

SPACE SCIENCE XXIV: Chandra and the X-Ray Universe  
*“Seeing the Universe in a Whole New Light”*  
 McDonald Observatory, Ft. Davis, TX  
 July 27<sup>th</sup> – July 31<sup>st</sup>, 2006



**Wednesday, July 26<sup>th</sup>**

- 3:00 - Check-In at the Ft Davis Motor Inn [OR]  
 5:45 - Check-In for the Directors House [House A]

**Thursday, July 27<sup>th</sup>**

- 7:00 - 8:00 Breakfast at the Astronomers Lodge  
 8:30 - 9:00 Welcome and Introductions at the Visitors' Center  
 9:00 - 10:15 Presenter, **Donna L Young**, The Wright Center/CXC/EPO  
*“Chandra’s High Energy Vision: Detecting the X-Ray Universe”*  
 10:15 - 10:30 Break  
 10:30 - 12:30 Introduction to the EMR Spectrum  
 Activity: *The Earth-Moon System*  
 Activity: *The Exponential Clothesline*  
 Activity: *Modeling the Spectrum*  
 Activity: *Electromagnetic Pasta*  
 12:30 - 1:30 Lunch at the StarDate Cafe  
 1:30 - 3:30 Guest Presenter, **Marc Wetzel**, McDonald Observatory  
*“Learning how to Use a Star Charts, Planispheres & Astronomical  
 Atlases to Compile Observing Lists of Deep Sky Objects”*  
 3:30 - 3:45 Break  
 3:45 - 5:30 Activity: *Compilation of Lists of Deep Sky Objects for Evening  
 Observations with the .8 meter telescope*  
 6:00 - 7:00 Dinner at the Astronomers Lodge  
 7:30- 9:00 Guest Presenter, **Jeffrey J E Hayes**, NASA HQ  
*“Latest Scientific Results from the Major NASA Missions”*  
 9:30 - Evening Observations

**Friday, July 28<sup>th</sup>**

- 7:00 - 8:00 Breakfast at the Astronomers Lodge  
 8:30 - 8:45 Introduction to Imaging  
 8:45 - 10:15 Activity: *Invisible Sources and Detectors*  
 10:15 - 10:30 Break  
 10:30 - 12:00 Guest Presenter, **Dr. Terry Matilsky**, Rutgers University  
*“Introduction to Images and Image Analysis”*  
 12:00 - 1:00 Lunch at the StarDate Café  
 1:00 - 3:15 Activity: *Decoding Starlight: From Pixels to Images*  
 Computer Activity: *DS9 Image Analysis Software Activities*  
 3:15 - 3:30 Break

- 3:30 - 5:30 Guest Presenter, **Jean-Pierre Normand**, Canada, Illustrator  
*"Illustrating Space"*
- 6:00 - 7:00 Dinner at the Astronomers Lodge
- 7:30 - 9:30 Guest Presenter, **Dr. Lydia Dambekalns**, University of Wyoming  
*"Mapping the Universe through Science and Art"*
- 9:30 - Evening Observations [.9 meter telescope]

**Saturday, July 29<sup>th</sup>**

- 7:00 - 8:00 Breakfast at the Astronomers Lodge
- 8:30 - 9:00 Introduction to Stellar Evolution
- 9:00 - 10:15 Classroom Activity: *Cosmic Connection*
- 10:15 - 10:30 Break
- 10:30 - 11:30 Activity: *Stellar Cycles*
- 11:30 - 12:00 Activity: *Cosmic Connections on the Web*
- 12:00 - 1:00 Lunch at the StarDate Cafe
- 1:00 - 3:00 Activity: *Stellar Evolution and the H-R Diagram*
- 3:00 - 3:15 Break
- 3:15 - 5:30 Continuation of *"Mapping the Universe through Science and Art"*
- 6:00 - 7:00 Dinner at the Astronomers Lodge
- 7:30 - 9:00 Guest Presenter, **Dr. Terry Matilsky**, Rutgers University  
*"Everything you Always Wanted to Know About Gravity, but  
 Were Afraid to Ask"*
- 9:30 - Evening Observations [.9 meter telescope]

**Sunday, July 30<sup>th</sup>**

- 7:00 - 8:00 Breakfast at the Astronomers Lodge
- 8:00 - 12:00 Tour of the McDonald Observatory Telescopes
- 12:00 - 1:00 Lunch at the StarDate Cafe
- 1:00 - 3:00 Continuation of Imaging and Art with **Dr. Terry Matilsky**
- 3:00 - 3:15 Break
- 3:15 - 5:30 Continuation of *"Mapping the Universe through Science and Art"*
- 6:00 - 7:00 Dinner at the Astronomers Lodge
- 7:30 - 9:00 Guest Presenter, **Jean-Pierre Normand**, Canada, Illustrator  
*"Stories Before our Eyes"*
- 9:30 - Evening Observations [.9 meter telescope]

**Monday, July 31<sup>st</sup>**

- 7:00 - 8:00 Breakfast at the Astronomers Lodge
- 8:30 - 9:00 Introduction to Variable Stars
- 9:00 - 10:15 Activity: *Stellar Heartbeats*
- 10:15 - 10:30 Break
- 10:30 - 12:00 Activity: *A Variable Star in Cygnus*
- 12:30 - 1:30 Lunch at the StarDate Cafe
- 1:30 - 3:00 Activity: *Variable Stars and the H-R Diagram*
- 3:00 - 3:15 Break
- 3:15 - 5:30 Guest Presenter, **Jeffrey J E Hayes**, NASA HQ  
*"NASA's Vision of Educational Outreach Resources"*
- 6:00 - 7:00 Dinner at the Astronomers Lodge
- 7:30 - 9:30 Completion of *"Mapping the Universe through Science and Art"*
- 9:30 - Evening Observations

**Tuesday, August 1<sup>st</sup>**

- 7:00 - 8:00 Breakfast at the Astronomers Lodge