OUTREACH EVENT REPORT AND RECOMMENDATIONS

Attendee's Name: Joseph Kerski Title: Cartographer, PM

Location: Colorado Convention Center, Denver CO

Other Attendees:

Mary Wadding, USGS - RMMC - IS Laurie Jasso, USGS - RMMC - IS Gary Nebeker, USGS - RMMC - IS Karen Eberhardt, USGS - RMMC - IS Peter Modreski - USGS - CR GD Diane Stephens - USGS - RMMC

Heidi Koehler – USGS CR

Stephen Vandas – USGS – CR WRD

John Keith - USGS - HQ - GD Martha Kiger - USGS - HQ - GD

+ numerous other USGS staffpersons from CR and HQ

Meeting Date(s): 22-27 October 1999

Purpose of Event: 1999 Geological Society of America (GSA) conference

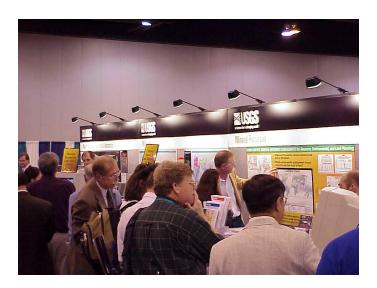
Summary:

This was one of the most successful outreach events that the USGS has participated in, in terms of the number of activities in which we were involved, and in terms of the variety of USGS staffpersons who supported this event. Activities included:

- 1) Educational workshop conducted by Joseph Kerski and Pete Modreski, Saturday.
- 2) Tour for GSA educators of USGS, Friday.
- 3) Tours for GSA attendees of USGS mapping center, ice core lab, core research center, and water quality lab, Tuesday and Wednesday, conducted by Joseph and Pete.
- 4) Participation in "Share A Thon" for teachers, Monday evening, conducted by Joseph and Steve.
- 5) Media coverage included newspaper and television, thanks to the efforts of Heidi and Diane
- 6) Six USGS exhibits in a row (see photographs below) with 2 across the aisle from the earthquake and landslide information centers. This was incredibly effective in conveying the seamless nature of the USGS and my admiration extends to Martha Kiger and the other HQ folks who were instrumental in setting this up and creating all the graphics. It was a pleasure to work with the USGS staff from the Central Region and from HQ. It is notable that although our exhibit was at the rear of the convention hall, it was consistently busy, one of the busiest non-educational conferences I have worked, from Sunday through closing time on Wednesday evening.



The USGS "boulevard" – excellent, seamless row of exhibits, looking north.



USGS exhibit, looking south.



Earthquake exhibit across from the other USGS exhibits, which even featured a webcam!



Satisfied customers browse Landsat 7 images of Denver at the USGS exhibit.

Recommendations:

- 1) This conference showed once again the value of multiple divisions of the USGS working together to conduct a successful conference. GSA is a conference where the bulk of the attendees know about us, but as a traditional core customer, they can be a powerful ally for the USGS. Chip Groat and Gordon Eaton both stopped by our exhibit and had positive comments. A substantial number of GSA members and attendees have an interest in geochemistry and biological sciences. For that reason, I recommend that we obtain some materials and demonstrations prepared by BRD for future conferences of this type.
- 2) The RMMC C&R and outreach programs should invest in at least 2 sets of speakers that can be wired to a laptop to display sound. Many USGS presentations now include sound, which is not loud enough or of sufficient quality for illustrating with the built-in speakers that come with the

laptop computers. These speakers are fairly inexpensive and would enhance the quality of our presentations enormously.

3) The addition of several new USGS professional papers, circulars, and bulletins pertaining to the geographic area and to the attendees greatly enhances our exhibit presentation, and should always be included in a list of items displayed at conferences. It would be ideal if the outreach staffpersons were made aware of these excellent resources by some other means than seeing them for the first time at a conference. Perhaps someone could scan the "new pubs" list and notify the outreach staffers of the most pertinent ones to display and highlight.

