

# INTERIOR ANGLE

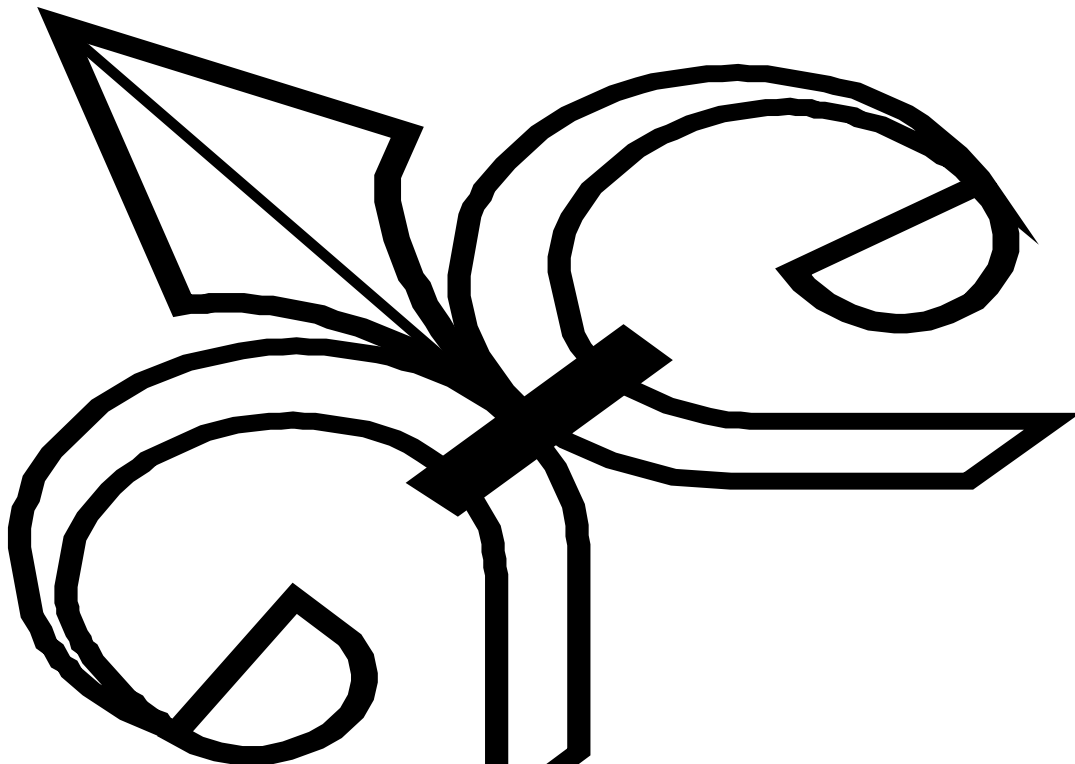
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*Kentucky Association of Professional Surveyors*

*Vol. 29 No. 2*

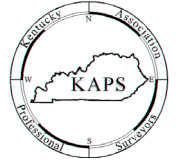
*May 1996*

## “KAPS 1996 Board of Directors Installed at 29th Annual Conference”



*Front row left to right: David Dummer, Charles Felts, David Atwell, Howard Johnston,  
Robert Rogers, William Paris, Robert Moses, James Riney, Phillip Petrucci*

*Back row left to right: Al Matherly, Bennie Maffett (1996 President), Robert Fentress,  
Gary Thompson (NSPS Area III Director), W.K. Kingsbury, Doug Comer, Gerald Ward, and John Ledington*



# WHO'S WHO IN KAPS

## 1996 STATE ASSOCIATION OFFICERS

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**Robert N. Rogers, PLS, President-Elect**  
Owensboro, Kentucky

**Charles J. Felts, PLS, Past President**  
London, Kentucky

**Robert Moses, PLS, VP Internal Affairs**  
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**David Atwell, PE, PLS, VP External Affairs**  
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**James R. Riney, PE, PLS, Secretary**  
Owensboro, Kentucky

**W. K. Kingsbury, PLS, Treasurer**  
Louisville, Kentucky

**David H. Dummer, Jr., PLS**  
**PD Committee Chairperson**  
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**Gerald Ward, PLS, Audubon Chapter**  
Hartford, Kentucky

**Bob Fentress, PLS, Bluegrass-Capitol**  
Frankfort, Kentucky

**Doug Comer, PE, PLS, Falls of Ohio Chapter**  
Louisville, Kentucky

**Terry Stallard, PLS, Highlands Chapter**  
Prestonsburg, Kentucky

**Freddie Allgood, PLS, Purchase Chapter**  
Murray, Kentucky

**James Davis, PE, PLS, South Central Chapter**  
Somerset, Kentucky

**John Ledington, PLS, Southeast Chapter**  
Corbin, Kentucky

**Phillip Petrucci, PLS, Northeast Chapter**  
Ashland, Kentucky

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**James R. Riney, PE, PLS**    **W.K. Kingsbury, PLS**  
Owensboro, Kentucky    Louisville, Kentucky

**William R. Paris, PLS**    **Robert Mitchell, PLS**  
Marion, Kentucky    Louisville, Kentucky

**Bob Dailey, PLS**    **Howard Johnston,**  
**PLS**    **PLS**  
Crescent Springs, KY    Butler, Kentucky

## CHAPTER CHAIRPERSONS

## INTERIOR ANGLE

The *Interior Angle* is the official publication of the KENTUCKY ASSOCIATION OF PROFESSIONAL SURVEYORS (KAPS). It is published quarterly for the purpose of communicating with the professional surveying community, related professions and others interested in surveying. The *Interior Angle* is financed primarily by membership dues.

