



Joint Utility Training School

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Training Today for Tomorrow

37th Annual

Joint Utility Training School

January 17-18-19, 2012

Ramkota Inn - Sioux Falls, SD

**37th Annual
Joint Utility Training School
January 17-18-19, 2012
Ramkota Inn, Sioux Falls, SD**

REGISTRATION FEE
\$200 per student – PREPAID

GENERAL SESSION: DEFINING SAFETY

1. LEADING TEAMS AND MANAGING TEAMWORK
2. TRANSFORMER CONNECTIONS
3. OPERATIONS AND SAFETY
4. FIELD OPERATIONS/TECHNICAL SUPPORT
5. SIEMENS REGULATORS
6. MANAGING RISK IN THE UTILITY INDUSTRY
7. SUBSTATION MAINTENANCE
8. COMPUTER TECH COURSES

Some sessions have limited enrollment, so make your reservations as soon as possible.

Please submit registration form with payment.

Make checks payable to: **Joint Utility Training School.**

Refunds and changes in registrations will be allowed to January 11, 2012.

Send check and registration form to: **JUTS, ATTN: JAY, 101 N 3rd St. Beresford SD 57004.**

SESSIONS PROGRAM INFORMATION

Each session is designed as a 12-hour mini-course. Registration will be for one session only per individual. You will remain in that session for the entire length of the course. Certificates will be sent to your respective company if attendance has been continuous.

To obtain continuing education credit for sessions that qualify, a copy of your completion certificate must be sent to: SD Electrical Commission, 308 S. Pierre St, C/O 1320 E. Sioux Ave. Pierre, SD 57501.

REGISTRATION

Tuesday - January 17, 2012
10:00 a.m. to 1 pm.
\$200 per person

Pre-paid registration will include: Vendor Show Tuesday from 5:00 to 7:30 P.M., breakfast on Wednesday and Thursday morning at 6:30 a.m. - 7:30 a.m. in the Exhibit Hall and a noon meal on Wednesday in the Exhibit Hall.

LUNCHEON

Wednesday - January 18, 2012 12:00 noon to 1:00 p.m.

Mini-courses will be:
Tuesday General Session 1:00 p.m.-5:00 p.m.
Wednesday 8:00 a.m.-5:00 p.m.
Thursday 8:00 a.m.-12:00 noon

GENERAL SESSION

Washington Room

Tuesday, January 18
1 p.m. to 5:00 p.m.

DEFINING SAFETY

Eddie and Lisa Black Accidents and Your Family

Eddie and Lisa Black have a unique story to tell. Since his electrical accident in 1981 that left him without both hands, Eddie and Lisa have become the strongest advocates for safety. Eddie is now the Safety Team Leader for South Kentucky RECC where he has worked since 1976. He and Lisa travel to co-ops, businesses and other places to tell their story and hopefully make people think more about being safe. Married since 1977, Eddie and Lisa have two sons.



Dr. Ryan Van Zee has been the Director of the Center for Entrepreneurial Leadership and Innovation at the University of Sioux Falls and Entrepreneurial Studies since the program began in 2008. He has written or co-written 18 courses at the University and has developed the curriculum for the minor in the undergraduate Entrepreneurial Studies Program, the Major in the Degree Completion Program and the emphasis in the Masters of Business Administration Program. Dr. Van Zee has served as the founder/CEO of Academic Improvement Corporation since 2006. Dr. Ryan Van Zee has years of experience as a high school principal and coach as well as a business teacher in Bakersfield, California. He served as a ground man for Northwestern Electric in Armour, S.D. for two summers. His accomplishments were unremarkable.

He received his Bachelor of Science degree from Northern State University; his Master of Arts degree from California State University at Bakersfield; and his Doctoral degree from

the University of South Dakota. He currently teaches Innovation and Problem Solving, Entrepreneurial Teams, Human Resources, Philosophy and English.

Presentation Outline

Mindset

- I. Intentional Action
- II. SMART Goals
- III. Motivation Principles
- IV. Practiced Success
- V. Decisive Action

Coordinator: Terry Ebright

SESSION I

CONFERENCE ROOM 3

LEADING TEAMS AND MANAGING TEAMWORK

General Session

Tuesday January 18, 1:00 pm – 5:00 pm

MANAGING DIFFICULT PEOPLE AND BUILDING TEAMWORK

Wednesday, 8:00 a.m. - 5:00 p.m.

