

**West Fork of Oak Creek Trail
Coconino National Forest Sedona, Arizona**



Table of Contents

Page

1	Cover
2	Table of Contents/Save The Dates
3	Letter from the Chairman
4	Getting to know your APLS Board Members
5	Annual Conference & Golf Tournament Sponsors
6-7	OSHA Compliance Safety & Health Officer By Patrick Nies
8-9	BLM Public Information & Records & 2011 Conference Exhibitors
10	Allen Instruments Ad
11	New Members & Letter from Tom Liuzzo Continued
12	Latest Land Surveyor Registrants & Exec Director Letter
13	Watch your Language by Wendy Lathrop
14	Holman's Inc Ad
15	Education yourself for hard times by Gary Briant
16	Top 11 Reasons to Record Boundary Surveys
17-18	Leica Geosystems Ad
19-21	Acquiescence By Knud Herman & Robert Liimakka
22	APLS Membership Application
23	TAS Newsletter Ad information
24	2011 Gold Sponsorship & Central Chapter Officers
25-28	2011 Chapter Officers
29	2011 Board Officers/Who's Who in APLS
30	2011 APLS Board of Directors & Committee Chairman & Chapter Presidents
31-32	APLS Sustaining Members

Save the Dates

Arizona Professional Land Surveyors

www.azpls.org

Board Meeting
November 5, 2011
Phoenix, AZ

Railroad Seminar
November 11, 2011
Phoenix, AZ

Annual Conference
April 26-28, 2012
Tempe, AZ

Check the website Calendar for current events.
www.azpls.org

Under Latest News

on the website you will find, Job Postings and Minutes from the board meeting.
If you have a job you would like to post please send info to: Christa@azps.org

Thank you for paying your dues on time and for being a member of APLS.

**2012 Dues Renewal will be
Due by December 31, 2011**



Letter from the Chairman Tom Liuzzo

I am glad to bring our membership good news! At the summer board of directors meeting which was held in Flagstaff, the board of directors unanimously decided to create a standing committee to work in concert with the State Board of Technical Registration. This committee functioning as the “Voice” speaking on behalf of the membership will dialogue with the SBTR on all matters that affect our profession. Please let us know what matters to YOU. We want to add to the growing list of ideas and concepts we feel will benefit all professions but especially the survey and geospatial community. My phone was ringing with desperate pleas for APLS to pursue this endeavor. Well membership, WE did it so now it is your time to shout out loud and define what you want the future “Arizona Surveyor” to be like.

Fall is here and soon the frost will be on the pumpkin; at least in the high country. In Prescott we have kicked off the Centennial celebration for our Great State. It began last week with live performances on the courthouse square by Arizona natives. Stars like Jordan Sparks, The Tubes, and Wayne Newton graced the stage all weekend long. This kickoff is the start of months of activities that are leading to the 100th Birthday of Arizona’s Statehood. This could not have happened without the “Arizona Surveyor.”



Our legacy is directly tied to Statehood. The initial point for the Gila and Salt River Meridian sits on a hilltop just east of Turn #4 at Phoenix International Raceway.



The lines that define our state are in fact boundary lines.

The boundary of Arizona, California and Mexico was surveyed by Rodney Graves, the founder and former owner of Rod’s Steak House in Williams, Arizona. Groom Creek is named after Robert Groom who surveyed the Original Townsite for the City of Prescott.



The point that I am trying to make is that we have something to celebrate. We have been a critical part of the State of Arizona and all of its history.

Continued to Page 11



Getting to know Your APLS Board Members

Wayne Griffin, RLS Kingman, AZ– APLS Secretary 2011-2012

How long have you been surveying and when did you become a professional land surveyor? I started working in surveying in 1976. Much of the work was construction related so I couldn't sit for the MI PLS exam until 1989, at which point I got my PLS. I went on to obtain my AZ RLS in 1996, and NV PLS in 2009.

For what company do you work, how long have you been with this firm, and what is your position? I have been self employed for 17 of the past 20 years (13 in MI, 4 in AZ). I've found that being a "solo surveyor" has worked out well most of the time, thus it seems that I do everything required of a survey crew, office staff, administration, marketing, etc.

Do you concentrate in any particular specialty of the profession? That's a tough one, especially in this current economy. I've always preferred the classic combination of boundary surveys and topographic surveys, but that hasn't exactly been where the work has been. I've always preferred working directly with individual property owners to help them solve their problems, split their parcels, whatever they need. I also prefer contracting directly to other design professionals for survey requirements on their projects.

Have you lived anywhere else before Arizona? I was born & raised in NW Detroit, MI. After high school I lived in Northern MI for about 6 yrs (including college), another 6 in metro Detroit, then spent the next 18 years in Western MI (Grand Rapids area). I moved to AZ in 2004.

Who or what inspired you to go towards the profession of Land Surveying? I've always loved this question! I started out in Forestry for my college curriculum. Included in the core courses was quite a bit of field surveying, PLSS, property rights laws, earthwork calculations, statistics, etc. I fell in love with that part of the program, and since Mich Tech offered a Surveying major (within the Forestry degree) - I switched majors in my junior year.

What do you think are the greatest immediate & future threats to the land surveying profession? The immediate threat has a great deal to do with a long standing public perception of what surveyors do. Most of the public has no clue, and we (surveyors as a whole) have done very little to preclude that. Now with the onset of a property data base being so readily available, it seems people under appreciate us even more. I'm not inferring that as a GIS issue, because it is not. It is the public perception. I see that continuing until we raise that level of perception to where it should be, and we could start with a 4 yr degree requirement. A CEU requirement could help in many ways too.

What do you think APLS can and should be doing to suppress these trends? I don't know if it is possible, but making membership in APLS a requirement for all AZ resident RLS's. They would remain informed and could, and likely would, provide invaluable input. Regardless, increasing membership and involvement is critical. Ideas to better the profession should come from within the profession, not from markets & industries that utilize our services, ie. organizations of title companies, realtors, contractors, planning & zoning departments, even lawyers.

From where can support for the profession be gained, now and in the future? I feel this is best accomplished by educating the public. So many times we get involved on the back end of a project because people try and "do it themselves", or "that's too much money", or "the realtor said.....". Then we get to put out fires, and that is never the way to do things.

Tell us about your family? I came from a classic Ward & June Cleaver family. I still have my 3 older brothers who've gone on to successful careers. I have 3 kids (28, 25, 23). Oldest is a surgical technician in Grand Rapids (she likes orthopedics). She is expecting my first grand child in March. My son is an aerospace engineer who's working at Chrysler Proving Grounds (in MI) specializing in engine performance & stability. Youngest daughter is a senior and still working her way through college in Natural Resource Management & Business (I asked her if she wanted to be CEO of Greenpeace or something...lol). They are all happy & I'm quite proud.

How do you spend your free time? That's why they call it free time, you can do what you like. I tend to be social and enjoy interacting with people. I'm a big sports fan, especially hockey & football at both pro & college levels. Any time I get a chance to travel I'll take advantage of the opportunity. One of the advantages of being a solo surveyor who loves the work, is that many times I feel like the project is just plain fun. That's almost like free time, only I get paid.



2011 APLS Annual Conference



“Expand your Mind &
Celebrate being a Surveyor”



GOLD SPONSORS



ALLEN
Instruments & Supplies

CONFERENCE
BAGS
Sponsored By



CONFERENCE
LANYARDS
Sponsored By



CONFERENCE
FLASH DRIVES
Sponsored By



THURSDAY
BREAK
Sponsored By



SATURDAY
Life Members &
Past Presidents Breakfast
Sponsored By



2011 APLS Golf Tournament Sponsors





By Patrick Nies, OSHA Compliance Safety & Health Officer

Every year, hundreds of serious and fatal accidents involving workers from many different industries and trades occur while they are working on or near public roadways. Many surveyors perform much of their work on or adjacent to these roadways and are subjected to being struck by approaching/passing vehicles.

The number of accidents prompted federal, state, county and city agencies to develop a variety of rules and regulations regarding work being performed on or adjacent to public roadways in order to protect both workers and the public. The United States Department of Transportation (DOT) - Federal Highway Administration (FHWA) and all state's departments of transportation have implemented guidelines and rules for working on or adjacent to these roadways. The FHWA publishes the *Manual on Uniform Traffic Control Devices, Part VI (MUTCD)* as a means of establishing rules and guidelines for working on public roadways. These rules and guidelines address variables of workzones such as location, the speed and volume of the traffic, and the duration of the work being performed. All 50 states as well as most counties and cities have adopted the *MUTCD* as minimum requirements for all entities conducting activity on the roadways under their jurisdiction.

Along with the numerous agencies that control and maintain the public roadways, there are also other governing agencies involved with enforcing the safety of those working on public roadways. Federal and state occupational safety and health agencies have established, adopted and enforce the rules and guidelines for working on public roadways. In Idaho, the federal Occupational Safety and Health Administration (OSHA) enforces safety and health standards for private and federal employers working on public roadways; and the State of Idaho's Division of Building Safety has oversight of safety and health for state, county and city workers.

