



Joint Utility Training School

<https://www.juts.biz/>

Training Today for Tomorrow

# ***46TH Annual***

***Joint Utility Training School***

***January 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup> 2022***

***Ramkota Hotel - Sioux Falls, SD***



**46th Annual  
Joint Utility Training School  
January 18, 19, 20, 2022  
Ramkota Hotel, Sioux Falls, SD**

**REGISTRATION FEE  
\$214 per student + fee/tax– PREPAID**

**Attendees are required to follow their companies Covid 19 polices,  
regarding social distancing and masks while at JUTS**

**GENERAL SESSION**

- 1. GETTING IT RIGHT... WORKING MORE EFFECTIVELY WITH OTHERS**
- 2. TRANSFORMER CONNECTIONS (BRING LOW VOLTAGE GLOVES)**
- 3. OPERATIONS AND SAFETY**
- 4. FIELD OPERATIONS/TECHNICAL SUPPORT**
- 5. RECLOSERS**
- 6. PREPARING FOR HOSTILE EVENTS IN THE UTILITIY INDUSTRY**
- 7. ELECTRICAL CODE CLASS**

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

Please submit registration through Eventbrite

# 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

Open via Eventbrite December 13, 2021

**No payments received day of event.**

**On Site check in will be from  
11:00am-2:00PM**

### **Pre-paid registration will include:**

Vendor Show Tuesday from 5:00 to 7:30 PM

Breakfast on Wednesday and Thursday morning at 6:30 am - 7:30 am in the Exhibit Hall

Noon meal on Wednesday in the Exhibit Hall.

## LUNCHEON

Wednesday - January 19, 2022 12:00 noon to 1:00 pm

### **Mini-courses will be:**

Tuesday General Session 2:30 pm-4:30 pm

Wednesday 8:00 am-5:00 pm

Thursday 8:00 am-12:00 noon

# GENERAL SESSION

Washington Room

Tuesday, January 18th

**2:30 pm to 4:30 pm**

## Kelly Patterson Bio

While shame and pain kept her quiet for years, Kelly Patterson's journey of healing and freedom from sexual exploitation are giving her a loud voice today. Believing that unity is key, she enjoys collaborating with others to battle against sex slavery. One of the many ways Kelly engages in this war is by working alongside Law Makers in writing and/or changing trafficking laws.

She desires to be an aid in freeing those wounded from the effects of all forms of sexual trauma, with a specific emphasis on sex trafficking. Coming from the perspective of one who has walked the long road out, Kelly has a dynamic style and ability to relate to her audience. As a speaker, she is engaging and unafraid to tell it like it is. Withholding the hard truths is not a road she has chosen to take.

Kelly was trafficked within the state of South Dakota and the surrounding states. In addition to the Midwest, trafficking eventually took her into several other states and countries. Her experiential knowledge of how ring trafficking a.k.a. organized crime commercial sexual exploitation operates is incredibly valuable to those hoping to make a difference in this very real war. She details her captivity in the dark world of sex trafficking and the journey out in her book "From Trafficked to Treasured". Kelly is also currently authoring a workbook and facilitator manual for sexual trauma support groups titled "The Pendulum"; and is co-authoring a book titled "Freedom Cry".

Kelly Patterson is the Founder and Director of Treasured Lives, a survivor-led anti-trafficking organization in the Black Hills of South Dakota. She is a wife, mother, and grandmother. Kelly is also a lead pastor, speaker, consultant, and an active advocate in freeing those wounded from the effects of sexual crimes such as abuse, assault, and trafficking.



**Presenter:** Kelly Patterson

**Coordinator:** Terry Ebright

# **SESSION I**

CONFERENCE ROOM 3

## **GETTING IT RIGHT WORKING MORE EFFECTIVELY WITH OTHERS**

### **General Session**

Tuesday January 18th, 2:30 pm – 4:30 pm

Wednesday, 8:00 am - 5:00 pm

Thursday, 8:00 am - 12:00 noon

### **Getting it Right...Working More Effectively with Others**

We work with managers, team members, customers, and others...and then we go home. Many of us find stressful situations and frustration at home or work affecting people in the rest of life. The difficulty of working with others and the challenges of keeping things on an even keel at home and work are difficult for many of us.

