

Grass Roots GK-12: Summer 2014

Week 1					
	Monday	Tuesday	Wednesday	Thursday	Friday
Time	7-Jul	8-Jul	9-Jul	10-Jul	11-Jul
	Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216
9:00am	Welcome by Paulette Clancy 9:00-9:30am Olin Hall 216	Lecture by Jason Boock "Lignocellulosic biomass degradation for biofuel application" 9:00-10:00am Olin Hall 216	Fellow Research Overview Erik Huber, Rohit Singh 9:00-10:00am Olin Hall 216	Faculty Lecture by Susan Daniel "Algae Biofuel for a Sustainable Future" 9:00-10:00am Olin Hall 216	Pedagogy Lecture by Jim Overhiser "Interactive Lecture Demonstrations (ILDs)" 9:00-10:00am Olin Hall 216
10:00am	Fellows Outreach Activity for Teachers 9:30-11:30am Olin Hall 216	Teacher & Fellow: Discussion on Teacher Presentations 10:00-12:00pm Olin Hall 216	Begin Research - Project intro - Lab-specific training	Module Development 10:00-12:00pm Olin Hall 216	Teacher Presentation Prep Time 10:00-12:00 Olin Hall 216
11:00am					
	Lab Tour: Bob 11:30-12:00pm				
12:00pm	Lunch: Fellows take teachers out for lunch 12:00-1:30pm Various locations	Lunch 12:00-1:00pm	Lunch 12:00-1:00pm	Lunch 12:00-1:00pm	Lunch 12:00-1:00pm
1:00pm					
	Travel Time (15min) ----	Lab Tours: Linxiao and Rohit 1:15-2:30pm Meet at Olin Hall 307	Research	Research	Research
2:00pm	Lab Tour: Corinne 1:45-2:15pm ---				
	Travel Time (15min)				
3:00pm	Faculty Lecture by Jeff Tester "Making sustainable energy choices when everything matters" 2:30-3:30pm Olin Hall 216	Safety Training by Ralph Stuart 2:30-4:00pm Olin Hall 216			
	Paperwork by Barbara Warner 3:30-4:30pm Olin Hall 216				
4:00pm					
	Head over to restaurant				

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Week 2					
	Monday	Tuesday	Wednesday	Thursday	Friday
Time	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul
	Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216
9:00am	India Teachers Presentations by Ms. Salunke and Ms. Vazhapilly 9:00-10:00am Olin Hall 216	Fellow Research Overview Linxiao Chen, Joe Wayman 9:00-10:00am Olin Hall 216	Teacher Presentations 9:00-10:00am Olin Hall 216	Faculty Lecture by Paulette Clancy "Natural Gas Hydrates: Clean Energy Source or Environmental Disaster?" 9:00-10:00am Olin Hall 216	Lecture by Michelle Kortenaar (Ithaca Sciencenter) "Informal Science Education" 9:00-10:00am Olin Hall 216
10:00am	Module Development 10:00-12:00pm Olin Hall 216	Research	Research	Module Development 10:00-12:00pm Olin Hall 216	Teacher Presentation Prep Time 10:00-12:00 Olin Hall 216
11:00am					
12:00pm					
	Lunch 12:00-1:00pm	Lunch 12:00-1:00pm	Lunch 12:00-1:00pm	Lunch 12:00-1:00pm	Lunch 12:00-1:00pm
1:00pm	Research	Research	Research	Research	Research
2:00pm					
3:00pm		Gather and walk to NW edge of Beebe Lake near Noyes Lodge			
		Tour - Hydro Electric Plant by Frank Perry 3:30-4:30pm			
4:00pm		*Note: Wear walking clothes + closed toe shoes			

