

# Watts CURRENT

**Join us at "Get Wired 2004" Annual Conference  
Hosted by the Huron Chapter of SDEC**

## Featured Speakers:



**Larry Smith**

Larry is one of the few full time professional electrical code trainers/speakers in the country. More than 24,000 electricians, electrical contractors, and engineers have attended his workshops. His mastery of the electrical industry comes from thirty years experience as apprentice electrician, journeyman electrician, master electrician, state electrical inspector, fire and accident investigator, draftsman, electrical estimator, project manager, purchasing agent, electrical contractor, consultant, speaker, trainer, and author.

His vast experience in the industry enables him to bring practical information to his audiences that can be used immediately in their jobs. Larry's message empowers and challenges listeners to apply newly gained skills and knowledge.

He has been cited by the Governor of the State of Nebraska for his contributions to electrical safety.

The Nebraska Chapter of the National Electrical Contractors Association awarded Larry the coveted McMahon Award for his contributions to the electrical contracting industry.

The National Speakers Association recently granted Larry the professional designation of Certified Speaking Professional (CSP). He is the only National Electrical Code® trainer in the United States to be so recognized.

Larry is certified as a code trainer by many states that require electricians to attend code training seminars as a requisite to relicensing. The current list includes Alaska, Idaho, Minnesota, Montana, Nebraska, North Dakota, Ohio, Oklahoma, Oregon, South Dakota, Utah, Washington, Wisconsin, and Wyoming.

Larry is certified as a code trainer by many states that require electricians to attend code training seminars as a requisite to relicensing. The current list includes Alaska, Idaho, Minnesota, Montana, Nebraska, North Dakota, Ohio, Oklahoma, Oregon, South Dakota, Utah, Washington, Wisconsin, and Wyoming.

**J. Philip Simmons**

Phil has been self-employed as Simmons Electrical Services from July 1999 to the present. Services include consulting on the National Electrical Code and other Codes, writing, editing, illustrating and producing technical publications and training materials, presenting at technical seminars and other training sessions and inspection of complex electrical installations. He also provides plan review of electrical construction documents.

Phil served IAEI as Executive Director from 1990 to 1995 and as Education, Codes and Standards Coordinator from 1995 through June 1999. He was IAEI International President in 1987 and also served as Secretary-Treasurer of the Puget Sound Chapter and Northwestern Section. While at IAEI, Phil wrote and edited text, developed and prepared illustrations for the IAEI Soares Book on Grounding of Electrical Systems, Ferm's Fast Finder Index, the IAEI Analysis of the NEC and was the original co-author of Electrical Systems in One- and Two-Family Dwellings. He also served as Editor of IAEI News from 1990 - 1995 and updated the Electrical Inspection Certification Study Guides. He acquired the Ferm's Fast Finder Index and Neon Installations Manual.

Phil previously served as Chief Electrical Inspector for the

*(continued on page 5)*

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*www.sdec.org*

**April 23-24, 2004 • The Crossroads • Huron, SD**

**Inserts — Conference Registration — Also available at [www.sdec.org](http://www.sdec.org)**

## PRESIDENT'S NOTES

### Mike Sprang

The South Dakota Electrical Council Annual Convention offers an excellent opportunity to renew old friendships, discuss our industry, its challenges and benefits, and gain valuable educational experience. Our industry continues to change rapidly. SDEC offers seminars to help you keep up with technology, meetings to create awareness of changes in codes and regulations, and new tools to communicate to our members. I invite everyone to visit the new SDEC Website at WWW.SDEC.ORG. This is a site being developed with the members in mind, please take the time to review it and bring your ideas for making it better to the convention. I am sure that this will be a useful tool for all of us.

I look forward to seeing you in Huron April 23rd & 24th.

## Apprentices & Continuing Education

*All apprentices are required to have the 16 hours of continuing education hours. Only those who obtained their license after July 1, 2003 will be exempt from the requirement for this renewal period.*

### Welcome New Board Members

*Roger Larson  
Francis Holter*

#### SDEC Advertising Rate Sheet

The "Watts Current" is a semi-annual (8 1/2 x 11) publication that is mailed to our membership, and advertisers. The current mailing list exceeds 800 people. We mail the publication in March and September. Ads and articles are due to our office by the 15th of the month prior to publication.

