

Central Region Newsletter

American Society for Photogrammetry & Remote Sensing

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Dr Jackson Cothren Elected National Director Central Region

The votes are in and counted. The Board of the Central Region would like to announce the election of Dr. Jackson Cothren, University of Arkansas, to the office of National Director for Central Region. Dr. Cothren will be serving the remaining two years of Kari Craun's term as National Director. Ms. Craun had to vacate the office when she was elected Vice-President of ASPRS this Spring.

Dr. Jackson Cothren began a position as Assistant Professor in the Department of Geosciences at the University of Arkansas this month. He was formerly a research scientist at the Center for Advanced Spatial Technologies (www.cast.uark.edu) at the University of Arkansas. He earned a BS in Mathematics from the United States Air Force Academy in 1989, an MS in Geodetic Science and Surveying from the Ohio State University in 2000, and a PhD in Geodetic Science and Surveying from the Ohio State University in 2004. He has over fourteen years of experience in photogrammetry, image processing, computer vision, and geodesy with the US Air Force, the Ohio State University, and in private industry.

He is currently serving as team leader of an effort to design and implement a comprehensive geospatial-data infrastructure for seven Central America countries and part of Mexico. The geo-spatial data includes literally hundreds of Landsat 5 and Landsat 7 scenes from 1970 through 2003 and various contemporary MODIS products that will support carbon sequestration analysis throughout the Meso-American Biological Corridor.

He has worked extensively with QuickBird imagery as a source of imagery to update aging orthophotos and quickly generate impervious surface maps. Several grants have resulted in the purchase of over 700 square miles of 60 cm GSD satellite imagery. His work in this area has been extended through the National Consortium for Rural Geospatial Innovations (RGIS, www.ruralgis.org) to include developing techniques and training courses for using this type of imagery for low-cost orthophoto updates on a county-wide basis. Through RGIS, he is leveraging CAST's work in photogrammetric research to work closely with the Northwest Arkansas Regional Planning Commission to coordinate ortho-photo updates over 1800 square miles of Benton and Washington County in Arkansas.

He has worked with high school students across seven states to introduce fundamental and advanced GIS and remote sensing technical and planning skills as a member of the EAST Geospatial Support team at CAST (www.cast.uark.edu/cast/east and www.eastproject.org). He has helped develop curriculum for more than seven different two to five day short courses and visited more than fifty EAST labs in schools across California and Arkansas. These full day visits focus on providing students with ideas and skills to apply GIS to problems in their communities.

Both as an Air Force officer and as a civilian engineer working for the Air Force he was responsible for the direction and management of all photogrammetric and geodetic research at the National Air Intelligence Center. He has worked as professional consultant to private industry to develop digital photogrammetry software - including a self-calibrating bundle adjustment, non-metric camera calibration algorithms, and automatic target recognition algorithms.



Technical Presentation: Post-Fire Characterization of the Land Surface and Vegetation Using Imaging Spectroscopy Data for Cerro Grande NM and Left Hand Creek WY

The technical presentation "Post-Fire Characterization of the Land Surface and Vegetation Using Imaging Spectroscopy Data for Cerro Grande NM and Left Hand Creek Wyoming" was presented on July 15th, 2004 by Raymond F. Kokaly of the USGS Spectroscopy Lab, Denver Colorado. The presentation was held at the USGS office in Rolla Missouri with high attendance and participation from members coming from as far away as Kansas City, Kansas, Springfield, Missouri, and Ft Leonard Wood, Missouri. Raymond also gave an additional short briefing on some of the Invasive Species work he has been doing. An abstract of the presentation is included below:

