



## **F. Landis Markley Astronautics Symposium**

**Hyatt Regency Chesapeake Bay Golf Resort, Spa and Marina  
Cambridge, Maryland, USA**

**June 29–July 2, 2008**

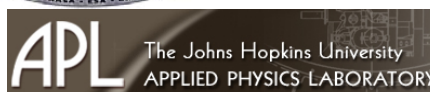
**In cooperation with the American Astronautical Society**

**Sponsors: University at Buffalo-State University of New York, Hubble Space Telescope Project, Lockheed Martin Space Systems Company, Computer Sciences Corporation, General Dynamics The Johns Hopkins University Applied Physics Laboratory, Spacecraft System Engineering Services American Institute of Aeronautics and Astronautics (AIAA)-Baltimore Section**

Dr. F. Landis Markley has been one of the pillars of spacecraft attitude estimation as well as one of our most important mission engineers. Joining the Computer Sciences Corporation in 1974, he established himself quickly as an expert on all aspects of spacecraft attitude mission support. He moved to the United States Naval Research Laboratory in 1978 and to his current location at NASA Goddard Space Flight Center in 1985. Over more than three decades, he has supported more than twenty space missions, most notably the Hubble Space Telescope, the Tropical Rainfall Measuring Mission, and the Wilkinson Microwave Anisotropy Probe. His influence on spacecraft attitude estimation is observable throughout the practices of our profession. He has been particularly prominent in the development of analytical tools and operational software for spacecraft attitude covariance analysis and for his numerous and fundamental studies of Kalman filtering and batch techniques for spacecraft attitude estimation. He is the author of many classic papers in spacecraft attitude estimation, dynamics, and control; and was one of the principal contributors to the book *Spacecraft Attitude Determination and Control* (1978), which has been essential to the education of many astronautical engineers. He was elected Fellow of the AIAA in 1998 and of the AAS in 2007 and has been a Goddard Senior Fellow since 2000. He is a recipient of the NASA Exceptional Service Medal (1994 and 2005), the AIAA Mechanics and Control of Flight Award (1998), and the AAS Dirk Brouwer Award (2005).

A special symposium will be held from June 29–July 2, 2008 to honor Dr. Markley for his many innovations in astronautical engineering, for his many algorithms and methodologies for spacecraft attitude support, and for his numerous seminal publications. The organizers are Drs. John L. Crassidis, Yaakov Oshman and John L. Junkins. Dr. Julie K. Thienel is the local organizer and Dr. Kathleen C. Howell is AAS liaison. The symposium is open to everyone. However, in order to coordinate with the hotel, which has offered us a special rate of \$235/night, we ask that you reply by email as quickly as possible to [johnc@eng.buffalo.edu](mailto:johnc@eng.buffalo.edu) to let us know: (1) if you hope to attend, (2) if you plan to present a paper, and (3) if you plan to bring a guest to the social events.

**Important dates:      Abstract Deadline:      March 14, 2008**  
**Final Paper Deadline:      May 9, 2008**



Papers from all areas of astronautics will be considered, including but not limited to: attitude determination, control and dynamics; orbit determination and mechanics; trajectory design; space-vehicle navigation; sensor calibration; formation flying, navigation and control; and multi-body and flexible-body dynamics. For abstract submission, a one-page abstract is sufficient. The first paragraph of the abstract should be written to serve as a short abstract for the symposium program. Please include your email and standard mailing addresses at the head of your symposium abstract. Abstracts can be submitted through the AAS Space Flight Mechanics website, which will be set up shortly. The final manuscript should be consistent with standard AAS conference format. (see: <http://www.univelt.com/paperformats/AASFormat.pdf>). All general correspondence and the submission of abstracts and papers should be directed to the symposium chair, Dr. John L. Crassidis.

The AAS will devote a special issue of the Journal of the Astronautical Sciences to the Markley Symposium under the editorship of the symposium organizers and Dr. Howell.

The Hyatt Regency Chesapeake Bay Golf Resort, Spa & Marina on the Eastern Shore of the Chesapeake Bay is a Four-Diamond resort (see: <http://chesapeakebay.hyatt.com/hyatt/hotels/index.jsp>), that boasts a magnificent setting and several nearby attractions. A reception is planned for Sunday evening, June 29. The symposium banquet and a plenary address by Dr. Markley will take place on June 30. Because the number of rooms available for the symposium is limited, please reserve your room as early as possible. Reservations can be made by calling 800-233-1234. Mention that you are attending the Markley Symposium.

Questions on the content or conduct of the Symposium should be addressed to the symposium organizers:

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*Again, please let **John Crassidis** know by email as soon as possible if you hope to attend, present a paper, or bring a guest to the social events.*

Anyone wishing to contact Dr. Markley before the symposium can write to him at [Landis.Markley@nasa.gov](mailto:Landis.Markley@nasa.gov).