Articles published herein do not always reflect the opinions and views of KAPS, but are included for the betterment of the profession. KAPS welcomes any articles or news of interest for publication. No responsibility is assumed for errors, misquotes or deletions. Articles originated by the editor or KAPS members are not copyrighted and may be reproduced with due credit.

The *Interior Angle* is mailed to KAPS members and similar organizations on a complimentary basis. Articles may be reprinted with due credit, unless written permission of the author is required.

## ADVERTISING POLICY

The *Interior Angle* is published quarterly by the Kentucky Association of Professional Surveyors and accepts advertising. The ad should be camera-ready copy for photo-offset printing. The rates are as follows:

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½ Page	\$100/\$350
¼ Page	\$65/\$225
Business Card	\$50
Business Card (KAPS Member)	\$25
Classified	\$40
Classified (KAPS Member)	\$20

Corporate Members receive free business card ad in every issue.

## EDITOR

John A. Harrison, PLS ♦ 124 Walnut St. ♦  
Frankfort, KY 40601 ♦ (502) 695-2349

# Letter of Thanks

It is my pleasure to announce that the Kentucky Association of Professional Surveyors' Annual Conference held in Lexington, Kentucky, was a huge success. With more than three hundred surveyors and their families in attendance it was one of the largest KAPS conferences ever!

I want to personally thank all of the individuals who willingly helped the KAPS office staff in preparing for and putting on this year's Annual Conference. There is no way to convey all the gratitude and appreciation Betty and I send your way. Without your help and support we wouldn't have been able to do it.

If there is ever anything that we can do for you, please don't hesitate to call. KAPS has installed a toll-free number for your cost savings and convenience. Please take advantage of this new member service. The new number is **1-800-866-3029**.

Again, thanks to all who contributed their time and energy to making this year's conference a successful one.

Sincerely,

Amy N. Gordon  
Executive Secretary

P.S.  
Congratulations to the newly installed KAPS  
Board Members.



From the Board Room . . .  
Bennie R. Maffet, 1996  
President

Dear Fellow KAPS Members:

As your new KAPS President, I want to congratulate you on being a member of our association. We are proud of the way KAPS has grown and of its accomplishments. We want 1996 to be a great year for KAPS and for the surveying profession.

In February KAPS held its Annual Conference in Lexington, with over 300 participants. The Conference Committee's goal was to prepare a conference that would provide a variety of workshops and technical sessions that would fulfill the needs of the membership. As a result the days at the conference were full. We had twenty exhibitors from five different states represented. The days were filled with informative seminars and committee meetings, and the evenings had entertainment, a banquet on Friday evening, awards presentations, fun, and fellowship. If you missed this conference, plan now to attend next year's Annual Conference to be held in Paducah in March 1997. We are to be joined by the Missouri Association of Registered Land Surveyors for this event.

At the conference we talked about getting more people to join KAPS this year. To date, we have received 21 new members since the conference, so someone out there has really been working toward this goal. Please keep up the good work! As KAPS grows it will be more beneficial to its members and the surveying profession.

This past year we voted to accept the newly chartered Chapter in the Ashland area. The "Northeast Chapter" was formally adopted as a new chapter February 14, 1996. We also have the need for a new chapter in the Greater Cincinnati area to serve our northern Kentucky members. Plans for chartering a chapter in this area are underway with an organizational meeting scheduled for May 17, 1996. Local support for this beneficial effort has been tremendous.

If you have ideas that will help KAPS in becoming more helpful to you, share them with us. As always, please provide us with your input along with positive direction that will assist in serving our profession.

I look forward to working with and meeting each of you throughout the coming year.

Bennie R. Maffet, PE, PLS  
1996 KAPS President

# Largest KAPS Scholarship Awarded for 1995

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James R. Riney, Scholarship Chairperson

A total of \$3,000 in scholarship awards was presented at the February 16, 1996 Annual Banquet to three recipients. The Awards were approved by the 1995 Board of Directors for award during the 1996 Annual Conference Awards Banquet. Originally, the scholarship awards were budgeted at \$2,000 for the 1995 administrative year; however, additional funds were contributed through a combination of membership generosity and additional funding approved by the KAPS Board of Directors. Then-president Chuck Felts stated that he felt strongly that the additional scholarship funding was a major accomplishment during his 1995 presidential year.

The additional scholarship grant was made possible primarily as a result of a \$500 gift by Dennis Branson, PLS, owner of Branson Surveys, Inc. located in Henderson, KY. Subsequent to conducting a seminar on "Easements and Legal Descriptions", Branson donated the net profits to KAPS, specifically for the scholarship fund. Additional contributions were made by KAPS members who asked that their speaker's honorarium due from their seminar presentations also be contributed to the scholarship fund. The KAPS Board of Directors voted to provide other funds in order to insure that an additional \$1,000 was available for scholarship awards.

Standard scholarship applications were distributed to the KAPS Chapters and to 43 colleges and universities between February and September 1995. A total of 13 applications were received from 10

schools. The submittals were reviewed, scored and ranked based upon the scholarship award criteria.

Three scholarships were awarded in the amount of \$1,000 each, the largest total scholarships granted in the history of the association. Recipients were Brian L. Barnes of Murray, Kentucky; Jason A. St. Clair of Mt. Washington, Kentucky; and Kevin M. Simmons of Owensboro, Kentucky.

