



THE IMAGING & GEOSPATIAL INFORMATION SOCIETY

~The Rocky Mountain Compiler~

Issue 4

Winter 2004

Issued Quarterly

Newsletter of the Rocky Mountain Region of ASPRS, serving Montana, Wyoming, Colorado, and New Mexico

President's Message

This year has been a tremendous success for ASPRS-RMR. We were awarded ASPRS Region of the Year for an unprecedented third year in a row (Thanks for the leadership Scott Bennett!). Additionally, we were also awarded the Region Newsletter of the Year (The Rocky Mountain Compiler) and took third place for the Region Website of the Year. This was just the beginning as throughout the year the RMR Board worked hard to achieve the goals set by National and adhere to the Strategic Plan. A new Region of the Month award was started in 2004, with the RMR taking first place a total of four times. Other highlights of the year:

- Annual Holiday Party (in Jan.) was at Il Fornaio in downtown Denver
 - Brief presentation given by graduate scholarship winner for '04
- A Successful 17th Annual GIS in the Rockies Conference (co-sponsored with 4 other professional societies)
 - Technical Tours: Shriever Air Force Base, National Renewable Energy Lab, and Merrick & Company
- Development began on three new Student Chapters:
 - University of Denver
 - University of Montana
 - University of Wyoming (See related article in this issue)
- Successful ASPRS National Conference in Denver in '04

- The conference was attended by a record 1,900 professionals, an increase of 65% over the previous year's event !
- Awarding \$3000 worth of Scholarships (undergrad and graduate level)
- Sponsored Rogue Social Event for Membership Outreach in Denver
- New Mexico Rio Grande Chapter
 - Developed a Grant program for students to receive monies to attend ASPRS 2004 in Denver (9 students)
 - Two RGC Newsletters
 - New RGC Student Scholarship
 - Sponsor of NMGIC in Albuquerque
- Metropolitan State College of Denver
 - Sponsored 2nd Annual Spatial Olympics
 - Sponsored Career Day

Now is the time for you to take action to get more involved in the Rocky Mountain Region of ASPRS for 2005. Our slate of candidates ensure we will

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have an exceptional new Board of Directors coming on line in January and they can use your enthusiasm and help to continue our successful ways. There are many different options to choose from and like most professional societies, the more you put in, the more you will get out of it. The following are just a few ways you could get more involved in the RMR:

- Join the ASPRS-RMR board
- Attend a Board of Directors meeting (They are open to all members and usually include lunch)
- As faculty or students: Set-up a GIS or Remote Sensing Club (get sponsored by ASPRS)
- As an Alumni from a RMR Educational institution, help your University or college start an ASPRS Student Chapter
- Submit an article for the Award winning Rocky Mountain Compiler quarterly newsletter
- Write a technical article for PE&RS
- Support the GIS in the Rockies Conference (give a talk, lead a workshop, lead a session, attend)
- Attend the RMR-Sponsored technical tours (suggest other places you would like to see)
- Go the RMR Annual Dinner and other organized social events, such as Rogues Night Out (extend your professional network!)
- Encourage friends and colleagues to become members and get involved themselves
- Encourage your company to become ASPRS Corporate Member

Thank you again to this year's Board for a successful year and to those members that decided this was the year they were going to become active in the society. It is a great sign that this year's Board of Directors ballot includes more candidates than any previous year. We are definitely moving in the right direction.

I look forward to seeing you in the near future. Happy Holidays!

Brian L. Soliday
President ASPRS-RMR 2004
bsoliday@lizardtech.com

GIS in the Rockies a Great Success!!

ASPRS along with four other geospatial societies ACSM, GITA, PLSC and URISA hosted the 17th Annual GIS in the Rockies conference October 6-8 at the Plaza at the Mart in Denver. This year's theme "Worlds of Opportunity" conveyed the excitement the geospatial industry offers and the range of topics it includes. The attendance of over 580 people was almost 6% over 2003's attendance. This is considered a huge success given competition from the national ASPRS convention in Denver and the upcoming Denver GITA conference.

The first day of the conference consisted of eight workshops and six technical sessions. Track themes included:

- Introduction to GIS Fundamentals
- Resource Conflict Management
- Exhibitor Showcase
- GPS & Surveying
- Public Policy
- Professional Development

Fifty-seven vendor booths provided excellent contact opportunities for attendees and exhibitors alike. Denver **Mayor John Hickenlooper** treated the luncheon audience to his and Denver's experience with geospatial technologies and the outlook for future cooperation with the industry. The luncheon was attended by both attendees and exhibitors, with everyone enjoying the sit-down break. The evening social in the vendor area closed out the day's activities with a lively band and drawings for over 25 door prizes including two iPods and a Windows Pocket PC loaded up with ESRI's ArcPad software.

