

Space Days Partners

Institutional Members

South Dakota School of Mines and Technology, Rapid City, SD; South Dakota State University, Brookings, SD; USGS Center for Earth Resources Observation and Science (EROS), Sioux Falls, SD; Augustana College, Sioux Falls, SD; South Dakota Discovery Center and Aquarium, Pierre, SD

Educational Affiliates

Black Hills State University (BHSU), Spearfish, SD and the Center for the Advancement of Mathematics and Science Education operated by BHSU; NASA Educator Resource Center (ERC), Spearfish, SD; Lake Area Technical Institute, Watertown, SD; The University of South Dakota (USD) Vermillion, SD; Dakota State University (DSU), Madison, SD; Badlands Observatory, Quinn, SD; Black Hills Astronomical Society; Imagination Station, Rapid City, SD; Kirby Science Discovery Center and NASA "Educator Resource Center" (ERC); Washington Pavillion, Sioux Falls, SD; The Journey Museum; Lower Brule Community College, Lower Brule, SD; Ogalala Lakota College, Kyle, SD; Sinte Gleska University, Rosebud, SD; Teaching SMART, a program of Girls, Inc., Rapid City, SD.

Industrial Affiliates

Cynetics Corp., Rapid City, SD; Honeywell; Horizons, Inc., Rapid City, SD; Raven Industries, Sioux Falls, SD; RESPEC, Rapid City, SD; Science Applications International Corporation (SAIC)

State and Federal Government Affiliates

Office of Aeronautics, South Dakota Department of Transportation, National Weather Service Forecast Office, Aberdeen, SD

Register for South Dakota Space Days TODAY!

Contact Lake Area Technical Institute @ 1-800-657-4344 or (605) 882-5284 ext. 241 or email LuAnn Strait at straitl@lakeareatech.edu

Due to limited space, all groups must pre-register.

Last day to register is October 10, 2008.

THIS IS A FREE EVENT.



Spaceship Earth

Celebrating 50 Years of Space Exploration



South Dakota SPACE DAYS

**Post-High Education &
Business Community Track**

October 16, 2008
Watertown Event Center
Watertown, South Dakota

South Dakota Space Days are part of a national celebration of our quest to explore and utilize the "Final Frontier". Space Days will offer space-related activities for students in grades 7-12, post-secondary, the business community, and the general public. All activities will be held in cooperation with NASA, the South Dakota Space Grant Consortium, and Lake Area Technical Institute.



A group of researchers from University of North Dakota's Northern Great Plains Center for People and the Environment, **Dr. Xiaodong Zhang**, **Mr. Craig Helgason**, and **Mr. Clint Streeter**, will showcase four products:

1. **Digital Northern Great Plains** web portal for downloading remote sensing imagery
2. Web-based decision support tool, **Zone Mapping Application for Precision-farming**
3. International Space Station-based **AgCam**, a two channel sensor developed at UND.
4. **AeroCam**, a four channel sensor that has been flying for over 3 years to help farmers.

Date: Thursday, October 16

Session: 8:30-9:30 AM

Location: Kampeska Hall

Target Audience:

Agriculture	Dual Credit Agriculture
FFA	Environmental Tech
Watertown Area Agriculture Sector	



Dr. Geoffrey M. Henebry, Research Scientist from the Geographic Information Science Center of Excellence (GIScCE) - South Dakota State University, will offer amazing information on Land Cover Dynamics, Regional Hydrometeorology, and the Vulnerability of Rain-Fed Agriculture to Climate Change under Scenarios of Extensive Cultivation of Biofuel Feedstocks.

Date: Thursday, October 16

Session: 9:45-10:45 AM

Location: Kampeska Hall

Target Audience:

Agriculture	Dual Credit Agriculture
FFA	Environmental Tech
Watertown Area Agriculture Sector	



Dr. Jitendra Joshi is a lead technologist for the Advanced Capabilities Division in the Exploration Systems Directorate at NASA Headquarters. He will speak about the effects of microgravity and space on the human body and other living systems such as plants. While addressing the challenges of space on living systems and ways to mitigate them, Dr. Joshi will also explain how the lessons learned in space help us on Earth with respect to human health, agriculture and environmental monitoring.

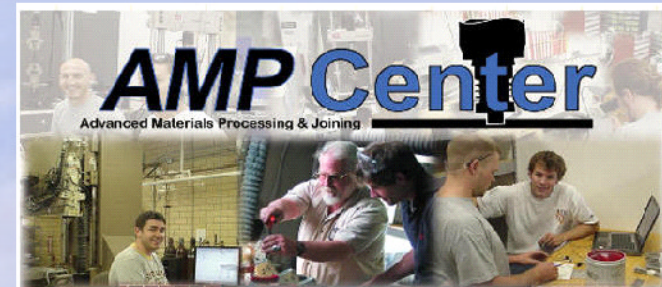
Date: Thursday, October 16

Session: 11:00 AM- 12:00 Noon

Location: Kampeska Hall

Target Audience:

Occupational Therapy	Nursing
Physical Therapy	Medical Lab Tech
Medical Assisting	Agriculture
Watertown Area Agriculture Sector	Watertown Area Health Care Sector



William Arbegast, Director of the Advanced Materials Processing & Joining Center at South Dakota School of Mines & Technology has developed cutting edge technologies that have come into wide use with the military, civilian manufacturing, and the space program. His presentation showcases state-of-the-art materials joining and parts fabrication technology.

Date: Thursday, October 16

Session: 1:00-2:30 PM

Location: Kampeska Hall

Target Audience:

Aviation Maintenance	Electronic Systems Tech
Energy Technology	Engineering/Architectural/Mechanical Drafting
Robotics	Machine Tool Tech
Welding Tech	Watertown Area Manufacturing Sector

*All presenters/presentations are subject to change.

**Seating capacity per session is 450.