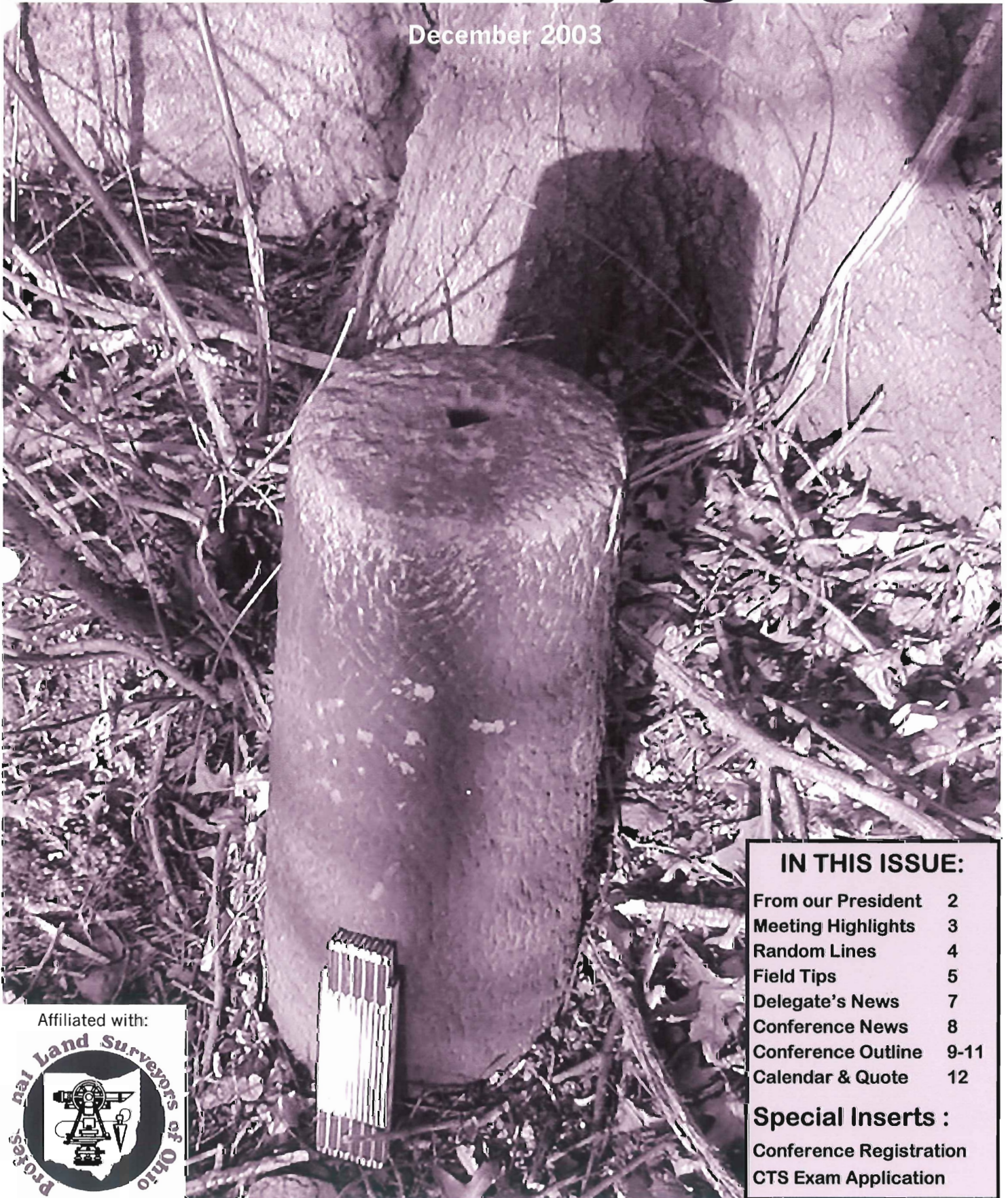


# Cleveland Surveying News

December 2003



## IN THIS ISSUE:

From our President	2
Meeting Highlights	3
Random Lines	4
Field Tips	5
Delegate's News	7
Conference News	8
Conference Outline	9-11
Calendar & Quote	12

## Special Inserts :

Conference Registration  
CTS Exam Application

Affiliated with:





December 1, 2003

Over the weekend, I was saddened to know the passing of Mike Papcum. Although I did not get to know Mike until a couple of years ago, I found him to be a true professional and friend. Mike truly loved the profession of surveying and he will be missed.