Day two offered two full day workshops and six concurrent technical sessions. The track themes:

- Emerging Standards
- Enterprise GIS
- Imagery and Remote Sensing
- Professional Development
- Regional Cooperative Efforts
- Surveying and Cartography

Will Wilbrink of MapInfo informed the crowd at the sit-down luncheon about the latest in mobile location awareness technologies. NAVTEQ hosted rides with NAVTEQ drivers every half hour to demonstrate their road/street network collection technology. A student group from Morey Middle School was entertained and informed by **Joseph Kerski** of the USGS; then they were released into the exhibit hall to meet and query vendors on the latest geospatial offerings.

The first GIS in the Rockies Job Fair was very well attended with many employers left holding a stack of resumes from prospective employees.

The third day was filled with first-rate technical tours at Schriever Air Force Base, Merrick & Co. and The National Renewable Energy Laboratory. ASPRS-RMR was proud to sponsor the refreshments for each tour. The USGS also hosted the first annual geocaching event at Denver's City Park. The third annual golf tournament at Buffalo Run on Friday afternoon gave several hackers the opportunity to navigate the course using on-cart GPS units.

Mark your calendars, the 2005 GIS in the Rockies conference will be held at Invesco Field at Mile High on September 21-23, 2005.

Thanks to all ASPRS volunteers for your hard work!

RMR Fall Technical Tours

Schriever Air Force Base

The tour to Schriever Air Force Base on October 8, 2004 was a huge success. Attendees were picked up at the Plaza at the Mart by a bus arranged by Trimble and **Ken Turnbull** of ASPRS. **Mark Hess** of ASPRS was the host. ASPRS provided ample refreshments for everyone involved.

A group of 12 was able see the nerve center of the GPS Satellites. The tour was hosted at different times by a sergeant, lieutenant, captain and major. All were incredibly accommodating and extremely professional. It is hard to understand how much hands-on work is required to keep the satellites on track. all units are constantly monitored and corrections are uploaded as needed. Occasionally a satellite will veer from its planned orbit and will need a course correction. The tour included a drill illustrating the procedure to move the "bird" back into position. Planning this task takes several hours before they can fire the rockets or make adjustments. During this time the satellite will be down to GPS use. Once the correction is made to the flight path, then a new almanac is calculated and uploaded. Once completed, the satellite is brought back on line for GPS use.

The tour also included a look into the "war room" used for planning and presentations. Attendees were treated to a fascinating PowerPoint presentation on the types of activities take place in the Space Command. Schriever is the only AFB that does not have planes and runways. It is all space oriented. One video clip showed an unmanned vehicle launching a missile at an antenna in Baghdad. The group watched the video as the antenna was destroyed, but a mosque next door and other neighboring structures remained intact. The presentation highlighted other new Air Force technology such as a pulsed laser used to do 3D modeling of camouflaged installations. Operators were able to see men standing behind a tank in the resulting image.

Security was intense at the base and in addition to all visitors names and ID's being checked out many days in advance of our visit, the tour went through many check points and had two Air Force chaperones present at all times.

For more interesting information, visit the base web site at <http://www.schriever.af.mil/>

Merrick & Company Technical Tour

The October 8th tour at Merrick & Company was hosted by a number of individuals at Merrick, including; **Gary Outlaw**, **Brian Raber**, **J.C. Sanchez** and **Torin Haskell**. The 25 attendees received a full tour of the Merrick facility and demonstrations of Merrick's key production capabilities.

The attendees were given an overview of Merrick's lidar production. They were able to see the lidar data that was captured by Merrick go through the filtering and processing stages. The tour then moved to an imagery demonstration highlighting the use of a digital camera, which included the orthorectification of the digital imagery. The final stop on the tour was a demonstration of the softcopy photogrammetry production facility.

NREL (National Renewable Energy Laboratory)

www.nrel.gov

1617 Cole Blvd., Golden

The NREL technical tour was held Friday October 8th, 2004 as part of GIS in the Rockies Conference. It was organized By ASPRS-RMR with refreshments provided afterwards.

