

**STUDENTS AND TEACHERS AS RESEARCH SCIENTISTS
 “EXPERIENCING THE SCIENTIFIC ENTERPRISE TO ENHANCE SCIENCE EDUCATION”**

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 Office of the Chancellor-UM-St. Louis, Saint Louis University, Washington University,
 Green Foundation, and Solae Company**

**in Partnership with
 Academy of Science of St. Louis, Donald Danforth Plant Science Center, Saint Louis University,
 Washington University, and the University of Missouri-St. Louis**

June 7 - July 16, 2010

SCHEDULE OF ACTIVITIES

Week 1 (June 7-June 11, 2010)

Time	Day				
	Monday 7	Tuesday 8	Wednesday 9	Thursday 10	Friday 11
8:00	8:00-9:55 Welcome Students Orientation Introductions and Mixer 120 Research Complex	Research Participants meet with mentors at respective campuses	8:30-8:55 Collaborative - Mr. Kardis, Ms. Freund & Mr. Brennan 120 Research	Research	Research
8:30					
9:00					
10:00					
10:15	10:15-11:30 Introduction to the Library Mr. Kardis, Ms. Freund, Mr. Brennan 315 T.J. Library		10:00-11:00 Science Inquiry Series: Natural Product Biochemistry Dr. Toni Kutchan Member and Investigator Danforth Plant Science Ctr. tmkutchan@danforthcenter.org 120 Research		
11:15			11:05-11:35 Planning Committees – A-V and Newsletters 120 Research		
11:45	11:45-1:15 <u>Lunch Provided</u> with Research Mentors Millennium – Century A&B	Lunch	11:45-12:30 <u>Lunch Provided</u> - Century C	Lunch	Lunch
12:30		Research	Research	Research	Research
1:15	Mentor Meeting ¹ Century A, B & C/Dr. Mares, Dr. Granger & Ms. Diley				
	1:15-2:30 Laboratory Safety and Compliance Training UMSL, Danforth & Solae Students – Room 315 Wash. U. Students – 316 SLU Students – SGA Chamber				
2:30	2:30-3:00 Intro. to Research Mr. Kardis – SGA Chambers				
3:00	ID Photos - C. Taylor 225 Millennium Center				
4:00	Adjournment				
5:00			Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor
5:15		5:30 Student Social Activity Bowling at Tropicana Lanes 7960 Clayton Road (314) 781-0282			
7:45		Adjournment			

¹Dotted Lines Indicate Concurrent Sessions – Revised 4/29/10

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Week 2 (June 14-June 18, 2010)

Time	Day								
	Sunday 13	Monday 14	Tuesday 15	Wednesday 16	Thursday 17	Friday 18			
8:30		8:30-8:55 Collaborative Mr. Kardis, Ms. Freund, & Mr. Brennan 120 Research	Research	8:30-8:55 Collaborative Mr. Kardis, Ms. Freund, & Mr. Brennan 120 Research	Research	Research			
9:00		9:00-9:50 Communication Mr. Kardis 120 Research		9:00-9:50 Communication (Science Competitions) Mr. Kardis 120 Research					
10:00		10:00-11:00 Science Inquiry Series: Issues in Transplantation Surgery Dr. Ramsey Hachem Dept. of Pulmonary & Critical Care Medicine Washington University rhachem@dom.wustl.edu 120 Research		10:00-11:00 Science Inquiry Series: Applying Parachute Inflation Theory to Fin Whale Lunge Feeding Dr. Jean Potvin Dept. of Physics Saint Louis University potvin@slu.edu 120 Research					
11:05		11:05-11:50 TBA 120 Research		11:05-11:50 Ethics in Science Dr. Andrew Black Dept. of Philosophy UM-St. Louis ablack@umsl.edu 120 Research					
12:00		12:00-12:30 <u>Lunch Provided</u> Millennium Center Room – Century C		Lunch			12:00-12:30 <u>Lunch Provided</u> Millennium Center Room – Century C	Lunch	Lunch
12:30		Research		Research			Research	Research	Research
3:00	3:00 St. Louis Symphony “Classical Comedy” Edwin Outwater, conductor Powell Hall 718 North Grand Avenue								
5:00	Adjournment	Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor			

SCIENCE AND TEACHERS AS RESEARCH SCIENTISTS
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SCHEDULE OF ACTIVITIES

Week 3 (June 21-June 25, 2010)

Time	Day					
	Sunday 20	Monday 21	Tuesday 22	Wednesday 23	Thursday 24	Friday 25
8:30		8:30-9:00 Collaborative Mr. Kardis, Ms. Freund, & Mr. Brennan 120 Research	Research	8:30-9:00 Collaborative Mr. Kardis, Ms. Freund, & Mr. Brennan 120 Research	Research	Research
9:00		9:00-9:50 Communication Mr. Kardis 120 Research		9:00-9:50 Communication Mr. Kardis 120 Research		
10:00		10:00-11:00 Science Inquiry Series Subversive Science: Sustainability & Architecture Dr. Bruce Lindsey Washington University lindsey@samfox.wustl. edu 120 Research		10:00-11:00 Science Inquiry Series: Laser-Induced Explosions of Nanoparticles (Nano- Bombs) for Selective Cancer Therapy Dr. Thomas George and Dr. Renat Letfullin 120 Research		
11:05		11:05-11:50 Washington University Undergraduate Program Presentation Dr. William Darby Washington University darby@wustl.edu 120 Research		11:05-11:50 UM-St. Louis Undergraduate Program Presentation 120 Research		
12:00		12:00-12:30 <u>Lunch Provided</u> Millennium Center Room – Century C		Lunch		
12:30		Research	Research	Research	Research	Research
3:00	3:00 St. Louis Symphony “Bach Brandenburg Concertos” David Halen, conductor Powell Hall 718 North Grand Avenue					
5:00	Adjournment	Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor		Adjournment Scheduled at the Discretion of the Research Mentor
5:15					5:15 Student Social Cinema Extravaganza & Ice Cream Social To Be Announced	
7:45					Adjournment	