Raymond F. Kokaly (raymond@usgs.gov), USGS, Denver CO

Barnaby Rockwell (barnabyr@usgs.gov), USGS, Denver CO

Laurie Morath (lmorath@usgs.gov), USGS, Denver CO

Ralph R. Root (ralph_root@usgs.gov), USGS, Denver CO

Susan Goodman (Susan_Goodman@blm.gov), BLM, Denver CO

Historically, fire has been among the dominant disturbances in the Rocky Mountain Region of the U.S. Recent occurrences of large wildfires, due in part to the increased abundance of fuels resulting from the past century of wildfire suppression, necessitate that resource managers acquire information on the post-fire state of the land surface to plan erosion hazard mitigation strategies and to guide re-vegetation efforts. This paper reports on the spectroscopic analysis of remotely sensed data collected post-wildfire. Two areas were studied: 1) the May 2000 Cerro Grande fire in Los Alamos NM, and the Left Hand Creek BLM area in Central Wyoming, which has been subject to wild fires in 2000 and 2001. AVIRIS data collected on September 4, 2000, over the Cerro Grande fire site were atmospherically corrected and converted to reflectance using a single ground calibration site. The spectral signatures in these data were examined in relation to known spectral responses of vegetation, mineral and post-fire ash materials. The results of this study indicate that the presence of ash covered surfaces and bare soil/bedrock surfaces can be identified and mapped. Variations in vegetation reflectance arising from chlorophyll and lignin/cellulose absorption features indicate that vegetation within fire perimeters can potentially be discriminated into unburned vegetation, fire-killed non-photosynthetic needles/leaves, and regenerated vegetation. Hymap imaging spectrometer data over the Left Hand Creek study site were collected on July 2, 2002. In conjunction with the remote sensing data collection, field measurements of vegetation reflectance and surveys of plant species composition were made for 33 sites within the study area. Measurements of vegetation cover and species composition were made in order to assess the impact of fire on vegetation regeneration in this sagebrush ecosystem. Ongoing efforts in both study areas seek to utilize the post-fire characterization of the land surface in conjunction with *in situ* studies of erosion and vegetation regrowth to develop predictive models of landscape recovery from wildland and prescribed fires.

New Members!

The Central Region Board would like to welcome two new members including one regular member and one student member.

Regular Member:

- Mr. Ron Rinas, Tulsa, Oklahoma

Student Member:

- Ms. Katy Rich, Norman, Oklahoma

Events Calendar

September 12-16, 2004. **ASPRS Fall Conference: Images to Decisions: Remote Sensing Foundations for GIS Applications**, Hyatt Regency Crown Center, Kansas City, Missouri <http://www.asprs.org/fall2004/index.htm>

September 13-14, 2004. **Commercial Remote Sensing Industry Conference**, Adam's Mark Hotel, Denver, Colorado. At this premier meeting ground for the commercial remote sensing industry, attendees will hear from key players within the remote sensing industry regarding best practices and insights to give you a competitive edge in this growing and vital industry. Networking opportunities with industry experts along with presentations from experienced industry executives will be a conference feature, enabling you to heighten market awareness and strengthen relationships. (<http://www.srinstitute.com/CG117>)

September 20-24, 2004. **IGARSS 2004 Science for Society—Exploring and Managing a Changing Planet**, Egan Convention Center, Anchorage, Alaska. The Geoscience and Remote Sensing Society annually sponsors the International Geoscience and Remote Sensing Symposium (IGARSS), the premier world conference on this topic. Held annually with alternate years in North American and International venues, this prestigious meeting has become an international focus of remote sensing programs, applications and activities. Each year it draws hundreds of scientists and engineers from around the world to become familiar with current research and technology and to discuss instruments, techniques, models, uses and programs of global interest. (<http://ewh.ieee.org/soc/grss/igarss.html>)

October 6-8, 2004. The **17th annual GIS in the Rockies conference** will be held at the Plaza at the Mart, Denver, Colorado. This year's conference theme is "Worlds of Opportunity." Topics include emerging industry standards; resource conflict management; surveying, cartography and geodesy; public policy; enterprise GIS and more. Concurrent technical sessions and the exhibition will be on Wednesday and Thursday. Technical tours and a golf outing will be on Friday. Workshops are also available. ACSM, ASPRS, GITA, PLSC and URISA are the meeting sponsors. GIS Colorado is an affiliate sponsor. Web address: <http://www.GISintheRockies.org>.