The tour started with an overview of GIS activities within NREL. This GIS group has been at NREL for 11 years. They are involved in a wide variety of activities and programs that reflect the diversity of the research being done at this facility. The Renewable Energy Resource Modeling and Assessment includes wind, solar, biomass, geothermal, and hydrogen. They also have a program of web-based outreach. Links to public domain GIS data and products related to renewable energy can be found on their website (www.nrel.gov/gis) and also at redc.nrel.gov

James Bosch, NREL Office of Outreach and Public Affairs NREL, gave an overview of NREL. He put in context the important research being done at their various labs and facilities. James also introduced all the attendees to the Visitor Center and led the tour to the SERF (Solar Energy Research Facility) where the building itself is a wonderful example of renewable energy at work. James leads many tours throughout the year, from school kids to special interest. To schedule a tour, call him at 303-384-6567.

The basic 2-hour planned tour included the NREL Overview, NREL GIS Introduction, and Visitor

Center described above. Our host also offered the option to extend the tour another two hours (with most attendees staying around to take advantage of this opportunity) to include tours to other buildings and research facilities in two 15-passenger vans. Stops included the SERF (mentioned above) as well as a tour of the Solar Radiation & Research Laboratory (SRRL) that was led by the Group Manager, **Tom Stoffel**. Tom gave us opportunity to see instruments up close that capture such information as Radiometer Calibrations, Solar and Wind Assessment, Metrology Lab and Optics Lab Spectral Standards.

Their website and fliers are very informative. The presentations and overall tour were well received by all who attended and highly recommended!

ASPRS Scholarship Reminder!!!

Deadline December 17, 2004

The Rocky Mountain Region (RMR) of ASPRS will once again offer scholarships to deserving students this calendar year. We have scholarship monies available for deserving undergraduate and graduate students! The scholarships are intended for students throughout the Rocky Mountain Region of ASPRS (Colorado, Montana, New Mexico and Wyoming) who are demonstrating excellence in pursuing careers in the fields of Photogrammetry, Remote Sensing, Geographic Information Systems (GIS) or related disciplines. Both undergraduate and graduate students of any third-level educational institution within the four state region who are pursuing careers in these disciplines are eligible for the awards.

Make sure your advisor/instructor and department is on the mailing list and check www.asprs-rmr.org regularly for more details. We had a limited number of applications this year, especially from graduate students, so please take the initiative and apply!

For more information, contact;

Jaymes Pardue

Vice President, ASPRS-RMR
Chair, Scholarship Committee
Tel: 303-384-1925
jpardue@vargis.com

ASPRS-RMR Guidelines for the Fall 2004 Academic Scholarship

For those students who have not signed up for the RMR scholarships and still want to, here are the guidelines for applying. Good Luck!

UNDERGRADUATE:

- Student shall be enrolled full-time.
- Student shall be a junior or senior in good-standing.
- Student shall have a declared major in a field related to ASPRS. Examples: Photogrammetry, Geodetic Sciences, Geology, Remote Sensing, Geography, Geophysics or the Natural Sciences.
- Application shall contain at least one letter of recommendation from a professor.
- Student shall have at least one quarter/semester remaining before graduation when the scholarship is awarded.
- A scholarship that is intended to be used for travel-related expenses to attend any ASPRS sponsored convention or workshop will be paid by ASPRS-RMR after travel is complete.
- Applicants shall submit a completed application form (see web site).

GRADUATE:

Student shall be enrolled full-time (as defined by the school).

- Student shall be declared in a discipline related to ASPRS. Examples: Photogrammetry, Geodetic Sciences, Geology, Remote Sensing, Geography, Geophysics or the Natural Sciences.
- Application shall contain at least one letter of recommendation from a professor familiar with the student's academic standing.
- Student shall have at least one session of school/research remaining before graduation when the scholarship is awarded.
- A scholarship that is intended to be used for travel-related expenses to attend any ASPRS-sponsored convention or workshop will be paid by ASPRS-RMR after travel is complete.
- Applicants shall submit a completed application form (see web site).

AWARD:

- For the scholarships, preference will be given to those studies that apply sound scientific principles to practical applications and/or to those presenting their work at ASPRS sponsored conference.
- Award of both the undergraduate and the graduate scholarships shall be based on academic merit, not on need. (Note: The board recognizes that financial hardships are incurred when pursuing higher education and such hardships can have a direct effect on a student's ability to remain in school. However, making selection for the annual scholarships based on

need would be beyond the ability of the ASPRS-RMR Board to validate.)