Thursday, 8:00 a.m. - 12:00 noon

Whether you work in the office or in the field, this session is guaranteed to be fun and useful for you!

MANAGING DIFFICULT PEOPLE AND BUILDING TEAMWORK

Whether you work in the office or in the field, this session is guaranteed to be fun and useful for you! We offer a different approach and a fresh look at some challenging topics.

As our industry evolves, our world of work becomes more complex and demanding...and in many ways, so do the people with whom we work!

There is a demand for more efficiency but often we have fewer resources.

There is a demand for communication, but less time.

There is a demand for teamwork, but often, people are less reasonable and more difficult.

There is a demand for more customer service, but no extra time to deliver it.

These demands can seem unreasonable, but they really are valid and important. We need to do these things to succeed, and we need our people to succeed. In this class, we'll discuss the following things:

How to Manage Difficult People

Even the best employees get difficult to deal with at times. How a leader or a team member can deal effectively with someone who is being disagreeable without blowing it.

How to Satisfy Disgruntled Customers

Every customer is important, but at times, some of them act like they're more important than the work we are trying to do for them. We will learn how to put a damper on the emotions of an angry customer and manage the situation like the pros we are.

How to Build a Stronger Team

What is the mindset it takes to manage a team? How can a person keep his or her focus on the whole team when little issues and individual problems keep distracting us? How can we avoid the need to have conflict when we need to have cooperation. These topics will be part of our discussion in this session...and we'll offer some good ideas.

How to Manage Conflict

When conflict occurs in our work group, how can we manage it, get past it, and get the work done? We'll show participants how to deal with conflict without letting it get the best of them.

How to Communicate More Effectively

Every discussion in this class will deal with communication and participants will come away with some good ideas on how to be more effective at communicating at work and at home.

If a person isn't careful, trying to lead difficult people in difficult situations can take the joy out of work. No one goes to work with the idea that it should be miserable, but too often it happens. The people who work for us and with us need leadership...and you should work to provide that, whether you are the boss or not...leadership is a state of mind and a set of skills more than it is a job position. This session will be enjoyable but it will also help build skills in managing difficult people and difficult situations.

This session will include several interesting exercises and lots of discussion. We will use those exercises and the group's questions to guide the presentation. We guarantee this session will be useful in terms of what you can apply at work, interesting in how it is presented and discussed, and we guarantee the time will fly!



Jim Kellar provides consulting and training resources for people and businesses throughout the Midwest. He helps organizations and individuals design and implement solutions that meet specific goals and are sustainable over time.

Jim provides training and coaching in Performance Management, Mentoring, Teambuilding, Managing Change, and Customer Service. He helps organizations develop and implement long-term strategies to deal with retention, succession planning, and professional development.

Jim is an innovative retreat leader. Some of his retreats involve going to rustic settings in the woods or by a river, eating gourmet food, and using outdoor activities as a foundation for learning. These Unique Retreats™ are as intriguing and as useful to organizations and individuals as the retreats he conducts in traditional corporate settings. In the recent past, retreats have addressed Strategic Planning, Change Planning, Stress Management, and Management Teambuilding. Jim also facilitates large group planning and problem solving through Negotiated Rule Making.

Jim lives and works in Sioux Falls, SD. In his leisure, Jim indulges his passion for the outdoors. He can often be found kayaking a river, snorkeling, hunting, snow shoeing, hiking with his dogs, or camping with friends...or he may be conducting a training session out there.

Course limited to 30 Participants

INSTRUCTOR: JIM KELLAR

COORDINATOR: Mike Burkard

SESSION II

Washington Room

TRANSFORMER CONNECTIONS

A 12-hour workshop designed for apprentice lineman or for experienced linemen and servicemen who are willing to go through a refresher course seeking ideas for communicating and explaining electrical terms and transformer connections to employees whom they may supervise. The workshop experience will be valuable to senior linemen who did not have the opportunity to learn the trade at a lineman's school. A pocket calculator would be helpful in determining the anticipated voltage.

General Session

Tuesday January 18, 1:00 pm – 5:00 pm

PARTS I AND II

Wednesday, 8:00 a.m. - 5:00 p.m.