On a better note, I hope everyone had an enjoyable Thanksgiving. Mine was a lot better than last year when half of our dinner party ended up with food poisoning.

Last month, I announced that the Cuyahoga County Engineers Office would soon begin scanning all plats as we receive them in the Tax Map Office and make copies available in our Records Room. The office is still proceeding in this direction but we became slightly delayed, as a new scanner needs to be purchased. Hopefully by the beginning of the year we will be up and running.

Several weeks ago, I mentioned that Cuyahoga County was again looking at implementing a GIS System. Work continues on this and it appears that the County may be partnering with Cleveland Water. Since Cleveland Water needs a system for managing its distribution network that is continually updated, this could be a great partnership with reduced costs for both parties.

Finally, I would like to wish each and everyone a Happy Holiday Season.

Sincerely,

**Robert C. Klaiber, Jr., P.E., P.S.**

### ON THE COVER

Stone Monument at the Northeast corner of O.L. 46, Ridgeville Township, Lorain County. Shouldn't they all be this easy to find?

### 2003 Executive Committee

#### President

Robert C. Klaiber  
(216) 348-3800  
rklaiber@cuyctyengineers.org

#### President Elect

Mark A. Yeager  
(440) 365-4730 x330  
yeager@ksassoc.com

#### Past President

Neil M. Juhnke  
(216) 348-3857  
njuhnke@ameritech.net

#### Treasurer

Sean A. Boland  
(440) 835-5632

#### Secretary

Trevor A. Bixler  
(440) 365-4730  
bixlert@ksassoc.com

#### Chapter Delegate

Thomas M. Snezek  
(216) 348-3846  
tmsnezek@cuyctyengineers.org

#### Communication

John G. Hoy  
(216) 476-3600  
hoy7419@cs.com

#### Education

John J. Bischof  
(216) 398-6400  
jbischof@wadetrin.com

#### Professional Development

Robert Hoy  
(440) 835-9400  
rhoy@rewarner.com

#### Program

Jack Hoy  
(440) 877-1434  
jrhoy4800@aol.com



**AEROCON**  
Aerocon Photogrammetric Services Inc.  
*Dedicated to providing quality photogrammetric services since 1967*

- \* Aerial Photography
- \* Photo Lab Services
- \* Geographic Information Systems
- \* Digital Topographic Mapping
- \* Digital Orthophotography
- \* Volumetric Inventories

Aerocon Photogrammetric Services, Inc.  
4515 Glenbrook Road  
Willoughby, OH 44094  
(440) 946.6277 Phone (440) 946.2646 Fax  
www.aerocon.com

The Cleveland Chapter November General Membership Meeting was held November 6, 2003 at the Holiday Inn in Independence. There were 16 members in attendance. Robert Warren and Jeffrey Mallison of Summit County gave a presentation on the various tax maps, aerial photographs and other products of Summit County available to the public via the internet.

**Some of the topics discussed during the meeting were as follows:**

Sean Boland reported that he is waiting for feedback on the proposed 2004 budget he presented to the Executive Committee.