#### Advertising Rates

Full Page .....	\$325.00/year
Approximately 7 1/2 x 9 1/2 .....	\$200/issue
One-half Page .....	\$140/year
Approximately 5 x 7 1/2 or 3 1/2 x 9 1/2 .....	\$75/issue
One-quarter Page .....	\$90/year
Approximately 3 1/2 x 9 1/2 .....	\$50/issue
Eighth Page .....	\$50/year
Approximately 3 1/2 x 2 1/4 .....	\$35/issue

#### For more information contact:

SDEC • Kelli Fuhrmann, Council Administrator  
PO Box 388 • Fort Pierre, SD 57532 • (888) 299-1675 or (605) 945-1675  
sdec@iw.net  
www.sdec.org

## Membership Benefits

- Local chapter meetings: Hub (Aberdeen), Black Hills (Rapid City), Brookings/Watertown, Huron, Oahe (Pierre), and Sioux Falls.
- Semi-annual newsletter "Watts Current"
- Annual conference. This year is scheduled for April 23-24, 2004 in Huron, South Dakota at the Crossroads hosted by the SDEC Huron Chapter.
- Video library, reference materials and more.
- Code and Non-code continuing education classes offered by Local Chapters and at the Annual Conference.

[www.sdec.org](http://www.sdec.org)

**"Support in the Past,  
Strength for the Future"**

### Board of Directors

Mike Sprang ..... President  
Ray Kub ..... Vice-President  
Kelli Fuhrmann ..... Council Administrator

#### Board Members

Jim Foy  
Steven Hietpas  
Francis Holter  
Kevin Kouba  
Marty Larsen  
Roger Larson  
Ted Massey  
Mike Miller  
Ron Nagle  
Tom Nelson  
Layne Richter  
Brad Scott  
Jeff Stone  
Troy Swift  
Linda Wittrock

SUPPORT IN THE PAST  
STRENGTH FOR THE FUTURE



South Dakota  
Electrical Council

[www.sdec.org](http://www.sdec.org)

# SDEC CONFERENCE

## "Get Wired 2004"

April 23-24, 2004

Friday, April 23

- 7:00 a.m. - 10:00 a.m. Registration — Lobby
- 7:00 a.m. - 10:00 a.m. Continental breakfast — Lobby
- 7:30 a.m. - 8:00 a.m. Chapter presidents meeting - Boardroom
- 8:00 a.m. - 9:50 a.m. Classes  
*Larry Smith, NEC - Grand Ballroom A&B (code)*  
*Steve Wegman, Electricity in the Future - Salon I (non code)*  
*John Puetz Safety, OSHA Requirements - Salon II (non code)*  
*J. Philip Simmons, NEC - Symposium (code)*
- 9:50 a.m. - 10:10 a.m. Break
- 10:10 a.m. - 12:00 p.m. Classes  
*Larry Smith, NEC - Grand Ballroom A & B (code)*  
*Steve Wegman, Electricity in the future - Salon I (non code)*  
*John Puetz, Safety, OSHA Requirements - Salon II (non code)*  
*J. Philip Simmons, NEC - Symposium (code)*
- 12:00 p.m. - 1:30 p.m. Luncheon with Annual Meeting - Grand Ballroom C & D
- 1:30 p.m. - 3:20 p.m. Classes  
*Larry Smith, NEC - Grand Ballroom A & B (code)*  
*Bryan Morlock, Cogeneration - Salon I (non code)*  
*Mike Miller, The Journey Continues - Salon II (code)*  
*J. Philip Simmons, NEC - Symposium (code)*  
*Todd Lodico/Dan Hatch, Battery presentation, Boardroom (non code)*
- 3:20 p.m. - 3:30 p.m. Break
- 3:30 p.m. - 5:30 p.m. Classes  
*Larry Smith, NEC - Grand Ballroom A & B (code)*  
*Bryan Morlock, Cogeneration - Salon I (non code)*  
*Mike Miller, The Journey Continues - Salon II (code)*  
*J. Philip Simmons, NEC - Symposium (code)*  
*Todd Lodico/Dan Hatch, Battery presentation, Boardroom (non code)*
- 5:30 p.m. - 6:30 p.m. Social - Grand Ballroom C & D
- 6:30 p.m. Banquet - Grand Ballroom C & D  
*Entertainment by Warren Lotsberg*
- 
- 7:30 a.m. - 9:00 a.m. Registration
- 7:30 a.m. - 9:00 a.m. Continental breakfast — Lobby
- 8:00 a.m. - 9:50 a.m. Classes  
*Larry Smith, NEC - Grand Ballroom A & B (code)*  
*Randy Westberg, Transformer Connections - Symposium (non code)*  
*Mike Miller, You Be The Inspector (code)*  
*SD Electrical Inspectors, NEC code related topics (code)*
- 9:50 a.m. - 10:10 a.m. Break
- 10:10 a.m. - 12:00 p.m. Classes  
*Larry Smith, NEC - Grand Ballroom A & B (code)*  
*Randy Westberg, Transformer Connections - Symposium (non code)*  
*Mike Miller, You Be The Inspector (code) Salon I*  
*SD Electrical Inspectors, NEC code related topics (code) Salon II*
- 12:00 p.m. - 1:00 p.m. Luncheon
- 1:00 p.m. - 3:00 p.m. Classes  
*Larry Smith, NEC - Grand Ballroom A & B (code)*  
*Randy Westberg, Transformer Connections (non code)*  
*Mike Miller, You Be The Inspector (code) Salon I*  
*SD Electrical Inspectors, NEC Code Related Topics (code) Salon II*
- 3:15 p.m. Awarding of Door prizes — Grand Ballroom A & B

