



Survey 2018 Conference & Expo

**Thursday - Friday
November 1 & 2, 2018
Atlantic Sands Hotel & Conference
Center
Rehoboth Beach, DE**

ABOUT THE CONFERENCE

Survey 2018 will be held at the Atlantic Sands Hotel & Conference Center in Rehoboth Beach, DE. The two-day conference will once again be filled with informative sessions, lunches and breaks, and a cocktail reception on Thursday, all held in and around the Exhibit Hall which, incidentally, looks out at the Atlantic Ocean.

Again this year, both two hour classes as well as four hour classes will be held in an attempt to give people more selection.

The conference opens at 7:30 am on Thursday with a continental breakfast in the Exhibit Hall. The morning sessions begin promptly at 8:00 am and end at noon. Lunch will be served from noon until 1:00 pm. The afternoon sessions begin at 1:00 pm and will conclude at 5:00 pm. There will be two breaks, one in the morning and one in the afternoon, held in the Exhibit Hall to provide registrants and exhibitors several chances to network. At the conclusion of the day on Thursday, there will be a cocktail reception held in the Exhibit Hall.

Friday begins again at 7:30 am with a continental breakfast in the Exhibit Hall. The format for the day is the same as Thursday with the morning sessions beginning at 8:00 am and ending at noon, and the afternoon sessions beginning at 1:00 pm and ending at 5:00 pm. Lunch will be served at noon. The conference concludes with the end of the afternoon sessions at 5:00 pm.

Several drawings for products and services will be held throughout the two days. In addition, there will be a Toys for Tots dropoff box located near the Exhibit Hall and we ask that you bring a new toy as a donation toward this very worthy cause. Raffle tickets will be available for purchase during the two days and drawings will be held for various prizes and gifts.

Please fill out the registration form completely and legibly, with your name listed as you want it shown on the Conference Certificates. It is from this form that those certificates are generated. Make your check payable to "DAS" and mail the completed form and payment to DAS. Credit cards are also accepted and a form is included with this packet. This year some classes will have limited seating and will be filled on a first come, first serve basis. Registration is not complete until full payment is received.

Continuing Education Units (CEU) will be computed from signatures on sign-in sheets in each of the classrooms and certificates will be formulated from those sheets and mailed to the registrants after the conference.

EXHIBITS, EXHIBITS, EXHIBITS

The Exhibit Hall will open at 7:30 am on Thursday and will remain open all day. It will reopen on Friday again at 7:30 am and will remain open through the afternoon. The Exhibit Hall will be the focal point of the conference to allow vendors and registrants ample opportunity to visit and network. The breaks will be held there on both days, as well as the cocktail reception on Thursday afternoon. Be sure to take advantage of this gathering of exhibitors and their products. Visit with them as they demonstrate their expertise and the goods and services they provide. Without these vendors, the annual DAS conference would not be possible.

The DAS registration and information table will be located in this area as well. Lunches will be held in the Exhibit Hall.

REFUND/CANCELLATION POLICY

Cancellations must be received on or before October 25, 2018 in order to receive a refund. A \$75.00 processing fee will be charged for any requested refunds.

HOTEL ACCOMMODATIONS

Overnight accommodations are the responsibility of the registrants and vendors. You can make reservations at The Atlantic Sands by calling 302-227-2511 or 800-422-0600. Reference Booking ID 9082 and the Delaware Association of Surveyors to receive the group discount until October 1. Remember that the hotel's cancellation policy is in effect so be sure to check with them directly about that. DAS has nothing to do with overnight accommodations. The Atlantic Sands is located at 101 N. Boardwalk in Rehoboth Beach, DE. Many shops and restaurants are still open at this time on the Avenue and Boardwalk. For more information, contact the hotel directly. There are also several other hotels in the area that are open.

CONFERENCE INFORMATION

Email: desurveyors@gmail.com

Phone/Text: 302-462-5293 Fax: 888-440-7624

CONFERENCE REGISTRATION

Atlantic Sands Hotel & Conference Center

November 1-2, 2018

Please print all information legibly and as you wish it to appear on your badge and where you want your certificate mailed.

Name: _____

Please Check:

Firm(if part of mailing address): _____

_____ DAS Member

Address: _____

_____ Non Member

_____ Guest

Phone: _____ Email: _____

	Before 10/23	After 10/23
_____ Member Registration - 2 day	\$ 360.00	\$ 385.00
_____ Non Member Registration - 2 day	\$ 535.00	\$ 585.00
_____ Member Spouse Registration - 2 day	\$ 210.00	\$ 235.00
_____ Member Registration - 1 day	\$ 260.00	\$ 285.00
_____ Non Member Registration - 1 day	\$ 360.00	\$ 410.00