From left to right: Kevin Simmons, Brian Barnes, and James St. Clair

Mr. Barnes is a graduate student at Murray State University majoring in Civil Engineering Technology with a major field of study in surveying. Brian anticipates completion of his graduate degree in May of 1996.

Mr. St. Clair is a junior at the University of Louisville Speed Scientific School enrolled in a masters of Civil Engineering Program in Structural Engineering with special interest in surveying. Jason anticipates completion of his degree

in the fall of 1988. He is the son of KAPS member John St. Clair.

Mr. Simmons is a sophomore at the University of Southern Indiana located in Evansville, Indiana. He is majoring in Civil Engineering Technology and anticipates completion of his undergraduate degree in May 1997. Kevin is the son of KAPS member Joe Simmons.

**CONGRATULATIONS,  
SCHOLARSHIP**

## Kentucky Boundaries

*B.R. Salyer, Attorney at Law*

The odds that a surveyor will be sued by an unhappy client increase every year. More people tend to think that the answer to their dissatisfaction lies in the courtroom--"If I am not happy, someone else is to blame."

When an individual is sued, the first thing his attorney considers is whether the suit was timely filed. If the plaintiff waited too long, the suit can be dismissed without all the expensive proceedings that accompany litigation. The question in this column is, When does time run out for suing a surveyor? Obviously, the sooner the time runs out, the more protection the surveyor has.

Surveyors can be sued for negligence or breach of contract. In either case, the issue is essentially the same: did the surveyor act with the same care and skill expected of a reasonably competent surveyor working under the same or similar circumstances?

KRS 413.140 is the statute of limitations for negligence in Kentucky. It allows an injured party one year to file a suit, but it only covers personal injury. Therefore, it does not cover a surveyor's negligence.

KRS 413.245 is a statute with potential application. It covers lawsuits against professionals for negligence or breach of contract. While it also has a time limit of one year from the time the damage is done or reasonably should have been discovered, it probably does not apply to surveyors. "Professional services" are defined as **work performed in a profession required to be licensed, administered and regulated as professions in the Commonwealth.** Thus, to be protected, one must not only be a professional, but a professional who has to be licensed by the state. Traditionally, law, medicine and divinity were the "professions." Ministers would not be protected by the statute, because while they are professionals, they are not required to be licensed.

Two court cases have addressed the question. In *Plaza Bottle Shop v. Torstrick*, 712 S.W. 2d 349,

involving an insurance agent, the court stated:

"Although today a 'profession' connotes other vocations such as accounting, engineering and teaching, the admission to which requires higher education, special knowledge and training, we do not believe insurance agents, who need no more than a high school diploma to qualify for a license, fall within the statute."

Thus, it appears that the requirement of higher education for a license is the essential, common element of a "profession." Although college degrees are held by some surveyors, one is not necessary for registration.

KRS 413.120 provides for a five-year statute of limitations on oral contracts, express or implied, and for injury to one's rights not arising out of contract or otherwise enumerated. Since it would be difficult to argue that in agreeing to perform a survey, there was not at least an implied oral contract, it is likely that a client could come after a surveyor for up to five years. The surveyor would impliedly have agreed to the work with the same skill and care expected of a reasonably competent surveyor, so the nature of the case would be equivalent to negligence. Besides, this is the one that would cover negligence, so there is no difference.

So, do you think that five years is as long as you have to worry about a bad piece of work? Think again.

KRS 413.090 provides that the statute of limitations on a **written** contract is fifteen years. While the more "enlightened" surveyors are requiring written contracts stating the scope of the work, fees, etc., they may be extending their exposure for an additional ten years. It's a trade-off: Is it better to keep it down to five years and run the risk of a swearing match in court over



**Kentucky Boundaries**

Continued from page 4

or risk an additional ten years of exposure in order to have a binding agreement on what was expected of you? There is no hard and fast rule, but here’s my thinking: if you haven’t been sued in five years, odds are you will not be sued at all. On the other hand, you might get sued in six months, and that written contract sure would come in handy when your attorney asks you, “What is this beef all about?” I would opt for a written agreement.

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**The NSPS Foundation**

Maps its Frontier

*By Blair Meggitt*

Over the past several years, attempts have been made to establish a national foundation for the benefit of the surveying and mapping community. In 1994, representatives from the National Society of Professional Surveyors (NSPS) formally requested that a national foundation be formed. Based on that request, the National Society of Professional Surveyors Foundation was created as a multipurpose, nonprofit corporation providing an avenue to preserve the past and invest in the future of surveying and mapping.

The primary goals of the foundation are

- ◆ To promote education, study, and research in the field of surveying;
- ◆ To provide scholarships, awards, or other support to qualified students of surveying;
- ◆ To conduct and support educational programs, lectures, forums, or seminars in surveying and related subjects;
- ◆ To publish and distribute literary works

on surveying and related subjects;

- ◆ To acquire, preserve, or exhibit rare books, documents, monuments and instruments related to surveying and any items of historical interest and significant bearing on the development and profession of land surveying; and
- ◆ To receive contributions, gifts, and bequests of property, both real and personal, for the general or special purposes of the foundation.

Historically, surveyors have demonstrated a pride and desire to attract young people into the profession. Providing educational assistance is imperative to keep in step with today’s increasing technology.

The foundation has established four categories of membership:

- ◆ Regular member (contributor of \$20 to \$99),
- ◆ Century member (contributor of \$100 to \$499),
- ◆ Sustaining member (contributor of \$500 or more).
- ◆ Lifetime member (contributor of \$5,000 in a lump sum or in a five year period).