Description: This part will discuss basic three-phase systems. We will work with some basic phasor diagrams and try to explain the relationship of the phasor to the transformer itself. We will also make transformer connections with miniature equipment.

Description: Recognizing that the majority of work done with transformers is for single-phase loads, we will begin with basic transformers. This will include turns ratios, polarities, calculations, connections, and troubleshooting. We will use lecture, open discussion, and hands-on connection with miniature equipment.

PART III

Thursday, 8:00 a.m. - 12:00 noon

Description: We will continue to build miniature transformer banks and work on troubleshooting. We will also discuss motor rotation as it related to three-phase systems, as well as discuss ways to prevent voltage surges during switching a three-phase bank.

Scott Meinecke trained and worked as an electrician prior to his 1984 graduation from the Powerline Program at Northwest Iowa Community College in Sheldon. Scott was employed as a lineman with Iowa Lakes Electric Cooperative in Spencer Iowa and later at their service center in Pocahontas, Iowa Scott has an AAS degree in Powerline Technology and joined Northwest Iowa College in 1989 as an Instructor in the Powerline Program. Scott continues to teach a wide variety of topics, both classroom and hands-on from pole climbing to equipment operation to substation, etc. He is well known for the hand-on Transformer Workshop taught throughout the Iowa-Minnesota-South Dakota region.

Instructor: Scott Meinecke - Northwest Iowa Community College, Sheldon, IA

Supervisor: Ken Booze - East River Electric, Madison, SD

Coordinators: Gary Clayton
Jim Moore
Mark Koller

4 other credit hours will be given by the State Electrical Commission.

SESSION III

Lincoln Room

OPERATIONS AND SAFETY

General Session

Tuesday January 18, 1:00 pm – 5:00 pm

PART I

Wednesday, 8:00 a.m. - 5:00 p.m.

Winter Survival Safety Training Course

Safety One International specializes in training programs for employees whose work involves special hazards in areas beyond easy access and rapid emergency aid. We focus on workers who must negotiate terrain which presents unique hazards including instability, steep slopes, and avalanche dangers.

With over 20 years of experience teaching tracked vehicle and winter survival safety we are recognized and used by every branch of the U.S. Government that utilizes snow vehicles. We are well versed in the OSHA regulations as they pertain to tracked vehicle safety and have in fact also trained OSHA inspectors.

The credentials of our instructors are extensive, Art Seely, our lead instructor, has been elected to membership in the American Society of Safety Engineers, he is certified by the National Safety Council as a Certified Utility Safety Administrator, and has a degree in Environmental Health and Safety. He was also certified in Los Angeles and Denver as a rescue paramedic, he is recognized by magazines such as Utility Safety and Police Chief as a "World Renowned Snow Survival Expert". Please see a brief description of the topics covered in our courses below.

Safety One International Training Specialists – Winter Survival Training Classroom Course

1. Winter Survival – Secrets that Make a Difference
2. Carbon Monoxide Poisoning – Deadly Odorless Killer
3. Survival Kits – Carrying Critical Items and Know Their Many Uses
4. Survival Shelters – Quick, Simple and Lifesaving
5. Fires & Fire Starting – What Really Works
6. Survival Priorities – Surviving the Unexpected
7. Survival Attitudes – How to get It & How to Keep It
8. Frostbite – Simple Secrets to Keep Your Fingers
9. Hypothermia – Why it Kills so Many, Recognition, What you Need To Do

PART II

Thursday 8:00 a.m. – 12:00 p.m.

Personal Safety and Security

Instructor: Ronald Schwint

Class Hours: 4 Hours

Address: 105 W. Fir Street

Class Days: January 20th, 2011

Brandon, SD 57005	
Phone: 605-366-6224	<i>Class Location:</i> JUTS Joint Utility Training School Sioux Falls, SD
E-Mail: rjschwint@alliancecom.net	

I. Course Description

These Courses will provide utility personnel with some basic information on general safety and security concepts that will provide them with information that will allow them to better identify, recognize, and react to potential threats to their personal safety and security in a variety of areas and situations. The course will focus on an overview of personal safety, how to identify and recognize potential threatening situations and people, and how to prepare and react to potential threats of personnel harm. The course will include some hands on demonstrations on commonly used self defense tools and tactics.

