

RockOn 2013 – A Hands On Sounding Rocket Workshop Agenda

Wallops Flight Facility
June 15 – 20, 2013

Day 1, Saturday (June 15, 2013)

10:30A	(30)	Security and Registration (Continues until 11:00) at Refuge Inn Conference Room	
11:00	(20)	Welcome and Introductions	Refuge Inn
11:20	(30)	Overview of Goals and Review of Workshop Vision and Agenda	Refuge Inn
11:50	(10)	Logistics for Workshop (Directions, security, etc)	Refuge Inn
12:00	(10)	Travel to Wallops (use own vehicles)	
12:10	(20)	Cars through after-hours security	Wallops
12:30	(30)	Provided Lunch	Williamsburg Room
1:00	(30)	Team Forming and Team Activity	Williamsburg Room
1:30	(15)	Break and travel to Workshop room	
1:45	(15)	Workshop Facilities Overview	Building F3
2:00	(15)	Kit Distribution and Overview	Building F3
2:15	(15)	Geiger Counter Overview	Building F3
2:30	(60)	Geiger Counter Build [Total 2.5 hrs + Testing] – Part I	Building F3
3:30	(15)	Break	
3:45	(90)	Geiger Counter Build – Part II	Building F3
5:15	(15)	Geiger Counter Testing	Building F3
5:30	(30)	Geiger Counter Conformal Coating (outside and weather permitting)	Outside F3
6:00	(15)	Clean up and storage of equipment and hardware	Building F3
6:15		Dinner on your own	

RockOn 2013 – A Hands On Sounding Rocket Workshop Agenda

Wallops Flight Facility
June 15 – 20, 2013

Day 2, Sunday (June 16, 2013)

7:15 A	(15)	Arrive and get through security	
7:30	(30)	Hot Breakfast (Provided) and Mandatory Wallops Safety Briefing	Williamsburg Room
8:00	(10)	Overview of Day 2 Activities & Retrieval of Geiger Counters	Building F3
8:10	(15)	Arduino and SHIELD Overview	Building F3
8:25	(60)	SHIELD Assembly and Testing [Total 4.3 hours] – Part I	Building F3
9:25	(15)	Break	
9:40	(80)	SHIELD Assembly and Testing – Part II	Building F3
11:00	(15)	Break (Snacks Provided)	
11:15	(45)	SHIELD Assembly and Testing – Part III	Building F3
12:00	(30)	Lunch (Provided)	Williamsburg Room
12:30	(75)	SHIELD Assembly and Testing – Part III - Connect and test Geiger counter (If cure is complete)	Building F3
1:45	(15)	Break (Snacks Provided)	
2:00	(45)	Introduction to the Arduino - Introduction to Analog and Digital (20) - Introduction to C Programming (20) - Big Picture (5)	Building F3
2:45	(45)	Power On Systems Test (POST) – Lesson 0 Software slides	Building F3
3:30	(15)	Break (Snacks Provided)	
3:45	(120)	Arduino and SHIELD Programming and Testing [Total 7.0 hrs] – Part I - Lesson 1: Blink an LED (30) - Lesson 2: Flash Memory (30) - Lesson 3: Data Retrieval Utility (30) - Lesson 4: Analog to Digital Converter (30)	Building F3
5:45	(15)	Recap of Day 2, plan for Day 3, and Adjourn (Dinner on your own)	

<<Turn in your Space Junk today with completed form>>

RockOn 2013 – A Hands On Sounding Rocket Workshop Agenda

Wallops Flight Facility
June 15 – 20, 2013

Day 3, Monday (June 17, 2013)

7:15 A	(15)	Arrive and get through security	
7:30	(30)	Hot Breakfast (Provided) MANDATORY SAFETY BRIEFING DURING BREAKFAST	Williamsburg Room
8:00	(10)	Overview of Day 3 Activities	Building F3
8:10	(90)	Arduino and SHIELD Programming and Testing – Part II - Lesson 5: Data Parser (60) - Lesson 6: Geiger Counter (30)	Building F3
9:40	(20)	Break	
10:00	(90)	Arduino and SHIELD Programming and Testing – Part III - Lesson 7: Timers (40) - Lesson 8: Flight Code Programming (50)	Building F3
11:30	(30)	Lunch (Provided)	Williamsburg Room
12:00	(120)	Arduino and SHIELD Programming and Testing – Part IV - Lesson 9: Flight Code Testing (60) - Lesson 10: Flight Preparation Testing (40)	Building F3
2:00	(15)	Break (Snacks Provided)	
2:15	(20)	Overview of Mechanical Integration	Building F3
2:35	(60)	Plate > Mechanical Integration [Total 2.5 hrs] – Part I	Building F3
3:35	(20)	Break (Snacks Provided)	
3:55	(90)	Plate > Mechanical Integration – Part II	Building F3
5:25	(20)	Recap of Day 3 and plan for Day 4	Building F3
5:45		Adjourn (Dinner on your own)	

