

The UCLS Newsletter



What & Where is it?



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is published monthly by the*

**Utah Council of
Land Surveyors**
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IN THIS ISSUE:

Page 2.....Board & Committee
Page 3.....NSPS Strategic Plan
Page 4.....Geomatics Core
Page 5.....Geomatics Core Continued
Page 6.....NSPS Legislative Agenda
Page 7.....UCLS Board Meeting Agenda
Page 8.....UCLS Scholarship Application
Page 9.....NSPS 100% State Participation
Page 10.....Dastardly Deed

Do you recognize this unique structure which was vital to the early Utah surveys?

The first UCLS member, who responds and correctly identifies the location and purpose of this month's "Where Is It" question, may be rewarded with a free meal at their next chapter meeting. Answers may be emailed to uclsforesights@ucls.org or smerrill@ucls.org. The winner will be determined by the earliest received date and its time of response.

In This Issue: The UCLS committee and chapter leadership presented their various reports at our annual conference. Therefore this newsletter does not contain any new chapter

or committee reports. However, you are encouraged to contact a committee chair and/or chapter presidency for more information and/or to support their cause.

Dan Perry contributed a second of a series of informative articles about the Geomatics Program in Utah. To supplement Dan's article, you will find a UCLS scholarship application form that should be passed on to anyone who may be pursuing a higher education. Please note the due date for the scholarship application is June 1.

Do you have a picture to share? We invite you to share charismatic photos of yourself and/or coworker, panoramic images of Utah's scenic wonders, or pictures of survey related tools and equipment. Additionally, we need interesting and unique descriptions or survey related stories to share with our membership. Remember, if you do not participate you have no right to complain. Please let us know your thoughts, recommendations, suggestions, or complaints.

"Clients cannot judge the technical qualifications of surveyors; if they were that competent, they would do the job themselves. Judgment of capabilities is usually based on other items such as personal appearance, mannerisms, the ability to discuss everyday events and the command of words."

-Brown 2nd Editions, Boundary Control
and Legal Principals, preface

The UCLS Newsletter is published monthly by the Utah Council of Land Surveyors (UCLS), as a service to the Land Surveying profession of the state of Utah. The publication is provided to UCLS members and similar organizations on a complimentary basis. The Newsletter is not copyright protected, therefore articles, except where specifically copyright noted, may be reprinted with proper credit given. Articles appearing in the Newsletter publication do not necessarily reflect the viewpoint or endorsement of UCLS, its officers, Board of Directors, or the editor.

Contributions are encouraged. Articles, Advertisements, Pictures, and Comments may be submitted to UCLS at ucls@ucls.org or uclsforesights@ucls.org

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NSPS Strategic Plan -NSPS Executive Director Curtis Sumner

As NSPS moves from the “merger” with ACSM to the 100 percent initiative, it is imperative that the national organization has a road map to the future - a strategic plan.

In order to set priorities, and establish goals and objectives for NSPS, a number of steps are being taken to add value to membership, set a course for the organization, and make it a more effective advocate and forum for the profession. A new government affairs consultant, John M. Palatiello & Associates, Inc., has been retained. A new media relations and communications consultant, Fatdog Media, Inc., has been brought on board. A membership questionnaire on government and legislative issues has been provided to the membership.

The next, and important, step is to set a direction for both NSPS and the surveying profession. To do this, NSPS will conduct a strategic planning session on Saturday, April 13, 2013 in Gaithersburg, Maryland. Included will be a facilitated session that evaluates strengths, weaknesses, opportunities and threats, commonly known as a SWOT analysis.

Strengths and weakness are internal to NSPS and the surveying profession. Strengths are the assets that the profession presently holds that contribute to the vigor and power of the profession today, and could contribute to its growth in the future. Weaknesses are perceived flaws within the profession that would hamper its ability to be effective or to grow.

Opportunities and threats are external to NSPS and the profession. Opportunities are situations that the geospatial profession could take advantage of to further its goals and effectiveness. Threats are circumstances external to the profession that jeopardize the success of the profession today or in the future.

The following are some typical SWOT session questions. NSPS members participating in the Spring Business Meeting should consider the following questions in preparation for the meeting. NSPS leaders are encouraged and expected to come prepared to share their thoughts and fully participate on each of these. Views and input are welcomed from Members and other interested surveyors who are not in the NSPS leadership or are not attending the April 12-14 Spring Business Meeting. Please post your comments below.

- What do you believe are NSPS/surveying profession's most significant strengths?
- What do you believe are NSPS/surveying profession's most significant weaknesses?
- What do you believe are NSPS/surveying profession's most significant external opportunities?
- What do you believe are NSPS/surveying profession's most significant external threats?
- What actions should NSPS implement to correct the weaknesses and threats in NSPS and the surveying profession?
- What actions should NSPS implement to take advantage of these opportunities and strengths?

A robust, constructive, interactive session among the NSPS Board of Governors, NSPS Board of Directors, State Executive Directors and other leaders of NSPS is anticipated and encouraged. Please come prepared to engage in this discussion.

UTAH CODE

17-23-17. Map of boundary survey -- Procedure for filing -- Contents -- Marking of monuments -- Record of corner changes -- Penalties.

(2) (a) (i) Each land surveyor making a boundary survey of lands within this state to establish or reestablish a boundary line or to obtain data for constructing a map or plat showing a boundary line shall file a map of the survey that meets the requirements of this section with the county surveyor or designated office within 90 days of the establishment or reestablishment of a boundary.