## Education4Electricians.com

Exam Preparation and Continuing Education Classes for the Electrical Professional



### Arne Electro-Tech Seminars

P.O. Box 2272  
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 (605) 342-9088 Fax: (605) 342-9087  
 Website: [www.education4electricians.com](http://www.education4electricians.com)  
**1-888-603-5050 toll free**  
 Email: [steve@education4electricians.com](mailto:steve@education4electricians.com)

**Continuing Education is your best investment  
 in YOUR future!**

The Instructor: **Steve Arne** is an experienced Electrician, Licensed Inspector and Certified Technical Educator with over 19 years of full time electrical teaching experience.

## 2002 NEC Code Classes

Approved for 16 hours of code in SD & WY also accepted in NE, ND, MN, MT and more

Rapid City, SD	Holiday Inn Express (Disk Drive)	Apr 30- May 1	Code Update
Rapid City, SD	Holiday Inn Express (Disk Drive)	June 4 - 5, 2004	Code Update
Sioux Falls, SD	Best Western Ramkota	June 18 - 19, 2004	Code Update

**Hours:** 7:45 AM registration, 8 AM-5 PM class: **call in advance to pre-register**

**Cost:** \$167 for 16 hours, (\$107 for 8 hours) for 14 day pre-payment.

## You Can Pass Your Electrical Exam!

### 2002 NEC Electrical Code Calculations for Exam Prep

Approved for 16 hours of code in SD & WY also accepted in NE, ND, MN, MT and more

Rapid City, SD	Holiday Inn Express (Disk Drive)	March 12 - 13, 2004	Exam Prep
Sioux Falls, SD	Best Western Ramkota	May 7 - 8, 2004	Exam Prep
Rapid City, SD	Holiday Inn Express (Disk Drive)	July. 9-10, 2004	Exam Prep
Rapid City, SD	dates & location to be determined:	Sept, 2004	Exam Prep

**Hours:** 7:45 AM registration, 8 AM-5 PM class: **call in advance to pre-register**

**Cost:** Including class workbook: **\$230.00 16 hours** Holt Exam Prep book is optional: \$60

### Call or check our website for additional dates and locations

All classes are subject to enrollment limits and enrollment minimums.

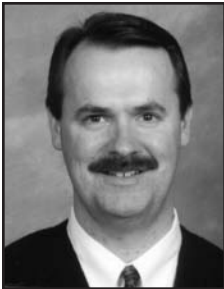
(We may not be able to conduct a class if there is not sufficient pre-enrollment)

(all prices and information are current Feb. 26, 2004 and are subject to change)

**Visa- Master Card- Discover/ Novus- American Express Accepted.**

Visit our Web site at: <http://www.education4electricians.com>

## Additional Speakers:



**John Puetz**

I have been with SDSU since 1983. I have been performing OSHA On-Site Consultation Visits (i.e., through the Grant that is administered by Engineering Extension Office of SDSU through OSHA, etc.) since 1990 for South Dakota Private Employer (i.e., private electrical contractors,

utility companies, manufacturers, construction site, etc.). I have worked with over a 1000 companies / job site audits to assist employers (i.e., with management's commitment to safety & health, hazard recognition, hazard abatement methods, and initial and annual refresher training to new and/or existing employees on safety & health topics, etc.).

I have Bachelors in Science in Electrical Engineering from SDSU in 1987. I will be completing my masters degree, from SDSU, within a few months.

I have been formally trained at the OSHA Training Institute on about 20 different formal courses (i.e., construction safety, fall protection, safe electrical work practices, lockout/tagout, confined spaces, material handling, walking/working surfaces, respiratory usage, asbestos exposure, etc.) that are to assist employers with understanding potential hazards in the workplace.

Have given hundreds of public speeches (i.e., electrical safety, lockout/tagout, machine guarding, respiratory usage, confined space issues, OSHA 10 Hour for Construction and General Industry settings, Asbestos initial and refresher courses following DENR / State of South Dakota requirements, spray finishing safety & health, OSHA Recordkeeping Issues, etc).

