

Watts CURRENT

SDEC Annual Conference — April 21-22 Watertown

Speaker Larry Smith



Larry is one of the few full time professional electrical code trainers/speakers in the country. More than 32,000 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.

Larry is a Past Chairman of the Nebraska Chapter of the International Association of Electrical Inspectors.

He is also Past President of the Nebraska Chapter of the National Electrical Contractors Association.

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

The National Speakers Association, in 1999, granted Larry the professional designation of Certified Speaking Professional (C.S.P.). He is the only National Electrical Code(r) trainer in the United States to be so recognized.

Speaker James Stallcup



Upon completion of the apprenticeship program of the JATC in Fort Worth, Texas, James Stallcup, Sr. went on to become a journeyman and master electrician.

Soon after, he became an electrical inspector and from there he went on to become the chief electrical inspector. Through determination and continued study on the numerous codes and standards that are essential to all electrical design and application, he has become a nationally recognized author, instructor, and consultant As President of the Electrical Section of NFPA, Chairman of Code Making Panel 14, and principal member of several technical committees, James Stallcup, Sr. has not only earned a reputation as a knowledgeable and respected authority in the electrical industry but has gained prominence as a nationally known consultant to private enterprise and industry.

The workshops that Mr. Stallcup has conducted and the instruction materials that he has authored over the last two decades precede his reputation. James is the author of nine books that are highly regarded by his peers and is a frequent contributor to trade journals and magazines. Because of his knowledge, practical experience and an ability to tailor workshops and seminars to the varied fields in the electrical industry, he is in constant demand. He maintains a number of licenses and certifications and has received numerous awards from his peers in the electrical industry.

2006 Annual Conference Sponsors

*JH Larson Company • Premier Engineering
Watertown Municipal Utilities • Border States Electric Supply
Northwestern Energy • West Plains Engineering
Cordington-Clark and HD Electric Cooperatives • Graybar Electric*

2006 Annual Conference

Hosted by the Brookings-Watertown Chapter

April 21-22, 2006

Watertown Event Center, Watertown, SD

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www.sdec.org

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PRESIDENT'S NOTES

Ray Kub, P.E.

The mission of the South Dakota Electrical Council is to improve the electrical industry in South Dakota. Presently, we are mainly fulfilling this mission by providing continuing education on the National Electrical Code and providing technical and product knowledge on electrical systems and equipment. These efforts will improve the safety and reliability of the overall electrical system. The citizens of South Dakota depend on us to effectively carry out our mission.

Another enjoyable part of our SDEC Mission is to facilitate goodwill and better communications among our members. The best way to do this is attendance at chapter meetings and the Annual Conference. I think most of the SDEC chapters are providing some social opportunities in addition to the technical and code training and I encourage every member to participate as much as they can.

The SDEC Annual Conference that will be held at the Ramkota Convention Center in Watertown on April 21-22 will provide members another opportunity for excellent code and other training. The annual conferences are also an outstanding opportunity to meet and visit other professionals in the electrical industry of South Dakota. I encourage all members to participate in the Annual Conference and the other opportunities provided by the SDEC.

Feel free to contact or call me anytime with comments or suggestions as to how I or the State Board of Directors can improve and meet the goals of the SDEC Mission. My E-mail address is ray@kub.nu and my phone number is 1-605-426-6580.

Videos For Sale
NEC Expert 2002
One Set of 5 — \$200.00

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

Current Board Members



Left to Right Front Row - Brad Scott, Mike Sprang, Jeff Stone, Ray Kub, Kevin Kouba
Left to Right Back Row - Marty Larson, Roger Larson, Ron Nagle, Troy Swift, Mike Miller, Mark Joffer, Craig Anderson
Not pictured: Carl Maas and Tom Nelson.