Everyone is different. We all have some stress from work and from the problems of living. Trying to build a solid and satisfying workplace that matches your needs at home is a challenge that won't go away. This program will help each participant "get a handle on this." We start by helping understand more about ourselves so we can know more about why people are the way they are and some of the things we can do to make work a good place and to keep work and home from interfering with each other.

This is a discussion class and the participants will determine how lightly or deeply we address each of these topics. We will answer questions and address YOUR issues as we work our way through the three important topics listed below. Our goal for the program is to help each participant leave JUTS and return to work and home with added skills that help make things work out in a balanced way. By growing in some of the basic skills we use every day, we can have a positive impact on all the parts of our life.

#### **Communication**

- ~Understanding expectations and communicating them to others.*
- ~How to say the things that need to be said without making more problems.*
- ~Building more effective relationship at work and at home by better communicating.*
- ~How to improve relationships that have gone wrong.*

#### **Personal Management Skills**

- ~Managing the stress of life and work—finding a good balance*
- ~Dealing with the stress of customer service and team members*

#### **Emotional Intelligence**

- ~How to deal with difficult people to build teamwork*
- ~Helping others to grow professionally*
- ~Addressing things with assertiveness instead of being passive.*

## Jim Kellar Biography



Jim Kellar has provided consulting and training resources for businesses and organizations for 20 years. Through Kellar Training, Jim helps organizations design and implement sustainable solutions

Kellar provides training and coaching in such areas as Change, Performance Management, Teambuilding, Mentoring, and Customer Service. Helping develop and implement strategies to maintain a productive workforce, provide for succession, and find bottom line success is the ultimate goal of his work with organizations.

In the last few years, as the economy has declined, Jim has worked with senior managers as a trainer and a coach. As organizations become more stressed, he's worked to help individual leaders maximize their performance and that of their teams. Jim's coaching approach helps maintain, accountability, personal growth, and a focus on moving forward. One of his passions is the desire to help people and organizations become the best they can be and still maintain those qualities that make work fun and exciting.

Jim is an innovative retreat leader. Some of his retreats involve going to rustic settings, eating gourmet food, and designing outdoor activities that teach planning and teamwork. His Unique Retreats™ are as intriguing and useful to organizations and individuals as the retreats he conducts in traditional corporate settings. In the recent past, retreats have addressed such traditional topics as Strategic Planning, Change Planning, Stress Management, and Management Teambuilding.

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

**James Kellar PO Box 2694 Sioux Falls, SD 57101 (605) 940-9238  
kellartraining@gmail.com**

**Course limited to 30 Participants**

**INSTRUCTOR:** JIM KELLAR

**COORDINATORS:** Kyle Hills, Ginny Beck

# SESSION II

Washington Room

## TRANSFORMER CONNECTIONS

**40 Students Maximum**

A 12-hour workshop designed for apprentice linemen 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 18th 2:30 pm – 4:30 pm

### **PARTS I AND II**

Wednesday, 8:00 am - 5:00 pm

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 am - 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.

All people taking this class are reminded to bring their low voltage rubber gloves.

**Instructor:** Scott Meinecke - Iowa State Wide Assc.

**Coordinators:** Jason Frasch, Evan Buckmiller



# SESSION III

Lincoln Room

## OPERATIONS AND SAFETY

General Session

Tuesday January 18th, 2:30 pm – 4:30 pm

### PART I

Wednesday, 8:00 am - 5:00 pm

#### **8am to 10am Randy Westberg (grounding)**

The class will cover equipotential grounding for both overhead and underground applications. As well as best practices involving various scenarios and instances. Feedback and input are encouraged.

Randy started his career after graduating from Mitchell Technical Institute as an apprentice Lineman working in Wellington Kansas. For the next 17 years he worked his way to becoming a journeyman lineman and Forman. He then spent the majority of the next 15 years as an Instructor and Department Head of Powerline Technology at the Mitchell Technical Institute in Mitchell, South Dakota. Most recently he was Director of Loss Control and Safety for the Colorado Rural Electric Association and is now the Technical Training Program Manager for Black Hills Energy.

Randy has a degree in Business Management as well as certification in Teaching, Powerline Construction & Maintenance and Substation Maintenance. He is a Certified Utility Safety Professional and Certified Loss Control Professional.