Was asked by OSHA to work at the World Trade Center (i.e., performing air monitoring on employees working on the recovery, etc.) after the 09/11 attacks.

Have served on a previous OSHA National Committee for about 2 1/2 years on development and implementation of an Oracle Application to be used by OSHA Compliance and Consultation Staff throughout the nation in an office and/or field settings.

### Mike Miller

Michael worked for Englestad Electric in Watertown, SD from 1971-78. He started Miller Electric in August of 1978 and was incorporated in 1991. His electrical licenses include: SD Electrical Contractor #99, SD Electrical Inspector #185 and ND Master Electrician #2030.

Michael graduated from Watertown High School in 1969. He attended SDSU in Brookings from 1969-1971, his major being journalism. While attending SDSU he worked at KESD-TV and KESD-TV.

Michael is in the SD National Guard and is one of three triplets.



**Bryan B. Morlock, P.E.**

Mr. Bryan Morlock is the Manager of Resource Planning at Otter Tail Power Company in Fergus Falls, MN. His responsibilities include the supervision of the technical and financial analysis of all electricity supply-side alternatives for the regulated utility, working with customer

and non-utility owned generation proposals, the Company's wind development strategy, and representing the Company at the regional power pool level. Prior to joining the planning area, Mr. Morlock worked as a transmission and distribution engineer, designing and supervising the construction of facilities at 69 kV and below. He also has experience in the system operations area involving economic dispatch and unit commitment of generation facilities as well as operation of the high voltage network. Mr. Morlock is a member of the Mid-Continent Area Power Pool Management Committee (alternate representative), and has served on the Accreditation Subcommittee (7 years as chair) that reviews the approved ratings of all generation and wholesale power transactions in the power pool. He was recently elected to the Generation Reserves Subcommittee, and will be assuming the chair position later this year. In the past he has served on the MAPP Engineering Committee, Engineering Steering Committee, Power & Energy Market Committee, and the Reserve Requirements Working Group.

Mr. Morlock is a registered professional engineer in the State of Minnesota and a member of the National Society of Professional Engineers. He is a 1978 graduate of the University of North Dakota with Bachelor of Science degrees in Electrical Engineering and Business Administration. Mr. Morlock is a member of the Institute of Electrical and Electronics Engineers, and Eta Kappa Nu, and Tau Beta Pi honor societies. He is currently serving on the Advisory Council for the Electrical Engineering Department and the Alumni Leadership Council at the University of North Dakota.

### J. Philip Simmons (continued from page 1)

State of Washington from 1984 to 1990 as well as an Electrical Inspector Field Supervisor, Electrical Plans Examiner and field Electrical Inspector. He was owner and manager of Simmons Electric Inc., an electrical contracting company.

Phil is a master electrician and a member of the IBEW. He passed the Electrical Inspector General, Electrical Plan Review; and Electrical 1 and 2 Family certification examinations. He served Underwriters Laboratories, as a Corporate Member and on the Electrical Council from 1985 to 2000. He served on the UL Board of Directors from 1991 to 1995.

Phil presently serves NFPA on Code Making Panel-5 of the National Electrical Code Committee (grounding and bonding). He previously served on CMP-1, as Chair of CMP-19 and member of CMP-17. He served six years on the NFPA Standards Council, as Electrical Section President and on the NEC Technical Correlating Committee.



## Calendar of Events

**April 22, 2004**

Board of Directors Meeting

**April 23-24, 2004**

Annual Conference  
The Crossroads  
Huron, SD

**June 30, 2004**

Continuing Education Deadline

*"Every man owes a part of his time and money to the business or industry in which he is engaged. No man has the moral right to withhold his support from an organization that is striving to improve conditions within his sphere."*

*-Theodore Roosevelt*

New Website:  
[www.sdec.org](http://www.sdec.org)

## Support Your Local Chapter of SDEC

### Black Hills Chapter

Contact — Rich Larsen — 605-348-5104

### Brookings/Watertown Area Chapter

Contact — President Mike Miller — 605-886-8638

### Hub Area Chapter

Contact — Treasurer Bonny Carlson  
605-225-7100  
Francis Holter - 605-229-0227

### Huron Area Chapter

Contact — President Carl Maas — 605-352-8411

### Oahe Chapter

Contact — President Ron Nagle — 605-773-5087

### Sioux Chapter

Contact — President Lowell Behrens  
605-428-6087

***"Support in the Past,  
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*Serving South Dakota's Electrical Industry*

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