

REGISTRATION

Sign Up Form

	Before April 1	After April 1
<input type="checkbox"/> NDSPE Member Entire Conference (Includes Banquet)	\$175.00	\$200.00
<input type="checkbox"/> Non Member Entire Conference (Includes Banquet)	\$225.00	\$250.00
<input type="checkbox"/> Student Rate—Entire Conference	\$50.00	\$75.00
<input type="checkbox"/> Banquet Tickets (each)	\$35.00	\$50.00
<input type="checkbox"/> Order of Engineer Ring	\$20.00	n/a
<input type="checkbox"/> Ring Size		
TOTAL		

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Name & Designation

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Please mail with Check to:

NDSPE
1811 East Thayer Avenue, Bismarck, ND 58501
701.222.3499

No Refunds after April 1st

SPONSORSHIP

NDSPE is graciously requesting your support of the conference. Sponsorship opportunities are due by March 30th, 2017:

-  **Platinum Sponsorship \$1,500—Gold plus 1** free conference registration (\$250 Value)
-  **Gold \$1,000 + Silver plus** Sign at Conference + (1) year NEW Licensed Membership to NDSPE & NSPE (\$220 value)
-  **Silver Sponsor \$500 - Bronze plus** Hyperlink on Web + (1) year NEW Licensed Associate Membership to NDSPE (\$90 value)
-  **Bronze Sponsor \$250 -** Graphic Listing + (1) year NEW Affiliate membership to NDSPE (\$90 value)

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76th

ANNUAL CONFERENCE

**North Dakota Society
of Professional Engineers
April 17-19, 2017**

Ramada Inn
1205 N 43rd Street

Grand Forks, ND

Phone: (701) 775-3951

Hosted By: Chapter 1 – Grand Forks

North Dakota Society of Professional Engineers
*A State Society of the National Society of
Professional Engineers*



We don't make engineers, we make engineering leaders

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AGENDA — NDSPE ANNUAL MEETING

Monday, April 17, 2017

4:00 PM NDSPE Board Meeting (General Membership Invited)

5:00—6:30 PM Engineering Student Networking

6:00-9:00 PM Conference Kickoff Social - Banquet Room

Tuesday, April 18, 2017

7:15 AM Registration Opens

7:30-8:00 AM Breakfast

8:00 AM NDSPE Welcome by **Lance Meyer**,
NDSPE President & Introduction of Dignitaries

8:15 AM Education Session 1
Brian Kalk, EERC
Energy Development - The Road Ahead

9:15 AM Break

9:30 AM Education Session 2
Dave Hambleton, Northrup Grumman
UAS Presentation

10:30 AM Break

10:45 AM NDSPE Annual Meeting

11:45 AM Lunch
Mark Golden, FASAE, CAE Executive Director of NSPE
Update by NSPE Leadership

1:30 - 2:30 PM Education Session 3
Trevor Woods, Northern Plains
Northern Plains Test Site - UAS Presentation

2:30 - 5 PM Education Session 4 (Tour)
Northrup Grumman

6:00 PM Banquet Social
6:30 PM Banquet Meal
7:15 PM Awards Presentation, Installation of Officers
7:45 PM Banquet - POY Presentation
2017 Project of the Year (POY) Winner

Conference continued...

Wednesday, April 19, 2017

7:00 AM Breakfast Buffet (All Registered Attendees)

7:00-8:00 AM
Education Foundation Breakfast (Board Members) &
Educational Foundation Board Meeting (?)