Federal OSHA has established rules specific to construction activities on or adjacent to roadways through 29 CFR 1926.200(g) Traffic Signs (advanced warning & traffic control); 29 CFR 1926.201(a) Signaling (traffic control via flaggers); and 29 CFR 1926.202 Barricades (cones, candlesticks, barrels & port-a-rails). All three of these sections of the standard reference several versions of the *MUTCD*. Additionally, 29 CFR 1926.651(d) requires the wearing of high visibility garments where there is exposure to public traffic while involved with trenching and excavating activities. While OSHA has not established specific rules for "non-construction" activities on roadways, they do require employers to provide the same high visibility garments, signs, traffic control/flagging and barricades through the General Duty Clause of the OSH Act based on recognized industry standards. Copies of the standards and additional information can be accessed through the OSHA website at www.osha.gov.



Continued from Page 6

OSHA expects employers to provide a minimum of high visibility garments and advanced warning signs (“Survey Crew Ahead”) to alert traffic to the presence of surveyors. The Idaho Department of Transportation (ITD) and most county highway districts have additional standards which also include high visibility garments and warning signs. OSHA requires a trained flagger with a stop/slow paddle or red flag (per the *MUTCD*) if the surveying activity involves stopping/directing approaching vehicles. The ITD requires that all workers performing traffic control activity (flaggers) be trained and certified by a recognized entity.

Additional federal and Idaho state information:

Federal Highway Administration (FHWA)
www.fhwa.dot.gov

Idaho Department of Transportation (ITD)
<http://itd.idaho.gov/manuals/ManualsOnline.htm>

There are also numerous other national and regional entities involved with roadway safety that provide for guidance and assistance with roadway safety. All of them work with the federal and state agencies involved with roadway safety. A listing of associated websites that provide assistance and guidance follows:

American Road and Transportation Builders Association (ARTBA):
www.artba.org

American Traffic Safety Services Association (ATSSA)
www.atssa.com

National Work Zone Safety Information Clearing House
www.workzonesafety.org

Evergreen Safety Council
www.esc.org

**Chapter or Committee Reports
can be published in
the Newsletter.
Send information to
Christa@azpls.org**



Fall in Oak Creek Canyon Arizona

Survey Equipment for Sale, on the right side of the website page. You can email your info on used equipment you may want to put on the website to sell.

If you have information that needs to be updated on the website, please send to Christa@azpls.org with the corrected information and I will get your information updated.



This letter is to inform you of official Cadastral Surveys that have been accepted from September 9, 2010, to January 24, 2011, are now available in the Arizona State Office, Bureau of Land Management, Public Information and Records, One North Central Avenue, Suite 800 Phoenix, Arizona 85004-4427.

Arizona Gila and Salt River Meridian:

Township 30 North, Range 6 East, Group No. 1059, AZ	Establishment of Township Corners
Township 31 North, Range 6 East, Group No. 1059, AZ	Establishment of Township Corners
Township 32 North, Range 6 East, Group No. 1059, AZ	Establishment of Township Corners
Township 32 1/2 North, Range 6 East, Group No. 1059, AZ	Establishment of Township Corners
Township 33 North, Range 6 East, Group No. 1059, AZ	Establishment of Township Corners
Townships 30 North, Range 7 East, Group No. 1059, AZ	Establishment of Township Corners
Township 31 North, Range 7 East, Group No. 1059, AZ	Establishment of Township Corners
Township 32 North, Range 7 East, Group No. 1059, AZ	Establishment of Township Corners
Township 32 1/2 North, Range 7 East, Group No. 1059, AZ	Establishment of Corners
Township 33 North, Range 7 East, Group No. 1059, AZ	Establishment of Township Corners
Township 39 North, Range 7 East, Group No. 1052, AZ	Dependent Resurvey, Subdivision of Section 18 and Metes-and-Bounds Surveys
Township 30 North, Range 8 East, Group No. 1059, AZ	Establishment of Township Corners
Township 31 North, Range 8 East, Group No. 1059, AZ	Establishment of Township Corners
Township 32 North, Range 8 East, Group No. 1059, AZ	Establishment of Township Corners
Township 32 1/2 North, Range 8 East, Group No. 1059, AZ	Establishment of Township Corners
Township 33 North, Range 8 East, Group No. 1059, AZ	Establishment of Township Corners
Township 33 North, Range 9 East, Group No. 1059, AZ	Establishment of Township Corners
Township 33 1/2 North, Range 9 East, Group No. 1059, AZ	Establishment of Township Corners
Township 34 North, Range 9 East, Group No. 1059, AZ	Establishment of Township Corners
Township 35 North, Range 9 East, Group No. 1059, AZ	Establishment of Township Corners
Township 36 North, Range 9 East, Group No. 1059, AZ	Establishment of Township Corners
Township 33 1/2 North, Range 10 East, Group No. 1059, AZ	Establishment of Township Corners
Township 34 North, Range 10 East, Group No. 1059, AZ	Establishment of Township Corners
Township 35 North, Range 10 East, Group No. 1059, AZ	Establishment of Township Corners
Township 36 North, Range 10 East, Group No. 1059, AZ	Establishment of Township Corners
Township 33 North, Range 11 East, Group No. 1059, AZ	Establishment of Township Corners
Township 33 1/2 North, Range 11 East, Group No. 1059, AZ	Establishment of Township Corners
Township 34 North, Range 11 East, Group No. 1059, AZ	Establishment of Township Corners
Township 35 North, Range 11 East, Group No. 1059, AZ	Establishment of Township Corners
Township 36 North, Range 11 East, Group No. 1059, AZ	Establishment of Township Corners



Continued from Page 8

Township 33 North, Range 12 East, Group No. 1059, AZ	Establishment of Township Corners
Township 33 1/2 North, Range 12 East, Group No. 1059, AZ	Establishment of Township Corners
Township 34 North, Range 12 East, Group No. 1059, AZ	Establishment of Township Corners
Township 35 North, Range 12 East, Group No. 1059, AZ	Establishment of Township Corners
Township 36 North, Range 12 East, Group No. 1059, AZ	Establishment of Township Corners
Township 33 North, Range 12 1/2 East, Group No. 1059, AZ	Establishment of Township Corners
Township 33 1/2 North, Range 12 1/2 East, Group No. 1059, AZ	Establishment of Township Corners
Township 34 North, Range 12 1/2 East, Group No. 1059, AZ	Establishment of Township Corners
Township 35 North, Range 12 1/2 East, Group No. 1059, AZ	Establishment of Township Corners
Township 36 North, Range 12 1/2 East, Group No. 1059, AZ	Establishment of Township Corners
Township 22 North, Range 21 East, Group No. 1064, AZ	Dependent Resurvey and Subdivision of Certain Sections
Township 37 North, Range 30 East, Group No. 1062, AZ	Dependent Resurvey and Survey of Subdivisional Lines
Township 37 North, Range 31 East, Group No. 1062, AZ	Dependent Resurvey, Survey of Subdivisional Lines and Metes-and-Bounds Survey
Township 10 North, Range 1 West, Group No. 1063, AZ	Dependent Resurvey, Survey of Subdivisional Lines and Metes-and-Bounds Survey
Township 41 North, Range 15 West, Group No. 1088, AZ	Dependent Resurvey
Township 1 North, Range 24 West, Group No. 1084, AZ	Dependent Resurvey and Metes-and Bounds Survey
Township 1 South, Range 1 East, Group No. 1072, AZ	Dependent Resurvey
Township 4 South, Range 12 East, Group No. 1040, AZ	Dependent Resurvey

2011 APLS Conference Exhibitors

Allen Instruments
AMEC Earth & Environmental, Inc
AZGPS
CADsoft Consulting
Carlson Software
Cooper Aerial Surveys Co
Entellus, Inc
ESRI
Holman's, Inc

Kenney Aerial Mapping, Inc
Leica Geosystems
NSPS
Phoenix College
SECO Manufacturing
Sterling Systems, LLC
Stewart Geo Technologies
SURV-KAP LLC
Vertical Mapping Resources, Inc



ALLEN Instruments & Supplies

www.alleninstruments.com

Trimble R8 GNSS

TRIMBLE R-TRACK TECHNOLOGY FOR COMPREHENSIVE GNSS SUPPORT

Powered by an enhanced RTK engine, Trimble R-Track technology supports the new GPS Modernization signals, L2C, L5, Plus GLONASS L1/L2.

PROVEN SYSTEM DESIGN

As a rover it is rugged, lightweight and cable-free, for unsurpassed ergonomics in the field. As a base, it is flexible and also cable-free.

THE ORIGINAL INTEGRATED SURVEYING SOLUTION AND BEYOND

Combine your GPS and optical data in one job file in powerful Trimble field software such as Trimble Survey Controller. Transfer the job file seamlessly to your Trimble office software for processing. The Trimble R8 GNSS can also be used as part of a Trimble® IS Rover.