Website:
www.sdec.org

Upcoming Board Meeting

April 20, 2006
Watertown, SD

Board of Directors

Ray Kub President
 Mike Miller Vice-President
 Kelli Fuhrmann Council Administrator

Board Members

- Craig Anderson
- Steven Hietpas
- Mark W. Joffer
- Kevin Kouba
- Marty Larsen
- Roger Larson
- Carl Maas
- Ron Nagle
- Tom Nelson
- Brad Scott
- Mike Sprang
- Jeff Stone
- Troy Swift

*SUPPORT IN THE PAST
 STRENGTH FOR THE FUTURE*



**South Dakota
 Electrical Council**
www.sdec.org

**SOUTH DAKOTA ELECTRICAL COUNCIL
HOSTED BY THE BROOKINGS / WATERTOWN CHAPTER
ANNUAL CONFERENCE SCHEDULE**

Friday, April 21st

7:00 AM	10:00 AM	Registration/Continental Breakfast	Code
<i>Coffee/Tea sponsored by: Premier Engineering, Inc./Watertown Municipal Utilities</i>			
8:00 AM	9:50 AM	Tom Nelson (NEC)	Y
8:00 AM	9:50 AM	James Stallcup (Generator and Motors)	Y
8:00 AM	9:50 AM	Mike Ropp (Photo Voltaic Technology)	Y
8:00 AM	9:50 AM	Jerry Lush (Stray Voltage)	N
8:00 AM	9:50 AM	Larry Smith (NEC)	Y
9:50 AM	10:10 AM	Break	
<i>Coffee/Tea sponsored by: Border States Electric Supply/Northwestern Energy</i>			
10:10 AM	12:00 PM	Tom Nelson (NEC)	Y
10:10 AM	12:00 PM	James Stallcup (Generator and Motors)	Y
10:10 AM	12:00 PM	Mike Ropp (Solar Power & PV systems)	N
10:10 AM	12:00 PM	Craig Anderson (Dimming Technology)	N
10:10 AM	12:00 PM	Ditch Witch (Trenching/Boring)	N
10:10 AM	12:00 PM	Larry Smith (NEC)	Y
12:00 PM	1:30 PM	Lunch/Business Meeting	
1:30 PM	3:20 PM	James Stallcup (Generator and Motors)	Y
1:30 PM	3:20 PM	Brian Swanson (Interstate Power)	Y
1:30 PM	3:20 PM	Jerry Lush (Stray Voltage)	Y
1:30 PM	3:20 PM	Josh Petersen (Asbestos in the Construction Industry)	Y
1:30 PM	3:20 PM	Larry Smith (NEC)	Y
3:20 PM	3:40 PM	Break	
<i>Coffee/Tea sponsored by: West Plains Engineering/JH Larson Co.</i>			
3:40 PM	5:30 PM	IAEI Code Class (local presenter)	Y
3:40 PM	5:30 PM	James Stallcup (Generator and Motors)	Y
3:40 PM	5:30 PM	Mike Miller (You be the Inspector 2006)	Y
3:40 PM	5:30 PM	Larry Smith (NEC)	Y
5:30 PM	7:00 PM	Social Hour	
<i>Sponsored by:</i>			
7:00 PM	9:00 PM	Banquet & Person of the Year Award	
Keynote Speaker: Mr. Bob Sahr, PUC Commissioner			

