

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

Aeronautics and Space Engineering Board
Space Studies Board

500 Fifth Street, NW
Washington, DC 20001
www.nationalacademies.org

60th Anniversary of Space Studies Board: 1958-2018
60 Years: A Celebration of the Explorer I Mission
and the Discovery of Earth's Radiation Belts

January 31, 2018

National Academy of Sciences Kavli Auditorium
2101 Constitution Avenue NW, Washington DC

On January 31, 1958, the first U.S. satellite, Explorer 1, was launched from Cape Canaveral, and with it began 60 years of extraordinary technological and scientific advances that have improved both the understanding of our planet and the lives we lead on it, as well as our knowledge about the universe and how it works. The Space Studies Board of the National Academies of Sciences, Engineering, and Medicine will host a celebration of the 60th anniversary of the Explorer 1 mission and the associated discovery of the Earth's radiation belts. The event will also be the first celebration of the 60th anniversary of the Space Studies Board in 2018. The agenda will focus on scientific and technological advances over the last 60 years, beginning with the history of the mission and radiation belt discoveries and continuing with the latest results from the NASA's Van Allen Probes and missions observing the Earth system. The event will conclude with presentations on the frontiers of space science. The event will also include a lunch, reception and dinner for invited guests, featuring an opportunity to share personal stories and anecdotes about James Van Allen during dinner.

SYMPOSIUM OUTLINE AGENDA

11:30 am	Informal Lunch (Invitation only) – West Court NAS Building	
12:30 pm	Auditorium – Welcoming Remarks	
12:45 pm	Introduction to Moderated Talks	
12:50 pm	The Van Allen Radiation Belt: U.S. Historical Perspective	Louis Lanzerotti, New Jersey Institute of Technology
1:20 pm	The Vernov Radiation Belt: Russian Historical Perspective	Lev Zelenyi, Russian Academy of Sciences
1:50 pm	Latest Results from Van Allen Probes	Daniel Baker, University of Colorado Boulder
2:20 pm	Astonishing Achievements in Earth Systems	Michael Freilich, NASA
2:50 pm	Coffee Break	
3:20 pm	Introduction to Moderated Talks with Next Generation Leaders	Moderators: Thomas Zurbuchen, NASA Daniel Baker, University of Colorado Boulder
3:25 pm	Small Sat to Small Sats – the Earth/Space Environment	Robyn Millan, Dartmouth College
3:50 pm	Cutting Edge of Radiation Belt Research	Allison Jaynes, University of Iowa
4:15 pm	Advances in Theoretical Modeling of Earth's Radiation Belts	Wen Li, Boston University
4:40 pm	Moderated Discussion with Next Generation Leaders	
5:10 pm	Closing Remarks	Daniel Baker, University of Colorado Boulder
5:15 pm	Reception & Dinner (by invitation only) – NAS Great Hall – Informal chat about James A. Van Allen	
8:00 pm	Event Closes	