**Jeffrey Mallison & Bob Warren**

Tom Snezek reported that he did not attend the October 10, 2003 PLSO State Executive Committee meeting but spoke with Barb Jones regarding the meeting topics. PLSO will be sending a letter in support of a new senate bill that is opposed to the new fees for 8 ½ x 11 certified copies from the County Recorders. There may be a roundtable discussion regarding the central localization of the Annual Conference at the 2004 Annual Conference. Tom also reported that he received thank you letters from the Hospice of the Western Reserve for the Cleveland Chapter's donation in memory of Neil Hetrick and from the University of Akron Surveying Program for the Cleveland Chapter's sponsorship of the golf outing.

Bob Hoy reported that there are 3500 unscanned plats in the Data Bank and he will be contacting the company that did the previous scanning for a cost proposal.

Louise Veverka submitted copies of the preliminary program schedule and budget for the 2004 Annual Conference. Tom Snezek reported that he would be sending out letters to engineering and surveying firms soliciting donations for the hospitality suites.



Your source for Surveying, Civil Engineering and GIS software for over 20 years – the right tools for every size survey and land development project.

We provide the complete line-up of Autodesk products, including Field Survey and Land Desktop – and back them up with the training, implementation and technical support services that keep you productive.

What do you need help with?

- Choosing the right software for a new office?
- Setting up your software with your standards – field codes and symbols?
- Fine-tuning your software usage for greater efficiency?
- Sharing your AutoCAD drawings with MicroStation users?

Whatever your needs, call us. We can help.



[www.imaginit-tech.com](http://www.imaginit-tech.com) 800.356.9050

OK, let's hear it. Dailey blew it. He wasted time going on vacation instead of writing his column last month. "How dare he take time off." Well, I did and it was good for the body and spirit.

Shirley and I took a slow leisurely driving trip both to and from Houston, Texas, stopping in Houston for a meeting of the "Czech Genealogy Society." ( more on that in a minute.) We went through Kentucky and Tennessee, both Colonial land states, then went into the Public Land Survey System, which covered everywhere we went with the exception of Texas.

That trip and my preparing for a seminar reminded me how lucky I am to survey in Ohio, "The Heart Of It All." Here we have to contend with nine separate survey systems, with all of their idiosyncrasies, and this is what really keeps surveying life interesting.

Ohio is no place to survey for the weak of heart, mind or spirit. Most of us accept surveys the same way we do the weather. "If you don't the weather, wait ten minutes and it will change." By extension, "If you don't like the survey system you are in, drive a few miles and it will change."

I have had the opportunity in my career to survey in 38 counties in Ohio and seven survey systems, so I have never been bored. We are lucky in Ohio. Only the western end of Ohio is flat and the Southeastern corner is somewhat hilly. The rest is an interesting mixture of terrain. We do not have to contend with endless prairies or rugged mountains. Be grateful for where you are. It could always be a lot worse.

Now back to Genealogy. There are a tremendous number of similarities between genealogy and surveying. In both, you have to do a lot of research, often of very old and confusing information, some of which has been lost, some badly written and some badly transcribed. Often the copies available are hard to read or are deteriorating at an alarming pace. Often times the information is "secret" and will not be shared. After all the research is done, the analyzation begins and you realize that more research is needed. So, back to the records or, in the case of surveying, the field evidence that was gathered. More time, more work. Finally an answer to the puzzle is found. You are happy and publish your results (in surveying, prepare the plat or legal description) only to have it challenged by someone else who has "other information."

As I said, the two are very similar in approach and in operation. Any good surveyor should be a good genealogist, only following lines of title, not family trees. Interesting, isn't it?

**John E. Dailey, Past**

TELEPHONE  
(216) 696-6080  
FAX (216) 696-5552

**GARRETT & ASSOCIATES, INC.**  
ENGINEERS & SURVEYORS - SINCE 1890

RICHARD T. GARRETT, P.E., P.S.  
PRESIDENT

2030 WEST 19TH STREET  
CLEVELAND, OH 44113

## MEETING NOTICE

There is no membership meeting in December. The next meeting is our Annual Meeting with installation of the 2004 Executive Committee scheduled for January 22, 2004. More details will be in the January Newsletter.

