

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  Security / Housing	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								
10:30 am						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 <sup>st</sup> Floor Bldg. 911)	
12:00 pm						LUNCH	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 - Medical Dept. Small Conf. Room (2:30-4:30 pm) Jim Nemeth (x4766)		
4:30 pm							Informal Reception <b>BROOKHAVEN CENTER</b> <b>Patio Area</b>	

<b>WEEK 1</b>	<b>Sunday</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>	<b>Saturday</b>
<b>Time/Date</b>	<b>31 May</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>8:30 am</b>	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
<b>9:00 am</b>		NASA's Mission and Roadmap F. Sulzman	Relativity – 2 J. Norbury	Energy Deposition T. Borak & L. Heilbronn	Neutron Physics L. Heilbronn	LAB DAY • P. Guida - Discuss 6/9 Experiment Plan • J. Baulch & W. Goetz – Survival Curve Experiment Plan • Adam Rusek	
<b>10:00 am</b>		Calculus J. Norbury	Particle Interaction and Track Structure T. Borak	Dose Fluences and Dose Rate T. Borak & L. Heilbronn	Neutron Physics L. Heilbronn		
<b>10:50 am</b>		BREAK	BREAK	BREAK	BREAK	BREAK	
<b>11:00 am</b>		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	
<b>12:00 pm</b>		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	
<b>1:00 pm</b>		Radiobiology – 1 E. Hall	Radiation Cemistry, Clustered Damage K. Held	DNA repair C. Anderson (tentatively confirmed with admin)	Physics Homework L. Heilbronn	LAB	
<b>2:30 pm</b>		BREAK	BREAK	BREAK	BREAK	BREAK	
<b>2:50 pm</b>		Radiobiology – 2 E. Hall	LET and RBE K. Held	Systems Biology of Risk L. Hlatky	Chromosome Rearrangements B. Morgan	LAB	
<b>4:00 pm</b>	Informal Student Gathering – Greg Nelson Apt.	ToolKit Homework Low LET Lab G. Nelson	Energy Deposition and Foci Formation A. Ponomarev	Tufts NSCOR Overview L. Hlatky	Experimental Plan for Tomorrow A. Rusek	Microscope Lab - Chromosome Aberrations B. Morgan	
<b>5:00 pm</b>		Faculty Panel	Faculty Panel	Faculty Panel	END	END	
<b>5:30 pm</b>		Welcome Reception BERKNER LOBBY	END	END	RECEPTION		

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	Particle Physics - 1 J. Norbury	Accelerator-Based Space Physics C. Zeitlin	Space Radiation Environment Patrick O'Neill	
10:00 am		Quantum Physics - 2 J. Norbury	LAB	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	Model Systems 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	Late Effects, Leukemia, Cancer 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
		2:20 - 3:50 pm Oxidative Stress C. Limoli	2:30 – 2:50 BREAK	Radioprotectors A. Kennedy	Space Radiation Protection J. Shay	LAB	
2:50 pm			Radiation Induced Cell Signaling M.H. Barcellos-Hoff				
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 – date may change	END	END	END		

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