8:15 AM Education Session 5
Grand Forks Central STEM Presentation
NASA Engineering Design Challenge

9:15 AM Break

9:30 AM Education Session 6
Bad Morrison, Excel Energy
The Development & Construction of Courtenay Wind Farm

10:30 AM Break

10:45 AM Education Session 7
Nicholas Erpelding & Sara Schmidt, SRF
Traffic Signal Operations

11:45 AM Closing Remarks and Conclusion

12:15 PM NDSPE Board of Directors Lunch Meeting
(Invite only)

**For more information, or to pay by credit card
please visit our website at WWW.NDSPE.ORG**

For Hotel Accommodations contact:
Ramada Inn
1205 N 43rd Street, Grand Forks, ND 58503
Phone: (701) 775-3951
***Ask for NDSPE Group Rate**

Brian Kalk

Dr. Brian P. Kalk is the Director of Energy Systems Development at the EERC, where he leads a multidisciplinary team of scientists and engineers focused on research, development, and commercialization of innovative energy technologies as they relate to coal utilization and emissions, carbon management, and alternative fuels and renewable energy. He holds a Ph.D. degree in Natural Resource Management and an M.S. degree in Environmental Engineering from North Dakota State University and a B.S. degree in Social and Political Science from Campbell University, Buies Creek, North Carolina. Dr. Kalk began his career in the Marine Corps, where he served overseas in Desert Storm, Bosnia, and Iraq and participated in the evacuation of the American Embassies in Liberia and the Central African Republic. State-side tours included Environmental Compliance Officer at Camp Pendleton California and Logistics Officer for numerous units. He retired in 2006 as a Major. Upon retirement, Dr. Kalk joined North Dakota State University, teaching courses in Natural Resources, Logistics, and Political Science. From 2009 to 2017, he served as a member and Chair of the North Dakota Public Service Commission, where he held portfolios in Electric Generation and Transmission, Pipeline Safety, and Telecommunications.

Dr. Kalk's principal areas of interest and expertise include pipeline safety, species management, electric generation, and transmission planning. He is a member of the National Coal Council. Dr. Kalk has also served as President of the Midwest Area Regulatory Commissioners, Chair of the Clean Coal and Carbon Management Committee of the National Association of Regulatory Commissioners, and member of the 2015 U.S. Department of Energy Clean Coal Technology delegation to China. He has presented on numerous technical topics and provided input, review, and oversight on state and federal energy policies.

Trevor Woods

Trevor Woods is the Director of Operations for the Northern Plains UAS Test Site (NP UAS TS). He graduated from the University of North Dakota (UND) with a B.B.A. in Aviation Management in 2008 and is currently working on an M.B.A. Trevor started as a Flight Instructor at UND in 2009 and in 2010 joined UND's Ground Based Sense and Avoid project supporting the deployment of Unmanned Aircraft Systems operations. In 2011, he transitioned into the University's UAS Center of Excellence program where he supported the research and development efforts in Airborne Sense and Avoid used in collaboration with NASA Langley Research Center; and worked as a member of a team to develop the curriculum and research human factors in collaboration with the Air Force Research Laboratory project. Trevor was a contributor to North Dakota's efforts to become one of the six FAA designated UAS Test Sites and has been involved from the beginning in the standup and development of the Northern Plains Unmanned Aircraft Systems Test Site. He initially took on the role as the Airspace Manager leading and managing the Test Site's regulatory approvals, as well as coordinating and managing UAS flight operations. He has since transitioned into the role as Director of Operations and has been responsible for the execution of major projects under the operational oversight of the Test Site. Trevor is one of the key subject matter experts in the continuing development of Beyond Visual Line of Sight UAS operations in northeastern North Dakota.

Brad Morrison

Brad Morrison, PE, is a Project Manager in the Energy Supply Engineering and Construction group for Xcel Energy with over 17 years of combined structural engineering and project management experience. Early in his career, he provided structural and seismic design solutions for commercial, retail and office buildings, hospitals, churches, event centers and multi-story housing.

During his time at Xcel Energy, Brad has supported a range of projects including power plant retrofits and repairs, construction of new combined cycle gas combustion power plants, remediation and demolition of existing coal plants, and solar and wind projects. Brad recently managed the Courtenay Wind Project that came on line in 2016 in North Dakota and is overseeing the large portfolio of other wind projects Xcel Energy plans to add to its fleet.

Brad has a Bachelor of Science Degree from North Dakota State University, and is a registered Professional Engineer in the State of Minnesota. He is a member of American Wind Energy Association (AWEA), American Society of Civil Engineers (ASCE), American Institute of Steel Construction (AISC) and Minnesota Society of Professional Engineers (MSPE).