#### **10AM- Dale Kishbaugh- Legalization of marijuana**

Covering the following topics:

Marijuana legalization in Colorado

History of the legalization in Colorado

Dispensary Startup fees

Typical marijuana stores in Colorado

Marijuana Licenses in Colorado

Marijuana Enforcement Division

Marijuana's impact on public safety

Electricity use with marijuana

Unauthorized land use with growing marijuana

Money handling at the cooperatives dealing with marijuana

Power Theft dealing with marijuana

## **1PM The Consequences of Distracted and Impaired Driving.**

**Presenters Lt. Isaac Kurtz and Sgt. Kevin Kinney**

A fraction of a second can change your life forever. This session will look at how distracted and impaired driving effect your ability to safely operate a motor vehicle. We will look at how alcohol, drugs, and distractions delay your reaction time and how delayed reaction times are often the difference between life and death. Predictable is Preventable.

## **3PM Recognizing Drug Impairment and Drug Usage**

**Presenter Lt. Isaac Kurtz**

This session will look at the 7 categories of drugs and the signs and symptoms associated with each category. We will look at general indicators specific to each of the 7 categories to help you better recognize drug usage in the workplace.

## **PART II**

**Thursday 8:00 am – 12:00 pm**

### **8am – 12pm Beating the Odds**

Tree work, particularly in relation to line clearance, continues to be near the top of high-risk professions despite our advancements in techniques and equipment. Surprisingly to many electrocution is not the highest risk to line clearance tree trimmers as many more accidents occur during felling, pruning and chipper as well as driving between sites. This session will provide an overview of the accidents that occurred in 2006 but more important - how to avoid them!



**John Ball** is a Professor of Forestry at South Dakota State University where he conducts research on tree worker safety as well as instructs courses in arboriculture. He has published the research in a wide range of journals and trade publications including *Arboriculture & Urban Forestry*, *Arborists News* and *TCI* and has made presentations in more than 40 states. John previously managed tree care companies in the Midwest and New England.

**Instructor: John Ball – SDSU**

**Coordinators: Tyson Brooks, Mike Antonson**

# Session IV

Amphitheater II

## Field Operations / Technical Support

### Part I

Tuesday January 18th

Title: General Session 2:30pm – 4:30pm

### Part II

Wednesday 8:00am-5:00 am: Amphitheater II

Jan 19<sup>th</sup> 8:00-12:00

**8:00am-10:00am Engineered Laminated Structure & Life Asset Extension**



**Brian Hitz** is Vice President of Engineering at Laminated Wood Systems. Brian graduated from the University of Nebraska-Lincoln with Bachelor's degree in Construction Management and Civil Engineering. He previously worked for 4 years as a civil engineer at Burns & McDonnell and has been with Laminated Wood Systems since 2008. Brian obtained his P.E. License in 2013.

**Instructor:** Brian Hitz

**Course Coordinators:** Bruce Brekke, Brad Wenande

**10am – 12pm Fault indicators**

Scott Ware is the Regional Manager at Power Delivery Products. Scott graduated from Purdue University with a bachelor's degree in electrical engineering. He has worked for Power Delivery Products for over 3.5 years and previously worked at G&W Electric and Siemens.

**Instructor:** Scott Ware

**Course Coordinators:** Bruce Brekke, Brad Wenande

## 1pm-2:30pm Wildlife Mitigation

### About your instructor



#### DARREN BARNETT

Senior Product Manager  
Wildlife Mitigation Business Unit

Darren holds a degree in Electrical Engineering Technology from Louisiana Tech University and has over 30 years of experience in the electric power distribution industry. Darren's career started as a Design Engineer for a major transformer and components manufacturer. From there he advanced to positions of increasing responsibility, including Quality Assurance Manager, Engineering Manager and Vice President of Components Operations. Darren is an active member of IEEE and was on the committee that developed the 1656 -2010 testing guide for wildlife mitigation products.

**Instructor:** Darren Barnett & Tim Kosir    **Course Coordinators:** Bruce Brekke, Brad Wenande

## 2:30pm-5:00pm Locating and Fault Finding

**Title:** Locating 101 – Theory, Best Practices, Troubleshooting

The class will assist in developing the understanding and skills needed to perform accurate underground utility locates. We will cover the science and theory behind locating, along with best practices and troubleshooting techniques for those difficult locates. There will also be an opportunity to discuss fault to ground fault finding if the attendees desire.