TOTAL ENCLOSED: \$ _____

COURSE SELECTION

THURSDAY MORNING SESSION

THURSDAY AFTERNOON SESSION

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|--|--|
| _____ GNSS Basics & More for Surveyors <u>8:00-10:00 am</u> (2) | _____ Amazing Stories of Liability Traps <u>1:00 - 5:00 pm</u> (4) |
| _____ Laser Scanning in Today's Business Landscape <u>10:00-Noon</u> (2) | _____ Control Networks & Right of Way Mosaics <u>1:00-3:00</u> (2) |
| _____ Client Communications – Lifeblood of Business <u>8:00-Noon</u> (4) | _____ Underground Utility Locating <u>3:00-5:00 pm</u> (2) |

FRIDAY MORNING SESSION

FRIDAY AFTERNOON SESSION

- | | |
|---|--|
| _____ NGS/ 2022 Datums <u>8:00 – Noon</u> (4) | _____ Introduction to GIS & Project Tracking <u>1:00- 5:00pm</u> (4) |
| _____ Wetlands <u>8:00 – 10:00 am</u> (2) | _____ Ethics & Land Surveying <u>1:00 – 3:00 pm</u> (2) |
| _____ Unmanned Aerial Systems <u>10:00 – Noon</u> (2) | _____ Monitoring Solutions <u>3:00 – 5:00 pm</u> (2) |

Fill out this form entirely and mail, with your payment, to
DAS,
9210 Slice Court, Wilmington, NC 28412
Credit Cards accepted. Please download the authorization form and fax to 888-440-7624.

Questions - Email: "desurveyors@gmail.com"

Phone/Text: 302-462-5293

Morning Sessions

GNSS BASICS & MORE FOR PROFESSIONAL SURVEYORS

Presented by Tommy Nichols

The course will start with GNSS brief history and Fundamentals. During the session we will investigate some documented best practices for surveying with Static & RTK. Although guidelines can vary, they do provide a reasonable standard for Static & RTK collection practices. However, GNSS modernization has brought the addition of more satellites in newer constellations, as well as additional signal sources. Equipment advancement allows us to utilize these satellites and signals to deliver faster acquisition and resolution of ambiguities, and better results in challenging environments. Additionally, tilt sensors now offer the opportunity for unprecedented productivity. “Best Practices” are illustrated throughout the discussion. We will learn how to provide extreme productivity while providing highest quality to meet or exceed our client’s needs. **Two Credits will be available upon the completion of the course.**

LASER SCANNING IN TODAY’S BUSINESS LANDSCAPE

Presented by Brian Elbe

Course objectives will include learning the basics of laser scanning, learning why some firms use their scanners mainly for surveying applications, a discussion on breaking into new markets and developing scanning into a standalone service, and discussing the return on investment examples. **Two Credits will be available upon the completion of the course.**

CLIENT COMMUNICATIONS – THE LIFEBLOOD OF BUSINESS

Presented by William E. Beardslee, P.E., P.L.S., P.P.

From the initial pre-proposal meeting to as-built completion, no technical skill or knowledge is as important to sustaining business as the communication between the professional and the client. **Four credits will be available upon completion of the course.**

Afternoon Sessions

AMAZING STORIES OF LIABILITY TRAPS THAT ENSNARED A SURVEYOR

Presented by Mark Amirault

During this four hour presentation, Mark Amirault of the Klein Agency will touch on recent issues where a surveyor was faced with potential legal action. During the presentation and Q&A session, our attendees will see the root of the cause, how the problem could have been avoided, how the issue was resolved, and what lessons we can learn from the experience. **Four credits will be available at the completion of the course.**

CONTROL NETWORKS & RIGHT OF WAY MOSAIC

Presented by Danny Simmons, PLS and Kelly Katz, PLS

Included with this presentation will be a discussion about determinations for large scale Right-of-Way Mosaics and the control networks they are based on. Time permitting, an update on the latest NCEES discussions and initiatives will be covered. **Two credits will be available at the completion of this session.**

SURVEYING THE UNDERGROUND: AN INTRODUCTION TO THE PRACTICE OF SUBSURFACE UTILITY ENGINEERING

Presented by Michael T. Maguire, M.A., L.S.

A presentation on the art and science of subsurface utility investigation, surveying and mapping including what surveyors need to know about locating underground utilities. Topics to be covered include the Delaware Underground Utility Damage Prevention and Safety Act (Miss Utility) law, an introduction to ASCE 38-02 the *Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data*, and an overview of techniques and practices for locating and mapping underground utilities. **Two credits will be available upon the completion of the course.**

Morning Sessions

NGS/2022 DATUMS

Presented by Scott Lokken

Topics to be covered include a discussion of the new 2022 datums and related changes to the State Plane Coordinate system, demonstration of NGS Toolkit items including the new NGS Coordinate Conversion and Transformation Tool, Datasheet retrieval tools and other miscellaneous applications, and OPUS (Static, RS, Sharing and a OPUSprojects). **Four credits will be available upon completion of this course.**