**Many Thanks for hosting the  
Cleveland Chapter Data Bank**

By Robert G. Hoy, P.S.

### ***Tips and Advice for Field Procedures***

This is the first in a series of articles presenting tips and advice for three different styles of field work.

*Traditional Method:* Angle turning, steel tape, and level.

*Total Station Method:* Most common method of surveying today.

*Robotic Method:* Remote control instruments, 1 person crew.

The best place to start is with the basics. For some readers these ideas may sound very basic. Basic ideas are always good to hear again. Remember the first rule of measurement: There is error in every measurement.

#### Traditional

When measuring an important distance with a steel tape and plumb bobs, have each person read the "live" end of the tape and switch points after each measurement. Average the two distances. This increases accuracy and will help reduce the possibility of human error.

#### Total Station

Many total stations now come with on-board collimation functions. A collimation is a correction the direct face horizontal and zenith angles to compensate for differences between direct and reverse face observations to a single target. A stored collimation does not eliminate the need to observe reverse face angles when needing tighter accuracy such as traversing, only helps direct face readings taken such as collecting topography shots.

#### Robotic

When using a tripod with prism for a backsight, set the backsight up first. By setting your instrument up last, you can stay closer to your expensive equipment.

## **NEWSLETTER**

Please note the additional inserts in this issue of the Cleveland Surveying News. The 2004 Conference Registration form and the NSPS - ACSM Certified Technician Test Application form. The test form must be returned directly to NSPS- ACSM by December 31, 2003 in order to sit for the exam given on the Saturday of the 2004 PLSO Conference.

### **NEWSLETTER ADVERTISING RATES FOR 2004**

one sixth page	3" high by 3.6" wide	\$ 80.00 yearly
half page	4.5" high by 7.5" wide	\$ 200.00 yearly
full page 8-1/2 by 11 insert printed both sides (Limit of two per issue)		\$ 100.00 each issue
Help Wanted or Position Wanted, up to one-half page		\$30.00 per issue



On November 7<sup>th</sup>. I attended the State meeting of the Professional Land Surveyor's of Ohio. The meeting was called to order at 7:30 PM.

During our meeting agenda, the following issues were discussed:

- The minutes from the previous meeting were un-available and were tabled to be reviewed at the January meeting.
- The Treasurer's Report was reviewed and accepted subject to audit.

Under 5.0 New Business –

- 5.2 – A motion was carried to support the Surveying Museum in Michigan with \$1 dollar pledge cards to be included with member dues statements for two years in a row.
- 5.3 – A motion was carried to approve the 2004 budget with a balancing factor of reducing the OSN publication costs by cutting back the publications to 4/year, (every three months), from the current every other month. This will, as reported by editor Don Friemoth, save substantial printing and publication costs, thereby balancing the budget. Some concerns were expressed that the OSN is the major vehicle for announcing the annual conference and care will be needed to assure that important information is getting to the membership in a timely fashion. Special publications may be issued when necessary to assure notification.
- 5.5 – Was added to the agenda by request from Brian Smith, a representative from the Central Ohio Chapter, regarding policies taken by the Fairfield County Engineer's office. His concerns were that the Engineer's office is accepting design plans developed from using the contours shown on the County wide topographic mapping. Additionally, the Engineer's office is requiring all surveys be tied to GPS points and not section corners or centerline/centerline monuments. Considerable discussion was taken on the issue but no formal response was planned from the PLSO.