Contributions to the foundation are tax deductible. For more information, contact the NSPS Foundation, Inc., 5410 Grosvenor Lane, Bethesda, MD 20814.

**Mapping the Frontier**

The Board of trustees of the NSPS Foundation selected a unique method to begin the initial fund-raising effort for the foundation. A large bronze sculpture was donated by Arizona artist

## **The NSPS Foundation**

Continued from page 5

Ken Payne. According to Board member Blair Meggitt, "this work is symbolic of the efforts of the Foundation in raising money for the funding of projects as we explore new frontiers of service to the surveying and mapping community. It also symbolizes our interest in preserving the past." Meggitt first encountered Payne's sculpture on a trip across the south-west. Later his wife purchased a similar sculpture as a 20th-anniversary present.

When Meggitt suggested that NSPS use it as well, Payne said he would donate the sculpture. Payne, who runs Mountain Trails Galleries in Sedona, Arizona, is famous for bringing the exciting memories of the Old West to life in his heroic bronze sculptures. In Mapping the Frontier, he captures the action, danger, and even the humor of a frontier surveyor. NSPS is offering raffle tickets for the sculpture for \$25 each or 5 for \$100. The drawing will be held at the GIS/LIS '96 Conference in Denver, Colorado, in November 1996.

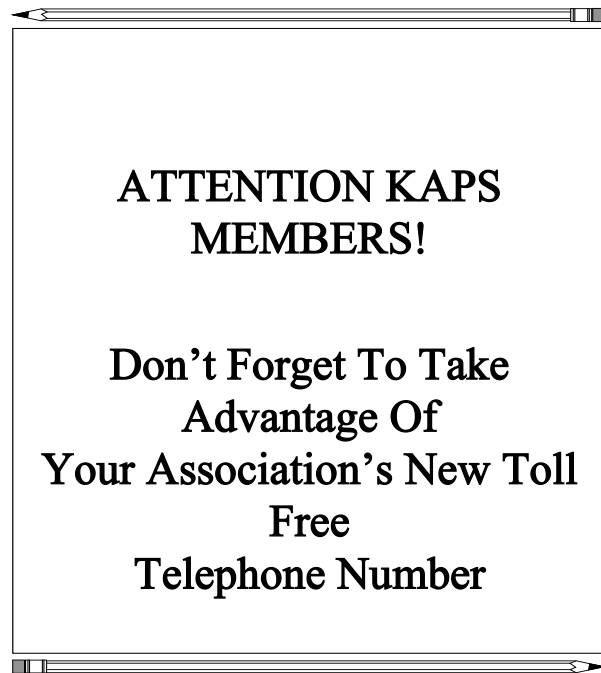
If you are interested in joining the NSPS Foundation and need more information, please contact:

**Charles Tapley, Chairman  
NSPS Foundation  
Board of Trustees  
5410 Grosvenor Lane  
Bethesda, MD 20814  
(301)493-8245**

**The Foundation  
sincerely appreciates  
your support!!**

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*Reprinted from the ACSM Bulletin,  
January/February 1996*



**1-800-866-3029**



# On Membership

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By John Lisack, Jr.  
EXECUTIVE DIRECTOR  
AMERICAN CONGRESS ON SURVEYING AND MAPPING

We all want our associations, be they local, state, regional or national, to grow and flourish. New ideas are continually sought to improve services to our members and enhance our profession. With limited resources, associations must carefully select avenues which will benefit the largest portion of members and potential members. This is a difficult task and care must be exercised not to alienate members of the profession when choosing one program rather than another.

All too often the volunteer leaders of associations are severely criticized for decisions made when in fact the vast majority of the membership has not actively participated in providing valuable information to the leaders upon which responsible and representative decisions can be made. We cannot forget that each of us has a responsibility to contribute positive suggestions by which our association and our careers can be enhanced.

A seasoned and sage association executive wrote the following observations in his book *A Coming of Age*. Mr. Samuel Shapiro feels that the following observations plague every association and that they represent ways to kill an organization.

- ◆ Don't come to meetings.
- ◆ But if you do come, come late.
- ◆ If the weather doesn't suit you, don't think of coming.
- ◆ If you do attend a meeting, find fault with the officers and other members.
- ◆ Never accept an office, as it is easier to criticize than do things.
- ◆ Nevertheless, get sore if you are not appointed to a committee; but if you are, do not attend committee meetings.

On Membership

◆ If asked by the chairman to give your opinion regarding some important matter, tell him you have nothing to say. After the meeting tell everyone how things ought to be done.

◆ Do nothing more than is absolutely necessary; but when other members roll up their sleeves and willingly, unselfishly use their ability to help matters along, howl that the association is run by a clique.

◆ Hold back your dues as long as possible.

◆ Don't bother about getting new members. Let the Secretary do it.

◆ When a banquet is given, tell everybody money is being wasted on blowouts which make big noise and accomplish nothing.

◆ When no banquets are given say the association is dead and needs a can tied to it.

◆ Don't ask for a banquet ticket until all are sold.

◆ Then swear you've been cheated out of yours.

◆ If you do get a ticket don't pay for it.

◆ If asked to sit at the speaker's table modestly refuse.

◆ If you are not asked, resign from the association.

◆ If you don't receive a bill for your dues, don't pay.

◆ If you receive a bill after you've paid, resign from the association.

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◆Don't tell the association how it can help you; but if it doesn't help you, resign.

◆If you receive service without joining, don't think of joining.

◆If the association doesn't correct abuses in your neighbor's business, howl that nothing is done.

◆If it calls attention to abuses of your own, resign from the association.

