

SPACE SCIENCE XX: Chandra and the X-Ray Universe
“...*The X-Rated Story of Stellar Evolution and how the Universe Came to Be...*”

The Wright Center for Innovative Science Education
Tufts University, July 20th – 23rd, 2003



The Chandra X-Ray Observatory Galactic Survey

Saturday, July 19th

2:00 – Latin Way Dormitory Check-In for Saturday Arrival

Sunday, July 20th

9:00 – 3:00 Walking Tour of Boston
2:00 – Latin Way Dormitory Check-In for Sunday Arrival
3:00 – 5:00 Registration at the Wright Center
5:00 – 6:00 Wine/Cheese Reception at The Cabot Center
6:00 – 7:30 Dinner at The Cabot Center
7:30 – 9:00 Presenter, **Dr. Martin Elvis**, Senior Astrophysicist, CXC
“*Chandra: Revolution Through Revolution*”

Monday, July 21st

7:00 – 7:50 Continental Breakfast at The Wright Center
8:00 – 9:00 Welcome and Introductions
9:00 – 10:00 Classroom Activity: *Stellar Bar Codes*
10:00 – 10:30 Walk to the Tisch Library Videoconference Facility
10:30 – 12:00 Guest Speaker, **Janet Mattei, Ph.D.**, Director AAVSO
“*Variable Stars and Chandra*”
12:00 – 12:30 Return to The Wright Center
12:30 – 1:30 Lunch at The Wright Center
1:30 – 2:30 Classroom Activities – Variable Stars
Activity #1 – *Stellar Heartbeats*
2:30 – 2:45 Break
2:45 – 3:15 Activity #2 – *A Variable Star in Cygnus*
3:15 – 4:15 Classroom Activity: *Stellar Evolution Game*
4:15 – 5:15 Classroom Activity: *Stellar Cycles*
5:30 – 7:30 Wine/Cheese Reception/Dinner at The Cabot Center
7:30 – 8:00 Travel to Chandra Operations Control Center, MIT
8:00 – 9:00 Tour of the Chandra Operations Control Center
9:00 – 9:30 Return to The Wright Center
9:30 – Evening Observations with **George Leonberger**, The Wright Center

Tuesday, July 22nd

- 7:00 – 7:50** Continental Breakfast at The Wright Center
8:00 – 8:15 Multiwavelength Resources
8:15 – 9:15 Classroom Activity: *Scaling the Spectrum*
9:15 – 10:15 Classroom Activity: *Electromagnetic Pasta*
10:15 – 10:30 Break
10:30 – 12:00 Classroom Activity: *Imaging Activities*
12:00 – 1:00 Lunch at The Wright Center
1:15 – 2:45 Computer Lab, **Terry Matilsky, Ph.D.**, Rutgers University
“Introduction to the Chandra DS9 Imaging Analysis Software”
2:45 – 3:00 Break
3:00 – 5:00 Computer Lab: *Continuation of DS9*
5:00 – 7:30 Wine/Cheese Reception/Dinner at The Wright Center
7:30 – 9:00 Chandra Resource Agent Presentations (SDSS, GLAST, SEU)
9:30 – Evening Observations with **George Leonberger**, The Wright Center

Wednesday, July 23rd

- 7:00 – 7:50** Continental Breakfast at The Wright Center
8:00 – 9:15 Classroom Activity: *Invisible Light Sources and Detectors*
9:15 – 10:15 Classroom Activity: *Black Holes*
10:15 – 10:30 Break
10:30 – 11:30 Guest Presenters, **Kim Kowal** and **April Hobart**, CXC
“Illustrating and Animating the X-Ray Universe”
11:30 – 12:30 Classroom Activity: *The Herschel Experiment*
12:30 – 1:30 Lunch at the Wright Center