Under Committee Reports –

- 7.11 – Public Relation chairperson Rose Coors, presented the final flyer for the "Becoming a Surveyor" brochure. A motion was passed to accept the brochure as drafted and go to print. Copies will be available soon and will be on the PLSO web site.
- 7.13 – Standards Committee chairman Tim Schram reported that the success of the "Model Law" efforts in other states is mixed. Some are being defeated by groups representing the Aerial Photogrammetry industry. Much debate ensued over this issue with no formal plan adopted. Mr. Schram needs direction from the P.L.S. O. as to which way we will go on this issue.
- 7.19 – CPD Review Committee chairman J. Ellison reported that House Bill 322 is being drafted which will in act the Continuing Professional Development requirements in this state. There are certain amendments to the draft, which strengthen the bill plus add a \$20 registration fee to the process. The body of those amendments was not available for review by the membership. A motion was passed to draft a letter of support to these efforts.
- 7.2 – Newsletter editor, Don Friemoth stated the deadline for the January/February OSN is November 20<sup>th</sup>.
- 7.3 – ACSM/NSPS Governor, Don Kramer reported the agency is considering a two-tier membership option.
- 7.411 - 2004 Conference report given on behalf of our chapter.
- 7.45 – Legislation Committeeman Mark Cameron provided a draft of a letter to Senator Kevin J. Coughlin expressing our support of Senate Bill 131 which would repeal the fees for Recorder's certified copies of documents that are 8½ " X 11" in size.

Under Chapter Delegate Reports –

- 8.5 Cleveland Chapter Delegates report was provided to the President and the membership.

The meeting adjourned at 10:50 PM.

Respectfully submitted,

*Tom Snezek, Chapter Delegate*

**Information of note from the November 10<sup>th</sup> Committee Meeting.**

**PROGRAM:** The program schedule and speakers are finalized.

**EXHIBITS:** The exhibitor's reception will be held in the exhibit hall from 5 p.m. to 7 p.m. on Thursday and the exhibitors are being encouraged to provide a raffle item. Some combination of drink tickets and cash bar will be available

**HOSPITALITY:** The Thursday dinner will still be "on your own" and we will come up with a list of options for people. The hospitality suite will open after dinner on Thursday night. Joe O'Donnell is asking for donations to help cover the cost of the hospitality suite. Corporate and individual donations are welcome. All donors will be recognized on placards in the suite.

**REGISTRATION:** Current plans include providing a CD of the complete conference notes instead of the usual heavy binder. Neil has gotten a freeware program that changes any type of file into a PDF file and is testing it for use in preparing the disks. He is also looking for any possible freebies i.e. pads, scales, magnets, to put into the registration bags. If you have any suggestions please contact him.

**2004 PLSO Conference Committee Members**

**Chairperson**  
Louise A. Veverka  
(440) 230-2565  
Fax: 230-2566  
lvsurvey@aol.com

**Past Chairperson**  
George A. Hofmann  
(440) 234-7350  
george\_hm@ameritech.net

**Registration**  
Neil M. Juhnke  
(216) 348-3857  
njuhnke@ameritech.net

**Finance**  
Mark A. Yeager  
(440) 365-4730 ext. 330  
yeager@ksassoc.com

**Hospitality**  
Joseph F. O'Donnell, Jr.  
(216) 529-6809  
joe.o'donnell@lakewoodoh.net

**Exhibits**  
John G. Hoy  
(216) 476-3600  
jhoy7419@cs.com

**Exhibits**  
Robert G. Hoy  
(440) 835-9400  
rhoy@rewarner.com

**Meals**  
Timothy J. Feller  
(216) 831-1112  
tim@mcsteen.com

**Program**  
Tom M. Snezek  
(216) 348-3846  
tmsnezek@cuyctyengineers.org

**Spouse Program**  
Char Snezek  
(216) 671-4902

**HELP WANTED**

Michael Benza & Associates, Inc. is an established company offering professional services in the fields of civil engineering and land surveying. Our clients include municipalities, county and state agencies, as well as developers, architectural firms, and private clients. Our location in Brecksville, Ohio, is convenient to the cities of Akron and Cleveland, and access is easy via I-77 or the Ohio Turnpike. We offer a competitive package of salary and benefits, including 401-K, Profit Sharing, and fully paid medical benefits.