◆Keep your eyes open for something wrong and when you find it, resign.

◆At every opportunity threaten to resign and then get your friends to resign.

◆When you attend a meeting, vote to do something and then go home and do the opposite.

◆Agree to everything said at the meeting and disagree with it outside.

◆When asked for information, don't give it.

◆Cuss the association for the incompleteness of its information.

◆Get all the services the association provides but don't give anything back to the association.

◆When everything else fails, cuss the Secretary

We are all guilty of some of the above travesties. We must always remember "We are the association". . . we can make it as good as we want it!



124 Walnut Street  
Frankfort KY 40601  
Phone & Fax: (502) 695-2349

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## Who's Working?

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Yes, I'm tired. For several years I have been blaming it on middle age, iron-poor blood, lack of vitamins, air pollution, saccharin, obesity, dieting, underarm odor, yellow-wax buildup, and a dozen maladies that make you wonder if life is really worth living.

But now I find out, tain't that. I'm tired because I'm *overworked!*

The population of this country is 200 million. Eighty-four million are retired. That leaves 116 million to do the work. There are 75 million in school, which leaves 41 million to do the work. Of this total, there are 22 million employed by the government. This leaves 19 million to do the work.

Four million are in the Armed Forces, which leaves 15 million to do the work. Take from that the 14.8 million people who work for the state and city governments, and that leaves 200,000 to do the work. There are 188,000 in hospitals, so that leaves 12,000 to do the work.

Now, there are 11,998 people in prison. That leaves just two people to do the work--you and me. And you're sitting there reading this!

No wonder I'm tired!!

Reprinted from Montana's Treasure State

## The Business of Privacy

In today's world of electronic data, you can be certain that virtually any piece of information about you is available for a price. Financial account balances, choice of entertainment, hobbies, grocery selections, what you wear, whom you call, anything you buy with cards or checks, health information, real estate information, income, the list covers everything. A clever hacker armed with your phone number alone can cause all kinds of damage to your credit and financial records. Much of this privacy loss is inevitable, but there are things that can be done to limit access and at least make it more difficult to access.

◆ First and foremost is your social security number. You have one, therefore -- you are. This number is probably the most important single point of access to your data. Don't ever write it on a check, it is not a legal means of identification, or verification of anything. Experts often suggest contacting the Department of Social Security and requesting a copy of your earnings record to make sure that all earnings have been properly credited and that all information is current and correct.

◆ There are three main credit bureaus and they are required to supply you, once a year on request, with a free copy of your report. Call and request this report and check for inaccuracies.

TRW (800/392-1122)  
Equifax (800/685-1111)  
Trans Union (312/258-1717)

◆ Data thieves are known to comb through trash to find old checks, bank or financial statements, anything with numbers can be a key to electronic data. Be aware of what you do with this information, don't

toss it out, or about, carelessly. And don't think it won't happen to you.

◆ Don't give your credit card number over the phone **unless you have placed the call and know who you're talking to.** And **never order with your card over a cordless or cellular phone.** You might as well paint it on the side of your car. When paying your credit card bills, keep in mind that your check passes through many hands after it's separated from the statement stub and sent back to your bank. Do you want everyone to know your credit card number? It's not necessary to put it on the check, despite the usual request to do so.

◆ Even the medical field keeps tabs on us these days. Medical information that has no bearing on anything has, in fact, kept people from obtaining appropriate coverage, or caused them to pay higher rates than necessary, particularly if erroneous data has crept in. The medical sector's data repository is the Medical Information Bureau (617/426-3660) and they, too, must send you a copy of your file on request. When signing any medical release form, add to it that your consent is only for the specific purpose of that form.

Keep in mind that any information that you can obtain about yourself can be obtained by someone else, and often is. Most of the time this leads to only more junk mail, as your name and purchasing info are sold from marketer to marketer. You might be surprised at what others have access to, and you might be really surprised if this info is incorrect.

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## The Business of Privacy

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◆ Ask your phone company about blocking transmission of your phone number to Caller ID equipped phones.

To get Caller ID so that you can see the number of the incoming calls requires a purchased service from the phone company.

Obtaining caller ID Blocking is free. If you have a programmable phone, program one button to dial \*67 or 1167 to block the outgoing call. Or ask your phone company about line-blocking, also free.

◆ Know that every time you call an 800 or 900 number, your name & address are quite likely to be captured by the company you dial. And it's all added to your electronic profile. And it's all available, legally or illegally.

◆ Note that many employers monitor e-mail and voice-mail systems. Don't use them for anything you wouldn't broadcast.

◆ Ask your bank to notify you in writing when someone requests your records.

◆ And those ATM receipts--don't drop them in the trash, your account number is there and a hacker can easily wipe you out. This has happened to many people. And they haven't all been city-folk. In fact, rural area dwellers are probably much easier pickin's because we feel "safe."

◆ If you're harassed by telemarketers: the Telephone Consumers Protection Act requires telemarketing firms to have a written "Do Not Call" (D-N-C) policy, to maintain a "Do Not Call List," and restricts calls to between 8 AM and 9 PM. Their D-N-C policy must be available to you on demand, and once you request to be put on the D-N-C list, any further calls to you subject the firm to a \$500 per call penalty,

payable to you. (1-800/CUT-JUNK is a grassroots anti-telemarketing organization which can help you.)

There are, of course, laws which have been passed to ensure privacy. You ought to know what they are, but don't rely on them for protection. Most of them will do you little good.