October 19-20, 2004. **GeoTech 2004 - Multi-Resolution Solutions: Using all the Tools in the Toolbox**, ASPRS Potomac Region, The Premier Mid-Atlantic (USA) Imagery and GIS Conference, Hosted by NOAA's National Geodetic Survey, Silver Spring, MD <http://www.asprspotomac.org/>

October 22-28, 2004. **Secular Variation in Tectonics and Allied Fields**, St. George, Utah. Penrose Conference co-sponsored by the U.S. Geological Survey, to be held at the Holiday Inn in St. George. Application deadline: July 1, 2004, Abstract deadline: September 1, 2004. For more information contact dbradley@usgs.gov or jfdewey@blue.ucdavis.edu

October 26 - October 28, 2004. **Regional Data Exchange 2004 - Decision Support for the Great Lakes - St. Lawrence System for the New Millennium**. Conference co-sponsored by EPA, NOAA, IJC, ASPRS to be held at the Marriott Renaissance Center in Detroit, Michigan. For more information: <http://rdx.glc.org/> or contact kyam@glc.org.

February 21-23, 2005. **The 9th Annual Missouri GIS Conference**, Tan -Tar-A Resort, Osage Beach, Missouri. View flier <http://msdisweb.missouri.edu/save-the-date-mogis2005.pdf> (Adobe pdf 64Kb)

March 7-11, 2005. **ASPRS 2005 Annual conference: Geospatial Goes Global: From Your Neighborhood to the Whole Planet**, Baltimore, Maryland, <http://www.asprs.org/baltimore2005>

Student Volunteers Needed for ASPRS Fall Conference in Kansas City, Missouri 12-16 September 2004

STUDENT VOLUNTEERS NEEDED

The ASPRS "Images to Decisions: Remote Sensing Foundations for GIS Applications" Conference is a perfect opportunity to continue your education this fall. This specially designed educational conference is scheduled September 12-16, 2004 at the Hyatt Regency Hotel in Kansas City, Missouri. Conference website: <http://www.asprs.org/fall2004/index.htm>

Volunteering requirements:

- Full time student at an accredited college or university
- 15 hours of volunteering
- Attend the volunteer orientation session Saturday, Sept. 11 from 5:30 to 6:30 pm in the Benton Room A of the Hyatt Regency Hotel
-

Volunteering benefits:

- Complimentary conference registrations, including the 10 demonstration tutorials
- A complimentary ticket to the baseball game and the pre-game tail-gate party (to the first 17 volunteers)
- Each student who works 7.5 hours during any one day will receive a lunch stipend of \$8 or if there are box lunches being served, they will receive a ticket for the lunch. This year there will be at least one box lunch on Thursday.

Instructions:

To sign up as a volunteer for the fall ASPRS conference, you must fill out and fax in the Conference Registration form and the Volunteer form. The Volunteer form is included on page 5 of this newsletter and the Conference Registration form is on page 6 (forms can also be downloaded from the conference website or from my website listed below). You must also provide a valid copy of a student ID:

1) Volunteer form. Select the times on the form that you wish to work at the conference, indicating if there are any particular sessions you would like to attend. You will find a complete program for the conference at the conference website. If you are presenting at the conference, note the time of your presentation on the form, and I

will you assure you will not have any conflicts. The times on the form might not be the exact times for which you will be scheduled. Monika Moskal will e-mail the finalized volunteer schedule to all volunteers using the e-mail address you provide.

2) Conference Registration form. You cannot register for the conference online, because payment is required to process the registration. Instead, fill out the registration form by hand and fax in the form as directed below to receive your complimentary conference registration. It is also helpful to write 'Student Volunteer' at the top of the form.

3) Make a photocopy of your valid student ID.

Once you have filled out the registration and volunteer forms, fax BOTH of the forms to the ASPRS office and BOTH of the forms and the photocopy of your valid student ID to myself:

- (301) 608-2699 - ASPRS Main office in Bethesda, Maryland
- (417) 836-6006 - Monika Moskal at Southwest Missouri State University in Springfield, Missouri; assure that Monika Moskal's name is listed as the recipient on your fax letter.

