

PLANETS

Geophysical and Astrophysical Perspectives on their Structure and Formation

A joint meeting of the New York State Section of the
American Physical Society and the Astronomical Society of New York

The 97th Topical Symposium of the NYSS-APS

October 19 – 20, 2007
Skidmore College
Saratoga Springs, NY

Friday, October 19, 2007

9:00 – 12:00 APS Executive Committee Meeting Surrey Williamson Inn
12:00 – 1:00 On-Site Registration Palamountain Hall Main Entrance

Afternoon Sessions

Gannett Auditorium, Palamountain Hall

1:00 – 1:15 **Welcoming Remarks**
Bob Pompei, Chair, New York State Section of the American Physical Society
Mark Hofmann, Associate Dean of the Faculty, Skidmore College
Tom Balonek, Chair, Astronomical Society of New York

Session Chair: Bob Pompei
1:15 – 2:00 **Timing of Major Events on Rocky Planets:
Implications for the Origin of Sustainable Life**
John Delano (University at Albany)

2:00 – 2:45 **Meteorites: Evidence for Solar System Formation**
Denton Ebel (American Museum of Natural History)

2:45 – 3:15 Coffee Break

Session Chair: Jill Linz
3:15 – 4:00 **Geological Interpretations of Surface Features:
Tales from Impact Craters on Venus & Mars**
Audi Matias (Skidmore College)

4:00 – 4:45 **Questions Raised by Stardust Mission Results**
Denton Ebel (American Museum of Natural History)

5:00 – 6:00 **Poster Session** Aikens Dining Hall, second floor
6:00 – 7:30 **Banquet** Aikens Dining Hall, second floor

8:00 **Public Lecture** Gannett Auditorium
Mars Direct: Humans to the Red Planet within a Decade
Robert Zubrin (Pioneer Astronautics)

Meetings of NYAC Board and ASNY Institutional Representatives following the lecture Dana
Science Center, room 276

Saturday, October 20

Morning Sessions **Payne Room, Tang Teaching Museum and Art Gallery**

8:00 – 9:00 Coffee and Pastries

Session Chair: Deane Peterson

9:00 – 9:45 **Zircons as a window into Earth's very early history**
Bruce Watson (Rensselaer Polytechnic Institute)

9:45 – 10:30 **What can we learn from terrestrial and planetary radio emissions?**
Allan Weatherwax (Siena College)

10:30 – 10:45 Coffee Break

Session Chair: Tom Balonek

10:45 – 11:30 **Shock Waves in Protoplanetary Disks**
Wayne Roberge (Rensselaer Polytechnic Institute)

11:30 – 12:15 **Manufacturing the Molecules of the Cosmos**
Gianfranco Vidali (Syracuse University)

12:15 – 1:30 Lunch **Faculty/Staff Club, Case Center**

Afternoon Sessions **Gannett Auditorium, Palamountain Hall**

Session Chair: Bill Standish

1:30 – 2:15 **Comparative Exoplanetary Science**
Ben Oppenheimer (American Museum of Natural History)

2:15 – 3:00 **Sculpting Circumstellar Disks**
Alice Quillen (University of Rochester)

3:00 – 3:15 Coffee Break

Session Chair: Mary Crone Odekon

3:15 – 3:45 ASNY Graduate Student Prize Lecture
Turbulent Torques on Protoplanets in a Dead Zone
Jeffrey Oishi (American Museum of Natural History)

3:45 – 4:15 ASNY Undergraduate Student Prize lecture
Models of Gamma-Ray Emission from Primordial Black Holes
Nate Hawes (Union College)

4:15 Closing Remarks – Bob Pompei and Tom Balonek