◆ The Fair Credit Reporting Act (1970)--To protect against unauthorized access to credit reports. Although credit reports have been illegally obtained, no one has ever been prosecuted for it.

◆ The Privacy Act of 1974--forbids government-held secret databanks, requires the confidentiality of all citizen data. Nonetheless, the majority of government computer files are regularly examined by "unauthorized" parties.

◆ The Right To Financial Privacy Act (1978)--prohibits the federal government from examining bank records without consent. It does nothing to prevent state agencies, law enforcement agents, employers, or anyone else from looking them over.

◆ The Electronic Communications Privacy Act (1986)--provides some protection from e-mail eaves dropping, but does not apply to private employers and in-house e-mail.

◆ Video Privacy Protection Act (1988)--prohibits the disclosure of video rental records without consumer's consent or court order.

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*Reprinted from The Cornerpost, December 1995, Author Unknown*

# Why Certify? Why Bother?

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By Edward B. Eigsal  
Guilderland, New York

I am a graduate in Land Surveying of Paul Smith's College in the Adirondack Mountains of New York State. I have ten years of experience with Boutelle and Son Land Surveyors, Delmar, New York, mostly as party chief.

The NSPS/ACSM Certification process is not only extensive and comprehensive but it also incorporates the idea that it takes a certain amount of experience, or college and experience, to get accepted to take the certification exam, as opposed to successfully complete only a written exam.

The steps in this process provide an incentive and reason to open up the books, brush up and get one's work history on paper (signed and therefore documented by immediate supervisors) more often, versus waiting until eight to ten years passes by for an L.S. exam. It should also enhance the chances of successfully obtaining a license.

For a young person working their way up from rodman to party chief, there are only so many ways to build up credentials. NSPS/ACSM Certification is, in itself, a definite resume builder.

Edward B. Eigsal  
Guilderland, New York



# Board of Registration News

By John Beyke

This will probably be the last message you will receive from me as Chairman of the Board of Registration. It has been a very challenging and rewarding year for me, and I appreciate all the support that I have been provided by KAPS. I have mentioned many times over the past several years that the support from KAPS and its communication with the Board has been tremendous. I encourage you to continue this interaction.

One of the things I am most pleased with over my term as Chairman is the reinstatement of regular communication with the licensed professional. I am grateful that KAPS has assisted the Board by providing space in the *Interior Angle*. I firmly believe that communication with the practitioner is essential.

The KAPS Annual Conference was very productive and effective. I had the privilege of participating in two of the sessions and attended a couple of others. Other members of the Board and Board staff also had opportunities to participate. The continuing education programs were extremely good and appeared to be well attended. I believe KAPS has proven that continuing competency can be done cost-effectively. Overall, I am very pleased with what KAPS is doing in the area to assist the Board and the professional practitioner.

Please keep in touch with the Board and keep asking them to participate. We can continue to make this profession better by this interaction.

Once again, thank you for your support this past year.

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Congratulations to the  
Kentucky Wildcats!

1996 National Basketball  
Champs

# PICTURES

# PICTURES

# PICTURES

**Northern Kentucky**

**Land Surveyors**

## Working to Establish KAPS Chapter

Bob Dailey, PLS  
Crescent Springs, Kentucky

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An organizational meeting has been scheduled at 6 p.m. on Friday May 17, 1996, with the intent of chartering a Northern Kentucky Chapter of KAPS. The proposed chapter will include the following counties: Boone, Bracken, Campbell, Gallatin, Harrison, Kenton, Mason, Owen, Pendleton and Robertson. It will be held at "Buckskin Bev's Cattle Co." restaurant in Cold Spring, Kentucky. The Bluegrass-Capitol Chapter is hosting a dinner and two hours of continuing education for all those who attend.

At this writing, preparations for this meeting are underway. Amy and Betty at the KAPS office in Frankfort are busy putting together a mailing for all registered surveyors, both members and non-members, in the proposed chapter area. Our KAPS President, Bennie Maffet, is arranging the continuing education class to be presented and coordinating our efforts. Bob Fentress (Bluegrass-Capitol Chapter Chair), Howard Johnston (1996 KAPS Director) and myself are helping out where we can, with Bob Fentress having the unenviable task of making sure we can pay for this.

While all this preparation is necessary, it will mean nothing if those who live and work in the Northern Kentucky area don't put our support behind this effort. The real work begins, of course, at the meeting in Cold Spring and it can only be done by those of us who would be members of this new chapter. My first party chief used to tell me, when

driving hubs, "hit it like you live, straight and hard." I suggest we all take that advice and use it to make this new chapter a reality.

I realize that most, if not all, of my fellow surveyors have pretty full plates already; just as I have. But having said that, I still encourage those who live or work in these 12 counties to take time to attend this meeting and become involved and to get your fellow surveyors involved, too. It has been said by more than one person and on more than one occasion that "those who make their living from a profession, owe it some of their time and effort to improve it." I think this is an excellent way to help improve our profession and our organization.

### Bits & Pieces

"People wish to learn to swim and at the same time to keep one foot on the ground."

- Marcel Proust

"The highest reward for a person's toil is not what they get for it, but what they became by it."

- John Ruskin

"If opportunity doesn't knock, build a door."

- Milton Berle

"Nothing in fine print is ever good news."

- Andy Rooney

"Motivation is what gets you started. Habit is what keeps you going."