Application Deadline: open till all positions are filled. You could contact Dr. Moskal as late as 12 September.

Questions should be addressed to:

L. Monika Moskal, Assistant Professor
Department of Geography, Geology and Planning
Southwest Missouri State University
901 South National Ave., Temple 323
Springfield MO 65804

Phone: (417) 836-4273

Fax: (417) 836-6006

e-mail: MonikaMoskal@smsu.edu

www.faculty.smsu.edu/l/Imm878f (information on volunteering is also listed on this website, forms can be downloaded from this site)

Volunteer Opportunities... Complimentary Registration

If you are a student at an accredited college or university and would like a complimentary registration to the 2004 ASPRS Fall Conference, consider serving as a volunteer. You need only work 15 hours during the five days of the conference to receive a complimentary registration.

Please complete the information below, indicating your areas of preference, and give three choices for each day in order of preference ("1" being first). Assignments will be made on a first come basis and cannot be guaranteed. For further information, please contact monikamoskal@smsu.edu.

Name (FML) _____

First Name for Badge _____

Mailing Address _____

City/State/Zip _____

Daytime Phone _____

E-Mail Address _____

College/University _____

Emergency Contact w/phone _____

Sunday, September 12

	Preference	Hours Available
ASPRS Registration Desk – 7:30 am – 5:00 pm	<input type="checkbox"/>	_____
ASPRS Staff Office – 7:30 am – 5:00 pm	<input type="checkbox"/>	_____
Workshops 7:45 am – 5:00 pm	<input type="checkbox"/>	_____
Floater (assist where needed) – 7:30 am – 5:00 pm	<input type="checkbox"/>	_____

Monday, September 13

ASPRS Registration Desk – 7:30 am – 5:00 pm	<input type="checkbox"/>	_____
ASPRS Staff Office – 7:30 am – 5:00 pm	<input type="checkbox"/>	_____
Workshops 7:30 am – 5:00 pm	<input type="checkbox"/>	_____
Floater (assist where needed) – 7:30 am – 7:00 pm	<input type="checkbox"/>	_____

Tuesday, September 14

ASPRS Registration Desk – 7:30 am – 5:00 pm	<input type="checkbox"/>	_____
ASPRS Staff Office – 7:30 am – 5:00 pm	<input type="checkbox"/>	_____
Keynote Address – 7:45 am – 10:00 am	<input type="checkbox"/>	_____
Application Showcase – 10:00 am – 11:30 am	<input type="checkbox"/>	_____
ASPRS Exhibit Booth – 10:00 am – 7:00 pm	<input type="checkbox"/>	_____
Technical Sessions – 10:30 am – 5:00 pm	<input type="checkbox"/>	_____
Exhibit Hall Reception – 5:30 pm – 7:00 pm	<input type="checkbox"/>	_____
Floater (assist where needed) – 7:30 am – 7:00 pm	<input type="checkbox"/>	_____

Wednesday, September 15

ASPRS Registration Desk – 7:30 am – 5:00 pm	<input type="checkbox"/>	_____
ASPRS Staff Office – 7:30 am – 5:00 pm	<input type="checkbox"/>	_____
Plenary Session – 8:00 am – 10:00 am	<input type="checkbox"/>	_____
ASPRS Exhibit Booth 10 am – 5:00 pm	<input type="checkbox"/>	_____
Application Showcase 10:00 am – 11:30 am	<input type="checkbox"/>	_____
Technical Sessions – 10:30 am – 5:00 pm	<input type="checkbox"/>	_____
Floater (assist where needed) – 7:30 am – 5:00 pm	<input type="checkbox"/>	_____

Thursday, September 16

ASPRS Registration Desk – 7:30 am – 2:00 pm	<input type="checkbox"/>	_____
ASPRS Staff Office – 8:00 am – 10:00 pm	<input type="checkbox"/>	_____
Plenary Session – 8:15 am – 10:15 am	<input type="checkbox"/>	_____
ASPRS Exhibit Booth – 10:00 am – 4:00 pm	<input type="checkbox"/>	_____
Technical Sessions – 10:30 am – 4:00 pm	<input type="checkbox"/>	_____
Exhibit Hall – 12:00 noon – 1:30 pm	<input type="checkbox"/>	_____
Floater (assist where needed) 7:30 am – 4:00 pm	<input type="checkbox"/>	_____

Notice to Volunteers:

I am aware that there are several mistakes on this form in terms of events and timing. Please do your best to work around these errors by noting what time and events you would prefer to work on this form.