RockOn 2013 – A Hands On Sounding Rocket Workshop Agenda

Wallops Flight Facility
June 15 – 20, 2013

Day 4, Tuesday (June 18, 2013)

7:00	(30)	Hot Breakfast (Provided)	Williamsburg Room
7:30	(10)	Overview of Day 4 Activities	Building F3
7:40	(55)	Plate Integrated Full Systems Test and Final Check Out	Building F3
8:35	(05)	ARMED – Integrated Plate Assembly – Ready for Can Integration	Building F3
8:40	(20)	Break	
9:00	(15)	Mechanical Can Integration Overview	Building F3
9:15	(120)	Can > Mechanical Integration	Building F3
11:15	(15)	Final GO / NO-GO for Can handoff to Wallops	Building F3
11:30	(30)	Lunch (Provided) – Please Eat Quick	Williamsburg Room
12:00	(15)	Travel to Rocket Integration site	
12:15	(15)	Hand in Hardware for Integration with Rocket	Building F10
12:30	(120)	Can / Rocket Mechanical and Electrical Integration	Building F10
2:30	(30)	Pictures	Building F10
3:00	(60)	Skin Integration	Building F10
4:00	(120+)	Begin pressure test (Attendance not required)	Building F10
~6:00		Dinner on your own	

RockOn 2013 – A Hands On Sounding Rocket Workshop Agenda

Wallops Flight Facility
June 15 – 20, 2013

Day 5, Wednesday (June 19, 2013)

8:15	(15)	Arrive and get through security	
8:30	(30)	Hot Breakfast (Provided)	Williamsburg Room
9:00	(05)	Overview of Day 5 Activities	Building F3
9:05	(55)	Wallops Flight Facility Overview and Sounding Rocket Programs – with Phil Eberspaker, Chief, Sounding Rockets Program Office, WFF	Building F3
<hr/>			
10:00	(15)	Break	
<hr/>			
10:15	(20)	Future Flight Opportunities with Lia Matthews, Chris Koehler RockSat-C and X Program Manager + Introduction to RockSat Presentations	Building F3
10:35	(10)	Canister #1 – New Jersey Space Grant & Mitchell Community College	
10:45	(10)	Canister #2 – Temple University & Drexel University	
10:55	(10)	Canister #3 – West Virginia University	
11:05	(10)	Canister #4 – University of Puerto Rico	
11:15	(10)	Canister #5 – University of Minnesota	
11:25	(10)	Canister #6 – Frostburg University	
11:35	(10)	Canister #7 – Harding University & Northwest Nazarene University	
11:45	(15)	Launch Day Logistics Overview	Building F3
<hr/>			
12:00	(45)	Lunch (Provided)	Williamsburg Room
<hr/>			
1:00	(30)	Complete Sensor Calibration with previously recorded data sets	Building F3
1:30	(120)	Wallops Tour (Maybe longer)	Various
3:30		Adjourn or... Possible Launch Site Visit and Photo Op Possible Launch/Recovery Operations Overview	

RockOn 2013 – A Hands On Sounding Rocket Workshop Agenda

Wallops Flight Facility
June 15 – 20, 2013

Day 6, Thursday (June 20, 2013)

4:30	(30)	Travel to launch viewing site (own vehicles and map provided on Day 5)	
5:00	(60)	Wait for launch	
6:00	(60)	Launch! (could be delayed for any amount of time)	
7:00	(300)	Recovery Operations - May return to hotel Hot Breakfast Available	Williamsburg Room
<hr/>			
12:00	(30)	Lunch (Provided)	Williamsburg Room
<hr/>			
12:30	(60)	Can / Rocket De-integration	Building F10
1:30	(60)	Can De-integration	Building F3
<hr/>			
2:30	(15)	Break	
<hr/>			
2:45	(30)	Stack De-integration	Building F3
3:15	(30)	Plate Data/Failure Analysis	Building F3
3:45		Adjourn to Refuge Inn	
4:00	(45)	Souvenirs, Surveys, Awards, and Thanks Location is Building F3 or Refuge Inn	
5:00	(120)	Seafood Celebration Dinner at local restaurant (TBD)	Building F3
7:00	(30)	Pack up and clean up and head home	Building F3

If weather or issue delays this launch, Friday's schedule will be issued on Thursday morning.