The National Academies of
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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

National Academy of Sciences Kavli Auditorium
2101 Constitution Avenue NW, Washington DC
January 31, 2018

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 (by invitation only)** *West Court, NAS Building*	**Michael Watkins, Jet Propulsion Laboratory (TBC)**
12:30 pm	**Welcoming Remarks** *Fred Kavli Auditorium*	**Marcia McNutt, National Academy of Sciences** **Michael Moloney, National Academy of Sciences**
12:45 pm	**Introduction to Moderated Talks**	**Thomas Zurbuchen, NASA**
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**	**Alexander Moiseev, NASA (TBC)**
1:50 pm	**Latest Results from Van Allen Probes**	**Daniel Baker, University of Colorado Boulder**
2:20 pm	**Astonishing Achievements in Observing and Understanding Earth Systems**	**Michael Freilich, NASA**
2:50 pm	**Coffee Break**	
3:20 pm	**Moderated Talks with Next Generation Leaders**	**Moderators: Thomas Zurbuchen, NASA** **Daniel Baker, University of Colorado Boulder**
3:25 pm	**Small Sat to Small Sats: 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 Gen Leaders**	
5:10 pm	**Closing Remarks**	**Daniel Baker, University of Colorado Boulder**
5:15 pm	**Reception & Dinner (by invitation only)** *West Court, NAS Building*	**James Green, NASA**
8:00 pm	**Event Closes**	