II. Course Objectives/Outcomes, Standards, Assessment

Objectives	Outcomes	Assessment
Identify the concept of what is personal safety and security	Given the definition of the concept of personnel safety and security, learners will be able to understand the general principles that can keep them safe in their personal and public life.	Lecture Group Discussion
Define the general principles of personal safety and security	Given the key points of the general principles of personal safety and security, learners will be able to identify and recognize potential threats to their safety and security.	Lecture Group Discussion
Identify personal safety and security concepts at home	Given the key points of how to stay safe and secure your personal property, learners will be able to identify how to stay safe in their home and secure their personal property.	Lecture Group Discussion
Identify personal safety and security concepts in the public	Given the key points of how to stay safe and secure in public, learners will be able to identify and recognize how to stay safe while in public places.	Lecture Group Discussion
Identify personal safety and security concepts at work	Given the key points of how to stay safe and secure at work, learners will be able to identify and recognize how to stay safe at work.	Lecture Group Discussion
Special considerations Drug manufacturing	Given the key points on Drug manufacturing, learners will be able to identify and recognize how Drug manufacturing can affect their safety and security.	Lecture Group Discussion
Special considerations Terrorist and terrorism	Given the key points on Terrorist and terrorism, learners will be able to identify and recognize how Terrorist and terrorism can affect their safety and security.	Lecture Group Discussion
Use of personal defense Tools	Given instruction and demonstration on the techniques for the use of various personal defense tools, learners will be able to understand the advantages and disadvantages of the different tools	Lecture Demonstration Physical practice
Use of positioning and proxemics when dealing with subjects	Given instruction and demonstration on the techniques for the interview and combat stance and interview position, learners will be able to understand these concepts.	Lecture Demonstration Physical practice
Use of Countermeasures	Given instruction and demonstration on the techniques for the use of countermeasures and escape from holds,	Lecture Demonstration

	learners will be able to destabilize, escape, or control a subject using a variety of moves, strikes, and kicks.	Physical practice
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III. Instructional Methods/Activities

Methods and activities for instruction include:

A. Traditional Experiences

1. Lecture/discussion
2. Physical demonstration/practice
3. Practical applications

IV. About the Instructor

Sergeant Ronald Schwint has 26 years of law enforcement experience. Ron was employed by the State of South Dakota as a correctional officer and an intensive parole agent for 6 years and has been employed by the Sioux Falls Police Department for the last 20 years. During his career with the Sioux Falls Police Department Ron has worked as a patrol officer, traffic officer and traffic case investigator prior to being promoted to a field supervisor. Duties performed during his career included being a field training officer, gang task force officer, an urban police rifle (UPR) rapid deployment team member, EVOC instructor, and a defensive tactics instructor/coordinator for the department.

Ron currently holds a Bachelor of Science degree in Criminal Justice and Sociology from Augustana College in Sioux Falls, SD and is currently enrolled in the masters program for educational administration of adult and higher education at the University of South Dakota with a focus on law enforcement training and reality based training development.

Ron has been actively involved in law enforcement training since 1994 and is an independent contractor conducting law enforcement training programs for Academies' and Agencies throughout the United States. He is currently an Armament Systems and Procedures, INC (ASP) certified instructor trainer, conducting basic and instructor certification programs For ASP throughout the United States. He also holds instructor certifications as a Verbal Judo instructor, an OC chemical munitions instructor, (PCR) physical conflict resolution instructor, EVOC instructor and a reality based training instructor. Ron has consulted with numerous Federal, County, Municipal, Military, and Security agencies about defensive tactic programs and policy development and has conducted defensive tactic certification programs for them.

Coordinators: Ken Meirose
Scott Wiese

Session IV

Amphitheater II/Harvest Room

Field Operations / Technical Support

Part I

Tuesday 1:00pm – 5:00pm

Title: General Session

Part II

Wednesday 8:00am-8:05am: Amphitheater II

Title: Introduction and Announcements

Part III

Wednesday 8:05am-9:15am

Title: Electronic Locating Techniques.

Description: The first half of the session will focus on Basic Principles of Cable and Pipe Locating. A presentation of the theory for locating all buried utilities. The full extent of locating frequencies and the methods will be discussed.

In the second part of the session, secondary fault finding techniques are explored and discussed.