A LOOK AT WETLANDS & THE LAWS AND POLICIES THAT PROTECT THEM

Presented by James C. McCulley, IV, PWS

This course will look at the laws and policies that protect the environment at the Federal, State and local level. It will look at the mapping of Environmentally protected areas as well as the permit process. Points will be illustrated through specific Delaware examples and case studies. **Two credits will be available upon completion of this course.**

UNMANNED AERIAL SYSTEMS

Presented by Bryan Baker

With the advent of Unmanned Aircraft Systems (UAS) in the land surveying industry, many surveyors are evaluating this technology for their organization. UAS is unlike any previous technology implemented by surveyors and involves many hurdles to implementing. It is not simply a matter of picking out an aircraft and buying some software. This class will cover the pros and cons of the technology and the ins and outs of implementing a UAS program. You will come away with a much better understanding of UAS capabilities, limitations, how it aligns to your organization's strategy. **Two credits will be available upon completion of this course.**

Afternoon Sessions

INTRODUCTION TO GIS AND PROJECT TRACKING

Presented by Brian J. Naberezny, PLS, GISP

This hands-on workshop is intended for those without any experience with Geographic Information Systems (GIS). A short lecture will introduce fundamental concepts that will be demonstrated through hands-on exercises. Please refer to the separate sheet for complete description of this course and requirements. **Four credits will be available upon completion of this course.**

ETHICS & LAND SURVEYING

Presented by Frederick Schranck, Esq.

This course will cover: Landlocked parcel within City limits – new litigation, 17 Del.C. Section 509 and how it works, ROW Vacation/Abandonment, Encroachment issues, Case Study in survey research, field methods for confirmation, and the dangers of old deed descriptions, Kitts Hummock Case Study – historic development and current conflicts, Delaware's Road Atlases – uses and warnings, and Stormwater facility design litigation. **Two credits will be available upon completion of this course.**

MONITORING SOLUTIONS AND THE FINESSE SURVEYOR

Presented by William Derry, PLS

The Monitoring presentation will give an overview of what structural monitoring is, typical applications, techniques and technology used, current trends, and some examples of recent projects. Every site presents its own unique challenges, ranging from home to establish and maintain communications, gaining access to the areas of interest, or collecting data over large areas efficiently and accurately, requiring customized solutions to meet project specifications and client needs. Technologies discussed will include cellular and radio communication, prism measuring systems, reflector less applications, scanning applications, the use of GNSS as a standalone or in unison with other instruments, high precision radar and how all these data sources are brought together into a single software system to allow control, analysis, adjustment, notifications and reporting. The attendee will leave this session with a general working knowledge of when monitoring technology can be applied and how it can be used to reduce costs and increase profitability, while producing highly accurate and precise results for their clients. **Two credits will be available upon completion of this course.**

Introduction to GIS and Project Tracking

Presented By: Brian J. Naberezny, PLS, GISP

For: Delaware Association of Surveyors

Friday November 2, 2018

This half-day hands-on workshop is intended for those without any experience with Geographic Information Systems (GIS). A short lecture will introduce fundamental concepts that will be demonstrated through hands-on exercises. Attendees will create a GIS project and import background imagery and street maps. Other datasets including geodetic control, FEMA flood hazard mapping, and National Wetlands Inventory will be added to the project. Methods for querying and analyzing these datasets will be practiced and attendees will discuss the usefulness of these datasets when consulting with clients concerning potential projects.

Discussion of how surveyors store and access their project files and how storing project information in a GIS can benefit their workflow. Attendees will import sample datasets utilizing several scenarios to demonstrate the advantages and disadvantages of each. Attendees should leave this workshop with a functioning GIS containing access to several resources valuable to surveyors and with the knowledge of how to perform basic queries and add their own project information to the GIS.

Attendees must supply and bring their own laptops in order to participate in this workshop. Laptops must have a USB port and wireless internet adapter. Power outlets and wireless internet connection will be provided. Approximately two weeks prior to the workshop attendees will receive instructions on how to download, install, and license a free-trial of the software that will be used during the workshop. The software must be installed prior to the workshop.

Authorization for Credit Card Use

PRINT AND COMPLETE THIS AUTHORIZATION AND RETURN.
All information will remain confidential

Name on Card: _____

Billing Address: _____

Email Address: _____

Credit Card Type: ___ Visa ___ Mastercard ___ Discover ___ AmEx

Billing Zip Code: _____

Credit Card Number: _____

Expiration Date: _____

Card Identification Number: _____ (last 3 digits located on the back of the credit card)

Amount to Charge: \$ _____ (USD)

I authorize _____ to charge the amount listed above to the credit card provided herein. I agree to pay for this purchase in accordance with the issuing bank cardholder agreement.

Cardholder – Please Sign and Date

Signature: _____

Date: _____

Print Name: _____

Return the completed and signed form to the following:

Email: desurveyors@gmail.com

Fax: 888-440-7624

Mail: DAS, 9210 Slice Court, Wilmington, NC 28412