

**HIGH ENERGY ASTRONOMY GROUP**  
**X-Ray and Gamma Ray Astronomy**  
**PhD Students: Laurence E. Peterson Chair**

March 2019

NAME	PhD YEAR	CO-CHAIR	THESIS SUBJECT	PRESENT INSTUTION	POSITION	COMMENTS
Allan S Jacobson	1968		A Search for Gamma-Rays Line Emissions from the Crab Nebula	Jet Propulsion Laboratory Deceased 1997		Founded High Energy Astronomy Group at JPL
Daniel A Schwartz	1969		The Spatial Distribution of the DiffusenComponent of Cosmic-X-Rays	Smithsonian Astrophsical Observatory	Sr Research Scientist	Head, AXAF Data Center
David L McKenzie	1971		A Study of Correlation of hard Solar x-Ray and Radio Emission	Aerospace Corporation	Senior Scientist	Recognized Solar Physisist
James L Matteson	1971		An X-ray Survey of the Cygnus Region in the 20 to 300 keV Energy range	UCSD/CASS	Research Scientist	Leader & PI, High Energy Astronomy Projects
Micheal R Pelling	1971		A Studfy of Simultaneous Optical and X-ray Observations of Scorpius X-1	UCSD/CASS	Research Scientist	High Energy Astronomy Balloon Program
John G Laros	1973		A Study of Hard X-ray Emissions from Supernova Remnants	LANL Retired		Former Senior Scientist, LANL. Astrophysics Group
Duane E Gruber	1974		Observation of Pulsed and Non-Pulsed Gamma Radiation from the Crab Nebula near 1 MeV	UCSD/CASS Retired 2000?	Research Scientist	High Energy Astronomy Data Analysis
James C Ling	1974		Spectra and Angular Distributions of Low Energy Atmospheric Gamma Rays at Gamma = 40 Degree	Jet Propulsion Laboratory	Sr Research Scientist	High Energy Astrophysics Group
William A Wheaton	1976		Observation of Galactic Hard X-Ray Background from the OSO-7 Satellite	Jet Propulsion Laboratory	Sr Research Scientist	High Energy Astrophysics Group; Later at CIT/JPL Infrared Processing and Analysis Center (IPAC)
Richard F Mushotzky	1976		Observations of Hard X-rays from Extragalactic Objects	Goddard Space Flight Center Retired June 2012	Sr Research Scientist	World Recognized X-ray Astronomer; Many NASA Awards
Wiliam S Paciesas	1978		Hard X-ray Variability in Binary X-ray Sources	U of Alabama, Huntsville	Research Faculty	Leader of Data Analysis, Gamma-ray Burst Experiment
Micheal J Elcan	1979		The Solar Impulsive X-ray Spectrum	?	?	Works in Sorrento Valley Company

Fredrick K Knight	1981	X-ray and Gamma-ray Observations of Pulsed Emission from Radio Pulsars	MIT Lincoln Laboratories	?	Works in Classified Areas
Patrick L Nolan	1982	Hard X-ray Emission from Galactic Black Hole Candidates	Stanford University Deceased Nov 2011	Sr Research Scientist	Key member of High Energy Astrophysics Group
George H Fisher	1984 R C Canfield	The Radiative Hydrodynamics of Flare Loops Heated by Impulsive Bursts of Energetic Electrons	Lawrence Livermore National Laboratory	?	Expert on Radiative Transport
Martin Woodward	1984 H S Hudson	Short-Period Oscillations in The Total Solar Irradiance	Big Bear Solar Observatory	?	Expert on High-speed Solar variations
Gregory V Jung	1986	The Hard X-ray to Low Energy Gamma-ray Spectrum of the Crab Nebula	Naval Research Laboratory, Wash DC	Research Scientist	Member, Astrophysics Group
Geoffrey Hueter	1987 J L Matteson	HEAO-1 Observations of Gamma-Ray Bursts	Far Sight Technologies	Owner/Manager	Small La Jolla Hi-Tech Company
Yang Soong	1988 R E Rothschild	A Study of Temporal-Spectral Behavior of Hercules X-1: A Binary X-ray Pulsar	Goddard Space Flight Center	Research Scientist	Expert on X-ray Mirrors
David H Tamres	1989 R C Canfield	Theoretical Studies of Proton Beams in Solar Flare Loops	Univ. of Wisconsin, Stevens Point	Assoc. Prof?	Small College Teaching and Research
Micheal S Briggs	1991 J L Matteson	Observations of Galactic Positron Annihilation Radiation	University Space Research Association	Research Scientist	Statistical Analysis of Gamma-ray Bursts
H Brian Bowman	1996 J L Matteson	A Study of Galactic Structure in X-rays and Gamma-rays	Florida Gulf Coast University, Ft Meyers	Asst Prof?	New Small College
Lyle A Ford	1996	Spectral properties of Gamma-ray Bursts Observed by the Burst and Transient Source Experiment	Eau Claire State University, Wisconsin	Asst Prof?	Small College Teaching and Research
David Marsden	1999 R E Rothschild	X-ray Observations of Soft Gamma-ray Repeaters	Goddard Space Flight Center	NAS Fellow	Expert on Neutron Star Phenomena
Wayne Coburn	2001 K. Griest	A Study of Magnetic Fields Accreting X-ray Pulsars with the Rossi X-ray Timing Explorer			
Emrah Kalemci	2002 R. Rothshild	Temporal Studies of Black Hole X-ray Transients During Outburst Decay			