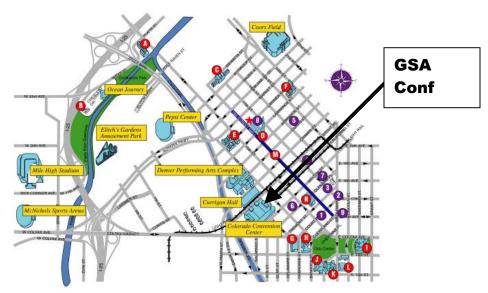
Reasons for attending:

- 1) As the nation's largest scientific organization, the USGS can and has provided great input to the geoscience community, in terms of research, digital data and other products and services, technical support, and education.
- 2) The value-added in our involvement with the lifelong learning aspect of educational outreach is that we work with educators to demonstrate how our products can be used in conjunction with national science standards. It is not enough simply to tell which products are available. Teachers already know how to find resources and they have a great deal of material. When we get involved with teachers--getting their input and working with them--we can understand how to best meet their needs.

Outreach plan follows. Materials may not reflect final documents brought to conference.

Outreach Plan for 1999 Geological Society of America Conference

Location: Colorado Convention Center



Type of Event: National science conference.

RMMC attendees: Joseph Kerski, Mary Wadding, Gary Nebeker, Karen Eberhardt, Laurie Jasso Other NMD attendees:

Other CR attendees: Pete Modreski (GD)

Outreach focus areas covered by this event:

- (1) Intergovernmental Relations (30%)
- (2) Nongovernment/Industry Relations (50%)
- (3) Education (20%)

Audience:

Core customers: geologists, planners, engineers, and other scientists in wastewater treatment, geochemistry, environmental science, hydrology, mining, GIS, satellite imaging, land use.

Non-core customers: Educators, businesspeople; private geology, mapping, GIS, and remote sensing companies.

Personnel required: Experience working with the public, and knowledgeable about:

- (1) Digital data availability, types, and applications.
- (2) Use of USGS digital data with GIS and remote sensing software.
- (3) USGS products and services with emphasis on geologic data, hydrologic data, satellite images, digital imagery, photography, digital cartographic data.

USGS activities at conference:

- (1) Conduct K-12 workshop for teachers (Joseph Kerski & Pete Modreski)
- (2) Operate USGS exhibits.
- (3) Conduct 2 Tours of Building 810

Schedule for 1999 GSA Conference					
	Gray Shade = Exhibit Hall Open			Open	
Time	Saturday 23 Oct 1999	Sunday 24 Oct 1999	Monday 25 Oct 1999	Tuesday 26 Oct 1999	Wednesday 27 Oct 1999
8 – 9	<i>Workshop:</i> Kerski	Set up			
9 –10	<i>Workshop:</i> Kerski	Set up: Bldg 810	Eberhardt Kerski	Jasso Kerski	Eberhardt Kerski

		Jasso Kerski Wadding	Wadding	Wadding	Wadding
10 -11	<i>Workshop:</i> Kerski	Set up: Conv Center Jasso Kerski Wadding	Eberhardt Kerski Wadding	Jasso Kerski Wadding	Eberhardt Kerski Wadding
11-12	Workshop: Kerski	Set up Jasso Kerski Wadding	Eberhardt Kerski Wadding	Jasso Kerski Nebeker Wadding	Eberhardt Kerski Nebeker Wadding
12 –1	<i>Workshop:</i> Kerski	Set up Jasso Kerski Wadding	Eberhardt Kerski Wadding	Jasso Nebeker Wadding USGS Tour: Kerski	Eberhardt Nebeker Wadding <i>USGS Tour:</i> Kerski
1 –2	set up	Set up Jasso Kerski Wadding	Eberhardt Kerski Wadding	Jasso Nebeker Wadding <i>USGS Tour:</i> Kerski	Eberhardt Nebeker Wadding <i>USGS Tour:</i> Kerski
2-3	Set up	Set up Jasso Kerski Wadding	Eberhardt Kerski Wadding	Jasso Nebeker Wadding USGS Tour: Kerski	Eberhardt Nebeker Wadding <i>USGS Tour:</i> Kerski
3 – 4	set up	Set up Jasso Kerski Wadding	Eberhardt Nebeker Wadding	Jasso Nebeker Wadding USGS Tour: Kerski	Eberhardt Nebeker Wadding USGS Tour: Kerski
4 – 5	set up	Set up Jasso Kerski Wadding	Eberhardt Wadding <i>ShareAThon</i> Kerski	Jasso Nebeker Wadding <i>USGS Tour:</i> Kerski	Tear-Down Eberhardt Nebeker Wadding USGS Tour: Kerski
5 – 6		Exhibit: Jasso	ShareAThon Kerski		<i>Tear-Down</i> Eberhardt