Instructors: Gary Hyatt: Ditch Witch of South Dakota

Part IV

Wednesday 9:30am – 10:45am

Title: Trencher Safety, Operation & Maintenance

Description: Part 1 will discuss Basic Principles of Trencher Safety. A short film addressing trencher safety produced by the manufacturers of Ditch Witch equipment will be shown. Discussion to follow.

Part 2 will explore trencher and vibratory plowing techniques. Items to be discussed will include the following:

How to choose the best digging chain and teeth

Digging chain teeth and sprocket wear

Vibratory Plow blade specifications and characteristics.

Part 3 will focus on basic trencher maintenance tips. A brief presentation of common trencher maintenance issues will be discussed.

Instructors: Shawn Bryant and Roland Gylfe: Ditch Witch of South Dakota

Part V

Wednesday 11:00am – 12:00pm

Title: Renewable Energy: A Historic Perspective

Description: An overview of renewal energy looking back at projects of the 1970's, 80's and 90's and where they are today.

Instructor: Steve Wegman

Part VI

Wednesday 1:00pm – 2:30pm

Title: Personal Protective Grounding

Description: This class will be a thought provoking class covering grounding and will at a minimum cover the following:

- Ground testing and the difference between AC and DC testers
- What makes up a good ground
- Why should you not use welding cable
- The AB Chance grounding encyclopedia catalogs (40 years put into a binder)
- Review equipotential grounding

Instructor: Steve Gordon-Chance Tool Division

Part VII

Wednesday 3:00pm – 5:00pm

Title: Smart Devices

Description: Play it smart. Keep it simple. Work smarter not harder.

Smart devices can help our distribution systems operate more efficiently. It is the proper placement and use of these devices, however, that impacts reliability. In an era of endless programmability and options, the simple essence of what needs to be accomplished can get lost. Programmable reclosers and sectionalizers have been around for many years. SIMPLE programmable reclosers and sectionalizers are the new kids on the block. Program and download settings without having to attend recloser college. Learn how the VersaTech recloser offers more with less to meet the needs of your distribution network. Coordinate the VersaTech recloser and HPS Programmable Sectionalizer using the same software package. Sectionalizers and reclosers, when applied properly and in tandem, can play an integral role in the distribution protection scheme. Learn how these devices can help boost your reliability.

Instructor: Javier A Bonilla-Hubbell Power Systems

Part VIII

Thursday 8:00am –9:00am Harvest Room

Title: Applying State Law to Road Moves

Description: This presentation will give an overview of how newly enacted State Laws apply to Road Moves. Dave will give examples of best practices used during utility coordination and show how the utility owner can benefit from State Law through that coordination effort.

(State Laws being addressed are SDCL 31-19-1.1, SDCL 31-26-23 and SDCL 31-26-23.1)

Instructor: Dave Hausmann- SDDOT

Part IX

Thursday 9:15am –12:00pm

Title: Plans Reading Course

Description: This course was designed for utility companies and will teach the basics of reading highway construction plans. It will explain the different views depicted in a set of plans, how to measure both horizontal and vertical distances and how to understand field markings.

Instructor: Dave Hausmann- SDDOT

Coordinators: Bruce Brekke
Mark Hoogwerf

SESSION V

Jefferson Room

SIEMENS REGULATORS

Please bring a lap top computer

General Session

Tuesday January 18, 1:00 pm – 5:00 pm

SIEMENS REGULATORS

Wednesday, 8:00 a.m. - 5:00 p.m.

Thursday, 8:00 a.m. - 12:00 noon

Joel Mathewson

Siemens Energy, Inc.

VOLTAGE REGULATORS

The Regulator College of Knowledge was developed over a period of 40 years. It is designed to increase the knowledge of personnel responsible for handling, installing and maintaining single phase voltage regulators. The program consists of classroom training (various control panel and regulators operations) and hands-on instruction. Topics included to be covered are voltage regulator construction; control panel set-up: MJ-3A, MJ-X and MJ-XL; trouble shooting controls and regulators; and installing and bypassing.