****APPLICATIONS MUST BE RECEIVED NO LATER THAN DECEMBER 17, 2004.**

For more information, contact;

Jaymes Pardue

Vice President, ASPRS-RMR

Chair, Scholarship Committee

Tel: 303-384-1925

jpardue@vargis.com

Region Director's Report

As a Society, ASPRS is doing well. During 2004, we paid off the mortgage on our National Headquarters building, and celebrated our 70th anniversary. We had two excellent conferences (Denver and Kansas City), and planning is well advanced for the 2005 Spring Meeting in Baltimore 7-11 March. In addition, plans are developing for the following conferences:

October 2005 EROS Data Center, Sioux Falls, SD

April 2006 Reno, NV

Fall 2006 (probably) San Antonio, TX

May 2007 Tampa, FL

Other conferences are also in planning stages, so we are looking well into the future!

In early December, I will be attending EXCOM meetings at ASPRS Headquarters in Washington, D.C. At this meeting, we will be preparing the budget for 2005, as well as preparing a revised Strategic Plan for the Society. It has been some time since we have looked at the Plan, and some revisions are needed. We will be reviewing all activities of the Society to ensure we are meeting the needs of our members and continuing to change as the technologies of our discipline also change. Of course, membership will remain an important aspect of our planning, continuing efforts initiated last year. The Rocky Mountain Region has been very active in supporting ASPRS initiatives, and continues to be one of the most active regions in the country.

Also this year, ASPRS regained control of the ASPRS Foundation, which had been part of IGIF. This is important change, because all gifts to the ASPRS Foundation will go to fully endow our scholarships and awards. In the same manner we paid off the mortgage on our national headquarters, so we can now build a solid future for ASPRS. We have come a long way in just a few years, and this is due to the dedicated efforts of many members like you!

Allen Cook, RMR National Director

Student Membership Outreach

The RMR is pleased to announce the results of two very successful student membership outreach programs this quarter. Student chapters are preparing to organize at Denver University and the University of Wyoming. President of the RMR chapter **Brian Soliday** and Vice President **Jaymes Pardue** presided over introductory meetings for the student body to get the word out on ASPRS. Denver University hosted 15 undergraduate and graduate students and the University of Wyoming was well represented with 21 students. "We are very pleased with the response that we are getting from the local universities in the Rocky Mountain Region" said **Jaymes Pardue**. "The presence of the student chapters of ASPRS and their growing membership is a testament to the benefits of being a part of a professional society like ASPRS. We are proud of their achievements and look forward to their many years of participation in the success of our organization".

Are you interested in starting a student chapter at your accredited university of college?

For more information, contact

Jaymes Pardue

Vice President, ASPRS-RMR

Chair, Scholarship Committee

Tel: 303-384-1925

jpardue@vargis.com



Some of the members who are organizing the new DU Chapter

Univ. of Wyoming Student Chapter Kickoff

On November 19th, RMR President **Brian Soliday** hosted a social gathering at the University of Wyoming, Laramie, Wyoming. The event, which included drinks and food was organized by UW PhD student **Sudhir Raj Shrestha**. **Sudhir** is studying in the Dept. of Renewable Resources within the school of Rangeland Ecology and Watershed Management. The primary focus of the event was to provide students and faculty an overview of ASPRS, the activities of the RMR, and gauge the interest in starting a UW Student Chapter. The interest was very evident in that 16 graduate/post graduate

students and five faculty members participated. **Brian** provided the students with information and applications for the ASPRS-RMR scholarship program, and reviewed the special student offer that was made specifically for UW students. Any UW student that signs up as an ASPRS Student Member Prior to the end of February (\$45) will receive a \$20 rebate from the RMR. The students are already planning their initial meeting to elect officers, so it was a very successful event. Great job **Sudhir!** Support from the faculty and WY Geographic Information Science Center (WYGISC) faculty was also very evident, so we are really excited to move this new Student Chapter forward.

Rio Grande Chapter News

ASPRS Rio Grande Chapter Annual Meeting

October 22, 2004, Las Cruces, NM

The Rio Grande Chapter held the 2004 Annual Meeting in Las Cruces, NM, hosted by the USDA Agricultural Research Service (ARS). The meeting began with a morning tour of Jornada Experimental Range, <http://usda-ars.nmsu.edu/>. The Jornada Experimental Range is a unit of the USDA's ARS, and it is also a site within the National Science Foundation's Long-Term Ecological Research (LTER) network.



ASPRS-RMR Rio Grande Chapter Members on Field Tour Members enjoyed a deli lunch after returning from the field trip, which was followed by a technical session, member meeting, and announcements.