CALL
TODAY
FOR A FREE
DEMONSTRATION



SALES • SERVICE • RENTALS • SUPPLIES

7114 EARLL DRIVE • SCOTTSDALE, AZ 85251 / 800-272-0180 • 480-994-1306 • 480-994-8337



New APLS Members 2011

<u>Name</u>	<u>Chapter</u>	<u>Member Type</u>
Stacey Brooks	White Mountain	Associate
Martin Leveque	Central	Geospatial Professional
Dominic Zorn	Central	Associate
Teresina (Tracey) Cleveland	Northern	Associate
Kendra Dooline	Northern	Associate
Shane Bott	Central	Associate
Shawndel Upshaw	Northern	Associate
Carl Tunney	Northern	Associate
Jayson Johnson	Central	Associate
Geoffrey Leach	Central	Associate
Dee McGrath	Northern	Associate
Adam Bumbaugh	Central	Associate
Bob Lemoit	Central	Associate
Frank Fox	Southeastern	Associate
Michael Alvarez	Central	Associate
Bruce White	Central	Sustaining
Michael Stoll	Northern	Professional
Robert Blake	Central	Professional
Mary Niederberger Lee		Professional
Kristin Peck	Central	Associate
Kelly Hardee	Central	Associate
Jason Irvin		Associate
Thomas Dennison	Northern	Associate
Ian Denetsosie	Southeastern	Associate
Jason Boehler	Saguaro	Associate
Max Benally	Central	Associate
Jeremy Bitsoi	Northern	Associate
Josephine Goldtooth	Southeastern	Associate
Jonathan Herrera	Central	Associate

Continued from Page 3

From its humble beginnings to its amazing successes, the “**Arizona Surveyor**” has been there. We have been involved with the growth by providing our services for the construction and housing industries. We are tied to commercial and residential development. We are a part of something great. Let’s celebrate that!

I am encouraging all of us to get involved with these celebrations. It is a responsibility we all have toward our future surveyors as well as our memoriam to those who have passed to make ourselves known as Arizona turns 100 years old. We all know that surveyors know how to party so let’s show ‘em what we’ve got!!

Thanks for Listening and May God Bless You

Thomas A. Liuzzo, RLS



RLS Members Latest Registrants For 2011

Name	Number	Chapter
Frank Peterson	LS # 51962	Verde Valley
Edward Serafin	LS #51742	Central
Jerry Dodd	LS #52139	Central
Mark Grim	LS #51969	Central
Alan Jollineau	LS #52143	Central
Michael E King	LS #51978	Central
Jerry Lumsden	LS #52243	Mohave
Aaron Michalenko	LS #51979	Central
Jessica Nesbitt	LS #51967	Southeastern
Charles Steffler	LS #52049	Yavapai
Jeff Konecky	LS #52319	Yavapai
John Zappela	LS #52464	Central



The weather is finally getting a little cooler. And its that time of the year to start hiking again. The Arizona landscape is so diverse from the desert and mountain hiking trails in Phoenix, Scottsdale and Tucson areas to the cool high country of Northern Arizona, Arizona Lakes, Rivers, Grand Canyon, Superstition Mountains, White Mountains, Slot Canyons and wilderness backcountry. Hiking Arizona trails is a magical experience whether you choose short, easy hikes or long strenuous hikes. There are beginner trails, day urban hikes and trails that only the experienced should attempt. There are literally hundreds and hundreds of trails scattered throughout Arizona. How to find these great trails is to go to your address bar on your computer and type in **Hiking Trails in Arizona**. Or hiking trails in the area you live. It's a great way to start the fall season, by getting outside and hiking.

We have had a pretty good year with APLS. We have 29 new members of APLS this year. Our seminars and Conference have been very successful and well attended. We are looking forward to our final Seminar of the year on November 11, 2011. The Railroad Seminar with Charlie Tucker, we are expecting around 100 attendees. Also, we will have our final board meeting of the year on November 5. So even though we are not at the end of the year yet, things are starting to get wrapped up and we are looking at next years plans. First thing on the Agenda will be the Annual Membership Board Meeting in January 2012 and then the Annual Conference being held April 26-28, 2012. We are looking at by-laws changes, continuing education and increasing our membership for 2012.

APLS has been busy working on a better Association for you the member. Members will continue to receive a discount on all Seminars and Conferences. Our website will be having some changes sometime the end of October. If you have any questions please don't hesitate to email me at Christa@azpls.org.

Sincerely,
Christa Heley



Watch Your Language

Wendy Lathrop, LS, CFM Reprinted from *The Florida Surveyor*, January 2011

If we as surveyors sometimes find the language of deeds murky, imagine the misunderstandings among lay-people, many attorneys included.

Recent clients had to defend themselves against new neighbors claiming a right to cross my clients' property, based upon recycled language in my clients' deed and an erroneous tax map. By record title, my clients owned a landlocked parcel, physically abutting a right-of-way but conveyed by a deed stating their land was "subject to" it, along with a reference to another right-of-way that did not touch or benefit their land and had become part of a public road in 1935.

Skipping over the details of how such a situation occurred, we will pick up at a point when Mr. and Mrs. Client had been living in peace for 29 years, at which point Mr. and Mrs. Neighbor moved in next door. Within six months, the New Neighbors began stirring up the neighborhood and instituted a suit to cross the Clients' land. But the area they wanted to cross wasn't part of the Clients' land. The 1910 deed named as the basis of the New Neighbors' suit also was not on the Clients' property, although it was clearly headed "Deed of Right of Way" as recorded in the County Hall of Records. That right-of-way was a determinable easement to serve a much larger landlocked tract of which the Clients' land was eventually the remainder, while all other portions fronted on public roads. But that named deed stated that it would terminate on the creation of other access to public roads, which occurred in 1925 when part of the same right-of-way was purchased in fee by the local government to form another public street that gave frontage to the original large landlocked tract.

Changing tack (but not amending their complaint), the New Neighbors moved on to a 1923 deed as the basis of their presumed rights. They hinged their arguments on one particular phrase: "excepting and reserving a right-of-way." And that is the phrase we will examine in this article.

Exceptions are interests that one owns and holds back from a transaction: "I will send you all of my land EXCEPT one acre along the road." Reservations, however, create rights for the first time, and need not be exercised immediately. Think in terms of "I reserve the right to change my opinion upon the disclosure of additional facts."

Taken strictly, the words exception and reservation mean two completely different things. But they have unfortunately been used incorrectly and nearly interchangeably for decades or longer, and even used together as in the "excepting and reserving" clause that has instigated suits not only here but also across the country under many different circumstances. What can that phrase possibly mean?

Here is where we apply the Four Corners Doctrine to our work as professional surveyors. We must look at the entire document to discern the intent of the parties from the intrinsic evidence. We cannot pick and choose which pieces we like best just because they suit our (or our client's) purposes. And so the phrase "excepting and reserving a right-of-way" must be taken as a whole rather than zeroing in on the word excepting as retaining unmitigated fee rights in a particular strip of land (as the New Neighbors' so-called expert did).

When there is a transfer of real property interests in fee, it must be presumed that the grantees are not restricted in their

exercise of full use of that land other than respecting easements to which their new acquisition may be subject, zoning regulations, and similar restrictions. Granted that there are a few random deeds that may prevent a parcel from being used as a tavern or other specific use, or specifically the fee is to last only as long as the land is used for a public library, or convey a life estate that must be exercised in a manner that preserves the rights of the future owners when that life estate expires. But generally, acquisition of fee title allows the grantee to use the land in any manner desired that does not harm the public. Therefore, no words specifying a particular use appear in (non-determinable and non-defensible) fee conveyances.

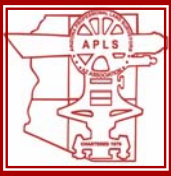
In the phrase "excepting and reserving a right-of-way", a very specific use and purpose is named. Therefore, the phrase indicates a reservation of easement rights, not exception for full fee title. Black's Law Dictionary contains an entry for "except right-of-way":

"Recitals 'less the right of way' and 'except right of way' in granting clause of deed have self-defined accepted certain and unambiguous meaning by which grantor conveys entire interest in servient estate and at same time expressly recognizes and acknowledges dominant estate." [Citation omitted]

The New Neighbors' attorney listened to me read this definition from the stand after also explaining reservations and exceptions, and then stated, "But there is no entry for 'excepting and reserving a right-of-way', is there? Parsing words in this manner before a judge who had a hard time understanding basic real property terminology made my job difficult, and we won't know for some time whether or not I was successful in my endeavors. In part, the situation is complicated by the fact that this is Chancery Court, meaning a court of equity where the laws can sometimes be bent to come up with a "fair" outcome.

Here's what we as surveyors can do to prevent such litigation:

1. We can be more careful in the words we choose in describing the various rights disclosed by the record when writing descriptions and adding notes to our plans and reports.
2. We can and should point out ambiguous or outdated language and references that should not automatically be recycled into the next recorded document. How many times do we see a citation for an easement or restriction that affected the original parent tract in a location far removed from the much smaller tract we are now surveying?
3. We can make it a point to educate our clients about the content, format, and meaning of the documents we provide. We update language and references for a reason: our clients (and also the ultimate users, who may not be our clients) must understand that reason so that (a) they are better informed about their real property rights, and (b) they better appreciate the value of what we do.
4. We must keep learning, reading, discussing, and doing whatever it takes to keep on top of the professionalism and expertise that our clients expect and rely upon and that our state boards of registration demand. ■



You've got the best equipment... You've got the best operators...