We currently have an opening for a Survey Manager. This is an office-based salaried, management position. This person will be responsible for the overall supervision of the Survey Department, including a Project Surveyor, two or three field crews and one survey drafting technician. The Survey manager must ensure that the contractual agreement with the client is adhered to, and that all work is completed on time, accurately, and within budget.

The Survey Manager must maintain relationships with existing clients in a professional manner, as well as help develop our client base. Duties will include marketing, cost estimating, development of project scopes, and proposal writing. Excellent verbal and written communication skills are crucial.

**Requirements:**

- Registered Professional Surveyor in Ohio
- Minimum ten years project experience
- Previous survey management experience
- Proficient with Autocad, Softdesk, and Land Development Desktop software
- College coursework in surveying preferred
- Ability to download and analyze field data
- Experience in research, data processing, platting, legal descriptions, topographic surveys, construction
- Proven leadership ability and excellent interpersonal skills

Send resume by mail or email to:

Michael Benza & Associates, Inc.  
6860 West Snowville Road  
Brecksville, OH 44141  
hr@mbenzaengr.com

The following is an outline of conference course sessions and their speakers.

SESSION: ALTS/ACSM Land Title Surveys

SPEAKER: Gary Kent, L.S.

Gary R. Kent, L.S., is Director of Surveying for the Schneider Corporation in Indianapolis, Indiana where he has been employed since 1983. He has a Bachelor of Science Degree in Land Surveying from Purdue University and is licensed to practice surveying in Indiana and Michigan. Mr. Kent is a former president of both the American Congress on Surveying and Mapping and the Indiana Society of Professional Land Surveyors. He is on the associate faculty at Purdue University in Indianapolis instructing course in Land Surveying Systems, Legal Descriptions, Property Surveying and Surveying Law. Mr. Kent has been the chair of the ACSM/NSPS committee on the ALTA/ACSM Land Title Survey standards for a number of years.

SESSION: Confined Spaces for the Surveyor

SPEAKER: Biography of Charles C. Porpora

Mr. Porpora has over 35 years experience in safety management and engineering prior to founding Charles Management, he served as Vice President to The Americas for The World Safety Organization, and the Liaison Officer from the WSO to The United Nations where he helped the WSO achieve consultative status to the U. N. He is the author of "The O.S.H.A. Compliance Manual and Company Safety & Health Plan", and has authored similar versions for The Association for Facilities Engineering and The Precision Metal forming Association. He has a B. S. from the University of Akron.



260 Burns Road, Suite 100  
Elyria, Ohio 44035  
Email: yeager@ksassoc.com  
Web: www.ksassoc.com  
Fax (440) 365-4790

**Mark A. Yeager, P.S.** Survey Group Leader

Phone (440) 365-4730 Ext. 330

*Roberts Surveying Supplies*



5982 W. 54th Street  
Parma OH 44129

**Instrument Sales-Service-Rental  
Stakes-Rebar-Field Supplies**

**Robert Karoleski**

**Phone (440) 842-2218**

**Fax (440) 842-0802**

*Celebrating Thirty Years*



SESSION: Photogrammetry and the Professional Surveyor

SPEAKER: William Faunce & Al Hustosky

**Al Hustosky**, one of Aerocon's Technical Representatives and Project Managers is a graduate of Kent State University with a BA in Geography, and draws on 23 years of experience to provide project planning and management for all phases of major projects, and through frequent consultation with Aerocon's clients, ensures that products and services are tailored to their present and future needs.

**Bill Faunce**, one of Aerocon's Certified Photogrammetrists and Production Manager since 1989, has over 29 years of experience in the operation of conventional, analytical, and softcopy stereoplotters. His depth of experience and background in the development of digital and orthophoto mapping, has allowed Aerocon to undertake complex topographic mapping projects, and keeps the firm abreast of the latest technologies in the rapidly developing markets of raster imaging, automated mapping, and GIS/LIS systems.

Both **Mr Faunce** and **Mr Hustosky** are current members of several professional affiliations, including the **American Society of Photogrammetry and Remote Sensing**, (ASPRS), and the **Professional Land Surveyors of Ohio**, (PLSO).