Speakers for the technical session:

Al Rango, Research Hydrologist, USDA ARS Jornada Experimental Range, *Repetitive remote sensing over southwestern US rangeland undergoing vegetation change, JORNEX 1995-2004.*

Andrea Laliberte, Remote Sensing Scientist, USDA ARS Jornada Experimental Range, *Object-oriented image analysis for mapping shrub encroachment from 1937-2003 in southern New Mexico*

Dallas Bash, Resource Biologist Conservation Division, Directorate of the Environment, Fort Bliss, TX, *Measuring ecosystem health with Landsat Thematic Mapper imagery.*

Rio Grande Scholarship NEWS!

Mike Racine, President of the Rio Grande Chapter presented **Heather Richards** with a travel stipend check as part of the RGC's scholarship program.

Heather is a PhD Candidate in the Department of Anthropology at UNM. She presented a paper at the XX Congress of the International Society for Photogrammetry and Remote Sensing from July 18 through 30th, 2004 in Istanbul, Turkey. Her paper, titled "Documentation and Virtual Modeling of Archaeological Sites Using a Non-Metric Extreme Wide-Angle Lens Camera" was published in International Archives of Photogrammetry and Remote Sensing Vol. XXXV Commission 5 Part B. **Heather** was the only ASPRS-RMR-RGC student member to attend and present a paper at the ISPRS convention this year. She attended several paper presentations on photogrammetric applications for use in archaeological applications and research. Congratulations **Heather!**



Mike Racine presents Heather Richards with a travel stipend check to present a paper at the ISPRS convention

ASPRS Rio Grande Chapter Membership Update

The Rio Grande Chapter now has 91 members in all categories; this includes 13 student members, 11 of whom joined in 2004. We hope to continue to increase our membership in the coming months, and we're particularly proud of our new student members! As a way to continue to integrate students into ASPRS activities, our chapter is encouraging the establishment and continuation of student

chapters at New Mexico Universities. NMSU's student chapter will pick up again in 2005 with two new student members and a new student membership drive.

2004 Annual Dinner Meeting

Mark your calendars for **Saturday January 22nd** for the ASPRS-RMR Annual Dinner. Scholarships will be awarded and new officers will be sworn in. More information on time and location will be provided on the RMR website (www.asprs-rmr.org) and in a separate email. We look forward to seeing you there!

Welcome New Members!

*Mr. Ben C. Sherrouse
 *Ms. Rosemary R. Williams
 *Mr. Charles A. Ferguson
 *Ms. G. M. Hendershot
 Dr. William Scott White

* denotes a student member

Region News, Events and Jobs

Check out the newly updated Rocky Mountain Region web site. It is a great resource for upcoming events, news, and job listings! Check us out at www.asprs-rmr.org

Candidates for ASPRS-RMR 2005 Board of Directors

Jaymes Pardue

Mr. Pardue has been involved in the Remote Sensing industry for over 10 years. Jaymes has served a total of three years on the Rocky Mountain Region Board of ASPRS, pme year as Vice President and two years as Regional Director serving as the ASPRS representative to the "GIS in the Rockies" Conference Planning Committee. He currently is Western Regional Sales Manager for VARGIS LLC; an orthophoto and GIS services company based in Herndon, VA. He manages activities in both sales and strategic business development for 23 states in the Western US. Prior to joining VARGIS, Mr. Pardue was a regional manager for Emerge Corporation specializing in digital aerial imagery products and services. Previous to Emerge, Jaymes was a Channel Partner Representative with Space Imaging, responsible for sales and channel development of Earth imagery; and value added information products in the South Western US. Jaymes has broad experience working

in the GIS and Remote Sensing industries. Before joining Space Imaging, Mr. Pardue worked for Geonex Corporation as a remote sensing analyst specializing in environmental applications. Mr. Pardue graduated with two Bachelor's degrees, one in Environmental Science and one in Geography, in 1992. Both degrees were earned from the University of South Florida in Tampa, Florida.

Steven R. Hick

Steven Hick is the GIS Director and faculty member in the Department of Geography at the University of Denver. For the past nine years Mr. Hick has been directing the Geographic Information System (GIS) education and research activities in the Department. Steven is currently the Director of the GIS Certificate Program and was instrumental in the creation of one of the nation's first Master of Science degrees in Geographic Information Science. During the past five years, Steven has been an instructor in the Crime Mapping and Analysis Program working with the National Law Enforcement and Corrections Technology Center, a National Institute of Justice program at the University of Denver. He provides crime mapping and analysis technical assistance to law enforcement agencies across the country.