CARLSON TAKEOFF

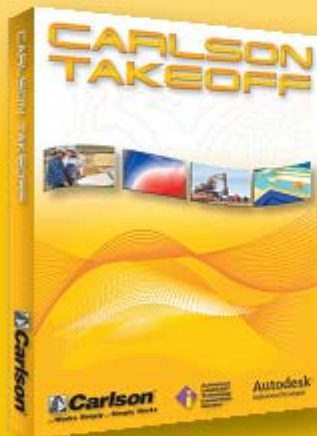
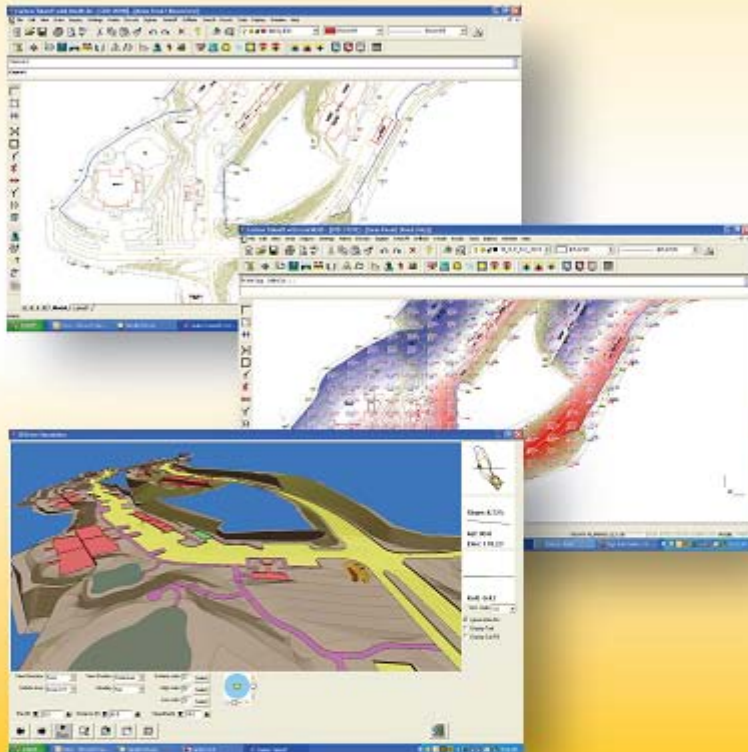
— Get the best 3D Modeling Software

You've invested in machine control to save time and money... but machine control is only as good as the model controlling it.

Build your accurate, efficient machine control models with Carlson Takeoff and get:

- Output to all major MC providers
- 3D surface models
- Site plan views
- Survey control
- Roadway modeling
- Subgrade adjustments
- Cut/Fill volumes

AND, you can use Carlson Takeoff for precise estimates to help you win the job in the first place!

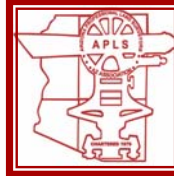


Call or visit Holman's Inc.
800-545-1062
www.holmans.com

HOLMAN'S
Precision Surveying & Computing Solutions

1575 West University Dr., Ste. 111, Tempe, AZ 85281

Carlson
...For the Total Project



Educating Yourself for Hard Times

Gary Briant, PLS, Cfeds - Reprinted from *Empire State Surveyor*, November-December 2010

Are you keeping your head above water?

With the economic times as they are it is a struggle for many of you to do just that.

Times like these cause us all to take a second look at how we operate; Staffing, equipment purchases, stocking up on needed supplies, etc. These and other items all affect how we plan and budget for the future.

There is another area that also affects the bottom line and is so easily put on hold when times are tough but is an area we cannot afford to neglect, "marketing". For some of us that is a dreaded word yet a very essential part of a good business plan, yet too often, it is the first thing to go. I'm not talking about sending flyers out to realtors or attorneys, though that may be a good idea, but that is advertising not marketing. What I'm talking about doesn't cost a thing except your time, and that is, getting smarter than our competition. How do we do this? After all, we basically all provide the same services! Well, that is somewhat true, most of us do plats, ROS's, topographic mapping or construction staking, etc. So what does it take to be smarter than the next firm proposing on the same project?

I believe in education, yes education, not necessarily going back to college or taking an online course, but being better informed about the services we are providing. Let's take FEMA Elevation Certificates, LOMA, LOMA-EZ and LOMA-R's for example. Most of us are aware of the new flood rate insurance maps that came out in May of this year. This has triggered a slew of phone calls from upset property owners that have property fronting on a body of water. Their lenders are telling them they need flood insurance because the new maps show their structure is in the flood plain. That is where we come in, but what will separate me from my competition, assuming we are both highly qualified surveyors? I believe it is understanding the FEMA process better than any other surveyor in town. Educating myself to the point I can skillfully and confidently articulate the process to an upset owner in a way that he can understand it and feel you know your stuff.

You must sell yourself; if I do not have a good grasp on the subject matter I am talking about to a client, I cannot with confidence sell my services to them. So if you want to be successful at marketing during tough times, or any time, educate yourself! Become an expert, that's what the public expects; when they have a need, they want someone who can take them by the hand and confidently lead them through the process. I have had clients tell me time after time how appreciative they were because I took charge and accomplished what they did not have the expertise to do.

Again, you must first sell yourself, being educated about whatever it is you do best just gives you the edge over the other guy. The second thing I have found in marketing is knowing what your schedule is, so that when you are chatting with that potential client, you do not over book yourself. I get lots of repeat business not because I am cheaper than the competition but because I was able to get to it quicker, completed the work on schedule and budget. I have found that price is way down the list, you may have the cheapest price for a LOMA in town, but if you cannot sell yourself and if you cannot complete the work on time, they will go somewhere else.

I know I am probably wearing this out; however, it has been my experience that 90% of marketing is being educated about the product or service you offer. I have clients come back after shopping around; even though I was more costly, and tell me it was because they felt I was better informed about the costs and process. They felt I understood what they needed and felt I could get the job done.

If you were going to do a subdivision wouldn't you get out the Zoning ordinance and the subdivision ordinance and study them? Well, take it a step further, go visit with the planner and maybe the county surveyor, find out how they like to see things done. Maybe they have

a checklist of guidelines they have developed that you can have a copy of. Go visit with the Highway District or the Health Department and ask them how they like to see things done. Gather all the information and knowledge you can. Then, when that client calls, you can guide them through the process with confidence, because you have the process so engrained in your mind you can do it in your sleep.

A little side benefit of being well educated about a specific area is that you accomplish the tasks quicker than someone that is struggling with the process and being able to streamline a process gives you an edge that your competition might not have. Another thing I have noticed is that the agencies that I deal with appreciate working with someone that has their act together.

Finally, don't be afraid to tell your client what they need, after all, you're the expert! ■

Gary Briant, PLS, Cfeds, is the president of the Idaho Land Surveyors Association. He is also a practicing land surveyor in Post Falls, ID and can be reached at garybriant@frontier.com. This article appeared as the Presidents Column in the Fall, 2010 issue of the Gem State Surveyor magazine.

I know I am probably wearing this out; however, it has been my experience that 90% of marketing is being education about the product or service you offer.



TOP 11 REASONS TO RECORD BOUNDARY SURVEYS

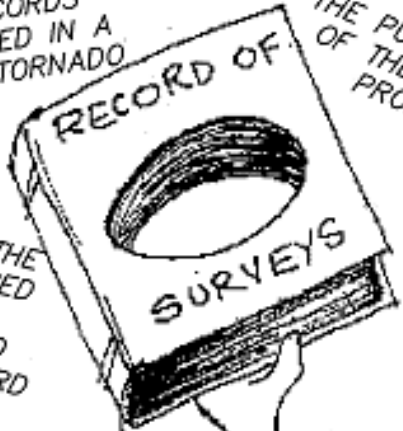
GUESS WHICH RECORD SHOULDN'T HAVE A HOLE IN IT?

