



STEM DIGITAL

STEM Digital Images in Geoscience Investigations:
Teaching Analysis with Light



2013 Institute Agenda *revised 6/22/13*

	Mon., June 24	Tues., June 25	Wed., June 26	Thur., June 27	Fri., June 28
	Geometry/Intensity	Color/Air quality	Time/Ozone	Arsenic	Water/Careers
8:30 AM	Coffee and Registration Third Floor ISB	Coffee	Coffee	Coffee	Coffee
9:00 AM	Welcome ADI in classrooms (Jennifer) Overview (Mort) Length and Area of a leaf (John)	Color basics – light; ADI color, image basics, pixels (Rob, John)	Academic Year plan (Holly) Video - Movie Tracker, falling objects (John)	Arsenic (Julian)	Water quality (David)
10:30	Break	Break	Break	Break	Break
10:45 AM	Lengths – diffusion (Jennifer) Intensity – albedo (Mort) Crayfish, Jennifer	Skin color (Jennifer, John)	Video, cont. Ozone (Steve, Debbie)	Arsenic	Water quality <i>Brainstorm water</i>
12:00 PM	Lunch /albedo photos	Lunch/photos	Lunch / ozone strips/photos	Lunch/photos	Lunch Evaluators Visit
1:00 PM	Intensity cont. Angles (Steve) <i>Brainstorm geometry, intensity</i>	CO ₂ Experiments (Steve, Debbie)	Ozone, cont.	Arsenic	Diffusion analysis (Jennifer) Crayfish analysis (Jennifer) Careers – presentation, (Mort)
3:00	Break/photos	Break	Break	Break	Careers, reporting
3:15 PM	Water quality (Dave)	<i>Brainstorm - color</i> Camera basics (Steve)	Infrared (John, Don Blair)	Arsenic Arsenic lab tour	
4:00 PM			<i>Brainstorm time</i>	<i>Brainstorm – more ideas</i>	
5:00 PM		Water lab tour BBQ at 6		7: Open source hardware. (Don)	