Prior to joining the University of Denver, Steven was a Technical Consultant at UGC Consulting from 1989 until 1994. Before moving to Denver, he was a Cartographer with the Defense Mapping Agency, based at Fort Sam Houston, Texas between 1985 and 1988. While in Texas, Steven taught in the University of Texas system on the San Antonio and Austin campuses. He has been a member of ASPRS since 1985.

Bryan McFadden

Mr. McFadden has been involved in the GIS/Remote Sensing industry for over 10 years. He currently holds the position of Director of Operations for Geo360. Bryan recently held the position of Mapping Operations Manager for Motorola. In this capacity he managed mapping projects and mapping application development as part of Motorola's Safety Solutions. He was also responsible for international deployments of Computer Aided Dispatch systems.

Previous work experience includes seven years at Space Imaging where he performed various roles, most recently as a Regional Manager overseeing operations at three regional solutions offices.

Mr. McFadden has broad experience working with various geospatial data sources and applications. He holds an MS degree in Geography specializing in GIS and Remote Sensing from Texas A&M.

Terry Ryan

Terry Ryan is LizardTech's Central Region Territory Manager for North America Sales, responsible for the sales of LizardTech's suite of software products for managing, distributing and accessing large complex digital content. Mr. Ryan has a long history working in sales, marketing and channel development for the geographic information systems and remote sensing industries. Before joining LizardTech, Mr. Ryan worked for IntraSearch-MapMart as Director of Sales, providing remote sensing data and GIS base data to commercial and government users. Prior to that he held the position of Sales Manager for Land Info International and provided GIS data and services to users across the globe. Mr. Ryan has also held other sales related positions in the geospatial marketplace. As Business Development Manager for Hitachi Software Global Technology, he was responsible for development of partnerships with leading satellite imagery and aerial photography organizations around the US. He was also Senior Account Manager for Avatech Solution, a leading Autodesk software reseller and solution provider to the CAD marketplace.

In 1993, Ryan earned a BA degree in marketing and advertising from Loras College in Dubuque, Iowa. Ryan is a member of GITA, GIS Colorado, and ASPRS professional organizations.

Mark Hess

Mark Hess has been working in the remote sensing field since 1989. He is currently employed by Ocean Imaging Inc., a 20-year-old company specializing in applied satellite and airborne remote sensing, specifically the mapping and monitoring of marine, littoral and wetland environments. As the Director of Operations for the Rocky Mountain Regional Office, he is responsible for overseeing the company's worldwide fisheries and oceanographic support services, managing various research projects, product and business development and expansion of Ocean Imaging's research and aerial scanning services into terrestrial and wetland markets. Prior to that, he worked for NOAA-NMFS developing database structures to help correlate fisheries data with oceanographic features visible in satellite imagery. Mr. Hess holds a BA degree in Aquatic Biology from the University of California at Santa Barbara and an MBA from Colorado State University.

Shawn Slade

Shawn Slade has a BA degree in Geography from the University of Nebraska-Lincoln and has completed course work for an MA degree from the University of Nebraska-Lincoln in Geography.

Currently he is writing his thesis to fulfill the MA requirements. He focused his studies on remote sensing and thematic cartography; however he enjoyed taking other courses as well. Upon leaving UNL in 1999, Shawn went to work for the USDA-FSA Aerial Photography Field Office in Salt Lake City, UT as a Cartographic Technician. While there he worked on photogrammetric projects relating to the NAPP program. In late 1999 he took a job with ERDAS, Inc. as a Software Instructor in their newly expanded Denver office. He taught professionals the concepts of remote sensing, image processing and softcopy photogrammetry. He served in this capacity for three years before moving into a sales role for Leica Geosystems, who had acquired ERDAS, Inc. Most recently he has served as the Pacific Territory Sales Representative for Leica Geosystems GIS & Mapping; he is responsible for sales of software and hardware including extensions to the ArcGIS package, ERDAS IMAGINE, Leica Photogrammetry Suite and the DSW scanner line.

Roland Mangold

Roland Mangold is a principal of Spatial Resources, LLC, a spatial advisory practice offering sales and marketing services to companies in the geospatial industry. Mr. Mangold has a broad range of experience in sales, marketing and communications in geospatial publishing, mapping, photogrammetry and remote sensing. For the past 12 years, he held the position of publisher of Earth Observation Magazine (EOM), after founding the magazine in 1992. In 1996, he started the Geographic, Earth, Mapping Information Store – gaining both knowledge and experience in sales and marketing of geospatial products and services to environment, petroleum, pipeline, mining, construction, civil engineering, real estate, utilities and civil government organizations.