Topics include:

- * Regulator Product Presentation
- * Introduction to Voltage Regulators
- * By-passing Regulators
- * Regulator Construction, Tap Changer Operation
- * Nameplates and Control Diagrams
(Straight & Inverted Designs)
- * Troubleshooting/Hands on & Discussion
- * and much more

Instructors:

BIOGRAPHICAL PROFILE

Joel Mathewson is Product Marketing Manager for Voltage Regulator Products at Siemens in Jackson, MS. He is responsible for marketing and sales of voltage regulators within the US and in various other regions around the world.

Joel joined Siemens in 2003 as a Control Panel Product Engineer within the Voltage Regulator organization in Jackson, MS prior to moving into marketing in 2007.

Joel was awarded a BS in Systems and Control Engineering from Case Western Reserve University in 2002 and completed his education there with a Master of Engineering and Management degree in 2003. He became a registered Professional Engineer (PE) in the State of Ohio in January 2009.

**Coordinators: Ken Van Zee
Dale Henderscheidt**

SESSION VI

Roosevelt Room

"Managing Risk In The Utility Industry"

General Session

Tuesday January 17, 1:00 pm – 5:00 pm

Security Consideration For The Utility Industry

Wednesday, 8:00 a.m. - 5:00 p.m.

Thursday, 8:00 a.m. - 12:00 noon

Managing Risk In The Utility Industry

Risk is inevitable. How much risk is acceptable? This presentation examines risk from a utility perspective. Topics will include:

- Meth Lab recognition
- Active shooter preparations and survival
- Organized crime recognition and avoidance (Includes "Gang chart")
- Driving security considerations
- Building, perimeter and parking lot security
- Avoiding and de-escalating confrontations
- Reducing theft(s) (Power and/or materials)
- Security assessments
- IED's and Bomb threat recommendations
- Identity theft avoidance and prevention
- Workplace violence avoidance recommendations
- Top "10" list of security considerations

This fast paced, audience interactive presentation will provide you with the cost effective "tools" required for your on-going security efforts. Attend this presentation and experience why thousands of participants from hundreds of utilities consider this a "must see" program!

Instructor: Stefan Salmonson, President - PROtective Services, Inc. Mora, MN

SPEAKERS BIO ...

Your presenter, Stefan V. Salmonson, is the president of **PRO**tective Services, Inc. He is a licensed deputy sheriff/tactical trainer, licensed private detective, licensed protective agent, certified personal protection specialist (Body Guard), international security consultant, experienced tactical specialist, contract government investigator (with security clearance), airline transport pilot and professional speaker. **PROS** provides executive and personal protection services, high-risk employment termination support services, discrete investigations, security presentations, training, keynote presentations, security assessments, consulting and risk management recommendations for several hundred clients.

Optional Information:

Stefan writes security related articles for publications and is frequently interviewed by journalists regarding security concerns. Clients include national/international corporations, government agencies, foreign royalty, public utilities, school districts/student transportation, flight department/associations, prisons, hospitals, financial institutions, media, the trucking, real estate and insurance industry.



Stefan V. Salmonson, PPS

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WEB: WWW.PROprotectiveServicesinc.net

Stefan V. Salmonson, PPS, President

Coordinators: Terry Keller
Doug Enstad

SESSION VII

Crystal Room

SUBSTATION MAINTENANCE

PART I

GENERAL SESSION

Tuesday, January 18, - 1:00 p.m. - 5:00 p.m.

PART II

Title: Substation Maintenance

Wednesday, January 20, 8:00 a.m. - 5:00 p.m.

Also Thursday, January 21, 8:00 a.m. - 12:00 noon

Description: This class is meant to give a good foundation on the knowledge of substation equipment, operation and maintenance practices.

The class will cover as much ground as possible, including detailed discussion about all substations equipment. All efforts will be made to gear the class to your specific needs.

TOPICS INCLUDED ARE:

- Safety Considerations
- Specific hazards of the substation
- Apparatus
- Review of major substation equipment design and deployment
 - Station One Lines
 - Bus configuration
 - Switching Equipment
 - Transformers
 - Voltage Control
 - Protection and Automation
- Operation and maintenance
 - Substation Switching
 - Equipment and maintenance

SPEAKERS BIO ...

