

BETHE CENTENNIAL SYMPOSIUM
ON ASTROPHYSICS
Cornell University
June 2-3, 2006

ALL SESSIONS HELD IN 700 CLARK HALL
(Coffee/posters in 701 Clark Hall)

FRIDAY, JUNE 2, 2006

8:00-8:55am Registration and Breakfast (701 Clark Hall)
9:00-9:10am Welcome by President Hunter Rawlings

SESSION 1: SUPERNOVAE: OBSERVATIONS AND THEORY

Invited Talks (40 minutes+5minute question and answer period)
Session Chair: Ira Wasserman

9:10-9:55am Robert Kirshner (CfA)
"Exploding Stars in an Accelerating Universe"
9:55-10:40am Stan Woosley (UCSC)
"The Death of Massive Stars and the Birth of the Elements"
10:40-11:10am Coffee Break/Posters
11:10am-12:25pm Panel discussion

Moderator: J. Craig Wheeler [Texas]

12:30pm-2:00pm Lunch (visitors on their own; sites on or near campus)

SESSION 2: NEUTRINO ASTROPHYSICS: THE SUN AND BEYOND

Invited Talks (40 minutes+5minute question and answer period)
Session Chair: Rachel Bean

2:00-2:45pm Art McDonald (Queens U.)
"Neutrino Astrophysics (Experimental Summary)"
2:45-3:30pm Wick Haxton (U. Washington)
"Neutrino Astrophysics (Theoretical Summary)"
3:30-4:00pm Coffee Break/Posters
4:00-5:15pm Panel discussion

Moderator: Boris Kayser (FNAL)

7:00-9:00 pm **Banquet**
 Statler Hall, Carrier Ballroom

Banquet Speaker: Ed Salpeter
(introduced by Dean Peter Lepage)

SATURDAY, JUNE 3, 2006

8:00-9:00am Breakfast (catered: 701 Clark)

**SESSION 3: COMPACT OBJECTS: ASTROPHYSICS AND
OBSERVATIONS**

Invited Talks (40 minutes+5minute question and answer period)
Session Chair: Dong Lai

9:00-9:45am Shri Kulkarni (Caltech)
 "The Coming Explosion of Cosmic Explosions"
9:45-10:30am James Cordes (Cornell Univ.)
 "Neutron Stars: The Many Paths Taken"
10:30-11:00am Coffee Break
11:00am-12:15am Panel discussion
Moderator: Lars Bildsten (KITP/UCSB)

12:15-2:00pm Lunch (catered; 701 Clark)

SESSION 4: THE FUTURE OF HIGH ENERGY ASTROPHYSICS

Invited Talks (40 minutes+5minute question and answer period)
Session Chair: Saul Teukolsky

2:00-2:45pm Roger Blandford (KIPAC/SLAC)
 "Extreme Physics in an Expanding Universe."
2:45-3:30pm Michael Turner (U. Chicago)
 "Cosmological Beginnings and Endings"
3:30-3:45pm Coffee break
3:45-4:30pm Kip Thorne (Caltech)
 "Gravitational Waves"
4:30-5:45pm Panel discussion
Moderator: David Helfand (Columbia U.)