Mr. Mangold has held sales and management positions with Satellite Communications Magazine and Plastics Business Magazine. He earned a BA degree in Mass Communications from Truman State University in Kirksville, MO where he received a four year football scholarship. After graduation he played in the Canadian Football League from 1979-84 for the Montreal Alouettes and Toronto Argonauts.

Matthew Cross

Matthew Cross is Intermap Technologies, Inc. Sales Manager for the western US. He is responsible for sales of Intermap's digital elevation mapping products, and is also involved in business development with a variety of clients in the west. In addition, Mr. Cross is involved in sales of Intermap's data products and services, and business development with the US Department of Defense.

Before joining Intermap, Mr. Cross worked for Digital Globe as a technical sales representative. Prior to private industry, Mr. Cross worked for the University of Colorado, managing a multi-million dollar program for archiving and distributing climatic data collected in the Arctic. He also worked at the USGS EROS Data Center, where he was involved in a variety of environmental projects in Africa through their international projects office. Mr. Cross graduated with an MA degree in Climatology specializing in remote sensing in 1988, and earned a BS degree in Meteorology in 1985. Both degrees were earned from the University of Nebraska –Lincoln.

Jan Van Sickle

Jan Van Sickle has over thirty-five years of experience in mapping and GIS. He created and led the GIS department at Qwest Communications International, a telecommunications company with a worldwide 25,000-mile fiber optic network. In the early 1990s, he helped prepare the GCDB, a nationwide GIS database of public lands, for the U.S. Bureau of Land Management. His experience with GPS began in the 1980s when he supervised control work using the Macrometer, the first commercially available GPS receiver and he supervised the first GPS control survey of the Grand Canyon. A teacher of GIS and mapping, he also authored the nationally recognized texts, "GPS for Land Surveyors" and "1,001 Solved Fundamental Problems." His most recent book, "Basic GIS Coordinates," is the foundation for his nationwide seminars. Jan is currently enrolled in the PhD program at the University of Colorado.

Cliff Inbau

Cliff Inbau currently works for Environmental Systems Research Institute (ESRI), as a technical analyst supporting the Federal customers including the Department of Interior and the Department of Defense. He has 11 years of experience in implementing and developing GIS for Federal, defense, water utilities, municipalities, and local government agencies. Cliff received his Masters in GIS from the University of Colorado at Denver (UCD), and his BS in Watershed Sciences from Colorado State University. Prior to joining ESRI, Cliff worked for Earth Tech, Brown and Caldwell, the City of Aurora Utilities Department, and the City of Thornton Utility Department. He is also an adjunct faculty member for UCD's GIS program. He is a member of ASPRS, GITA, and GIS Colorado, and has previously served on the GIS in the Rockies Board from 1999-2001.

Richard W. Cooke

Richard Cooke was appointed President & Chief Operating Officer of RSI on January 2, 2002. Richard also serves as Chairman for RSI France, RSI Italy and RSI UK. Prior to this appointment Richard had served the company as its Vice President of Engineering and Information Technology for the previous two years.

Richard is a native of Texas, but completed most of his college prep education in France where he attended the well-regarded American School of Paris. Richard returned to Texas in the early 1980s where he began his undergraduate studies at the University of Texas in Arlington.

After completing his undergraduate degree Richard began his career with General Dynamics in Ft. Worth, Texas (now the Lockheed Martin Tactical Aircraft Division), where he worked in a variety of Program Management roles for aircraft systems. During that time Richard began his graduate work through the University of Texas system, and in 1993 received his MBA.

Prior to joining Research Systems, Richard spent seven years with STB Systems in Richardson, Texas, where he built an international Engineering organization that developed numerous award-winning products for the graphics and imaging workstation market. STB enjoyed tremendous growth and success and was ultimately acquired by 3dfx Interactive in 1999. Richard then served 3dfx as its Vice President of Software Engineering until departing in April of 2000 to join RSI.

Richard has been active in numerous professional and civic organizations during his career. He recently completed a 2 year service rotation on the Department of Commerce's Advisory Committee on Commercial Remote Sensing (ACCRES). Richard has also served the Boulder Software Association as its President and as a member of its Board of Directors.

