

REGISTRATION FORM

If attending convention, please use the registration form received in the convention packet. **Or**

If attending Short Course only, complete this form and return to:

RMCMCI
8057 S. Yukon Way
Littleton, Colorado 80128-5510

You may go on line at www.rmcmi.org and go to meetings to find the Convention Registration Brochure.

Name _____

Company _____

Title _____

Address _____

City _____

State, Zip _____

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Enclosed is fee for Short Course:
\$550 if attending RMCMCI convention
(Return with RMCMCI registration form.)
\$600 if not convention registered.

CHECK # _____ VISA MC AMEX

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Expiry Date _____ Authorized payment \$ _____

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Visit our web site at www.rmcmi.org for more information on the convention.
You may also register on the web and receive a credit card receipt immediately.



**THE ROCKY MOUNTAIN
COAL MINING INSTITUTE**
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**THE ROCKY MOUNTAIN
COAL MINING INSTITUTE**

2006 SHORT COURSE

Prior to the RMCMCI 102nd
Regular Meeting and Convention

SurvCADD 2006 Training Agenda

Friday and Saturday
June 23-24, 2006
Sheraton Resort
Steamboat Springs, Colorado
7:30 a.m. to 5:00 p.m.



ABOUT THIS COURSE:

SurvCADD® is software useful for a wide range of applications including geologic modeling and mine planning for both underground and surface applications. It runs with AutoCAD® which serves as the graphics engine and drawing editor. Essentially, SurvCADD® is an extension of AutoCAD® that customizes AutoCAD® for application specific commands and enhancements. Geologic modeling capabilities and the Mining and Advanced Mining modules are capabilities of SurvCADD® which have many applications to problems dealt with by Rocky Mountain Coal Mining Institute members.

Those who plan on attending the short course will need a personal laptop computer with a Windows® operating system. In addition, participants will need fully functional AutoCAD® software and "administrator" access to the computer. SurvCADD® will operate with a number of AutoCAD® releases, but for this course ACAD 2004® or later is strongly recommended. Each participant will be provided with an evaluation copy of SurvCADD® software which will be installed during the first session of the course. Access to the software will continue for fixed number of log-ons following the course.

Instructors: Steve Richards and Grant Wenker

Mining Sales/Support – Carlson Software

First Day - Morning Session **SURVCADD FUNDAMENTALS**

8:00 – 11:30 am

What is SurvCADD 2006®?

Overview of the Basic 3 modules

- COGO/Design
- DTM/Contour
- Section/Profile

Six primary drop down menus & drafting tools

- FILE
- EDIT
- VIEW
- DRAW
- NQ/SET
- POINTS

Configuration

- Saving Configuration settings

Project Set-Up

- Setting the default directory

Drawing/Drafting aids

- Extend Features
- Polyline Utilities
- Join Nearest
- 3D Viewer Window
- Twist Screen
- Layer Manipulation
- Write Block
- WMFOUT

Drawing Tools

- AutoCAD® Polyline vs. SurvCADD® Polyline
- Line vs. Polyline vs. 3D Polyline Sequential Number
- Boundary Polyline (ours and theirs)
- Shrink Wrap Entities
- Making Inquiries – Drawing Inspector

Points

- Coordinate File Utilities
- Point Manipulation
- Point Attribute Manipulation
- Linking Points/Text/Lines in Drawing to CRD File

First Day - Afternoon Session **GEOLOGIC MODELING BASICS**

1:00 – 5:00 pm

Importing Drillhole Data

- Preparing Drillhole Data for import into SurvCADD® and using the various data verification tools in SurvCADD® to ensure the data are correct in SurvCADD®.
- Using the Drillhole Data to Create Logs
- Isopachs, and Fence Diagrams
- Creating Grids and Basic Modeling
- Discussion of the 5 Different Gridding Algorithms, what to expect from Grids
- Grid Inspector, Gridding Error
- Building the Pre-Calc Grid

Second Day - Morning Session **SURFACE MINING BASICS**

8:00 – 11:30 am

- Laying out Pits
- Setting Productivity Rates

- Building a Calendar
- Scheduling Production

Second Day - Afternoon Session **UNDERGROUND MINING BASICS**

1:00 – 5:00pm

- Laying out Panels
- Setting Productivity Rates
- Building a Calendar
- Scheduling Production

Question / Answer period and wrap-up

INSTRUCTORS:

Steve Richards

The primary instructor for the course is Mr. Steve Richards, Technical Services Manager for Carlson Software, Inc. Steve graduated from Virginia Tech in 1975 with a BS in Mining Engineering. Steve also has an MBA from the University of Charleston, and MS in Engineering Management from Marshall University. He began working for Bethlehem Mines Corporation in Kayford, WV. He held several operations and engineering positions with Bethlehem Mines Corporation, Island Creek Coal Corporation, Zeigler Coal Holding Corporation, and A. T. Massey Coal Company over his 25 years directly working for coal companies.

Grant Wenker

Grant's main duties on the job at Carlson include demonstrating, developing, training, and sales. He sells software for mining, engineering and surveying applications and provides GPS grade control demonstrations, and hardware setup when needed. He is Director of the Rocky Mountain division of Carlson Software. Expertise in other products includes data collection, drillhole management, and E-Logs.

He has degrees from South Dakota School of Mines and Technology (SDSM&T) and a Master of Science in Geological Engineering (1995).

MEALS:

A full breakfast and lunch, as well as breaks, will be served on both Friday and Saturday.