

	SUN	MON	TUES	WED	THURS	FRI	SAT
WEEK 1				May 19	May 20	May 21	May 22
8:30 am					Student arrival at BNL - ALL DAY (Check into Housing & Begin GUV Center processing if	NASA Summer School Welcome & Opening Remarks	
9:00 am						9:00 – 11:30 am RAD WKR II Classroom Training & Exam (Med Sm. Conf)	
10:00 am							
11:00 am					possible)		
11:30 am						11:30 – 12:30 LUNCH	
12:30 pm					For students arriving before 3:30 pm Training Audit, BNL Photo ID, Computer	12:30 – 1:20 pm Training Audit, BNL Photo ID, Computer Accts, Credit Union (GUV Center)	FREE TIME
1:30 pm				ធ		1:30 – 3:30 pm Radiobiology Users Training & Exam (BLDG 911 – Snyder	
3:00 pm	A C C	Ar	Accts, Credit Union (GUV Center)	Seminar Room)			
3:30 pm				G. Nelson, K. Rogers Arrival at BNL		3:30 – 5:00 pm Issue Film Badge/TLDs & Iris Scan Registration, Access Card Keys – (BLDG 911)	
5:00 pm				e s	Free Time	5:30 pm Student Welcome / BBQ – Brookhaven Ctr Patio (Nelson and Rogers) <i>Catered</i>	



	SUN	MON	TUES	WED	THURS	FRI	SAT
Week 2	May 23	May 24	May 25	May 26	May 27	May 28	May 29
8:30 am		Medical Dept. BM/PG/KR/BW Welcome & Program Goals	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	MEET AT MEDICAL DEPT before 8:30 a.m.	Medical Dept. Daily Briefing	
9:00 am		NASA's Mission & Roadmap (Cucinotta)	NSRL Biophysics Simulation GERM Code (Cucinotta)	Quantum Physics (Norbury)	BNL Tour & Group Photo at NSRL	Accelerators (Lowenstein)	
10:00 am		Calculus (Norbury)	Radiobiology I (Hall)	Review (Heilbronn)	w∕ Elaine Lowenstein	NSRL Dosimetry (Rusek)	
10:50 am	FRE	Break	Break	Break	201101101011	Break	FREE TIME
11:00 am	ETIME	Relativity (Norbury)	Radiobiology-2 (Hall)	Dosimetry (Heilbronn)	Neutron Physics (Heilbronn)	Oxidative Stress (Limoli)	
12:00 pm	-	Lunch	Lunch	Lunch	Lunch	Lunch	
1:00 pm		Particle Interactions (Heilbronn)	Radiation Chemistry, Clustered Damage (Held)	DNA Repair & Chromosome Rearrangements (Morgan)	Non-Targeted Effects (Morgan)	Space Radiation Protection (Schimmerling)	
2:30 pm		Break	Break	Break	Break	Break	
2:50 pm		Energy Deposition (Heilbronn)	LET and RBE (Held)	Mutagenesis (Kronenberg)	Cell cycle effects (Sowa)	Radiation Effects on Neurons & Stem Cell (Limoli)	
4:00 pm	7:00 pm Evening Activity with G. Nelson	Tool Kit Homework Low LET Lab (Nelson)	Track Structure (Goodhead)	Apoptosis (Kronenberg)	High & low LET microbeams, Imaging (Sowa)	Experimental Plan for Monday (Rusek/Guida)	
5:00 pm		Faculty Panel	Faculty Panel	Faculty Panel	Faculty Panel	Faculty Panel	
5:30 pm		6:00 – 7:30 pm Faculty Reception – Lg Conf Room <i>Catered</i>	End	End	End	End	