11. IT PRESERVES THE RECORD WHEN PRIVATE RECORDS ARE DESTROYED IN A FIRE, FLOOD, TORNADO

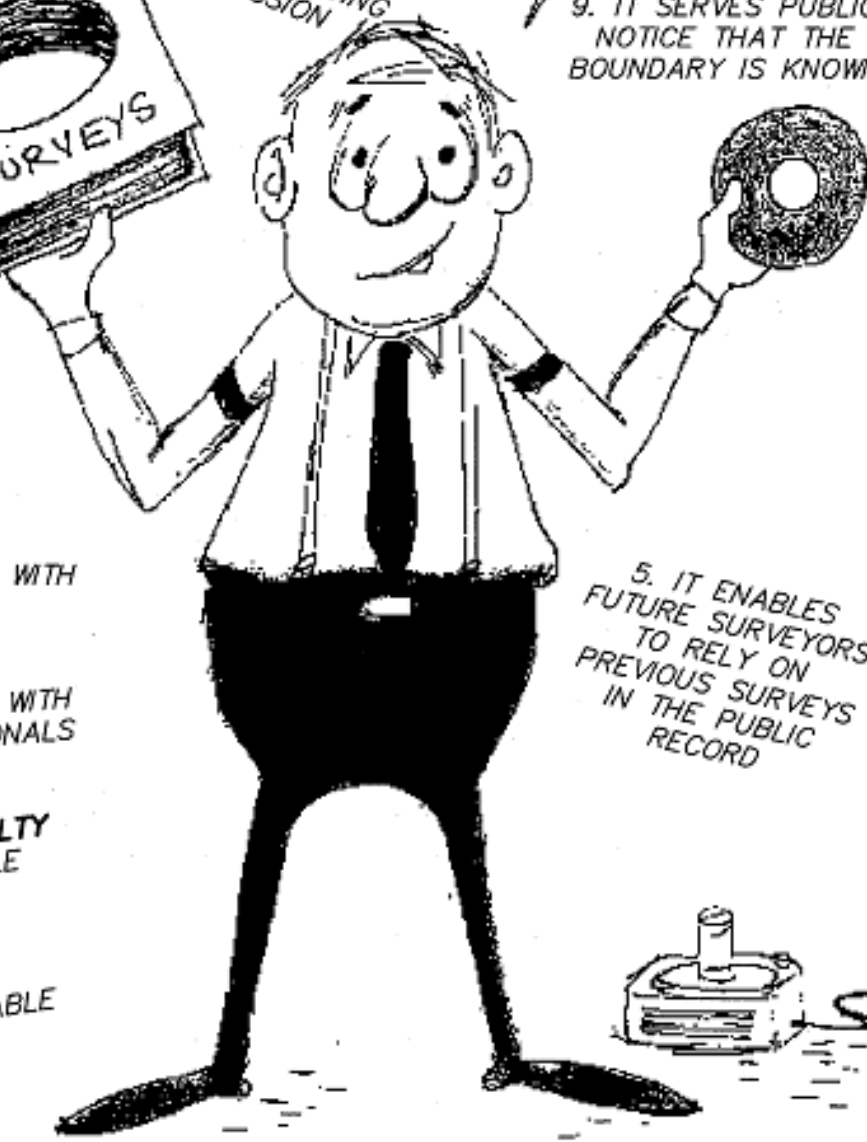
10. IT ENHANCES THE PUBLICS ESTEEM OF THE SURVEYING PROFESSION

9. IT SERVES PUBLIC NOTICE THAT THE BOUNDARY IS KNOWN

8. IT PLACES THE PUBLICLY SHARED AND COMMON BOUNDARY INTO THE PUBLIC RECORD



7. IT PLACES CHANGING AND EVOLVING EVIDENCE INTO THE PUBLIC RECORD



6. IT REDUCES LIABILITY WITH PUBLIC RELIANCE

5. IT ENABLES FUTURE SURVEYORS TO RELY ON PREVIOUS SURVEYS IN THE PUBLIC RECORD

4. IT REDUCES LIABILITY WITH RELIANCE BY PROFESSIONALS

3. IT REDUCES LIABILITY THROUGH A STABLE LAND SYSTEM

2. IT FORMS THE FOUNDATION OF A STABLE LAND SYSTEM

AND THE NUMBER 1 REASON TO RECORD BOUNDARY SURVEYS IS:

IT PROTECTS THE PUBLIC

TROELSTRUP



Leica Geosystems Solutions Center

End of Summer Savings!



Leica Viva NetRover
The All-In-One GNSS Network Solution

GS08 NetRover Basic Package
starting at

\$11,990



- Basic Package includes:
- GS08 GPS Dual Frequency SmartAntenna
 - CS10 Field Controller
 - Aluminum GNSS Pole
 - SmartWorx Viva LT Software

**GLONASS Option Available!

RENTALS AVAILABLE!



- GPS, Total Stations, Levels, and accessories
- Daily, weekly and monthly rates
- Full line of newer models available in stock

Special Pricing Valid Until October 31, 2011

RUST-OLEUM Marking Paint

Colors Available: Blue, white, yellow, orange, red, silver, green, clear, fluo pink, fluo red, fluo green, fluo orange, fluo blue

<u>MSLP</u>	<u>Special</u>
\$5.35 /can	\$2.99 /can



Paint Can Holster

<u>MSLP</u>	<u>Special</u>
\$10.50	\$7.95



Flagging Tape

Colors Available: Flu pink, flu orange, flu green, flu yellow, red, black, white, blue, green

<u>MSLP</u>	<u>Special</u>
\$1.65 /roll	\$1.05 / roll



Flagging Dispenser

<u>MSLP</u>	<u>Special</u>
\$22.00	\$16.95



Stake Chasers / Whiskers

Colors Available: Red, blue, yellow, orange, green, white, pink, purple

** Price is per bundle of 100**

<u>MSLP</u>	<u>Special</u>
\$14.00 /bundle	\$9.00 / bundle



Don't forget your stakes & lath!

Call your local store for pricing and delivery

Local presence ■ National reach ■ Global resources

For more information contact your local Leica Geosystems Solutions Center:

4317 N. 16th St
Phoenix, AZ 85016
800-938-0608

601 S. Campbell Ave
Tucson, AZ 85719
800-805-4056





Leica Viva GNSS RTK Rover Always know you're right.

If there's any job that requires absolute accuracy, it's yours. Most GNSS equipment looks similar on the outside. But strip away the shell, and you'll see why the Leica Viva GNSS RTK Rover outperforms the rest. No other system can match ours for advanced technology and engineering.

Make no mistake - you can't go wrong with Leica Viva.



RIGHT TIME TO TRADE-IN PROMOTION

- **Save \$7,600** per Dual-Frequency GNSS Receiver or Total Station unit traded in for a new Leica Viva GNSS RTK Rover System.
- Any Dual-Frequency Receiver accepted, and any robotic, motorized or manual Total Station, from any brand. That's right - *any brand*.

All trade-in equipment must be less than 10 years old, in working condition and received within 30 days of ordering a new Leica Viva GNSS RTK Rover System. Offer ends 12/31/2011.

Visit www.leica-geosystems.us/right-time or contact your local Leica Geosystems representative for more information:
Nick Cournoyer ■ 602-308-9062
Email: nicolas.cournoyer@leicaus.com



- when it has to be right **Leica Geosystems**



Acquiescence
by

Knud E. Hermansen and Robert A. Liimakka

Acquiescence, similar to the doctrines of estoppel and practical location, is an equitable doctrine that will fix the location of a common boundary in a location that may differ from the location where a surveyor would place the common boundary based on the rules of construction.

The doctrine of acquiescence is known in some jurisdiction as a consentable boundary. Some states have equated it to a boundary by implied agreement. The motivation for a court recognizing a boundary different from the record is to let boundaries that appear to have been settled to be settled. A person that sleeps on their rights should not be allowed to demand with passion what they have for so long ignored with indifference.

The doctrine of acquiescence generally requires three conditions exist. First, the record boundary must be vague or unknown. The purpose for this element is to prevent persons from usurping the legal requirement that parties alter the location of their record boundaries by written instrument. By requiring the boundaries be vague or unknown, the legal fiction is created that the parties-in-interest have not altered the location of their deed boundaries. Rather, the parties-in-interest have fixed a definite location for the boundaries described in their respective deeds. This fiction survives even though a surveyor would place the boundary with some confidence in a different location than where the boundary location has been historically recognized.

A second condition requires one party act by fixing the boundary in a location by definite monumentation or occupation that appears and is accepted as marking the boundary. The boundary so fixed by the one party cannot be based on fraud or deceit. In other words, the party in placing the monuments or barriers must have reasonably believed the objects are placed on the common boundary.

The third condition requires that the non-acting party recognize the barriers or monuments as marking the boundary. Recognition is sufficient if the individual does not contest the location.

The fourth and final condition is that the three conditions exist for some length of time that a reasonable person would have been expected to object or act had they disagreed. A long length of time is not crucial if the location of the record boundary is otherwise vague or difficult to locate and the location of the monuments or barrier is reasonable to the location of the record boundary.

The following situation may give rise to a boundary by acquiescence:

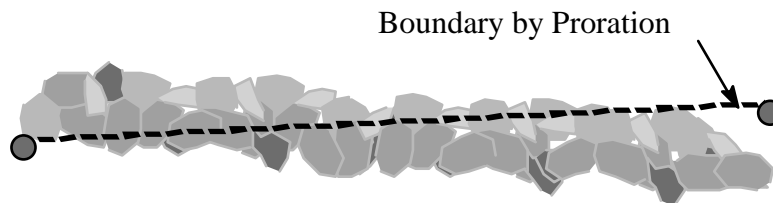
Knud is a professor in the Surveying Engineering Technology program at the University of Maine. He is also a consultant on boundary disputes, alternate dispute resolution, land development, real property law, and access law.