- Jim Ryun

# ANTEPASADOS

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by Fred Roeder, PS  
as seen in the  
New Mexico Newsletter,  
Vol. 6, Number 5, July 1992

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## Carl Friedrich Gauss

Every self-respecting surveyor knows that our first, third, and sixteenth Presidents had for a brief period in their lives been surveyors. But not even the most chauvinistic of our peers would argue that Washington's picture appears on a one dollar-bill because of our country's desire to honor a great surveyor. Surveyors just are not that famous, or are they?

Imagine my surprise when my nephew handed me a new German ten-mark bill and my eyes fell on a triangulation diagram consisting of a chain of triangles connecting 17 named stations, alongside a picture of a sextant covering almost half of the entire bill. On the obverse was a portrait of Carl Friedrich Gauss and the equation of his famous error curve.

I doubt seriously that the average German knows more about Gauss than does the average American, who is in the top 10% if he knows that Gauss was one of the three greatest mathematicians of all time (the others being Archimedes and Newton), whose accomplishments fill pages in any encyclopedia of mathematics and science. It is, therefore, all the more

remarkable that those in charge of designing money choose to honor Gauss the geodetic surveyor, rather than Gauss the mathematician and astronomer.

It helps to drive home an important truth: the surveyor plays a key role in the life of any civilized society.

Carl Friedrich Gauss was born in 1777 into a poor family (his father was a gardener) in the German city of Braunschweig (Brunswick). He was an extremely precocious child, astounding his parents and teachers with his mathematical abilities from the age of three years. There is a story that the child mentally added the numbers from one to a hundred in a few minutes by reasoning that the order in which they are added doesn't matter, and he simply added  $1 + 99 + 2 + 98 + 3 + 97 \dots$  all the way to  $49 + 51$ , reducing the whole problem to  $(49 \times 100) + 100 + 50 = 5,050$ . While still a teenager he propounded the theory of least squares, demonstrated a solution to the age old problem of dividing a circle into seventeen parts, and made important mathematical discoveries which he was too shy to publish and entrusted only to his diary.

His genius came to the attention of Ferdinand, Duke of Brunswick, who undertook to finance his education and in the process became his lifelong patron and friend. Gauss attended the University of Helmstedt. About this time he turned his attention to astronomy, making brilliant

computations of orbits and asteroids. In 1807 he became director of the observatory of Gottingen, a post he held until his death in 1855.

Most of his contributions to mathematics and science he set down in about 155 meticulously written papers. He published anything only after the most thorough investigation and after he was sure it met his motto: "*Ut nihil amplius desiderandum relictum sit*" --- that nothing further remains to be done. His mind was so full of numbers that when he was interrupted in solving a problem and told that his wife was dying, he reportedly replied; "Tell her to wait until I am done."

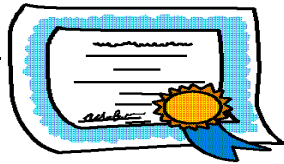
From about 1817 Gauss made studies in geodesy. His interest was aroused by a need for an accurate determination of the geographical position of his observatory. In 1828 he was commissioned by George IV of England to triangulate the entire kingdom of Hannover. Hannover is a hilly expanse of about 15,000 square miles in northern Germany between the Elbe river and the Dutch border, which in those days belonged to England, the English monarchs being of the House of Hannover.

Gauss was too much of a mathematician to fall in love with the mechanics of triangulation.

Continued on page 20 →→







## Carl Friedrich Gauss

Continued from page 19



“All the measurements in the world are not worth one theorem by which the science of eternal truth is genuinely advanced,” he once wrote. The survey, which Gauss completed in 1847, did not produce a very accurate map of Hannover, there being more to making a map than establishing geodetic positions on a few triangulation stations. It resulted, however, in a number of important advances in the mathematics of curved surfaces, such as his development of curvilinear coordinates. To increase the accuracy of his observations he developed a new lens (Gauss eyepiece, still used for auto-collimation in spectro-meters). To improve pointing accuracy on distant targets he invented the heliotrope. The most important result of his triangulation was a book on geodesy, which he published in two volumes between 1844 and 1847.

Gauss probably did not consider himself a surveyor anymore than George Washington did. But: ‘Tell me what you do and I will tell you who you are’. I think our profession can claim him for his immense contribution to surveying and accept the honors on the German 10-mark bill.

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## **AWARDS PRESENTED AT ANNUAL CONFERENCE**

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The Kentucky Association of Professional Surveyors (KAPS) hosted its 29th Annual Conference in Lexington, Kentucky. Record breaking attendance was set with more than 300 participants.

This was a time of recognition for those individuals who volunteer their time and energy to the betterment of the surveying profession. The following individuals were honored at the Annual Banquet on Friday, February 16, 1996 during the Awards Ceremony: Dr. Andrew Kellie was chosen "Surveyor of the Year" for 1995; he is a professor at Murray State University. David A. Atwell was presented with the "Frontiersman Award"; Mr. Atwell is with Vaughn and Melton Engineers. Kandie Adkinson was presented with an honorary membership in the Kentucky Association of Professional Surveyors; Ms. Adkinson is with the Land Office Division for Secretary of State. Howard Johnston was recognized with a Lifetime Membership in the Kentucky Association of Professional Surveyors.

The 1996 Board of Directors was officially installed by Gary Thompson, NSPS Area III Director, during the Awards Ceremony. The Executive Committee was installed as follows: Bennie Maffet, President; Charles Felts, Past President; Robert Rogers, President-Elect; Robert Moses, VP Internal Affairs; David Atwell, VP External Affairs; James Riney, Secretary; W. Kenny Kingsbury, Treasurer.

## **KAPS ANNUAL PICNIC**

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The KAPS Annual Picnic has been set for July 20, 1996, at Park Mammoth Resort in Park City, Kentucky.

