

NSRSS Presentations Report 2016

Date	Lecturer	Title
Friday, June 03, 2016	Norbury	Elementary Radiation Physics
	Nelson	Elementary Radiation Biology
Monday, June 06, 2016	Norbury, Guida	Welcome and Program Goals
	Simonsen	NASA's Mission and Roadmap
	Borak	Radiation Interactions with Matter
	Borak	What is Radiation
	Norbury	Intro to Space Radiation
	Borak	Intro to Radiation Dosimetry
	Borak	Principles of Radiation Protection
Tuesday, June 07, 2016	Nelson	Physics Tool Kit
	Borak/Heilbronn	Radiation detection methods
	Lowenstein	Accelerators
	Hall	Radiobiology 1
	Hall	Radiobiology 2
	Borak/Heilbronn	Physics Chalk Talk/problems
Wednesday, June 08, 2016	Heilbronn	Heavy Ions and Shielding Physics, including Neutrons
	Heilbronn	Physics Homework/ problems
	Held	Radiation Chemistry & DNA Damage
	Held	Dose responses, LET & RBE
	Kronenberg	Programmed Cell Death
Thursday, June 09, 2016	Wallace	DNA Repair

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Date	Lecturer	Title
Thursday, June 09, 2016	Bailey	Radiation Cytogenetics
	Kronenberg	Mutagenesis
	Story	Omics Technologies
	Rusek/Guida	Experimental Plan for Tomorrow
Friday, June 10, 2016	Rusek	1/2 day Beam Time & 1/2 day at 490
	La Tessa	Measuring Ion Interactions with Matter
Monday, June 13, 2016	Kronenberg/Guida	Bio Experiment Overview and Review
	Sivertz	Low-LET Reference Radiation
	Weil	Animal Studies
	Weil	Genetics of Animal Studies
Tuesday, June 14, 2016	Weil	Leukemia
	Guida	Beam Time and Lab all day
	Joiner	Radiosensitivity and Cell Cycle
Wednesday, June 15, 2016	Joiner	Effects on Embryo, Fetus, Transgenerational
	Joiner	Dose Rate Effects
	Semones	Operations, Risk, Monitoring Crew Exposure, ISS Dosimetry
	Fike	Neurogenesis
Thursday, June 16, 2016	Fike	Radiation Effects on Neurons & Stem Cells
	Carlson/Rusek	Van de Graaff & EBIS Visit
	Guida/Kim	Flow Cytometry & DNA Damage
	Guida	H2AX Protocol
	Guida	H2AX Presentation

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Date	Lecturer	Title
Friday, June 17, 2016	Kronenberg	Radiation Induced Instability
	Slaba	Space Radiation Transport & GCR simulation
	Slaba	HZETRN, OLTARIS & Monte Carlo codes
	D. Goodhead	Track Structure 1
	D. Goodhead	Track Structure 2
	Kim	GERM Code
	Plante	Ritracks
Monday, June 20, 2016	Nelson	Tool Kit Practical
	Azzam	Non-targeted Effects
	Nelson	Beam Time Proposals
	Castle	Transgenic Models and New Imaging approaches
	Castle	Cancer Stem Cells
	Nelson	Beam Time Proposals
Tuesday, June 21, 2016	Zeitlin	Space Radiation Environment
	Zeitlin	Accelerator Physics and Space Radiation
	Nelson	Haematopoietic & Immune Response
	Randers-Pehrson	Microbeams
	Nelson	Microgravity Effects
	Nelson	Space Flight Measurements
	Wednesday, June 22, 2016	Shay
Shay		Biol Countermeasures For Radiation Protection
Baulch		Epigenetics

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Date	Lecturer	Title
Wednesday, June 22, 2016	Williams	Acute Effects
	Nelson	Review Time
Thursday, June 23, 2016	Boothman	Radiation-Induced DNA Damage & Repair Triggers Cell Sign
	O'Banion	CNS Effects
	O'Banion	Cardiovascular Effects
	Norbury/Nelson	Review Beam Time Proposals
	Blakely	Cataracts
Friday, June 24, 2016	Blakely	Heavy Particle Therapy
	Norbury/Nelson	Review Beam Time Proposals
	Norbury/Nelson	Student Team Presentations