Gary Roskos has worked in the utility industry for more than 28 years, starting as an engineering intern with Northern States Power in 1983. During his 20 years with NSP and Xcel Energy, he gained experience in the following areas:

- Substation Design and Construction
- Protective Relaying
- System Analysis and Reliability

- Electric System Maintenance and Troubleshooting
- Metering
- Distribution Construction and Trouble Operations

Upon leaving Xcel Energy at the end of 2002, he worked for Open Systems International, Inc., a leading provider of SCADA/EMS systems, helping with product development and project management for projects throughout the world.

In 2006 he spent time with Cooper Power Systems/Cannon Technologies working on product development and product management in the areas of substation monitoring and distribution automation.

He started his own consulting company in 2008 and continues to work on substation design and electric system automation projects throughout North America.

He holds a Master's Degree in electrical engineering from the University of Minnesota, with an emphasis in power systems operation and analysis.

Coordinators: Corey Gunderson
Mark Patterson
Rodger Krom

SESSION VIII

Amphitheater I

Computer Tech Course

January 18, 2012 Wednesday

8 AM to 12PM or 4 hrs

Smart Grid from ABB:

PJ Fernandez - Business Development Manager

Bill Whitehead - Director of Business Development

Outline of Topics to be Covered:

- Define what Smart Grid is.
- Provide a big picture of where Smart Grid is going.
- What is involved in developing a Smart Grid System? How do the pieces fit together?
- What is the value proposition of Smart Grid?
- What pieces of a Smart Grid System provide the greatest Return on Investment for Distribution Systems?

Wednesday

1 PM to 3 PM or 2hrs

General Information Systems

Instructors:

Kendis Scharenbroich and Brandon Crissinger

From: **Pro-West & Associates Inc.** - Geographic Information System Specialists

Outline of Topics to be Covered:

1. GIS & Utilities Overview
2. GIS Software and applications overview
3. Building a GIS database
4. GPS data collection
 - a. Hardware options
 - b. Accuracy Standards
 - c. Correction options
 - d. Integration with GIS
5. GIS-based Utility applications

Wednesday

3 PM to 5PM

Title: Practical tips and tricks for effective GPS data collection

Instructor:

Brandon Tourtelotte
Sales Manager, Utilities
Compass Tools, Inc.

Outline of Topics to be Covered:

Description: A brief discussion of why you might want to implement a GIS and GPS program for Utility management.

Then we'll look at all issues that affect the accuracy and overall quality of your GPS data. Different types of accuracy and methods to improve it will be explored.

The various software packages available for accurate mapping will be examined.

Finally we'll cover integration with other equipment, such as Bluetooth laser rangefinders for GPS offsets. You'll leave the session much better equipped to collect good data in any environment you encounter.

Learning objectives:

1. Explain the difference between corrected and uncorrected GPS data
2. Explain the difference between real-time and post processed accuracy (and real-time correction)
3. Explain some of the considerations between accuracy and cost of devices and ruggedness

January 19, 2012 Thursday
8AM to 10AM 2hrs

Title: Milsoft Utility Solutions - Engineering & Operations in the Smart Grid

Instructor:

Steven E. Collier

Vice President, Marketing & Business Development

Milsoft Utility Solutions

Outline of Topics to be Covered:

Introduction and Objectives of the Session

Smart Grid Basics

Why Is A Smart Grid Important?

Problems with the existing electric utility grid

New challenges for the electric utility grid in the future

New and emerging technologies make a smart grid inevitable

What Is a Smart Grid?

Distributed Intelligent Electronic Devices

Two-Way, Broadband, Digital Communications

Operating Platforms

How Should a Smart Grid Be Deployed?

The Importance of Integration & Interoperability

The Importance of Public Telecom Networks

The Importance of the Internet
The Importance of a Technology Strategy
The Role of Dis-intermediaries
Engineering & Operations in the Smart Grid
Engineering Analysis and Planning
Outage Management Systems
Geographic Information Systems
Customer and Employee Communications
Conclusions and Recommendations

Thursday
10AM to 12PM 2 hrs

Title: Cell Phone Tech
Cellular Only/Verizon Premium Retailer

Presenters:

Julie Steffen – Business Account Representative
Ryan Revell – Sales Consultant

- Discuss/explain 4G LTE and 3G Networks
- Smartphone's
- Basic Phones
- Various Operating Systems
- Hottest Phones
- Mobile Broadband
- Tablets
- Home Phone Connect
- Apps & More
- Plans and Pricing
- Q&A

Coordinator: Tim Chance