A block of rooms has been reserved at the Best Western Park Mammoth Resort for the night of July 19, 1996. Please make your reservations now to ensure availability. When calling for reservations be sure to mention the KAPS Picnic to get the \$57.00 room rate. The block of rooms is reserved in the name of Bob Moses, Annual Picnic Chairperson. Make reservations at the Park Mammoth Best Western by calling 502-749-4101. Additional lodging is available in Cave City at the Days Inn, 1-800-325-2525 and the Heritage Inn, 1-800-264-1514.

We are planning the 1st Annual KAPS Golf Tournament. The tournament will be a scramble format (9 holes) with shotgun start at 8:20 a.m. The tournament will be held at Park Mammoth Golf Course. The tournament fee is \$10 per person and includes green's fee and cart. Everyone is welcome. Please bring your children, spouses or significant other, co-worker, etc.

Further details regarding the picnic activities will follow. It's sure to be a great time with professional development class, food, fun, fellowship, and golf tournament.

Please call the KAPS office if you need more information at 1-800-866-3029.



















**1996 PROPOSED  
PROFESSIONAL DEVELOPMENT SEMINAR SCHEDULE**

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<b>May 11</b>	Minimum Standards/ Ethics	4 hours 4 hours	Paducah
<b>May 18</b>	Minimum Standards/ Ethics	4 hours 4 hours	Louisville
<b>June</b>	Boundary Law/Litigation	8 hours	Somerset
<b>July 20</b>	Tree Identification	4 hours	Park Mammoth (Annual Picnic)
<b>September</b>	CADD	4 hours	Owensboro
<b>September 14</b>	GPS	8 hours	Union College Barbourville, KY
<b>October/ November</b>	Minimum Standards Ethics	4 hours 4 hours	Owensboro & Madisonville
<b>September/ November</b>	Minimum Standards Ethics	4 hours 4 hours	Ashland
<b>September/ November</b>	Litigation	8 hours	Ashland Area
<b>November</b>	State Plane Coordinate	8 hours	Paducah
<b>Year End</b>	To be announced	8 hours	Frankfort/ Lexington
<b>Year End</b>	To be announced	8 hours	Bowling Green Area Year End
<b>Year End</b>	To be announced	8 hours	Covington Area

*To all the exhibitors who made  
the 1996 KAPS Annual Conference*

*a huge success. Your support of KAPS  
and its membership is truly appreciated.*

## *Thank You!*

*Hayes Instrument*

*Photo Science Inc.*

*Carl Zeiss, Inc.*

*Geodetic of North America*

*Ellerbusch Instrument Co.*

*Seco Manufacturing Co.*

*Spectra Physics of Kentucky*

*Carlson Software*

*W.B. Griffin & Son Insurance*

*Maysville Survey & Engineering*

*Lynn Blue Print*

*AMK Instrument*

*Zaenkert Surveying Essentials*

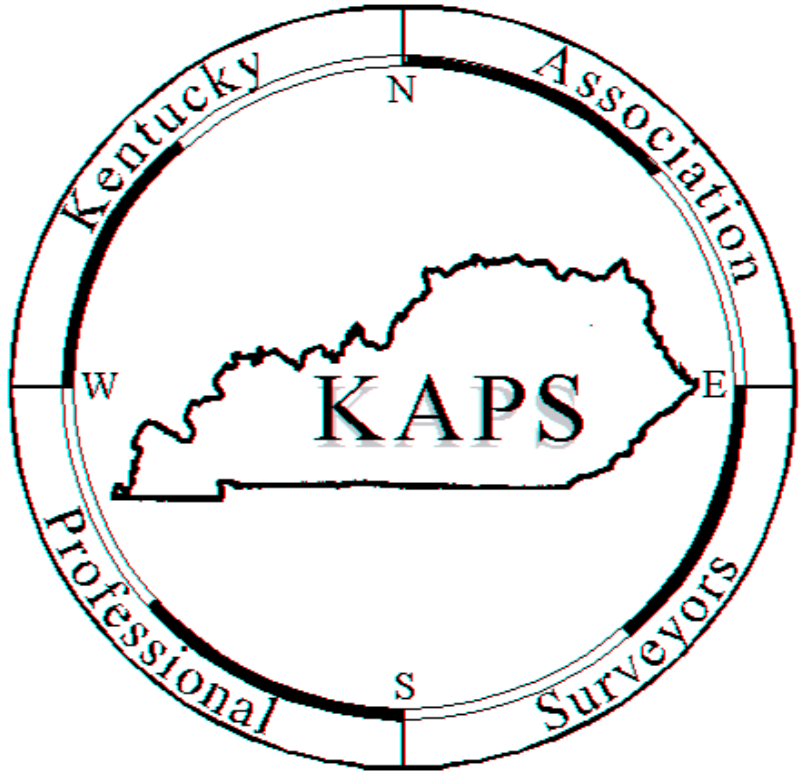
*Surveyors Module*

*Eagle Point Software*

*MapLink Company*

*Advance Survey Equipment Service, Inc.*

*We look forward to having you exhibit with us again in 1997.*



*KAPS*  
*124 Walnut Street*  
*Frankfort, Kentucky 40601*

*1-800-866-3029*

***INTERIOR ANGLE***

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*Kentucky Association of Professional Surveyors*  
*124 Walnut Street*  
*Frankfort, KY 40601*

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*Inside . . .*

*KAPS 29th Annual Conference Photos,  
1996 KAPS Scholarship Recipients*

