

## **Jeffrey W. Crews**

Project Co-Director: Science Goes Spatial: Geotechnology in the Classroom  
School of Education  
University of Montana

### **Education**

Doctoral Fellow: Curriculum and Instruction, School of Education (2004-Present)  
The University of Montana – Missoula, MT

Master of Education: Technology in Education (1998)  
Lesley College – Cambridge, MA

Bachelor of Arts: Biology and General Science (1987)  
University of Montana – Missoula, MT

### **Professional Experience**

Science Goes Spatial: Geotechnology in the Classroom, School of Education, The University of Montana, Missoula, MT

Project Co-Director, 2006-Present

Responsible for the development and support of geospatial curriculum for K-12 educators.

Division of Educational Research and Service, The University of Montana, Missoula, MT

Assistant Director of Science and Technology Projects 2005 - 2006

Responsible for the direction of the several projects within DERS to disseminate sound technology and science curriculum to teachers and students throughout Montana.

Adjunct Faculty, School of Education, University of Montana, Missoula, Montana 2004.

C&I 404 Elementary Science Methods: The purpose of this course is to expose students to best practices in science education and assist in the successful integration of these practices. Students are exposed to different strategies used in elementary science classrooms, including aligning curriculum to standards, inquiry-based learning and the conceptual change model, and assessment.

NASA Earth Observing System Education Project University of Montana, Missoula, MT

Assistant Director, 2001-Present

Disseminate NASA's EOS satellite imagery and related technologies to public schools throughout Montana and the US.

Western Education, Inc. – Lolo, MT

Educational Technology Specialist, 2000-2001

Deliver sound technology solutions to schools including hardware/software, training, technology conferences, grant writing, network design/support and staff development activities

Lolo School District #7 – Lolo, MT

Director of Technology / Computer Teacher, 1997-00

Designed, installed, configured, upgraded and maintained networks. Provided related training to users in a school with 600+ students and 50+ teachers and staff.

Lolo School District #7 – Lolo, MT

Middle School Science Teacher, 1988-1997

Taught 7<sup>th</sup> grade life science and 8<sup>th</sup> grade physical science to approximately 140 students per year. Implemented inquiry-based science curriculum, conducted outdoor education opportunities (Glacier National Park and Yellowstone National Park) and co-directed the Lolo Expedition Club (eight summer trips to Oregon, Washington and Canada).

### **Honors and Awards**

Graduate Student Travel Scholarship, Professional Presentation, The University of Montana, 2006  
Doctoral Teaching Assistant, The University of Montana, 2006

### **Publications**

Blank, L., Crews, J., Beed, D. (2005). *Science Goes Spatial: Geotechnology in the Elementary Classroom*, Eisenhower National Clearinghouse for Mathematics and Science Education (ENC).

Blank, L., Plautz, M., Crews, J. (2004). *Making an Impact: Shatter Cones*. ScienceScope.

### **Select Workshops and Presentations**

The following listings are samples of workshops/presentations conducted.

#### ***Internet Safety/Computer Forensics Related Presentations:***

Lowell School parent night presentation

2005 (Missoula, MT)

School Resource Officers workshops

2004-2005 (Billings & Missoula, MT)

Computer Forensics Certification Course (Level I & II)

2005 (Florida)

Lolo School Internet Safety Presentation

2005 (Lolo, MT)

Plentywood School Internet Safety Professional Development Presentation

2005 (Plentywood, MT)

#### ***Presentations at National Conferences:***

NECC 2004 (New Orleans, LA)

Conducted day long workshop for participants centered on the use of remotely sensed data and GIS in a K-12 classroom.

NECC 2002 (San Antonio, TX)

Conducted two make and take workshop for participants centered on the use of remotely sensed data and GIS. Conducted mini presentations from exhibit area to showcase current EOS technologies and their integration into curricular areas.

FETC 2001, 2002, 2003 (Orlando, FL)

Conducted mini presentations from exhibit area to showcase current EOS technologies and their integration into curricular areas.

NSTA 2004 (Atlanta, GA)

Exhibited with NASA headquarters to demonstrate collaboration between NASA Projects.

Conducted presentations on the integration of remote sensing and GIS into curricular areas.

NSTA 2003 (Philadelphia, PA)

Exhibited with NASA headquarters to demonstrate collaboration between NASA Projects.

Conducted presentations in NSTA theatre to showcase current EOS technologies and their integration into curricular areas.

ITEA 2004 (Kansas City, MO)

Conducted presentation on the integration of handheld technologies and GIS to help students assess safe routes to school.

Exhibited with NASA headquarters to demonstrate collaboration between NASA Projects.

Conducted presentations on the integration of remote sensing and GIS into curricular areas.

ITEA 2004 (Albuquerque, NM)

Exhibited with NASA headquarters to demonstrate collaboration between NASA Projects.

Conducted presentations on the integration of remote sensing and GIS into curricular areas.

Classroom Connect 2001 (Las Vegas, NV)

Conducted three hands-on workshops to demonstrate remotely sensed data and GIS and the practical application into existing curricula.

NCCE 2002, 2003 (Seattle, WA; Portland, OR)

Presented overview of the EOS Education Project and the many practical ways to implement NASA technologies into many subject areas.

ESRI International GIS Users Conference 2001, 2002, 2003 (San Diego, CA)

Presented and showcased the many facets of the EOS Education Project and the work we are doing with GIS in Montana.

***Presentations at Regional and State Conferences:***

MEA Conference 2001, 2002 (Bozeman, Missoula MT)

Conducted hands-on workshops demonstrating strategies for implementing NASA technologies into curricular areas

GIS 4 MT Rollouts 2001, 2002, 2003 (Montana)

Conducted workshops across the state highlighting the use of GIS and the integration of this technology into classrooms across the state.

Intermountain GIS Users Conference and USFS Regional Conference 2002, 2003 (Montana and Idaho)

Presented the EOS Education Project's many technologies and how GIS professionals can help with the integration process.

Western Education Technology Roundup 1998 - 2003 (Butte, Bozeman, Billings MT)

Conducted workshops on various topics addressing the use of technology in an educational setting.

Workshops ranged from full-day to one-hour presentations.

EDPARC Showcase 2002 (Rapid City, SD)

Invited to present on successful project with Lolo School District and the implementation of GIS into 5<sup>th</sup> and Kindergarten classroom. Presented in the company of two fifth grade students and 5<sup>th</sup> grade teacher.

***Presentations at school districts around Montana and the US:***

Montana Workshops 1990 – 2003

Multiple presentations throughout the state of Montana focusing on Science and Technology and its effective integration. Presentations and workshops comprised many formats and lasted from one-hour presentations to multiple day workshops.

Cincinnati GIS Workshop 2003 (Cincinnati, OH)

Conducted multi-day workshop on the effective use of GIS within the context of sustainable development. Teacher teams worked to develop strategies to effectively implement GIS.

Franklin Flagship Program 2002, 2003 (Missoula, MT)

Conducted five-week course in the use of remotely sensed data within an after-school environment. Worked with fourth and fifth grade students and second and third grade students. Presented lesson model to pre-service teachers in collaboration with Professor Lisa Blank.