When you have completed the form, please fax it to BOTH of the following numbers:

ASPRS : (301) 608-2699

Monika Moskal : (417) 836-6006

After I receive your form and fit you into the volunteer calendar, I will e-mail you your final schedule at the address provided on this form.

Thanks for your involvement,

Monika Moskal
Volunteer Coordinator
Southwest Missouri State University

(over)

ASPRS 2004 Fall Conference

Register on-line at www.asprs.org/fall2004 or complete this form (type, print clearly, or attach a business card) and return to ASPRS Fall Conference Registration, 9213 Mintwood Street, Silver Spring, MD 20901 (all forms of payment accepted by mail) or fax to 301-608-2699 (Visa, MasterCard, and American Express or purchase orders only).

Personal Information

Preferred first name on badge: _____

Name (please print): _____
First Name All Last Name/Pseudo Name Suffix

Organization Name (if applicable): _____

Street Address: _____

City: _____ State/Province: _____

Zip Code/Postal Code: _____ Country: _____

Business Phone: _____ Home Phone: _____

Business Fax: _____ Email: _____

Emergency Contact Name: _____
optional Emergency Contact Phone: _____

please check the appropriate boxes

Affiliation

☐ ASPRS Member (# _____) Current membership status will be verified.

☐ Non-Member

Member Registration Fees

	Through August 23, 2004	After August 23, 2004
<input type="checkbox"/> Full	\$360	\$460
<input type="checkbox"/> Student	\$70	\$90
<input type="checkbox"/> Spouse/Guest	\$45	\$45
<input type="checkbox"/> Daily, Date: _____	\$180	\$240
<input type="checkbox"/> Speaker	\$150	\$200

Non-Member Registration Fees

	Through August 23, 2004	After August 23, 2004
<input type="checkbox"/> Full	\$460	\$560
<input type="checkbox"/> Student	\$85	\$110
<input type="checkbox"/> Spouse/Guest	\$45	\$45
<input type="checkbox"/> Daily, Date: _____	\$200	\$240
<input type="checkbox"/> Speaker	\$250	\$300

Workshop Fees (not included in registration fee)

	Member	Non-Member
<input type="checkbox"/> Workshop 1—Sunday*	\$150	\$250
<input type="checkbox"/> Workshop 2—Sunday*	\$150	\$250
<input type="checkbox"/> Workshop 3—Sunday	\$195	\$295
<input type="checkbox"/> Workshop 4—Monday	\$195	\$295
<input type="checkbox"/> Workshop 5—Monday	\$195	\$295
<input type="checkbox"/> Workshop 6—Monday*	\$150	\$250
<input type="checkbox"/> Workshop 7—Monday*	\$150	\$250
<input type="checkbox"/> Workshop 8—Monday*	\$150	\$250

*denotes a half day workshop.

Spouse/Guest Name: _____
(if attending)

Demonstration Tutorials (included in registration fee)

- ☐ Session 1—Advanced Tutorial, 8:00 am to 9:15 am
☐ Session 2—Introductory Tutorial, 8:00 am to 9:15 am
☐ Session 3—Advanced Tutorial, 9:30 am to 10:45 am
☐ Session 4—Introductory Tutorial, 9:30 am to 10:45 am
☐ Session 5—Advanced Tutorial, 11:00 am to 12:15 pm
☐ Session 6—Introductory Tutorial, 11:00 am to 12:15 pm
☐ Session 7—Advanced Tutorial, 1:00 pm to 2:15 pm
☐ Session 8—Introductory Tutorial, 1:00 pm to 2:15 pm
☐ Session 9—Advanced Tutorial, 2:30 pm to 3:45 pm
☐ Session 10—Introductory Tutorial, 2:30 pm to 3:45 pm

**please check the Tutorial(s) you plan to attend.*

Baseball Tickets _____ @ \$12 = _____

Method of Payment (Full payment must accompany this form.)

