

PRE-WEEK		SUN	MON	TUES	Wednesday	Thursday	Friday	SAT	
Time/Date	MAY	24	25	26	27	28	29	30 MAY	
8:30 am			Memorial Day Holiday		Student arrival at BNL all day	NASA Summer School Opening – Medical Bldg. Small Conf Rm	Radiobiology Users Training & Exam – Snyder Seminar Rm, Bldg. 911 (John Maraviglia x7343), (8:30-10:30am)	FREE or Backup Day for Training	
8:45 am				Welcome & Opening Remarks – Medical Bldg. Small Conf Rm – Derek Lowenstein					
9:15 am						Security / Housing	BNL Photo ID, Training Audit, Computer Acct. Forms, TFCU Check Cashing - GUV CENTER, Research Support Bldg. 400	Issue Film Badge/TLD's & Iris Scan Registration, Access Card Keys (Ann Marie Luhrs x7007, 1 st Floor Bldg. 911)	
10:30 am									
12:00 pm				LUNCH					
1:00 pm							Orientation & Lab Tour - Elaine Lowenstein (1:00-2:15pm) x2400	Medical Department Orientation – Bernadette Whelan (1:00-2:00pm)	
2:00 pm							BLAF - Animal Facility Tour – MaryAnn Petry (2:00-3:00pm)		
2:30 pm							RAD WORKER Part II Classroom training & Exam Medical Dept. Small Conf. Room (2:30-4:30 pm) Jim Nemeth (x4766)		
4:30 pm							Informal Reception BROOKHAVEN CENTER Patio Area		

WEEK 1	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Time/Date	31 May	1	2	3	4	5	6
8:30 am	FREE	Medical Dept. BM/PG Welcome & Program Goals	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	FREE
9:00 am		NASA's Mission and Roadmap F. Sulzman	Relativity – 2 J. Norbury	Energy Deposition T. Borak & L. Heilbronn	Neutron Physics L. Heilbronn	<ul style="list-style-type: none"> • P. Guida - 6/9 Flow Cytometry Experiment Plan • J. Baulch & W. Goetz – Survival Curve Experiment Plan • Adam Rusek 	
10:00 am		Calculus J. Norbury	Particle Interaction and Track Structure T. Borak	Dose Fluences and Dose Rate T. Borak & L. Heilbronn	Neutron Physics L. Heilbronn		
10:50 am		BREAK	BREAK	BREAK	BREAK	BREAK	
11:00 am		Relativity – 1 J. Norbury	Basic Particle physics T. Borak	Chalk board practices T. Borak & L. Heilbronn	Tour of AGS with Kevin Brown, Bldg. 911-B	LAB • Adam Rusek	
12:00 pm		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	
1:00 pm		Radiobiology – 1 E. Hall	Radiation Chemistry, Clustered Damage K. Held	DNA repair C. Anderson	Physics Homework L. Heilbronn	LAB	
2:30 pm		BREAK	BREAK	BREAK	BREAK	BREAK	
2:50 pm		Radiobiology – 2 E. Hall	LET and RBE K. Held	Systems Biology of Risk L. Hlatky	Chromosome Rearrangements B. Morgan	LAB	
4:00 pm	Informal Student Gathering – Greg Nelson Apt.	ToolKit Homework Low LET Lab G. Nelson	Stochastic patterns of DSBs and Foci Formation A. Ponomarev	Tufts NSCOR Overview L. Hlatky	Experimental Plan for Tomorrow A. Rusek	Microscope Lab - Chromosome Aberrations B. Morgan	
5:00 pm		Faculty Panel	Faculty Panel	Faculty Panel	END	END	
5:30 pm		Welcome Reception BERKNER LOBBY	END	END			