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Week 3					
	Monday	Tuesday	Wednesday	Thursday	Friday
Time	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul
	Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216
9:00am	Fellow Research Overview Robert Bell, Tiffany Williams 9:00-10:00am Olin Hall 216	Faculty Lecture by Mike Thompson "The Physics of Photovoltaic Materials" 9:00-10:00am Olin Hall 216	Teacher Presentations 9:00-10:00am Olin Hall 216	Faculty Lecture by Tobias Hanrath "Community Based Solar Energy" 9:00-10:00am Olin Hall 216	Pedagogy Lecture by Jim Overhiser "Argumentative Learning" 9:00-10:00am Olin Hall 216
10:00am	Module Development 10:00-12:00pm Olin Hall 216	Research	Lab Tour: Cornell Nanofabrication Facility by Mike Skvarla 10:15-12:00pm Duffield Hall 250 *Note: Require long pants and closed toe shoes	Module Development 10:00-12:00pm Olin Hall 216	Lecture by Tim Bond "Solar cooking + sustainable electricity generation projects" 10:00-11:30am Thurston Hall Basement
11:00am					Lunch: Solar Oven Cooked Lunch 11:30-12:30pm
12:00pm					Lunch 12:00-1:00pm
1:00pm	Research	Research	Research	Research	Teacher Presentation Prep Time 1:00-2:00pm Olin Hall 216
2:00pm					Travel to solar farm site near Ithaca Airport
3:00pm					Tour - Solar Farm by Tobias Hanrath *Note: Require closed toe shoes & hard hats
4:00pm					Panel discussion on Interdisciplinary STEM research and education 3:30-4:30pm Location: TBD

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Week 4					
	Monday	Tuesday	Wednesday	Thursday	Friday
Time	28-Jul	29-Jul	30-Jul	31-Jul	1-Aug
	Breakfast 8:30-9:00am Olin Hall 216		Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216
9:00am	Fellow Research Overview Angela Stelson, Corinne Kingsley 9:00-10:00am Olin Hall 216	Breakfast 9:00-9:30am 374 Wilson Lab	Teacher Presentations 9:00-10:00am Olin Hall 216	Faculty Lecture by Chekeshia Liddell Watson "Atypical slab photonic crystals for light control" 9:00-10:00am Olin Hall 216	Pedagogy Lecture by Jim Overhiser "Teaching with Youtube" 9:00-10:00am Olin Hall 216
		Faculty Lecture by Ken Finkelstein "CHESS (Cornell High Energy Synchrotron Source): A Powerful X-Ray Source to Advance Science and Education" 9:30-10:30am 374 Wilson Lab			
10:00am	Module Development 10:00-12:00pm Olin Hall 216	Tour - CHESS by Ken Finkelstein 10:30-12:00pm *Note: Wear walking clothes and closed toe shoes	Research	Module Development 10:00-12:00pm Olin Hall 216	Teacher Presentation Prep Time 10:00-12:00 Olin Hall 216
11:00am					
12:00pm	Lunch 12:00-1:00pm	Lunch 12:00-1:00pm	Lunch 12:00-1:00pm	Lunch 12:00-1:00pm	Lunch 12:00-1:00pm
1:00pm	Research	Research	Research	Research	Research
2:00pm					
3:00pm					
4:00pm					

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Week 5							
	Monday	Tuesday	Wednesday	Thursday	Friday		
Time	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug		
	Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216	Breakfast 8:30-9:00am Olin Hall 216	Poster Session Preparation Rhodes Lounge (Olin 128)		
9:00am	Module Development 9:00-11:00am Olin Hall 216	Faculty Lecture by Abe Stroock "Drinking like trees" 9:00-10:00am Olin Hall 216	Teacher Presentations 9:00-10:00am Olin Hall 216	Activity Demonstration 9:00-11:00am Olin Hall 216			
10:00am							
11:00am		Research	Research	Research		Print Poster	
12:00pm	Lunch 12:00-1:00pm	Lunch 12:00-1:00pm	Lunch 12:00-1:00pm	Lunch 12:00-1:00pm	Poster Session 11:00 - 12:30pm Rhodes Lounge		
1:00pm	Research	Research	Research	Print Poster	Lunch 12:30-2:00pm Rhodes Lounge		
2:00pm				Research	Research	Research	Wrap-Up Session and Reception 2:00 - 4:30 pm Rhodes Lounge
3:00pm						Travel to Sciencenter	
4:00pm						SCIENCENTER SHOW by Angela Stelson	