**Instructor:** Gary Grimms    **Course Coordinators:** Bruce Brekke, Brad Wenande

### PART III

**Thursday Jan. 20th 8:00 a.m. – 10:00 a.m.**  
**Metering Mistakes and Field Testing**

**Instructor:** Larry Chapman    **Course Coordinators:** Bruce Brekke, Brad Wenande

# SESSION V

## Jefferson Room

# RECLOSERS

### General Session

Tuesday January 18th, 2:30 pm – 4:30 pm

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

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

**Jeremy Kalt** is a Professional Engineer with Dalager Engineering. Based out of Bath, SD, they do consulting work for rural distribution electric cooperatives in South Dakota. Jeremy graduated from South Dakota School of Mines & Technology in Rapid City, SD in 2005. Jeremy joined Dalager Engineering in 2008, and has been a registered professional engineer in South Dakota since 2013.

While at Dalager Engineering, Jeremy has worked on Construction Work Plans, Sectionalizing Studies, Arc Flash Studies, system mapping (GIS & CAD based), staking overhead & underground lines, and inspecting construction work. The majority of Jeremy's time is spent on protection and coordination schemes, which includes setting/programming electronic controls for reclosers, breakers, and other protective devices and also includes troubleshooting issues on the line and with the protective equipment itself.

#### Topics:

- General overview of protection/coordination
  - Various protection schemes (fuse blowing, fuse saving, etc)
  - Differences between overhead and underground protection
  - Brief overview of Time Current Curves (TCC) and the logic behind coordinating devices
- Electronic Relays/Controls & Breakers/Reclosers
  - Poll – What do participants currently use?
  - Discuss various manufacturer's offerings
    - 3Ø units vs 1Ø units vs Triple Singles
    - Types:
      - SEL (651R, 351R, etc)
      - Cooper/Eaton (Form 6)
      - ABB (RER620, PCD)
      - GE F35
      - Joslyn PowerMax
  - Customization (Front Panel LEDS, Pushbuttons, Logic, etc)
  - Discuss various features generally available:
    - Nonreclosing
    - Fast Curve Block
    - Ground Trip Block
    - Alternate Settings Groups
    - Hot Line Tag
    - Sequence Coordination

- SCADA
- Effects
  - Of upstream electronic controls on downline devices
  - Of downline devices on upstream electronic controls
- Discuss data that is recorded by controls
- Discuss what data is/can be recorded about an actual event
- Troubleshooting/determining location after event
  - Event Data
  - Fault current
- Other Electronic Devices
  - S&C TripSavers
  - Elastimold MVIs

**Instructor: Jeremy Kalt**

**Course Coordinators: Todd VanderWal,  
Jay Spaans**

# SESSION VI

Roosevelt Room

## "Preparing for Hostile Events in The Utility Industry"

General Session

Tuesday January 18th, 2:30 pm – 4:30 pm

**Security Consideration For The Utility Industry**

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

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

### Preparing for Hostile events.

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!

#### **SPEAKERS BIO ...**

Your presenter, Stefan V. Salmonson, is the president of **PRO**protective Services, Inc. He is a U.S. Army veteran, licensed deputy sheriff/tactical trainer, licensed private detective/protective agent in several states, certified personal protection specialist (Bodyguard), international security consultant, experienced weapons/tactical and operational specialist, 3ECHO (Rapid response to an active shooter threat) instructor, EMT, former contract government investigator, Workplace Violence "Expert Witness", airline transport pilot (ATP), flight instructor (CFI) and professional speaker.

Stefan and his team(s) have provided executive, personal protection services and high-risk employment termination support services. He has provided discrete investigations, security related training, keynote presentations, security assessments, consulting and risk management recommendations for hundreds of clients nationwide.

Karla J. Kastenbauer is the OPS Manager for **PRO**protective Services, Inc. She has a law enforcement background, extensive experience in food service, manufacturing/supply chain security and is a certified mental health instructor with an emphasis on (QPR) Suicide Prevention.

