

OUTREACH – EDUCATION EVENT REPORT AND RECOMMENDATIONS

Attendee and Report Writer's Name:

Joseph Kerski, Geographer.

Education/GIS, Denver, Colorado.

Event: Spatial Data and GIS Workshop for
Petroleum Technology Transfer Council
Program, Colorado School of Mines

Location: Colorado School of Mines,
Golden, Colorado

Event Date(s): 14 January 2004

I conducted a GIS and spatial data workshop for the Petroleum Technology Transfer Council (PTTC). The PTTC benefits the nation by helping U.S. independent oil and natural gas producers make timely, informed technology decisions.

The PTTC was formed in 1994 by the U.S. oil and natural gas exploration and production industry to identify and transfer upstream technologies to domestic producers. PTTC's technology programs help producers reduce costs, improve operating efficiency, increase ultimate recovery, enhance environmental compliance, and add new reserves. PTTC is an industry-directed, regionally-focused not-for-profit organization with programs that meet the technology needs of its primary customers—independent producers. Independents face technology decisions every day, such as whether to address an opportunity or problem with technology, what solution to use, whether it is cost effective, and how to use it. In serving as the independent producer's "Bridge to Solutions,"

PTTC fulfills three roles:

First, it helps identify and clarify producers' problems and makes them aware of technology opportunities.

Second, it educates producers about technology options.

Third, it connects producers to these solutions.

Through its 10 regions, PTTC offers expert assistance, information resources, interdisciplinary referrals, and demonstrations of E&P software. Technology workshops, currently well above 100 per year, cover the full spectrum of PTTC's five program lines: (1) exploration, (2) drilling and completion, (3) development and reservoir, (4) operations and production, and (5) environmental issues.



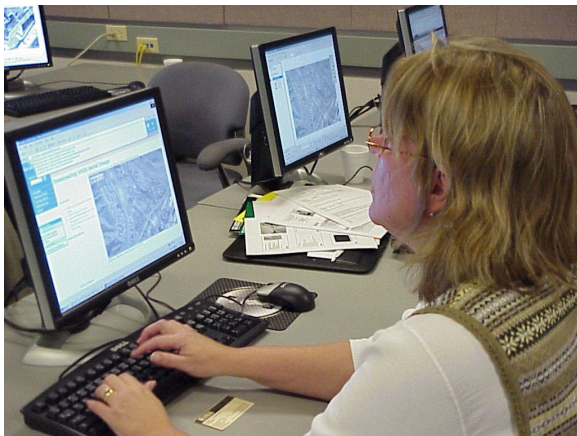
The Regional Lead Organization (RLO) for the Rocky Mountain Region is the Department of Geological Engineering, Colorado School of Mines. Their web site is pttcrockies.org. This course was part of a workshop series called the "Low Cost Software Fair." I have taught numerous teacher-enhancement courses here over the past 10 years, and have been on campus for two USGS open houses that we ran at the USGS Earthquake Center, for the Science Olympiad, career fairs, and for the

GIS in the Rockies conference.

Although PTTC does not perform or fund research and development projects, it identifies producers' technical problems and communicates them to the R&D community. PTTC also provides valuable services to technology solution providers, by making them more aware of the needs of independent oil and gas producers. This group includes service and supply companies, vendors, technical consultants, government R&D programs, national labs, academia, professional societies, and others.



Course participants included oil and gas industry, and others in science and engineering.



By conducting this training, we sought to further our work with the Colorado

geospatial and technology community.



We had many top scientists and engineers in the course, and it was a pleasure to work with them.



We structured the class as follows:

- A. What is GIS and why use it (brief, since many were aware of GIS or were CAD users).
- B. USGS base spatial data sets and where and how to obtain, download, and format them for a GIS;
- C. Using Spatial Analyst and 3D Analyst, visualizing terrains;
- D. Querying vector and raster data to make real-world decisions.

I distributed my own GIS-based lessons, USGS information booklets, information about spatial data, information about GIS, and information about upcoming GIS-related events.

The USGS has a wealth of data sets, programs, and research efforts that this audience was interested in, particularly our digital data sets, and training that we conduct.

Acknowledgements

I would like to thank the PTTC for the privilege of working with their program, and the USGS for its support in allowing me to conduct this workshop.

*** End of PTTC Training Report ***