	Kerski Wadding	Kerski Nebeker Wadding
6 – 7	Exhibit: Jasso Kerski Wadding	Tear-Down Eberhardt Kerski Nebeker Wadding
7 - 8	Exhibit: Jasso Kerski Wadding [close at 7:30]	

Set Up:

Set up times are Sat, 8 - 5 and Sun., 8 - 2. Martha Kiger and another HQ staffperson will arrive in Denver Sat. am to assemble the pop-up structures Sat. afternoon. They request us on Sunday to place our display graphics and materials on the panels and counters. **Do not permit the convention center union staff to assist with carrying in the items to our booth – we will be heavily charged for this!**

Booth Numbers:

NMD sales, research, and GIS -- 561 WRD -- 559 Energy -- 555 Minerals -- 557 Great Lakes -- 551 Hazards -- 558 & 560 GD general -- 553

Action Items:

All: Recommend materials

All: Stage materials

All: Take materials to Convention Center

Joseph: Secure laptop
Bill: Plot posters

All: Arrange materials for backdrop

Joseph: Plot materials Mary: Order materials

Joseph: Process data for ArcView and DDS demos
Joseph: Arrange PowerPoint demos
David/Lisa: Plot status graphics; posters and page size
Mary: Arrange for sales.

Display items that USGS will take:

Laptop computer

1 for Joseph's workshop and for exhibit booth

with ArcView applications of USGS data

Colorado and Utah: Sugar House digital data layers CDs: DOQ, DRG, 1:2M DLG, presentations disk

1

PowerPoint slide shows

WWW: WebGLIS, Greenwood, availability Powder River Basin WY 3D data set Great Basin Geoscience Data Base set

For Backdrop:

Mt St Helens DEM Front Range Infrastructure Decision Support System 22

Materials To Sell [ideas]:

Colorado Geologic Map (Tweto) 50 Digital Landforms of USA 50 Historical Trails of Denver 50 Lake Tahoe 3D 25 Geology of USA 40 This Dynamic Earth book 50 This Dynamic Planet map 50 Earthquakes of CA and NV 25 Principal Aquifers – National Atlas 150 Hydrologic Units – National Atlas 150 The Quality of Our Nations Waters 150

Materials to Order

Bulletins

B2056 Geologic Studies in the Colorado Plateau	1
B-1864 Geology of the Mount Aetna volcanic center, CO 1	
B-2127 Mineral resource potential & geology	
of the San Juan Nat. Forest, CO	1
B-2162 Colorado Yule Marble-building stone of the Lincoln	
Memorial	1