Saturday, April 22nd

7:00 AM	10:00 AM	Registration/Continental Breakfast	
<i>Coffee/Tea sponsored by:</i>			
8:00 AM	9:50 AM	Steve Wegman (Wind Power)	N
8:00 AM	9:50 AM	Mark Joffer (Engineering Code View)	Y
8:00 AM	9:50 AM	Mike Miller (You be the Inspector 2006)	Y
8:00 AM	9:50 AM	Josh Petersen (Asbestos in the Construction Industry)	N
8:00 AM	9:50 AM	Larry Smith (NEC)	Y
8:00 AM	9:50 AM	James Stallcup (Generator and Motors)	Y
9:50 AM	10:10 AM	Break	
<i>Coffee/Tea sponsored by: Codington-Clark and HD Electric Cooperatives</i>			
10:00 AM	3:00 PM	Spouse Program	
<i>Tours, Mall Shopping, Lunch</i>			
10:10 AM	12:00 PM	Mark Joffer (Engineering Code View)	Y
10:10 AM	12:00 PM	Steve Wegman (Wind Power)	N
10:10 AM	12:00 PM	Craig Anderson (Dimming Technology)	N
10:10 AM	12:00 PM	Larry Smith (NEC)	Y
10:10 AM	12:00 PM	James Stallcup (Generator and Motors)	Y
12:00 PM	1:00 PM	Lunch/Business Meeting	
1:00 PM	2:45 PM	Inspector's Q & A	
1:00 PM	2:45 PM	Brian Swanson (Interstate Power)	N
2:45 PM	3:00 PM	Break/Door Prize Drawing	
<i>Coffee/Tea sponsored by: Graybar Electric</i>			
3:00 PM		Conference Adjourns	

Tentative Agenda

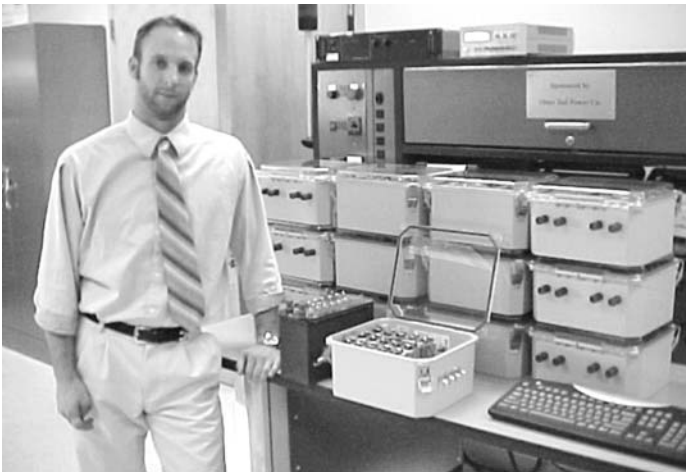


Thank You to the SDEC from the SDSU Electrical Engineering Department

Dear SDEC Members,

On behalf of South Dakota State University and the Electrical Engineering and Computer Science Department, I want to thank the SDEC and its membership in their \$1000 support towards the purchase of components required to build programmable capacitor banks. The total cost of the project was on the order of \$6000.

Pictured below is one of our instructors (Cory Mettler) standing next to the new capacitor banks, sitting on top of one of the workbenches located in the SDSU energy laboratory. Cory finished his undergraduate and graduate degrees at SDSU and had the dubious honor of working with the old capacitor banks.



The small black box is one of the old (50 years old) capacitor banks that have now been replaced. The old banks ranged from 0.5 to 31.5 microfarads. The new banks range from 8 to 120 microfarads. The voltage range is 600 Vac at 60 Hz.



Here is a close up view of the new capacitor bank which allows student to see the components and wiring. The switches on the side of the capacitor bank allow the student to adjust the capacitor any one of the following values: 0, 8, 16, 24, 32, 40, 48, 64, 72, 80, 88, 96, 104, 112, and 120 microfarads.

Unlike in the old capacitor banks, we placed the switches and the brass connectors on different sides of the box to improve on safety for the students. The Plexiglas cover with latches also makes them easy to maintain.



With these new capacitor banks, the quality of the laboratory exercises has already greatly increased. Students are obtaining better values throughout their laboratory exercises and feel generally pleased with the new capacitor banks.