David Hambleton

Dave Hambleton is the Grand Sky Program Manager for the Autonomous Systems Division of Northrup Grumman Aerospace Systems, a premier provider of manned and unmanned aircraft, space systems and advanced technologies critical to our nation's security. In this role, which he assumed in February 2017, Dave is responsible for executing the work Northrup Grumman places at its facility within the Grand Sky UAS Business and Aviation Park adjacent to Grand Forks AFB, ND. This includes guiding company investments in the facility, and leading the technical, programmatic, and logistics team working at Grand Sky.

Before joining Northrup Grumman in 2010, he retired from the United States Air Force with over 21 years of military experience as an intelligence officer. During his AF career he served in positions supporting or conducting Combat Air Force, ISR, and Special Operations. He commanded an intelligence squadron, and held various staff positions to include Headquarters US Air Force, and Air Combat Command. He was an instructor at the USAF Weapons School, and has combat experience in Air Operations Center, Joint Task Force, Fighter Wing, and Air Force Distributed Common Ground System (AF DCGS) organizations in Operations DESERT STORM, SOUTHERN WATCH, ENDURING FREEDOM, AND IRAQI FREEDOM.

Dave earned a Bachelor of Science degree in Mechanical Engineering from Rensselaer Polytechnic Institute in 1989 and a Master of Aeronautical Science degree from Embry Riddle Aeronautical University in 2003. He graduated from the USAF Weapons School's Intelligence Weapons Instructor Course in 1994. He lives in Grand Forks, ND.

Nicholas Erpelding, PE, PTOE

Nick has 16 years of experience in traffic and transportation engineering with a focus on traffic signal operations. His projects include signal timing optimization and implementation for hundreds of intersections across North Dakota, Minnesota and Wisconsin, traffic signal design, Transit Signal Priority deployment and evaluation, and ITS planning and design. Nick's other traffic engineering experience includes roadway lighting design and traffic impact study preparation. Nick is licensed as a Professional Traffic Operations Engineer and holds a Bachelor's degree in Civil Engineering from the University of Notre Dame.

Sara Schmidt, EIT

Sara has 10 years of experience in traffic and transportation engineering with an emphasis on traffic safety and traffic signal design. She has assisted on both small- and large-scale projects for various North Dakota cities and counties. Sara has been involved in the beginning stages of projects collecting traffic and existing conditions data, to preliminary and final stages by preparing study reports, cost estimates and plans and specifications. She has expertise in using current design software to efficiently analyze options to improve design characteristics and safety. Sara is an Engineer-In-Training and holds a Bachelor's degree in Civil Engineering from North Dakota State University.

Mark Golden

Mark J. Golden, CAE, FASAE, is the executive director and corporate secretary of the National Society of Professional Engineers appointed to this position on January 31, 2013.

Golden most recently served as the executive director and chief executive officer of the National Court Reporters Association, where he also served as the vice president of the International Federation for Information and Communication Processing, Brussels, representing the U.S. within this international federation. Before joining NCRA in 1998, Golden spent eight years with the Personal Communications Industry Association. He directed PCIA's legislative, regulatory, and industry development activities, and he was deeply involved with the Federal Communications Commission, within international standards bodies, and before Congress to help create the favorable environment for introducing affordable wireless telephone and texting services in the U.S. Golden also spent 12 years with the Association of Telemessaging Services International, where he created government relations programs focused on enhanced communication services.

In 1995, Golden was inducted into ASAE's Fellows program, one of only six association executives nationwide to be so honored that year and an honor bestowed upon less than one percent of ASAE's 21,000 members. In 2011, he was again honored as the recipient of ASAE's highest honor, the Key Award, given in recognition of an association CEO who "demonstrates exceptional qualities of leadership in his or her own association, and displays a deep commitment to voluntary membership organizations as a whole."

An honors graduate of the University of Virginia, Golden holds degrees in English and theater. He and his wife, Annette, reside in Clifton, Virginia, and have one son, John Alexander