Rob is a professor in the Surveying Engineering Program at Michigan Technological University. He is a professional surveyor and holds a MS in Spatial Information Science and Engineering from the University of Maine, Orono and is currently working on a doctorate in civil engineering.



Continued from Page 19

Bill and Jane live next to each other in an old subdivision. Bill does his best to locate the common boundary he shares with Jane in order to build a rock wall. He makes measurements and sets stakes, eventually building the rock wall along a line between the stakes. Jane watches Bill make the measurements to locate the boundary and observes Bill construct the wall. For many years thereafter, Jane and Bill respect the wall as marking the common boundary. Twelve years later, Jane needs a survey of her property in order to build a garage. In performing the survey for Jane, the surveyor gathers considerable site and record information. Most of the original monuments have disappeared. The surveyor prorates the distances between found monuments that are located several hundred feet away with the following results shown in the diagram:



In the above situation, the court would be reluctant to adopt the boundary established by prorated distances over the location of the stone wall that has been accepted as the boundary for some length of time. The wall is located within reason to the record boundary. It has been accepted as the boundary for over 12 years. The upheaval and disruption in the neighborhood that would result with adopting lines that differ from the long standing occupation flies in the face of equity.

It is reasonable for a surveyor to adopt an occupation line as the boundary where the record boundary location is vague, difficult to fix, or a reasonable location of the record boundary is on or near the occupation line. Justice Cooley remarked on this very situation in the late 19th century using these words.

Occupation, especially if long continued, often affords very satisfactory evidence of the original boundary when no other is attainable; and the surveyor should inquire when it originated, how, and why the lines were then located as they were, and whether a claim of title has always accompanied the possession, and give all the facts due force as evidence. Unfortunately, it is known that surveyors sometimes, in supposed obedience to the state statute, disregard all evidences of occupation and claim of title, and plunge whole neighborhoods into quarrels and litigation by assuming to establish corners at points with which the previous occupation cannot harmonize. It is often the case when one or more corners are found to be extinct, all parties concerned have acquiesced in lines which were traced by the guidance of some other corner or landmark, which may or may not have been trustworthy; but to bring these lines into discredit when the people concerned do not question them not only breeds trouble in the neighborhood, but it must often subject the surveyor himself to annoyance and perhaps discredit, since in a legal controversy the law as well as common sense must declare that a supposed boundary long acquiesced in is better evidence of where the real line should be than any survey made after the original monuments have disappeared. Thomas M. Cooley, Chief Justice, Supreme Court of Michigan, 1864-1885 in *The Judicial Functions Of Surveyors*

Where the surveyor is convinced the location established for the record boundary is different from the markers or barriers acquiesced to by neighbors, the surveyor should report both locations to the client. In reporting both locations, the surveyor would be wise to inform the

Continued on Page 21



Continued from Page 20

client that the acquiesced boundary may in fact be determined to be the ownership boundary based on the doctrine of acquiescence.

The surveyor may want to consider wording such as the following in a letter or report to the client when accepting monuments or barriers by the doctrine of acquiescence:

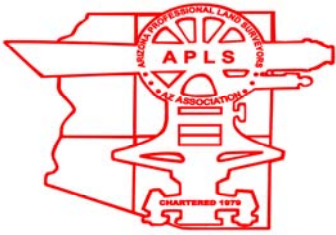
I have established your common boundary to coincide with a stone wall that exists between you and your neighbor. While the stone wall does not coincide with the measurements that were proportioned between existing monuments found beyond your common boundary, it is my opinion that the small difference between the measurements prorated and the measurements made to the wall is insufficient to overcome the equity that courts often find compelling when recognizing occupation lines that were allowed to exist for some time. The courts are often persuaded to leave things settled when it was believed by the parties to have been settled some time ago. You are, of course, at liberty to reject my opinion and advocate that your boundary be the prorated line. Your neighbor may do so as well. In each case, I will be willing to explain both the proration method I used and my belief that the stone wall is ultimately the monument to the common boundary.

Where the surveyor has come to the conclusion that the location of the record boundary is different from monuments or boundaries that were believed to be the boundary, the following example may be used to illustrate the surveyor's opinion as communicated to the client:

I have determined the common boundary to be a line fixed between two monuments. The line was established by dividing the excess distance measured between the two nearby monuments in proportion to the distances shown on the original subdivision plan between the two monuments. It is not unusual to discover that the actual distance measuring in the field is different from the distance shown on the plan, especially given the age of the original survey. The current surveying technology and education of the surveyor far exceed those of the earlier surveyors.

My opinion places the common boundary in a location different from the wall that exists near this boundary. Although the method I have used to reestablish the common boundary was established by the court as a rule of construction, I feel compelled to warn you that the same court will often adopt occupation lines such as the wall to be the ownership boundary contrary to the record measurements. While I am confident in the methods I have employed in fixing your boundary I would be foolish to predetermine where a court would place the boundary if asked to choose between the boundary I have established and the existing stone wall. I believe you would be wise to consult with legal counsel before taking any action in regard to moving the wall or asking the neighbor to do so.

Acquiescence is similar to the equitable doctrine of practical location. The major difference is that practical location requires the parties-in-interest all participate, while acquiescence requires only one party act while the other parties-in-interest acquiesce to the acts of the one party.



APLS MEMBERSHIP APPLICATION

Name _____

(As you prefer it on your membership certificate - Please Type or Print)

Company Name _____

Home Address _____ City _____ State _____ Zip _____

Home Phone _____ / _____ Cell Phone _____ / _____

Company Address _____ City _____ State _____ Zip _____

Company Phone _____ / _____ Fax _____ / _____

Email _____ Website _____

Preferred Mailing Address Home Company

Professional Registration State(s) and Number(s) LS _____ PE _____ Other _____

Professional Member: Any person who is registered as a Land Surveyor in the state of Arizona shall be eligible for membership in this association as a Professional Member. Professional Members shall have voting privileges. Eligibility to hold office in this association shall be limited to Professional Members and as specified in the Association Bylaws.

Chapter Member: Is encouraged but not mandatory. Chapter membership alone is prohibited, i.e., to be a Chapter Member, one must also be a state member.

Membership Type	State Dues	Chapters (check your preferred chapter affiliation)									Total Due
		Central	Verde Valley	Mohave	Northern	Sahuarro	South eastern	White Mountain	Yavapai	Geo-spatial	
Professional Surveyor	\$150.00										
Associate	60.00										
Geospatial Professional	150.00										
Extra Chapter each additional Chapter after the first	35.00										
Sustaining	350.00										
Corresponding	60.00										
Student	25.00										

Include chapter fees that apply to your classification if you wish to join (not mandatory). Current chapters include Central (Phoenix Metro), Verde Valley (Sedona), Mohave (Kingman), Northern (Flagstaff), Rim Country (Globe/Payson), Sahuarro (Tucson), Southeast (Sierra Vista), White Mountain (Show Low), and Yavapai (Prescott). Geospatial Chapter (All areas of the State)

Associate Member: Any person interested in the field of surveying but not licensed as a Land Surveyor in the state of Arizona, who in their profession or vocation relies upon the fundamentals of land surveying. A Professional Member must endorse Associate Members. Associate Members have voting privileges. Associate Members must be endorsed by a current Professional Member

Geospatial Professional Member: Any person actively engaged in a field of practice that acquires, manages, interprets, integrates, displays, analyzes, or otherwise uses data focusing on the technology tools to support geospatial activities, and who has been accepted through the Geospatial Application process.

Student Member: Any person who is a full-time student, but not licensed as a Land Surveyor, and is actively pursuing a surveying education, may be eligible to apply for membership in this organization. The application for membership must be endorsed by a Professional Member. Student Members do not have voting privileges.

Sustaining Member: Any individual, company or corporation who by their interest in the Land Surveying profession is desirous of supporting the purposes and objectives of this Association may be eligible for membership as a Sustaining Member. Acceptance of a Sustaining Member is in no way an official association endorsement of the products or services offered by the Sustaining Member. Sustaining Members will have the firm or company name listed in each issue of "THE ARIZONA SURVEYOR" and other publications of this association under the heading "Sustaining Member" for the year of the current membership.

Corresponding Member: Any person who by their interest in the land surveying profession is desirous of obtaining information about this Association, may become a Corresponding Member, and as such shall receive all Association publications. A Corresponding Member is not eligible to vote or hold any office in the Association.

Extra Chapter: You may belong to more than one Chapter by paying an additional fee of \$35.00 for each Chapter you would like to belong to and checking the box(es) of the extra Chapter(s) you would like to belong to.

Signature _____ Date _____

Associate Endorsement (new member only) _____

Mail application and check payable to: **ARIZONA PROFESSIONAL LAND SURVEYORS**
3346 E. Menadota Dr
Phoenix, AZ 85050

Or pay with your credit card on-line at www.azpls.org



THE ARIZONA SURVEYOR (TAS) NEWSLETTER:

Please indicate if you would like to receive the TAS Newsletter by mail.