- ☐ Check (make payable to ASPRS Fall 2004 Conference, print attendee name on check)
☐ Purchase Order # _____ (government and university only)

☐ Visa ☐ MasterCard ☐ American Express

Name on Credit Card _____

Credit Card Account Number _____ Expires (Month/Year) _____

Cardholder Signature _____ Date _____

Payments must be made in US dollars drawn on a US bank or appropriate credit card. Make checks payable to ASPRS 2004 Fall Conference, and print attendee name on check.

\$ _____
 Total Amount Enclosed



2004
ASPRS Fall Conference
Sept. 12 - 16
in
Kansas City, Mo.

.....October 5, 2003.....Chiefs...24.....Broncos...23.....



Western Air Maps, Inc.

Overland Park, Kansas

1-800-643-5177

www.westernair.com

Classifieds

The Region Board of Directors has created a Classifieds section in the newsletter. Region members seeking to hire or to be hired should send information to the Newsletter editor.

Phil Rufe
USGS—MCMC MS706
1400 Independence Rd
Rolla MO 65401
prufe@usgs.gov
(573) 308-3540

The Central Region thanks Western Air Maps for being the first donor to the new Central Region Corporate Scholarship Fund.

Donors Wanted for a Central Region Corporate Scholarship. The Board awarded two scholarships in 2003 and would like to continue this practice in future years. However, the principal in the Gene Lortz Scholarship Fund is sufficient to sustain one scholarship only. We would like to ask corporate members to consider donating to fund a new Central Region Corporate Scholarship to support students and future professionals in our region. Please contact our treasurer if you are interested in making a donation.

Jerry Wagner
USGS—MCMC MS 509
1400 Independence Rd
Rolla MO 65401

jwagner@usgs.gov
(573) 308-3764

***We're
on our
way!***

Donors Wanted for the Francis E. 'Gene' Scholarship: The Board awarded two scholarships this year and would like to continue this practice in future years. However, the principal in the scholarship fund is insufficient to sustain the current level and number of awards. We would like to ask our members to consider donating to this fund to support students and future professionals in our region. Please contact our treasurer if you are interested in making a donation.

Jerry Wagner
USGS—MCMC MS 444
1400 Independence Rd
Rolla MO 65401

jwagner@usgs.gov
(573) 308-3764

**Advertise
in this
Newsletter!**

This newsletter is circulated to 120+ professionals, academics, and students in the Central Region. Rates are \$75.00 to run an ad in six issues of the newsletter. Graphics can be displayed. Color graphics can be displayed in the electronic version. The printed version is black and white. Revenue from advertising will be used to fund scholarships. If you would like to place an advertisement in this newsletter, please contact the Newsletter Editor at:

Phil Rufe
USGS-MCMC MS 706
1400 Independence Rd
Rolla, MO 65401
ph (573) 308-3540
fax (573) 308-3652
prufe@usgs.gov



ASPRS Fall Conference 2004 Take Me Out To The Ball Game



Vs.



**Monday September 13th, 7:10 pm
The Kansas City Royals take on
the New York Yankees
at Kauffman Stadium**



**We have 100 reserved tickets to the game, Tickets are \$12
Kincaid Bus service from the Hyatt Regency to the game and
return service will be provided by
Aerial Data Service and Western Air Maps, Inc.**



**The bus will leave the Hyatt at 5:30 pm
The game starts at 7:10 pm
Tailgating before the game in parking Lot N, Spot 45-F
Provided by Intergraph**

INTERGRAPH
Catered by:



ASPRS CENTRAL REGION

USGS-MCMC MS 706
1400 Independence Rd
Rolla MO 65401

Phone: 573-308-3540
Fax: 573-308-3652
Email: prufe@usgs.gov



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Society*

We're on the web!
www.rollanet.org/~aspra/



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Digital Orthophotography · GIS · Film Processing*



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