

**THIRD**

**ANNUAL**

**JOINT**

**UTILITY**

**TRAINING**

**WORKSHOP**

January 31-February 1-2, 1978

SOUTH DAKOTA STATE UNIVERSITY  
Brookings, South Dakota

&

February 14-15-16, 1978

SCHOOL OF MINES AND TECHNOLOGY  
Rapid City, South Dakota

Sponsored By

Joint Utility Training Committee (JUTS)  
South Dakota Electrical Council

In Cooperation With

South Dakota State University  
(Center for Power Systems Studies)  
(S. T.A.T.E. - Engineering Extension)

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School of Mines and Technology

## PROGRAM

REGISTRATION:	Tuesday	Tuesday
10:00 a.m.	January 31, 1978	February 14, 1978
to	SD State University	School of Mines
12:30 p.m.	Pugsley - Christy Ballroom	Surbeck Center
ORIENTATION:	Tuesday	Tuesday
1:00 p.m.	January 31, 1978	February 14, 1978
to	SD State University	School of Mines
1:15 p.m.	Pugsley - Christy Ballroom	Surbeck Center
LUNCHEON:	Wednesday	Wednesday
12:15 p.m.	February 1, 1978	February 15, 1978
to	Student Center	School of Mines
1:15 p.m.	Volstorff Ballroom	Surbeck Center

Phil Nelson, Master of Ceremonies

Welcome and Introductions

Roger Nagel, Chairman, JUTS Committee

## SESSIONS PROGRAM INFORMATION

Each session is designed as a sixteen 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. Lineman Seminar I and II are identical, but class sessions are held at different times to reduce class size and use laboratory facilities. Diplomas will be presented at your last class session if attendance has been continuous. Continuing Education Units will be given for completion of the course.

All session times will be:

Tuesday	1:30 p.m. to 5:30 p.m.
Wednesday	8:00 a.m. to 12:00 p.m. 1:30 p.m. to 5:30 p.m.
Thursday	8:00 a.m. to 12:00 p.m.

Exception: Motor Controls - Session VII -  
6 hour session

Wednesday	9:00 a.m. Registration 10:00 a.m. - 12:00 p.m. 1:30 p.m. - 5:30 p.m.
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SESSION I            LEADERSHIP SEMINAR

Coordinator        Greg Sherman

Instructor        Kurt Peters, Montana-Dakota Utilities

Title                Improving Supervisory Skills

Description

Topics will include nature of leadership, knowing your employees - individual differences, understanding performance and behavior, improving three-way communication, maintaining effective discipline, handling complaints and grievances, and building job satisfaction and morale. Designed for supervisory and management personnel.

SESSION II                    OIL CIRCUIT RECLOSERS AND VOLTAGE  
                                 REGULATORS

Coordinators                Brookings - Pete Swanson  
                                 Rapid City - Fred Richter

Part I - Title                Oil Circuit Reclosers

Instructors                 Douglas Fisher, MdGraw-Edison, Mpls.  
                                 Walt Wenino, McGraw-Edison, Fergus Falls  
                                 Douglas Nelson, Border States, Fargo

Description

The program will cover the operations of single and three phase hydraulic and electronic reclosers, as well as their coordination with other system protective devices such as fuses and sectionalizers, maintenance, and testing of electronic reclosers will also be covered.

Part II - Title                Voltage Regulators

Instructor                  Tom Shortell, General Electric

Description

The program is designed to obtain further knowledge on the operation and maintenance of voltage regulators. Equipment will be demonstrated and "torn down".

SESSION III      HYDRAULICS SEMINAR

Coordinator      Mike Mebius

Instructors      Al Nelson, V. P., Charles Olson & Son  
Don Hjerpe, Service Manager, Chas. Olson

Title              Operator's Seminar in Hydraulic Line  
and Aerial Equipment

Description

Topics to be covered include power take offs, basic hydraulics and fluids, service and repair of epoxyglass and fiberglass, field inspection and service, and aerial devices and derricks. This course is designed for operators and maintenance personnel of hydraulic equipment. This course is flexible to the needs of the people in attendance.

SESSION IV      BASIC ELECTRICITY

Coordinator      Ted Anderson

Instructor      Dennis Merchant, Vo-Tech School, Mitchell

Title              Basic Electricity

Description

This course is designed to help linemen relate basic electricity to his everyday work activities such as transformers, capacitors, metering, system design, regulation, and coordination.

SESSION V & VI LINEMAN SEMINAR

Coordinator Phil Nelson

Description

A 16 hour course for line operating, maintenance design personnel on operating problems of electrical distribution and transmission systems. Topics to be covered are line connectors, URD termination, URD cable handling, TV and radio interference, lightning protection, URD operations (switching and safety), transformer connections, and capacitors.

SESSION VII MOTOR CONTROLS

Coordinator Dennis Engelstad

Instructors Brookings - Dick Adamson, Allen Bradley Company, Fargo  
Rapid City - Larry Walters - Allen Bradley Company - Casper

Title Motor Control

Description

Three areas of motor controls will be covered:  
(1) motor basics - pilot duty versus power, enclosures - types of motor control, (2) OSHA and how it relates to motor controls, and (3) new products and concepts of motor control - energy management systems and programmable controllers.

## JOINT UTILITY TRAINING COMMITTEE

Chairman - Roger Nagel, JT&S Instructor, REC, Pierre  
Vice Chairman - Dennis Engelstad, Engelstad Elec., Watertown  
Secretary - Don Scheibe, Northwestern Public Service, Huron  
Treasurer - Bill Giesen - Otter Tail Power, Milbank

### JUTS MEMBERS

#### South Dakota Rural Electrics:

Roger Nagel, JT&S Instructor, REC, Pierre  
- Myron Mebius, Tri County Elec., Plankinton  
- Ted Anderson, Intercounty Elec., Mitchell  
(Registration Committee)  
- Fred Richter, West River Elec. Assoc., Wall  
(Site Committee)

#### Investor-Owned Electric Utilities:

Russ Wagner, Northern States Power, Sioux Falls  
Phil Nelson, Northwestern Public Service, Huron  
(Publicity Chairman)  
Bill Giesen, Otter Tail Power, Milbank  
Frank Durant, Montana-Dakota Utilities, Mobridge  
(Registration Committee)  
Everett Pompy, Black Hills Power & Light, Rapid City

#### Municipal Association:

Dave Padgett, Pierre  
Merle Dirksen, Supt. of Light Plant, Miller  
Dan Cotton, Beresford  
Greg Sherman, Electric Utilities, Brookings  
Pete Swanson, Electric Utilities, Watertown

#### Electrical Contractors:

- Dennis Engelstad, Engelstad Electric, Watertown  
- ~~Thomas J. Freeman, Electric Service, Rapid City~~  
- Gene Lothrop, Lothrop Electric Service, Huron

#### Dakotas Chapter:

- ~~Elton Johnson, Elton Electric, Sioux Falls~~  
- ~~James Kellar, Checker Electric, Rapid City~~  
- John Cavanaugh, Service Electric, Brookings

*KVE*