_____ Yes, I would like to receive The Arizona Surveyor by snail mail format.

Your name: _____

Your APLS Membership # _____

Please mail your form to:

APLS
3346 E. Menadota Dr. OR
Phoenix, AZ 85050

Fax to: 602-334-1030

Email to: admin@azpls.org

Please complete the following form and mail along with camera ready ad, and check made payable to APLS to:

Christa Heley, Editor,
3346 E Menadota Dr,
Phoenix, AZ 85050.

Please call
(602)481-0530 if you
have any questions.
All ads must accompany payment and be received at the address above on or before 5:00 pm on the ad deadline date.

All ads must be submitted in a camera-ready format. The following prices are for black and white only. Published Quarterly. Copy deadline: the 15th of January, April, July & October.

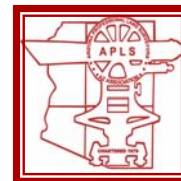
		MEMBER PRICE		NON-MEMBER PRICE	
		1 issue	Yearly(4)	1 issue	Yearly(4)
B&W Adv. Sizes/ Types/Placement	Prof'l Listing	\$30.00	\$75.00	\$60.00	\$200.00
	Business Card	\$45.00	\$150.00	\$ 80.00	\$300.00
	1/4 Page	\$100.00	\$300.00	\$150.00	\$500.00
	1/2 Page	\$140.00	\$350.00	\$200.00	\$600.00
	3/4 Page	\$180.00	\$500.00	\$250.00	\$700.00
	Full Page	\$200.00	\$600.00	\$300.00	\$800.00

CLASSIFIED AD

1 Time Ad - \$50.00

4 Time Ad - \$175.00

Name:	Company:
Address:	City/State/Zip:
Phone:	Fax:
Email:	Ad size:
1 Time or	4 Times
Amount enclosed:	



Central Chapter

APLS 2011 Annual Gold Sponsors

ALLEN
Instruments & Supplies

HOLMAN'S
Precision Surveying & Computing Solutions

APLS 2011 Annual Silver Sponsor

Leica
Geosystems
Solutions Center

Stone Wahl, RLS, President
A -Team Professional Assoc. Inc.
1920 W Peoria Ave
Phoenix, AZ 85029
stone.wahl@ateam.net
602-906-0020

Jason Graham, RLS, President Elect
g2 Land Survey Services, LLC
2131 W Greenbrier Dr
Phoenix, AZ 85023
g2landsurvey@gmail.com
602-421-0817

Darren Yellowaga, Secretary
6922 W Laredo St
Chandler, AZ 85226
darreny@cox.net
602-653-6518

Jim Orr, Treasurer
Maricopa County FCD
2801 W Durango St
Phoenix, AZ 85009
jorr74@gmail.com
602-506-5477

Kelly Miller, RLS, Chapter Director
David Evans and Associates, Inc.
4600 E Washington St #430
Phoenix, AZ 85034
klmi@deainc.com
602-615-6682

Jason Graham, RLS, Chapter Director
g2 Land Survey Services, LLC
2131 W Greenbrier Dr
Phoenix, AZ 85023
g2landsurvey@gmail.com
602-421-0817



Geospatial Chapter

Steve Whitney, President
Pima County DOT
201 N Stone Ave 9th Floor
Tucson, AZ 85701
steve.whitney@dot.pima.gov
520-740-6670

President - Elect, Vacant

Brian Fisher, RLS, Secretary
14222 N 22nd St
Phoenix, AZ 85022
fishoid08@gmail.com
623-354-8349

Tom Homan, Treasurer
Gila County Public Works
1400 E Ash
Globe, AZ 85501
928-425-3231
thoman@co.gila.az.us
928-425-3231

Tom Homan, Chapter Director
Gila County Public Works
1400 E Ash
Globe, AZ 85501
928-425-3231
thoman@co.gila.az.us
928-425-3231

Dave Minkel, Chapter Director
National Geodetic Survey
1616 W. Adams St Room 233
Phoenix, AZ 85007
Phone: 602-542-1569
Fax: 602-542-2600
Email: dave.minkel@noaa.gov

Mohave Chapter

Jason Foose, RLS, President
Mohave County Public Works
3675 E. Andy Devine Ave STE C
Kingman, AZ 86401
jason.foose@co.mohave.az.us
Phone 928-757-0910 Fax 928-757-0920

Vacant, RLS, President Elect

Wayne Griffin, RLS, Secretary
Griffin Surveying LLC
4355 Adams St
Kingman, AZ 86409
wgriffin@griffinsurveying.com
Phone 928-757-2393 Fax 928-757-2372

Wayne Griffin, RLS, Treasurer
Griffin Surveying LLC
4355 Adams St
Kingman, AZ 86409
wgriffin@griffinsurveying.com
Phone 928-757-2393 Fax 928-757-2372

Wayne Griffin, RLS, Chapter Director
Griffin Surveying LLC
4355 Adams St
Kingman, AZ 86409
wgriffin@griffinsurveying.com
Phone 928-757-2393 Fax 928-757-2372

Jason Foose, RLS, Chapter Director
Mohave County Public Works
3675 E. Andy Devine Ave STE C
Kingman, AZ 86401
jason.foose@co.mohave.az.us
Phone 928-757-0910 Fax 928-757-0920



Northern Chapter

Kent Hotsenpiller, RLS, President
Mogollon Engineering & Surveying, Inc
PO Box 1952
Flagstaff, AZ 86002
mogollon99@aol.com
Phone 928-214-0214

John Luckow, RLS, President - Elect
Matrix Land Surveying
9700 N. Lunar Drive
Flagstaff, AZ 86004
lucky18297@hotmail.com
Phone 928-699-0802

John Scott, RLS, Secretary
Arizona Engineering Company
1501 S. Yale St., Ste. 101
Flagstaff, AZ 86001
jscott@arizonaengineering.com
Phone 928-774-7179 Fax 928-779-1041

Tom Butler, RLS, Treasurer
Shepard-Wesnitzer Inc.
110 West Dale Ave
Flagstaff, AZ 86001
tbutler@swiaz.com
Phone 928-773-0354 Fax 928-774-8934

Chris Hull, RLS, Chapter Director
Woodson Engineering
124 E Elden St
Flagstaff, AZ 86001
chrisandjenn4@msn.com
928-774-4636

Jim Carpenter, RLS, Chapter Director

Sahuaro Chapter

Scott Prechtel, President
City of Tucson
201 N. Stone Avenue, 4th Floor
Tucson, AZ 85701
sprechtel1@comcast.com
Phone 520-791-5100

J.O. Teague, President -Elect
Psomas
800 E. Wetmore #110
Tucson, AZ 85719
J.O.Teague@psomas.com
Phone 520-292-2300 Fax 520-292-1290

David M. Williams, RLS, Treasurer
9990 E. Adrianne
Tucson, AZ 85730
Phone 520-546-0151

Pat McGarrity, RLS, Secretary
Psomas
800 E. Wetmore #110
Tucson, AZ 85719
pmcgarrity@psomas.com
Phone 520-292-2300 Fax 520-292-1290

Bruce Hunt, RLS, Chapter Director
Precision Land Surveying
8219 E 22nd St
Tucson, AZ 85710
bruhunt@aol.com
Phone 520-290-3200 Fax 520-298-0106

Doug Schneider, RLS, Chapter Director
Rick Engineering Company
3945 E Fort Lowell Road #111
Tucson, AZ 85712
dschneider@rickeng.com
520-795-1000



Southeastern Chapter

Dale Jones, RLS, President

Cochise County
1415 Melody Lane
Bisbee, AZ 85603
djones@co.cochise.az.us
Phone 520-432-9331

Don Loose, RLS, Vice President

ALTA Land Survey
209 N Huachuca Blvd
Huachuca City, 85616
dloose@alta-land.com
Phone 520-432-4800

Charles L Dowdell, PLS, Secretary:

Charles L. Dowdell Enterprises
529 E. Highway 82
Huachuca City, AZ 85616
cldowdell@msn.com
Phone 520-456-2311

David Stratton, RLS, Treasurer

Stratton & Associates
940 W. Mohawk Dr.
Safford, AZ 85546
jmstratton@aznexus.net
Phone 928-348-7586 Fax 928-348-9971

David Stratton, RLS, Chapter Director

Stratton & Associates
940 W. Mohawk Dr.
Safford, AZ 85546
jmstratton@aznexus.net
Phone 928-348-7586 Fax 928-348-9971

Charles L. Dowdell, PLS, Chapter Director

Charles L. Dowdell Enterprises
529 E. Highway 82
Huachuca City, AZ 85616
cldowdell@msn.com
Phone 520-456-2311

White Mountain

Daniel R. Muth, RLS, President

PO BOX 1753
Springerville, AZ 85938
dan.muth@frontiernet.net
Phone 928-245-3922

Stephen James, RLS, Vice President

U.S.D.A. Forest Service, Apache-Sitgreaves NF's
P.O. Box 640
Springerville, AZ 85938
sgjames@fs.fed.us
Phone 928-333-3163