Professional Papers

P1311AC Manti Landslide Nature to Be Commanded	1 1
Circulars	
C 913 Water-Level Changes in the Great Salt Lake 1 Water Quality in the South Platte C1225 The Quality of Our Nation's WaterNutrients and Pesticid Circ 1200 Estimated Use of Water in the United States in 1995 Circ 1139 Ground Water and Surface WaterA Single Resource	50
Teacher's Packets:	
Exploring Maps Exploring Caves Global Change 100	100 75
Land and People Map Adventures 75 Volcanoes	75 200
What Do Maps Show? 100	
Water Posters:	
Ground Water – Middle School Ground Water – Grade School	75 75
Fact Sheets / OFRs:	
Abandoned Mine Lands CD-ROM list Central Region Sources of Information [Joseph has] Colorado USGS Publications [Joseph has] Digital Elevation Models	100 50 400 350 200
Digital Licyation Models	
Digital Line Graphs Digital Orthophotoquads Digital Raster Graphics	200 300 300 300
Digital Line Graphs Digital Orthophotoquads Digital Raster Graphics Educational Materials from the USGS USGS Information Sources Fact Sheet List Flat Order Form #67-0032 for ordering Stream Corridor Restor	300 300 300 300 100 ration:
Digital Line Graphs Digital Orthophotoquads Digital Raster Graphics Educational Materials from the USGS USGS Information Sources Fact Sheet List Flat Order Form #67-0032 for ordering Stream Corridor Restor Principles, Processes, and Practices	300 300 300 300 100 ration:) 250 250 250
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FS-116-99 The quality of Our I Front Range Infrastructure GIP list	Nations Waters	100	50 100	
GLIS GNIS How to Obtain Aerial Photogra Map Dealer List for Colorado Middle Rio Grande		300	300 50 50 100 75	
USGS GeoData Products Order USGS Maps and Books order USGS activities in Colorado	CO Catalog of Topographic and Other Published Maps			
WWW Information Sheet FS 0 5 map indexes for each of the AZ CA ID MT NM NV U	following states:	250+	250 250	
USGS GeoCenter	[Joseph has]		50	
GIPs:				
Aerial Photographs and Satelli Dinosaurs: Facts and Fiction Earthquakes Earth Science Field Corps	ite Images	200	50 200 40	
Earthquakes 94-0050 Finding Your Way With Map a	•	200 50		50
Fossils, Rocks, and Time 94-0 Fossils Through Time Geographic Information System		200	200+ 50	50
Gold Landsat historical comparisons	s Joseph	n has	100 20	
Map Projections - folded Mountains and Plains: Denvel Our Changing Continent River Basins of the United Sta Topographic Map Symbols Sh USGS: Unbiased science - Jos USGS Making A Difference - J USGS Maps	tes: The Colorado eets seph has	200+	100 300 50 40 100 10	
Volcanoes 94-0195 Volcanoes of the United States	s		200+ 100	100
OFR 99-153 Research in Deat Maps:			1	
UT-1582 Great Salt Lake & Vio Ground Water Atlas of the US		UT.	1 10	
Digital Data - on CD:				
Denver East and West DRG	[already have]		1	

Other

USGS bags		400
Landsat bookmarks [Joseph has]		100
AK DEM Map postcard [Joseph has]	200	

Outline for K-12 Workshop: Saturday 23 Oct 1999

Facilitators: Joseph Kerski and Pete Modreski

Goals: ◆ To inform teachers about the use of USGS products and services in standards-based K-12 education, particularly geography and geology, including educational technology. The participating teachers will receive large numbers of maps, posters, and other materials.

I. What is the US Geological Survey (USGS)? 5 min

4-fold mission: ♦ earth science ♦ biology ♦ water resources ♦ mapping facilities in Denver: Earthquake Center, Mapping Center, Water Resources offices, biologic and geologic offices

- II. What is the Educational Outreach Program of the USGS? 5 min
 - displays at outreach events
 - development of lesson modules and resources
 - geographic information systems implementation
 - educational publications
 - regular publications and products that can be used for K-12 education
- III. Teaching Standards-Based Geography and Geology with USGS Resources 30 min
 - earth science mysteries
 - topographic maps
 - thematic maps
 - posters
 - bulletins
 - professional papers
 - circulars
 - general interest publications
 - fact sheets
 - other
- IV. Sample lessons with USGS resources 2 hours
 - Map Mysteries (Joseph)
 - Pete activities
- V. Educational Technology 45 min
 - Global Positioning Systems
 - Internet
 - Geographic Information Systems

Materials to Distribute at Workshop:

Digital Data

DDS-CDs (display only) DRG CD-ROMs Topographic Map Field Trip CD-ROMs

Fact Sheets

Digital Elevation Models
Digital Line Graphs
Digital Orthophotoquads
Digital Products Online
Digital Raster Graphics
US GeoData Available Over the Internet

US GeoData Available Over the

USGS WWW Sites

GIPs

Aerial Photographs and Satellite Images GIS USGS Maps Map Projections - folded Topo Map Symbols Sheets

Information Sheets

Best of USGS Education Resources Fact Sheet List GIP List

CD-ROM list

Product Information Sheet

Video Lists (3)

Map Mysteries Questions

Maps

Mt St Helens

Misc Thematic Maps Misc Topographic Maps

Miscellaneous

USGS bags

Natural Hazards Posters

Teachers Packets

Global Change Map Adventures What Do Maps Show? Volcanoes

Monday, October 25

Kerski, Modreski
Earth Science Share-a-Thon,
Educators and PEP Members Social Hour, and
Rock Raffle

Monday, October 25, 4–5:30 p.m. Simultaneously.