Title	Name	E-mail	Department / School	Classes being taught
GK12 Fellow	Angela Stelson	acs348@cornell.edu	Materials Science & Engineering	
Fellow's Advisor	Cheksha Liddell Watson	cml66@cornell.edu	Materials Science & Engineering	
Sciencenter Contact Person	Michelle Kortenaar	mkortenaar@sciencenter.org	Ithaca Sciencenter	
GK12 Fellow	Corrine Kingsley	cek222@cornell.edu	Chemistry	
Fellow's Advisor	John Marohn	jam99@cornell.edu	Chemistry	
Paired Teacher	Eric Sharpsteen	esharpsteen@ocs.cnyric.org	Onondaga Jr/Sr High	8th Grade Physical Science (3), Applied Science and Physics (2), College Physics (1)
Paired Teacher	Ms. Vaishali Salunke	vaishali.salunke@somaiya.edu		
GK12 Fellow	Erik Huber	ejh87@cornell.edu	Chemical & Biomolecular Engineering	
Fellow's Advisor	Abraham Stroock	ads10@cornell.edu	Chemical & Biomolecular Engineering	
Paired Teacher	Michael Mangini	mmangin1@dryden.k12.ny.us	Dryden High School	College Physics, Environmental Science
GK12 Fellow	Joe Wayman	jaw362@cornell.edu	Chemical & Biomolecular Engineering	
Fellow's Advisor	Jeffrey Varner	jd27@cornell.edu	Chemical & Biomolecular Engineering	
Paired Teacher	Raymond Kashalk Jr	rkaschalk@bathcsd.org	Haverling HS/Bath	AB Physics B (1), Regents physics (1), STEM (1), physical universe (1)
GK12 Fellow	Linxiao Chen	lc538@cornell.edu	Chemical & Biomolecular Engineering	
Fellow's Advisor	Mathew DeLisa	md255@cornell.edu	Chemical & Biomolecular Engineering	
Paired Teacher	Sten Anderson	sanders1@dryden.k12.ny.us	Dryden Middle School	Life Science (3), Earth Science 6th grade (2)
GK12 Fellow	Robert Bell	rtb83@cornell.edu	Materials Science & Engineering	
Fellow's Advisor	Mike Thompson	mot1@cornell.edu	Materials Science & Engineering	
Paired Teacher	Cheryl Musselwhite-Scott	cmusselw@elmiracityschoos.com	Ernie Davie Middle School, Elmira	7th Grade Physical Science (5)
GK12 Fellow	Rohit Singh	rrs238@cornell.edu	Chemical & Biomolecular Engineering	
Fellow's Advisor	Susan Daniel	sd386@cornell.edu	Chemical & Biomolecular Engineering	
Paired Teacher	Janice St. Pierre	jstpierre@bathcsd.org	Bath Haverling HS	ACE/AP Chemistry (1), Regents Chem (2), STEM (1)
Paired Teacher	Ms. Beena Vazhapilly	beena.vazhapilly@somaiya.edu		
GK12 Fellow	Tiffany Williams	tw4@cornell.edu	Materials Science & Engineering	
Fellow's Advisor	Emmanuel Giannelis	epg2@cornell.edu	Materials Science & Engineering	

Administrators	Name	E-mail
GK12 Program Director	Paulette Clancy	pc@icse.cornell.edu
GK12 Program Coordinator	Julie Nucci	jn28@cornell.edu
GK12 Program Master Fellow	Donald Lee	dwl57@cornell.edu
GK12 Program Aide / Website	Stephen Tyler	stm59@cornell.edu

India-US GK12 Collaborators	Name	E-mail
U.S.A.-side coordintaor	Payal Ballaya	payal@somaiya.edu
India-side coordintator	Srividhya Nagarajan	srividhya@somaiya.edu
Sponsor	Samir Somaiya	samir@somaiya.edu