Ron Scorse, RLS, Secretary

Arizona Public Service Company
741 South Main St.
Snowflake, Arizona 85937
LS32795@cableone.net
Phone 928-536-3117

Ron Scorse, RLS, Treasurer

Arizona Public Service Company
741 South Main St.
Snowflake, Arizona 85937
LS32795@cableone.net
Phone 928-536-3117

Daniel R. Muth, RLS, Chapter Director

PO BOX 1753
Springerville, AZ 85938
dan.muth@frontiernet.net
Phone 928-245-3922

Stephen James, RLS, Chapter Director

U.S.D.A. Forest Service, Apache-Sitgreaves NF's
P.O. Box 640
Springerville, AZ 85938
sgjames@fs.fed.us
Phone 928-333-3163



Verde Valley

James Crowley, RLS, President
Shepherd - Wesnitzer, Inc.
PO BOX 3924
Sedona, AZ 86340
jcrowley@swiaz.com
Phone: 928-282-1061 Fax: 928-282-2058

Ivo Buddeke, RLS, Vice President
Cornerstone Surveying & Engineering
1010 N Main St
Cottonwood, AZ 86326
lvorls@gmail.com
Phone: 928-649-0949 Fax: 928-649-3801

Vacant, RLS, Treasurer

Pat Naville, RLS, Secretary
Shepherd - Wesnitzer, Inc
221 N. Marina St, Suite 102
Prescott, AZ 86301
pnaville@swiaz.com
Phone: 928-541-0443 Fax 928-541-1075

James Crowley, RLS, Chapter Director
Shepherd - Wesnitzer, Inc.
PO BOX 3924
Sedona, AZ 86340
jcrowley@swiaz.com
Phone: 928-282-1061 Fax 928-282-2058

Stan Dickey, RLS, Chapter Director
116 W Salt Mine Rd
Camp Verde, AZ 86322
stan.dickeyjr@srpnet.com
Phone: 928-646-5296

Yavapai

Tom Liuzzo, RLS, President
5132 N Verde Lane
Prescott Valley, AZ 86314
thomasliuzzo@gmail.com
Phone 928-899-2947

Diana Garcia, RLS, President - Elect
Orion Land Surveying
P.O. Box 25717
Prescott Valley, AZ 86312
galsurveyor@commspeed.net
Phone 928-772-5991 Fax 928-772-5991

Dave Passmore, RLS, Secretary
VTN Nevada
2727 S Rainbow
Las Vegas, NV 89149
davep@vtnnv.com
702-873-7550

Dale Famas, RLS, Treasurer
Empire Surveying, Inc
P.O. Box 67
Paulden, AZ 86334
famasis@hotmail.com
Phone 928-636-6992 Fax 928-636-6993

Dale Famas, RLS, Chapter Director
Empire Surveying, Inc
P.O. Box 67
Paulden, AZ 86334
famasis@hotmail.com
Phone 928-636-6992 Fax 928-636-6993

Diana Garcia, RLS, Chapter Director
Orion Land Surveying
P.O. Box 25717
Prescott Valley, AZ 86312
galsurveyor@commspeed.net
Phone 928-772-5991 Fax 928-772-5991



2011 Board Officers

Tom Liuzzo, RLS, Chair
5132 N Verde Lane
Prescott Valley, AZ 86314
thomasliuzzo@gmail.com
Phone 928-899-2947

Wayne Griffin, RLS, Secretary
Griffin Surveying LLC
4355 Adams St
Kingman, AZ 86409
wgriffin@griffinsurveying.com
Phone 928-757-2393 Fax 928-757-2372

Christopher McDonald, RLS, Vice Chair
PO BOX 9
Queen Creek, AZ 85142
rls45547@earthlink.net
Phone 602-615-1996

David Shane, RLS, Treasurer
GMTS Corporation
8828 North Central Avenue #202
Phoenix, AZ 85020
david@gmtsrw.com
602-371-8309

Who's Who in APLS

Christopher McDonald, RLS, WFPS Representative
PO BOX 9
Queen Creek, AZ 85142
rls45547@earthlink.net
Phone 602-615-1996

Mike Fondren, RLS, NSPS Governor
Stanley Consultants
1661 E Camelback Rd #400
Phoenix, AZ 85016
mikefondren@yahoo.com
Phone 602-333-2200
Fax 602-333-2333

Jason Foose, RLS, AGIC Representative
Mohave County Public Works
3675 E. Andy Devine Ave STE C
Kingman, AZ 86401
jason.foose@co.mohave.az.us
Phone 928-757-0910 Fax 928-757-0920

**Hal Epperson, RLS,
Board of Technical Registration**
A -Team Professional Associates, Inc
1920 W Peoria Ave
Phoenix, AZ 85029
hal.epperson@ateam.net
Phone: 602-906-0020



2011 APLS Board Officers & Committee Chairmen

Chairman

Tom Liuzzo, RLS

Vice Chairman

Christopher McDonald, RLS

Secretary

Wayne Griffin, RLS

Treasurer

David Shane, RLS

NSPS Governor

Mike Fondren, RLS

WFPS Delegates

Christopher McDonald, RLS

AGIC Representative

Jason Foose

Strategic Plan Committee Chair

Vacant

Awards Committee Chair

Steve Mclain, RLS

Conference Committee Chair

Mike Fondren & Jason Graham

Golf Committee Chair

Darren Yellowaga

Membership Committee Chair

Todd Rakstad, RLS

Education Committee Chair

David Schlieff

APLS Education Foundation

Ken Krenke, RLS

Public Information Committee Chair

Tom Liuzzo, RLS

Historical & Bylaws Committee Chair

Chuck Paddack, RLS

Bylaws Committee Chair

Chuck Paddack, RLS

Ethics & Standards Committee Chair

Stan Dickey

Legislative Committee Chair

Ken Shipley, RLS

2011 Chapter Presidents

Central Chapter

Stone Wahl, RLS

Geospatial Chapter

Steve Whitney

Northern

Kent Hotsenpiller, RLS

Mohave

Jason Foose, RLS

Sahuaro

Scott Prechtel, RLS

Southeastern

Dale Jones, PLS

White Mountain

Daniel R. Muth, RLS

Verde Valley

James Crowley, RLS

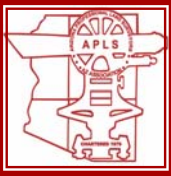
Yavapai

Tom Liuzzo, RLS



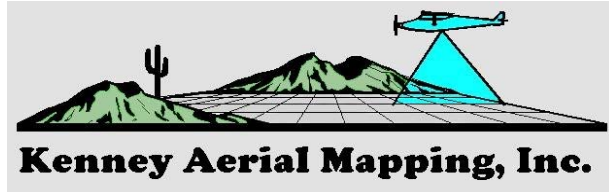
SUSTAINING APLS MEMBERS

<p>AERIAL MAPPING COMPANY, INC 3141 E. Clarendon Ave Phoenix, AZ 85017 (602) 263-5728 FAX: (602) 263-0165 aerialmapping.com</p>	
<p>AEROTEK E & E 4645 E. Cotton Center Blvd. Ste 161 Bldg.2 Phoenix, AZ 85040 (602) 567-1953 FAX: (602) 567-1970</p>	
<p>ALLEN INSTRUMENTS & SUPPLIES 7114 E. Earll Dr Scottsdale, AZ 85258 (480) 994-1306 FAX: (480) 994-8337 1-800-272-0180 www.alleninst.com</p>	
<p>COOPER AERIAL SURVEYS CO. 11402 N. Cave Creek Rd Phoenix, AZ 85020 (602)678-5111 FAX: (602)678-5228 www.cooperaerial.com jcooper@cooperaerial.com</p>	
<p>HOLMAN'S 1575 W. University Dr #111 Tempe, AZ 85281 (480) 967-0032 Fax (480)897-9688 www.holmans.com atrujillo@holmans.com</p>	



SUSTAINING APLS MEMBERS

KENNEY AERIAL MAPPING
 1125 Grand Ave Bldg #1
 Phoenix, AZ 85007
 (602) 258-6471
<http://www.kam-az.com>
jcahoon@kam-az.com



Leica Geosystems
 4317 N. 16th St
 Phoenix, AZ 85016
 (602) 274-2052 FAX: (602) 274-3740
nicolascournoyer@qwest.net
<http://www.servco1.com>



Sterling Systems, LLC
 8707 E Vista Bonita Dr #240
 Scottsdale, AZ 85255
 480-629-8131
brucewhite@sterlingsystemsusa.com



Stewart Geo Technologies
 5730 Northwest Parkway #100
 San Antonio, TX 78249
 (210)684-2147 x 3104
rstack@stewart.com



SURV-KAP, INC.
 PO Box 27367
 Tucson, AZ 85726
 (520) 622-6011 FAX: (520) 792-2030
 1-800-445-5320
survkap@mindspring.com
www.surv-kap.com



VERTICAL MAPPING RESOURCES, INC.
 15169 N Scottsdale Rd Building C #320
 Scottsdale, AZ 85254
 (480) 948-2555 FAX: (480) 948-2521
www.verticalmapping.com