WEEK 2	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Time/Date	7	8	9	10	11	12	13
8:30 am	FREE	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	FREE
9:00 am		Quantum Physics - 1 J. Norbury	LAB time @NSRL	Particle Physics - 1 J. Norbury	Accelerator-Based Space Physics J. Norbury	Space Radiation Environment Patrick O'Neill	
10:00 am		Quantum Physics - 2 J. Norbury		Particle Physics - 2 J. Norbury			
10:50 am		BREAK	BREAK	BREAK	BREAK	BREAK	
11:00 am		Accelerators D. Lowenstein	Nuclear Physics – 1 J. Norbury	Physics Review J. Norbury	Late Effects, Leukemia, Cancer J. Williams	Physics Review Patrick O'Neill	
12:00 pm		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	
1:00 pm		1:00 – 2:00 pm CNS Effects – 1 K. O'Banion	Nuclear Physics – 2 J. Norbury	Acute Effects A. Kennedy	Model Systems J. Williams	LAB Data Analysis - P. Guida & gamma H2AX – A. Kim	
		2 – 2:20 pm BREAK		2:10 – 2:50 BREAK & FACS – P. Guida & Metaphases – B. Morgan	2:10 – 2:50 BREAK FACS – P. Guida & gamma H2AX – A. Kim		2:30 – 2:50 BREAK
2:50 pm		2:20 - 3:50 pm Oxidative Stress C. Limoli	Radiation Induced Cell Signaling M.H. Barcellos-Hoff	Radioprotectors A. Kennedy	Space Radiation Protection J. Shay	LAB	
4:00 pm		3:50 – 5:00 pm Radiation Effects on Neurons and Stem Cells C. Limoli	Lawrence Berkeley NSCOR Overview M.H. Barcellos-Hoff	Non-Targeted Effects B. Morgan	UTSW NSCOR Overview J. Shay	END	
5:00 pm		Faculty Panel	Faculty Panel	Faculty Panel	Faculty Panel	BBQ Dinner (Apt. Picnic Area)	
5:30 pm		M. Durante – Dinner Lecture	END	END	END		

WEEK 3	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Time/Date	14	15	16	17	18	19	20
8:30 am	FREE	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	Medical Dept. Daily Briefing	Travel Home
9:00 am		Physics ToolKit Practical G. Nelson	Microgravity Effects G. Nelson	Hematopoietic & Immune Responses G. Nelson	Radiation Quality and Models F. Cucinotta	Animal Studies M. Weil	
10:00 am		CR-39 / TLD detectors E. Benton	Beam Time Proposals E. Benton & G. Nelson	Microbeams and Bystander Effects M. Sowa	Radiation Risk Models F. Cucinotta	Colorado State Univ. NSCOR Overview M. Weil	
10:50 am		BREAK	BREAK	BREAK	BREAK	BREAK	
11:00 am		Space Flight Measurements G. Nelson	Transgenerational Effects J. Baulch	Review Time G. Nelson & B. Morgan	Prepare Final Powerpoint Presentations	Review of Beam Time Proposals	
12:00 pm		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	
1:00 pm		Beam Time Proposals E. Benton & G. Nelson	Epigenetics J. Baulch	Review Time G. Nelson & B. Morgan	Prepare Final Powerpoint Presentations & Submit Beam Time Proposals 1:40 – 2:00 pm BREAK	Review of Beam Time Proposals	
2:30 pm		BREAK	BREAK	BREAK	2 - 3PM Student Team Animal PPT Presentations	BREAK	
2:50 pm		Radiosensitivity and the Cell Cycle M. Joiner	Mutagenesis A. Kronenberg	LAB TIME	3 - 4PM Student Team Physics PPT Presentations	Review of Beam Time Proposals	
4:00 pm		Dose Rate Effects M. Joiner	Apoptosis A. Kronenberg	Work on presentations	4 - 5PM Student Team Cell PPT Presentations	Closing Ceremony MED LRG CONF RM	
5:00 pm		Faculty Panel	Faculty Panel		Faculty Panel		
5:30 pm		END	END	END	6:45 Banquet – Sea Basin Jonathan Clark “Medicine in the Space Environment”		