### **Optional Info ...**

Stefan writes security related articles for publications and is frequently retained to discuss/document security concerns, assist clients with risk management reviews and business continuity concerns through training/presentations, security assessments, policy/procedure development and implementation. Clients include national/international corporations, government agencies, foreign royalty, utility industry, school districts/student transportation, flight department/associations, prisons, hospitals, houses of worship, financial institutions, wealth managers, media, the trucking, real estate and insurance industry.

Company adage ... ***“Provide our clients with security related answers before the questions are even asked”.***



**Stefan V. Salmonson, PPS PRO**protective

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**MEMBER:** MAPI, ASIS, MGIA, SOTA

Stefan V. Salmonson, PPS, President

**Instructor: Stefan Salmonson**

**Coordinators:** Lynn Kruse

Travis Denison



# **SESSION VII**

CONFERENCE ROOM 2

## **NATIONAL ELECTRIC CODE HOURS**

8 Hours Code Credit

**Each attendant needs to bring a Current NEC code book**

### **GENERAL SESSION**

Tuesday, January 18th, - 2:30 p.m. – 4:30 p.m.

### **PART I**

CONFERENCE ROOM 2

### **CODE CLASS**

Wednesday, January 19th, 8:00 a.m. - 12:00 p.m.

Byron was an electrical contractor for over 22 years before becoming an instructor in the Industrial Commercial Wiring Program at Northwest Iowa Comm. College in Sheldon, Iowa. He has been teaching in that program for 15 years. Byron is a member of the IAEI, SDEC, and Northwest Iowa Electrical Association. Byron carries an EC in South Dakota and a Masters license in Iowa. Byron resides near George, Iowa with his wife Carol.

## **One- and Two-Family Dwellings**

This will be based on 2017 IAEI presentation on One- and Two-Family Dwellings

### **PART II**

**Lincoln Room**

Wednesday, January 19th, 1:00 – 5:00

**1pm-5pm - Attend session of choice**

**PART III**  
CONFERENCE ROOM 2

**CODE CLASS**  
Thursday, January 20th, 8:00 a.m. - 12:00 noon

**One- and Two-Family Dwellings**

This will be based on 2017 IAEI presentation on One- and Two-Family Dwellings

**Instructor:** Byron Krull

This class will get you 8 hours of approved credits for renewing your South Dakota state Electrical License's

**Part I & Part III**

**8 Code** credit hours will be given by the State Electrical Commission.

**Course Coordinator:** Monty Munkvold

## **Joint Utility Training Committee**

Chairman: Brad Wenande – Northwestern Energy, Huron SD

Secretary: Lynn Kruse – Dakota Energy, Huron SD

Treasurer: Scott Wiese – Otter Tail Power Co, Milbank, SD

## **South Dakota Rural Electric Association:**

Evan Buckmiller – Kingsbury Electric Cooperative, DeSmet, SD

Terry Ebright – Sioux Valley Energy, Colman, SD

Jay Spans – Douglas Electric Cooperative, Armour, SD

Lynn Kruse – Dakota Energy, Huron SD

Mike Letcher – West River Electric, Rapid City, SD

## **Investor –Owned Electric Utilities:**

Scott Wiese – Otter Tail Power Co, Milbank, SD

Brad Wenande – Northwestern Energy, Yankton SD

Bruce Brekke – Montana-Dakota Utilities, Mobridge, SD

Dean Sigman – Black Hills Energy, Sturgis, SD

## **Municipal Electric Utilities:**

Kyle Hills – City of Sioux Falls, Sioux Falls SD

Ginny Beck – Crooks Municipal Gas, Crooks, SD

Mike Antonson-City of Beresford, Beresford, SD

Monty Munkvold – City of Vermillion, Vermillion, SD

Todd VanderWal – Brookings Municipal Utilities, Brookings, SD

## **Generation, Transmission, Political Sub Districts, Statewide Association:**

Nick Reiff – East River Electric Cooperative, Madison, SD

Jason Frasch – Rosebud Electric, Gregory, SD

Mark Patterson – SD Rural Electric Association, Wall, SD

Brian Benson – Watertown Municipal Utilities, Watertown, SD

## **Associate Members (Non-Voting):**

Travis Dennison – SDREA, Pierre, SD

Tyson Brooks – SDREA, Pierre, SD

## **Vendors Association:**

Chad Low – Border States Electric