere: Analytical and Atmospheric Instrumentation	
3:50	(10)	Group Picture	Atrium
4:00	(45)	Launch Logistics – <i>Chris</i>	DLC 1B-70
4:45	(15)	Recap of Day 3 and Adjourn – <i>Bill & Chris</i>	DLC 1B-70
5:00	Dinner	(on your own)	
5:10	(20)	Navigator Training for those who have volunteered	Atrium
5:10	(20)	Flight String Attachment for those who have volunteered	DLC 1B-70

** Time Permitting

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Saturday, July 15, 2006

- 5:15 Leave Boulder for Launch Site (Deer Trail, CO which is 76 Miles SE of Boulder)
- 6:30 Arrive at Launch Site
- Continental Breakfast, Coffee, Juice
- Tour of Launch Operations
- Assignment of Launch Tasks
- Set up of van tracking stations
- 6:35 Final Checkout of BalloonSats
- 7:10 Fill EOSS Balloon #1
- 7:29 Launch Test Balloon
- 7:30 Release EOSS Balloon #1
- 7:55 Fill EOSS Balloon #2
- 8:14 Launch Test Balloon
- 8:15 Release EOSS Balloon #2
- 8:20 Begin Recovery and Tracking Operations
- Assemble recovery teams
- Distribution of Radios, Maps, and GPS Units
- Review Predicted landing site and rendezvous points
- 8:25 Depart (Each van will have drinks and box lunches)
- ~10:30 Arrive at Landing site
- Hike begins
- ~12:00 Recovery Complete
Data Retrieval
- 2:30 Arrive in Boulder
- Please leave film at student table in parking lot
- 2:30 Rest
- 6:30 Pizza Banquet and presentation of results at the Discovery Learning Center
- 8:30 Conclusion and Workshop Closure – *Bill & Chris*