An opportunity to connect with fellow educators outside of technical sessions, share resources and maybe take home a rock or two. To make this event a success, we invite you to bring your classroom resources and ideas to contribute to the Share-a-thon.

TOUR OF THE U.S. GEOLOGICAL SURVEY MAPPING AND GEOLOGIC FACILITIES, DENVER FEDERAL CENTER

FIELD TRIP #15a
October 26, 1999
MAX # 0

MAX # OF PARTICIPANTS 24
MIN # OF PARTICIPANTS -

COST: **\$15.00**

LEADER: Pete Modreski, U.S. Geological Survey, MS 915, Box 25046 Federal

Center, Denver CO 80225, phone 303-236-5639, home 303-425-9549, fax

303-236-5348, email pmodresk@usgs.gov

CO-LEADER: Joseph Kerski, USGS, MS 507, Box 25046 Federal Center, Denver

CO 80225, phone 303-202-4315, fax 303-202-4137, email

jjkerski@usgs.gov

DEPARTURE: Tuesday, October 26, 12:30 p.m., Colorado Convention Center, Lobby

B, GSA Field Trip Check-in Desk. Please check-in at 12:00 noon so we

can depart promptly at 12:30.

ITINERARY: 12:30-1:00 Bus trip to Denver Federal Center, located in Lakewood CO,

6th Ave. and Kipling St. (approx. 8 mi. west of Denver). Participants will be divided into three groups each of which will tour in turn:

1:00-2:00 USGS Core Research Center and National Ice Core

Laboratory (Bldg. 810)

2:00-3:00 USGS Rocky Mountain Mapping Center (Bldg. 810) 3:00-4:00 USGS National Water Quality Laboratory (Bldg. 95)

4:30-5:00 Return trip to Colorado Convention Center

COST INCLUDES: Bus transportation and assorted free brochures. No lunch or

refreshments will be provided.

SPECIAL INSTRUCTIONS: If participants wish to tour the cold room (-36° C) at the

Ice Core Laboratory they must wear solid-toe shoes (no sandals) and bring a jacket or coat. There will be limited time to purchase a few maps & publications at USGS Map Sales (cash, check, or credit card accepted; closes at 4:00 p.m.; complicated orders should be placed later

by phone, fax, or mail order).

CANCELLATION: Must be made in writing and received by the Registration

Coordinator, GSA Headquarters, P.O. Box 9140, Boulder CO 80301-9140, (303) 447-2020, by September 24, 1999 to qualify

for a refund. NO refunds for cancellation notices received after this date. Refunds will be processed as soon as possible after the meeting.

TOUR OF THE U.S. GEOLOGICAL SURVEY MAPPING AND GEOLOGIC FACILITIES, DENVER FEDERAL CENTER

FIELD TRIP #15b October 27, 1999 COST: \$15.00
MAX # OF PARTICIPANTS 24
MIN # OF PARTICIPANTS -

LEADER: Pete Modreski, U.S. Geological Survey, MS 915, Box 25046 Federal

Center, Denver CO 80225, phone 303-236-5639, home 303-425-9549, fax

303-236-5348, email pmodresk@usgs.gov

CO-LEADER: Joseph Kerski, USGS, MS 507, Box 25046 Federal Center, Denver

CO 80225, phone 303-202-4315, fax 303-202-4137, email

jjkerski@usgs.gov

DEPARTURE: Wednesday, October 27, 12:30 p.m., Colorado Convention Center,

Lobby B, GSA Field Trip Check-in Desk. Please check-in at 12:00 noon

so we can depart promptly at 12:30.

ITINERARY: 12:30-1:00 Bus trip to Denver Federal Center, located in Lakewood CO,

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end

end of report