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Week 4 (June 27-July 2, 2010)

Time	Day				
	Monday 28	Tuesday 29	Wednesday 30	Thursday 1	Friday 2
8:00	8:00-9:00 Collaborative Mr. Kardis, Ms. Freund, & Mr. Brennan 120 Research Student Presentations	Research	8:00-9:00 Collaborative Mr. Kardis, Ms. Freund, & Mr. Brennan 120 Research Student Presentations	Research	Research
9:00	9:00-9:50 Communication Mr. Kardis 120 Research		9:00-9:50 Communication Mr. Kardis 120 Research		
10:00	10:00-11:00 Science Inquiry Series: Neurons, Synaptic Vesicles, and Neurotransmitter Release Dr. Amy Harkins Dept. of Pharmacological and Physiological Science Saint Louis University harkinsa@slu.edu 120 Research		10:00-11:00 Science Inquiry Series: The Soloist – A Study of Paranoid Schizophrenia and Other Mental Health Issues Dr. Dan Haupt Adam Crane Hauptd@wustl.edu acrain@siso.org 120 Research		
11:05	11:05-11:50 Nutrition and Health Benefits of Soy Protein Dr. Elaine Krul Science Fellow The Solae Company ekrul@solae.com 120 Research		11:05-11:50 Ethics in Science Dr. Andrew Black Dept. of Philosophy UM-St. Louis ablack@umsl.edu 120 Research		
12:00	12:00-12:30 <u>Lunch Provided</u> Millennium Center Room – Century C	Lunch	12:00-12:30 <u>Lunch Provided</u> Millennium Center Room – Century C	Lunch	Lunch
12:30	Research	Research	Research	Research	Research
4:30	4:30	Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor
5:00	Leave for Union Station Dinner on your own				
6:30	6:30 Meet at Union Station Metrolink (Top of Stairs) to ride to the game				
7:15	7:15 Cardinals Baseball Game vs. Arizona Diamondbacks Busch Stadium				
10:30	Adjournment				

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Week 5 (July 5-July 9, 2010)

Time	Day				
	Monday 5	Tuesday 6	Wednesday 7	Thursday 8	Friday 9
8:00	Independence Day Holiday	Research	8:00-8:30 Collaborative Mr. Kardis, Ms. Freund, & Mr. Brennan 120 Research	Research	Research
8:30			8:30-9:00 Student Research Presentations 120 Research		
9:00			9:00-9:50 Communication Mr. Kardis 120 Research		
10:00			10:00-11:00 Antarctica Doug Wiens, Chair Dept. of Earth and Planetary Sciences doug@wustl.edu 120 Research		
11:05			11:05-11:50 Student Research Presentation 120 Research		
12:00		Lunch	12:00-12:30 <u>Lunch Provided</u> Millennium Center Room – Century C	Lunch	Lunch
12:30	Research	Research	Research	Research	
5:00	Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor	

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Week 6 (July 12-16, 2010)

Time	Day					
	Monday 12	Tuesday 13	Wednesday 14	Thursday 15	Friday 16	
7:50					7:50-11:35 Research Paper Presentations 120 & 121 Research 101 Benton Hall	
8:00		Research ----- 8:00-3:30 Oral Presentation Practice – Mr. Kardis (for selected participants) 116 Benton Hall	8:00-8:40 Confirmation Ceremony Rehearsal 104 Stadler	8:00-1:00 Oral Presentation Practice - Mr. Kardis (for selected participants) 116 Benton Hall -----		
8:30	8:30-8:55 Collaborative Mr. Kardis, Ms. Freund, & Mr. Brennan 120 Research			Individual Conferences (as needed) Ms. Freund & Mr. Brennan 239 Research		
8:45			8:45-9:15 Group and School Pictures			
9:00	9:00-9:50 Communication Mr. Kardis 120 Research					
9:15			9:15-10:00 Collaborative Mr. Kardis, Ms. Freund, & Mr. Brennan 120 Research			
10:00	10:00-11:00 Science Inquiry Series: Pediatric Cardiology Dr. Angela Sharkey Dept. of Cardiology St. Louis Children’s Hospital sharkey@wustl.edu 120 Research		10:00-12:00 Research ----- 10:00-3:30 Oral Presentation Practice – Mr. Kardis (for selected participants) 116 Benton Hall			
11:05	11:05-11:50 Student Research Presentations 120 Research					
11:40						11:40-12:30 <u>Lunch Provided</u> Millennium Center Room – Century C
12:00	12:00-12:30 <u>Lunch Provided</u> Millennium Center Room – Century C	Lunch	Lunch	Lunch		
12:30	Research	Research	Research	Research		
12:40						
1:00					1:00-3:00 Turn in Papers to Mr. Kardis (all participants) 239B Research	12:40-2:40 Research Paper Presentations 120 & 121 Research 101 Benton Hall
3:00						
5:00	Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor	Adjournment Scheduled at the Discretion of the Research Mentor	3:00 Confirmation Ceremony and Reception J.C. Penney Auditorium	

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