#### **Explanation of Presentation:**

Aerocon's presentation will explain the basics of a typical large-scale photogrammetric project, from the planning stages through delivery of the final product, along with examples of how to choose mapping scales and the resolution/detail that may be required.

#### **1. PROJECT PLANNING**

- A. Project Area
- B. Intended Usage
- C. Specifications
- D. Schedule
- E. Cost Factors

#### **2. AERIAL PHOTOGRAPHY**

- A. Aerial Cameras
- B. Aerial Films
- C. Flight Planning

#### **3. GROUND CONTROL SURVEY**

- A. Full Model Control
- B. Location and Quantity of Control Points
- C. Photo ID or Targets
- D. Horizontal and Vertical Datum
- E. Survey Accuracy

#### **4. PHOTOGRAMMETRIC MAPPING**

- A. Data Collection and Editing
- B. Digital Orthophotography

SESSION: FEMA for the Land Surveyor

SPEAKER: Biography of William Tingle, PG, CFM

Bill Tingle is a Professional Geologist and a Certified Floodplain Manager. He holds B.A. and M.A. degrees in Geography and Earth Sciences. He has 15 years experience in floodplain management at the local government level and is the current Chairmen of the NC Association of Floodplain Managers. He has worked closely with FEMA staff on various floodplain issues and is a member of the Association of State Floodplain Managers where he serves on a variety of committees. He has authored numerous papers on floodplain management.

Course Outline:

- A. Brief History/ Background/Purpose
- B. Floodplain Maps and Studies
- C. Elevation Certificates
- D. Approximate (Unnumbered A Flood Zones)
- E. Letters of Map Change (LOMC)
- F. Flood Zone Determinations
- G. Future of Floodplain Mapping
- H. Related Issues

SESSION: Surveying Field Procedures

SPEAKER: Michael Straub, P.S.

Mr. Straub is Manager, Surveying Services for R.E. Warner Surveying, a subsidiary of R.E. Warner & Associates, Inc. in Westlake, Ohio and is on the Board of Directors of the same. He was born in Greenville, Ohio and was graduated from The Ohio State University in 1981 with a Bachelor of Science in Surveying. He earned his Registered Surveyor license in Kansas in 1985 and his Professional Surveyor License in Ohio in 1986. He has managed the surveying portions of numerous large multi-million dollar construction and design projects and offers his 20-plus years of experience in those areas. Mr. Straub is also very involved in the Westlake Soccer Association and has served in many different volunteer capacities from the Board of Trustees to travel coach, and, of course field layout and is a member of St. Ladislav Catholic Church.

**MORE CONFERENCE INFORMATION WILL BE IN THE JANUARY NEWSLETTER**

**CLEVELAND CHAPTER PLSO  
NEWSLETTER EDITOR**

John G. Hoy  
4562 UP West 130 Street  
Cleveland, OH. 44135-3538

Phone: 216-476-3600  
Fax: 216-476-1665  
Email: HOY7419@CS.COM

Affiliated with:



**FIRST CLASS MAIL**

POSTMASTER:

Dated material.

Please deliver immediately.

# Calendar

## DECEMBER

- 12 State Executive Committee Meeting  
(If Necessary)
- 15 Executive Committee Meeting
- 22 Conference Committee Meeting

## JANUARY 2004

- 9 State Executive Committee Meeting
- 12 Executive Committee Meeting
- 22 Annual Membership Meeting

## FEBRUARY 2004

5, 6, 7 ANNUAL CONFERENCE - CLEVELAND

### This Month's Quote:

""Reports that say something hasn't happened are always interesting to me, because as we know, there are known knowns; there are things we know we know, we also know there are known unknowns; that is to say we know there are some things we do not know. But there are also unknown unknowns -- the ones we don't know we don't know."

Defense Secretary Donald Rumsfeld