Major accomplishments: turnaround of RSI with 35% revenue growth in Between 2002 and 2004 with substantial growth in profitability as well; established a Global Services strategy to provide Geospatial Intelligence and Visualization solutions to the marketplace; served as part of the management team that grew STB from \$30M in revenue to \$150M in revenue, completing an IPO in the process which ultimately led to the sale of STB to 3dfx Interactive.

Richard resides in Lafayette, Colorado with his wife Jenni.

ASPRS – Rocky Mountain Region 2004 Officers

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|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| President | Brian Soliday Lizardtech Software, Inc | Work: 303-250-5537 Fax: 303-485-0100 bsoliday@lizardtech.com |
| Vice-President | Jaymes Pardue VARGIS LLC Golden, CO | Work: 303-384-1925 Fax: 303-384-1926 jpgardue@vargis.com |
| Secretary | Bryan McFadden Motorola, Inc 6000 Spine Rd. Boulder, CO 80301 | Work: (303) 527-4159 Fax: (303) 513-3403 bryan.mcfadden@motorola.com |
| Treasurer | Terrell Williams VP of Operations Green Mesa, Inc. Wheat Ridge, CO 80214 | Work: (303) 202-1127 Fax: (303) 638-6413 terrell.williams@comcast.net |
| National Director | Allen Cook Northrop Grumman AUC1/42 17455 E. Exposition Drive Aurora, CO 80017 | Work: 720-744-7328 Fax: 720-744-7250 allen.cook@ngc.com |
| Regional Director (GIS in the Rockies) | Craig Erikson Space Imaging 12076 Grant Street Thornton, CO 80241 | Work: (303) 254-2236 Fax: (303) 254-2213 cerikson@spaceimaging.com |
| Regional Director (GIS in the Rockies) | Mark Hess Rocky Mountain Region Ocean Imaging, Inc. | Work: 303-948-5272 Fax: 303-948-5272 mhess@oceani.com |
| Regional Director (Communications/Newsletter) | Jennifer Whitacre Spectrum Mapping 1999 Broadway, STE 3200 Denver, CO 80202 | Work: 303-298-9847/ 315 Fax: 303-292-9279 jwhitacre@specmap.com |
| Regional Director (General) | Jeff Young Leica Geosystems GIS & Mapping Division Inverness Drive East, Suite 200 Englewood, CO 80112 | Work: 303-799-9453 / 16 Fax: 303-799-4809 |
| Regional Director (At Large) | Steve Hick University of Denver Dept. Of Geography Denver, CO 80208 | Work: 303-871-2535 Fax: (303) 871-2201 shick@du.edu |
| Past President | Scott Bennett Harris 1746 Cole Blvd Ste 225 Golden, CO 80401-3210 | Work: 303-215-1700 Fax: 303-278-0092 |
| Communications Coordinator/Webmaster (not on the board) | Sheila Pelczarski Denver Water (MC 414) Denver, CO 80204 | Work: 303-628-6511 Fax: 303-628-6852 sgp@denverwater.org |

*** ANNUAL BALLOT ***

Election of ASPRS-RMR Officers for 2005

For each office, vote for only person. See www.asprs-rmr.org/news.html for biographical sketches of candidates. Mark an "X" to select a nominated candidate or add write-in candidate of your choice.

Office of President

Jaymes Pardue _____ Write-in

Office of Vice-President

Steve Hick Bryan McFadden _____ Write-in

Office of Secretary

Terry Ryan _____ Write-in

Office of Treasurer

Mark Hess Shawn Slade _____ Write-in

*Office of Regional Director ("GIS in the Rockies" Committee - 1 yr.)**

Roland Mangold Matt Cross _____ Write-in

Office of Regional Director ("GIS in the Rockies" Committee - 2 yr.)

Jan Van Sickle Cliff Inbau _____ Write-in

Office of Regional Director (At-Large - 2 yr.)

Richard Cooke _____ Write-in

* *Regional Director ("GIS in the Rockies" Committee)*: Term has one yr. remaining, but is being vacated early by Craig Erikson.

Note: No vote is required for the following positions:

Past President: Brian Soliday (2004 President of RMR)

National Director: Allen Cook (3-yr. term; 1 yr. remaining)

Regional Director (Communications/Newsletter): Jennifer Whitacre (2-yr. term; 1 yr. remaining)

Regional Director (General): Jeff Young (2-yr. term; 1 yr. remaining)

Mail completed ballot postmarked no later than December 31, 2004 to:

ASPRS Rocky Mountain Region
PO Box 280834
Lakewood, CO 80228