Sincerely,

Steven Hietpas, Ph.d., P.E.
Professor, Electrical Engineering Program
Coordinator

2006 Annual Conference

Hosted by the Brookings-Watertown Chapter

April 21-22, 2006

Watertown Event Center, Watertown, SD

2005 NEC Code Classes

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The Instructor: **Steve Arne** is an experienced Electrician, Licensed Inspector and Certified Technical Educator with over 20 years of electrical teaching experience. Steve is the Technical Editorial Director for Mike Holt Enterprises.

2005 Code Update Classes

NEC Update (Code Changes with Grounding vs. Bonding emphasis)

Approved for 16 hours of Code in SD & WY and also accepted in other states

Sioux Falls, SD	City Centre Holiday Inn	Feb. 24 -25, 2006	Code Update
Chamberlain, SD	Chamberlain, Cedar Shore	Mar. 24 - 25, 2006	Code Update
Custer, SD	Star Academy	Mar. 28 - 29, 2006	Code Update
Rock Springs, WY	Holiday Inn	April 4 - 5, 2006	Code Update
Gillete, WY	Best Western Tower West	April 28 - 29, 2006	Code Update
Rapid City, SD	Rushmore Plaza Holiday Inn	May 12 - 13, 2006	Code Update
Rapid City, SD	Rushmore Plaza Holiday Inn	June 2 - 3, 2006	Code Update
Rapid City, SD	Best Western Ramkota	June 23 - 24, 2006	Code Update

Hours: 7:40 AM registration, 8 AM class: **PLEASE REGISTER at AETech.com or PHONE 605-342-9088**

Cost: **\$185.00 for 16 hours / \$130.00 for 8 hrs/ \$85.00 for 4 hrs Includes Mike Holt Code Changes book**

Discount: Advance Registration, paid 14 days before class: **\$175.00 for 16 hours / \$120.00 for 8 hrs**

Price includes Mike Holt Code Changes book and most classes include lunch

Code classes are available for your company at your site. Call us for details.

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Complete your continuing education requirements while you study for a licensing exam!

Approved for 16 hours of Code in SD & WY and also accepted in other states

Sioux Falls, SD	City Centre Holiday Inn	Mar 10 - 11, 2006	Exam Prep
Cheyenne, WY	Holiday Inn	April 7 - 8, 2006	Exam Prep
Rapid City, SD	Rushmore Plaza Holiday Inn	May 26 - 27, 2006	Exam Prep
Rapid City, SD	Rushmore Plaza Holiday Inn	July 7 -8, 2006	Exam Prep
Rapid City, SD	Rushmore Plaza Holiday Inn	Sept. 8 -9, 2006	Exam Prep
Sioux Falls, SD	Ramkota	Nov. 10 - 11, 2006	Exam Prep
Rapid City, SD	Rushmore Plaza Holiday Inn	Dec.8 - 9, 2006	Exam Prep

Hours: 7:40 AM registration, 8 AM class: **PLEASE REGISTER at AETech.com or PHONE 605-342-9088**

Cost: **\$350.00 16 hours** Including Mike Holt's Exam Prep book (required): **\$295.00** without book

Discount: Advance Registration, paid 14 days before class date: **\$330.00** with book, **\$275.00** without book

Exam Prep Guarantee: If you do not pass your electrical exam after taking this class, you can retake it for half price!

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All classes are subject to enrollment limits and enrollment minimums.

(all prices , dates, and locations are tentative and are subject to change)



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Calendar of Events

April 21-22, 2006

Annual Conference

Hosted by the Brookings-Watertown Chapter
Watertown Event Center, Watertown

Registration forms enclosed

Website:
www.sdec.org

"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

Mission Statement

Founded on December 3, 1952, the South Dakota Electrical Council's purpose is to promote and improve the electrical industry within South Dakota. The council strives to promote technical and product knowledge, continuing education, and better communication among its members through trade shows, joint utility training, newsletters, awards and individual chapters of the South Dakota Electrical Council. The SDEC and its membership are committed to building cooperation, fostering goodwill, and developing pride among all segments of the electrical industry.

Serving South Dakota's Electrical Industry

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