	SUN	MON	TUES	WED	THURS	FRI	SAT						
WEEK 3	May 30	May 31	June 1	June 2	June 3	June 4	June 5						
8:30 am		Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	LAB DAY - NSRL (Baulch & Guida)	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing							
9:00 am			LAB Day - NSRL (Rusek)	Epigenetics (Baulch)	Beam Time	Accelerator Physics (Zeitlin)	Space Radiation Env. – Parts I & II						
10:00 am		Beam Time 10:00 – 3:00	& Biology Experiment Overview for 6/2	9:00 – 2:00	Accelerator Physics (Zeitlin)	(Patrick O'Neill)							
10:50 am		Break	Break	Break	Break	Break							
11:00 am		LAB	Biology Review (Baulch)	LAB	Model Systems (Williams)	Heart And Other Degenerative Risks (O'Banion)							
12:00 pm		Lunch	Lunch	Lunch	Lunch	Lunch	FREE TIME						
1:00 pm	FRE	LAB	Beamtime Proposal and Mentor Assignments	LAB	Late Effects, Leukemia, Cancer (Williams)	1:00 – 2:00 CNS Effects (O'Banion)							
		П		Dua ale	· · ·	2:00 – 2:20 Break							
2:30 pm	TIME		Break	Break	Break		Ţ						
2:50 pm	Ē	≤ 3:00 - 3:00 Break – go to medical	Cell Signaling / Imaging Methods (MHBH)	LAB	Mouse Models For Radiation Research (Shay)	2:20 – 5:00 pm LAB - Guida / Flow Cytometry	ΝĒ						
		3:30 – 4:30 pm											
4:00 pm	-					1	om	Particle Physics (Norbury)	Systems Biology Approaches To Radiation Effects	LAB	Biological Countermeasures For Radiation Protection	& A. Kim / DNA Damage, etc.	
		4:30 – 5:30 pm	(MHBH)		(Shay)								
5:00 pm	-	Nuclear Physics (Norbury)	Faculty Panel	Faculty Panel	Faculty Panel	Faculty Panel ??							
5:30 pm			End	End	End	End							
6:00 pm		Evening Activity – Student Group Dinner											



	SUN	MON	TUES	WED	THURS	FRI	SAT
WEEK 4	June 6	June 7	June 8	June 9	June 10	June 11	June 12
8:30 am	-	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	
9:00 am		NSRL Sim (GERMcode) Tool Kit Practical (Nelson)	Microgravity Effects (Nelson)	Hematopietic & Immune Responses (Nelson)	Chemical Kinetics In Systems Biology (Cucinotta)	Support Team Physics Ppt Presentation	
10:00 am		Beam Time Proposals (Nelson)	Beam Time Proposals (Nelson & Baulch)	Biomarker And Biodosimetry (Amundson)	Rad Quality And Risk Models (Cucinotta)	Student Team Cell Ppt Presentation	
10:50 am		Break	Break	Break	Break	Break	DEPA
11:00 am	퓌	Space Flight Measurements (Nelson)	Animal Studies (Weil)	Omics Technologies (Amundson)	History Of Radiation Protection (Meinhold)	Student Team Animal Ppt Presentations	
12:00 pm	FREE	Lunch	Lunch	Lunch	Lunch	Lunch	
1:00 pm	TIME	Beam Time Proposals (Nelson)	Genetics Of Animal Studies (Weil)	Review Time (Nelson & Cucinotta & Baulch)	Adult Neurogenesis And Psychiatric Disorders (Eisch)	Review Of Beam Time Proposals	DEPARTURE
2:30 pm		Break	Break	Break	Break	Break	
2:50 pm		Effects on embryo, fetus, transgenerational (Joiner)	Acute Effects (Kennedy)	LAB TIME	Prepare Final Presentations & Submit Beam Time Proposals	Review Of Beam Time Proposals	
4:00 pm		Dose Rate Effects (Joiner)	Radioprotectors (Kennedy)	Work On Presentations	Faculty Panel	Closing Ceremony Med Lg Conf Room	
5:00 pm		Faculty Panel	Faculty Panel	7 – 9 PM		Catered	
5:30 pm		End	Evening Activity – Student / Faculty Cookout	Dinner Banquet Catered	End	End	