Nuclear Science and Technology Workshop and Optional Three Credit Graduate Course - 2004 Final Agenda

Penn State Nuclear Science and Technology
A Curriculum and Issues and Workshop for Physics and Chemistry Teachers, July 12-16, 2003
Check-in Pollock Commons desk, Sunday 4:00 p.m. - 7:00 p.m., July 11, 2003
Dorm Check-Out: Friday, July 16, 2003
Dinner in Pollock Commons M-T-W-R: 5:30p.m.
Workshop will provide for 40 hours of Act 48 Credits for Pennsylvaania teachers

203 Leonhard Building and Breazeale Nuclear Reactor
Special Program for Hanover Area HS Students
Daily Continental Breakfast: 7:00 a.m.- 7:45 a.m., Nittany Hall
Daily Boxed Lunches
Optional Three Graduate Credit Course: SCIED 497A
Graduate Paper/Project Due on 29 July 2004 by 5p.m.

A Penn State Mechanical and Nuclear Engineering Program

Project Director-Instr.
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College of Education
Dr. Michael Cullin

College of Engineering
Dr. Jack S. Brenizer, Jr.
Chair, Nuclear Eng. Program

Workshop Staff
Candace C. Davison
Senior Reactor Operator
Guy Anderson
SciEd Program Staff

Housing Check-In - Sunday
Pollock Commons desk
Lodging:Nittany Hall w/AC
Continental Breakfast
Box Lunches
Monday through Thursday
Dinner in Pollock Commons

RSEC (Radiation Science Engineering Center)
All evening class are in 203 Leonhard Building and Conference Room 3rdFl
Van transportation available To-From Classes Daily including evening classes

DAYS / TIMES	Monday, July 12	Tuesday, July 13	Wednesday, July 14	Thursday, July 15	Friday, July 16
	Continental Breakfast	***Continental Breakfast***	***Continental Breakfast***	***Continental Breakfast***	***Continental Breakfast***
8:00 a.m.	Registration, Welcome & Pretest	*NUKE log collection*	*NUKE log collection*	*NUKE log collection*	*Check out of Dorm Room*
	"NUKE" Logs	PSU Nuclear History and	PPL Energy Education &	Risk Assessment & Analysis	*NUKE log collection*
	ANDERSON/ VINCENTI	History of Radiation	NEST program goals	Waste Management Issues	Post-test
	Pre-test	**VINCENTI**	**SPARTA**	**DORNSIFE**	PSU College of Engineering
	Nuclear Science and Curriculum				Future of Nuclear Engineering
	CULLLIN	Radioisotopes/Applications		Nuclear Safety Issues	**BRENIZER**
		Radiochemistry	Nuclear Reactor Physics	TMI II and Chernobyl	Curriculum Implications &
	Basics of Radiation	**GRANLUND**	Computer Simulation	Homeland Security	Educational Standards
	Radiation and Radioactivity		**DAVISON**	Post 9-11	**CULLLIN**
	DAVISON			DOD - DOE Restoration	
	HP Orientation for Reactor			**VINCENTI**	Course Debriefing
		Medical Applications-			Certificates of Completion
	Radiation in Our World	Hershey Medical Center			**VINCENTI**
	& Rad. Materials-	**ERDMAN**		Fusion Technology	***Workshop Conclusion***
	BARNHART			**KLEVANS**	Departure 1:00 pm
					Safe Travel
12:00 p.m.	**Lunch Room 203**	**Lunch Room 203**	**Lunch Reactor**	**Lunch Room 203**	**Lunch Room 203**
1:00 p.m.	**RSEC - Breazeale Reactor**	**RSEC** study & activities		Nuclear Energy - Exelon	Speakers
	Health Physics Orientation	Alpha-Beta-Gamma		Generating Electricity	**James Barnhart**, Rad. H.P.
	ANDERSON/DAVISON	Gamma Spectrometry	**RSEC** Projects	Safety & Regulation	PA DEP Bur. Rad Protection
			Reactor Startup	Employment–Today/Future	**Larry Hochreiter, PhD**
	Tour reactor facility and	Shielding		Careers in Nuclear Power	Nuclear Eng. Professor
	introduction to:	Cloud Chambers		**HAMILTON** and **TUSAR**	**William P. Dornsife, RSO**
	Neutron Radiography	ANS/DOE Geiger Counters	Hands-on activities		Waste Control Specialists
	Project Design	**ANDERSON/DAVISON**	Completion of Projects		**Michael Erdman, CHP**
	Radiography		**ANDERSON/DAVISON**		*Hershey Med Center*
					Rodger Granlund, CHP
				3:30 pm **HOCHREITER**	Retired Health Physics Mngr.
				PSU Nuclear Engineering	**Edward H. Klevans, PhD**
				New Dual Degree MNE	Professor Emeritus Nuc. Eng.
					David B. Hamilton
					James J. Tusar, P.E.
					Exelon Nuclear Corporation
	Transport to Dorm	**Transport to Dorm**	**Transport to Dorm**	**Transport to Dorm**	**Larry Sparta**, Energy
5:30 - 7:00 p.m.	**Dinner**	**Dinner**	**Dinner**	**Dinner**	Education Manager, PPL
7:00 - 9:00 p.m.	Participant Presentations	Participant Presentations	Graduate Writing	Grant Projects	
	VINCENTI	**VINCENTI**	**VINCENTI**	**VINCENTI**	