

ASGSB 26th Annual Meeting Preliminary Program

**Gaylord National Hotel and Convention Center, National Harbor, MD
November 4-7, 2010**



Thursday, November 4 (premeeting activities)

- 12:00 noon - 6:00 pm Registration Desk Open
3:00 pm - 6:00 pm **Workshop: The Future of Gravitational and Space Biology Research
100 km and Beyond**
7:30 pm - 10:00 pm ASGSB Governing Board Meeting (*chaired by Terri Lomax*)

Friday November 5 (formal meeting begins)

- 7:30 am - 5:00 pm Registration Desk Open
8:00 am - 8:30 am Welcome and Opening Remarks
8:30 am - 11:50 pm **Symposium I: Photobiology of bacteria, plants and animals.** *Chair: John Kiss*
Sean Crosson, Univ. of Chicago: *The new bacterial photobiology: Visible light perception in chemotrophs*
John Kiss, Miami Univ.: *Insights into photobiology from space research*
Beronda Montgomery, Michigan State Univ.: *Shedding light on the regulation of organ- and tissue-specific phytochrome responses*
Margaret Wong-Riley, Medical College of Wisconsin: *Photobiomodulation benefits primary neurons functionally inactivated by toxins*
11:50 pm - 1:30 pm Lunch and Committee Meetings
1:30 pm - 4:30 pm Poster Session — 1:30 - 2:30 Student poster competition
2:30 - 3:30 Non-student poster session
3:30 - 4:30 Continued viewing and discussion of posters
4:30 pm - 6:00 pm **STEM K-12 Workshop** (Hands-on workshop developed by AIAA Master Teachers)
6:00 pm - 7:00 pm Committee Meetings
7:00 pm - 9:00 pm Reception
9:00 pm - 11:00 pm Student Mixer

Saturday, November 6

- 8:00 am - 5:00 pm Registration Desk Open
8:30 am - 11:50 pm **Symposium II: Spaceflight environment: accelerated skeletal aging and cancer?** *Chair: Ted Bateman*
Henry Donahue, Pennsylvania State Univ. Coll. of Medicine: *Role of osteocytes in mechanotransduction*
Ted Bateman, Clemson Univ.: *Ionizing radiation and bone loss: space exploration and clinical therapy applications*
Theresa Guise, Indiana Univ. School of Medicine: *Site-specific mechanisms of breast cancer osteolysis*
Michael Delp, Univ. of Florida, Gainesville: *Alterations in skeletal perfusion and vascular signaling with unloading: a possible mechanism for bone loss*
11:50 pm - 1:00 pm Lunch and Committee meetings
1:00 pm - 2:00 pm **Panel Discussion on NASA Space Biology on the ISS: Next Steps After the Shuttle** *Chair: Beverly Girtin, NASA Ames Research Center. Topics: Next Steps for Space Cell Biology; Space Rodent Research; Small Organism Space Research; Academia, Industry, and Government Collaborations on ISS*
1:00 pm - 3:00 pm **Task Book/Spaceline Information Station:** Janet Powers and Ron Dutcher, *NASA Research and Education Support Services*
2:00 pm - 3:00 pm **Education Outreach Panel: Best Practices in Educational Outreach.** *Chair: Cindy Martin-Brennan*
Panelists: Nancy Moreno, Baylor College of Medicine; Joshua Neubert, Conrad Foundation; Lisa Bacon, American Institute of Aeronautics and Astronautics; Scott Parazynski, The Challenger Center
3:00 pm - 6:05 pm Concurrent Oral Sessions I & II
7:00 pm - 10:00 pm Banquet and ASGSB Business Meeting. *Featured speaker: Scott Parazynski, former astronaut and Mt. Everest climber*
10:00 pm ASGSB Governing Board Meeting (*chaired by Marshall Porterfield*)

Sunday, November 7

- 8:00 am - 12:00 pm Registration Desk Open
8:30 am - 11:05 pm **Symposium III: Signaling in calcium-dependent development of cell polarity.**
Co-chairs: Stan Roux and D. Marshall Porterfield
Stan Roux, Univ. of Texas, Austin: *Cellular and molecular mechanisms that control gravity-directed cell polarization*
D. Marshall Porterfield, Purdue Univ.: *Calcium, NO, and cell polarity*
Min Zhao, Univ. of California, Davis: *Electrical fields in wound healing direct cell migration*
11:05 pm - 11:30 pm Lunch (*get lunch to bring to Oral Sessions*)
11:30 pm - 1:00 pm Concurrent Oral Sessions III & IV
1:00 pm Adjourn

