Western Regional Space Grant Keynote

Bryan von Lossberg

Missoula City Council President
Former design and cognizant engineer at NASA’s Jet Propulsion Lab and senior program manager at Applied Materials

September 2019
Big Sky, Montana
Magical Space of Wonders

–Austen Rose von Lossberg, 2nd grade

The Power and Beauty of Crazy Ideas

–Austen’s dad, 5th decade grade
“What they should have sent was poets…”

—Apollo 8 Mission Commander Frank Borman
1989

NASA initiates the National Space Grant College and Fellowship Program, also known as Space Grant.
Space Grant

- Space Grant is a national network of colleges and universities. These institutions are working to expand opportunities for Americans to understand and participate in NASA's aeronautics and space projects by supporting and enhancing science and engineering education, research and public outreach efforts.
Magellan

- Launched from Shuttle Atlantis - May 4, 1989

- First planetary spacecraft launched from a space shuttle

- Arrived at Venus on August 10, 1990

- Synthetic Aperture Radar (SAR)
Wide Field and Planetary Camera 2 (WFPC2)

A Second Look: Replacing the Wide Field and Planetary Camera

Image Credit: NASA, 1993
Mars Pathfinder at JPL in Pasadena, CA
Testing of the Airbags: 
A Giant Upside Down Slingshot
Mars Pathfinder • Carl Sagan Memorial Station
THE MARTIAN
ANDY WEIR
A NOVEL

#1 NEW YORK TIMES BESTSELLER

“BRILLIANT ... A CELEBRATION OF HUMAN INGENUITY [AND] THE PUREST EXAMPLE OF REAL-SCIENCE SCI-FI FOR MANY YEARS ... UTTERLY COMPELLING.” — WALL STREET JOURNAL

NOW A MAJOR MOTION PICTURE FROM TWENTIETH CENTURY FOX

EXTRA LIBRIS

BRING HIM HOME
THE MARTIAN

MATT DAMON

OCTOBER 2
That thing that Mark Watney (Matt Damon) is touching in The Martian... I know that thing... Hello Pathfinder... Hello Insulated Structural Assembly... It's been quite some time... But you look freakin' GREAT!
Silicon Valley
Our Kids

More Likely to Feel Lonely
Percentage of 8th-, 10th-, and 12th-graders who agree or mostly agree with the statement “I often feel left out of things” or “A lot of times I feel lonely”

- Often feel left out
- Often feel lonely

2007 – iPhone released
Home
Credit and thanks to Bob King AKA “Astro Bob” in Minnesota
“If you hold a pin at arm’s length up in the air, the head of the pin covers approximately the amount of sky that appears in the Hubble Deep Field.”

–Joss Fong and Dion Lee
“The 1995 Hubble photo that changed astronomy”
Vox, Sept. 21, 2016
Thank you for your time