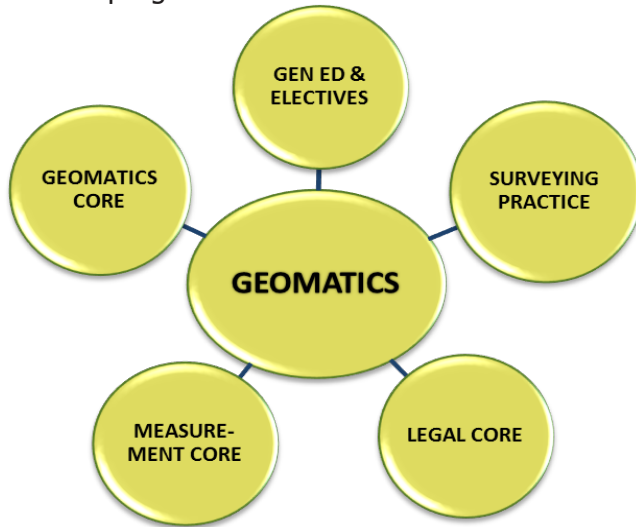
(ii) A land surveyor who fails to file a map of the survey as required by Subsection (2)(a)(i) is guilty of a class C misdemeanor.

(iii) Each failure to file a map of the survey as required by Subsection (2)(a)(i) is a separate violation.

Course Work Details - Part 2

- Dan Perry

This article is the second in a series of four articles intended to inform you as a member of the Utah Council of Land Surveyors about the Geomatics Program at Utah Valley University (UVU). 1) Why and how it was developed 2) Details of the coursework 3) Other important elements of the program and 3) What the program could look like in the future.



As stated in Part 1 the UVU Geomatics Program was developed with 5 major "core" areas in response to the research, studies, and various surveying and geomatics programs already functioning well across the United States. Below is a brief outline and description of the coursework offered in the Bachelor of Science (BS) degree in Geomatics here at UVU.

GENERAL EDUCATION & ELECTIVES

Thirty-six (36) credit hours of General Education are required at UVU to graduate with a BS or BA in any subject. General Education courses include: mathematics, physical, biological, and social sciences, arts, humanities, U.S. history, english, and health/fitness. The need and value of these courses is the source of some debate but is a topic of discussion for another article.

Six (6) credit hours of geomatics specific or geomatics related topics are required to graduate with the BS in Geomatics. Some of the courses which may be selected by the student are GIS-Thematic Mapping: Environmental Impacts, GIS-Thematic Mapping: Culture and Societies, Geomatics Internship, higher mathematics courses, engineering courses, legal courses, and physical science courses.

GEOMATICS CORE

- Intro to Geomatics (SURV 1020): Introduces the bread and depth of Geomatics today including Land Surveying, GIS, and Cartography.
- Surveying (EGDT 1400): 1st field oriented surveying course includes manual measurement methods, traversing, leveling, bearing calculations and conversions, compass rule adjustment, cartography, and introduction to the U.S. PLSS
- CAD/Civil Drafting (EGDT 1040 and 2730): Consists of two courses- AutoCAD and Civil Drafting principles and techniques
- Land Development, Planning, and Platting (SURV 3030): Planning and land development principles and survey drafting techniques including an the drawing of a ROS, ALTA/ACSM, topographic and site map, and a subdivision plan
- Land & Survey History (SURV 2010): Begins with pre-Egyptian surveying evidences and moves forward in time through Egyptian, Greek, Roman surveyors to surveying in America, and then surveying in Utah.
- Introduction to GIS (GEOG 3630): Introduces the basic principles and practices of cartography using ArcGIS as a geographic and information tool
- GIS for Surveyors (GIS 2640): A next step course above Intro to GIS. Teaches more GIS principles and practices such as transformations and datum's
- Geodesy (SURV 2030): Introduction to the science of Geodesy. Measuring the earth using satellite technology, GPS theory and principles, and even some practical astronomy
- Measure Analysis and Adjustments (SURV 3010): Examines observation theory, and observational error analysis, theory of measurement errors and error propagation...and the theory of the least squares adjustment methods.
- Technical Writing (ENGL 2310): Typical technical writing techniques course taken after the basic general education English courses. Taught by the English department
- College Algebra (MATH 1050): Typical college algebra mathematics course taught by the Math department
- Trigonometry (MATH 2040): Typical trigonometry mathematics course taught by the Math department
- Introduction to Calculus (MATH 1100): Typical introduction to calculus mathematics course taught by the Math department
- Statistics (MATH 2040): Typical statistics mathematics course taught by the Math department

Course Work Details Part 2 Continued

SURVEYING PRACTICE (Operating a surveying practice)

- Business Law (LEGL 3000): Introduces torts, criminal, and civil law
- Financial and Managerial Accounting (ACC 3000): Principles and practices of financial accounting, costs analysis, and management of costs
- Global Professional Ethics and Liabilities (SURV 455G): Considers the liabilities specific to licensed surveyors, the professional ethics needed by licensed surveyors, and a global Geomatics perspective is introduced
- Senior Geomatics Project (capstone) (SURV 4920): Provides an opportunity for a senior Geomatics student to participate in a significant and current research project which will advance the field of Geomatics
- Geomatics Lecture Series (SURV 451R): Guest speakers are invited to speak to the class on current issues in surveying and mapping
- Surveying Practice (SURV 4500): Teaches the student the principles and practices needed to successfully start, manage, and operate a successful surveying firm.

LEGAL CORE

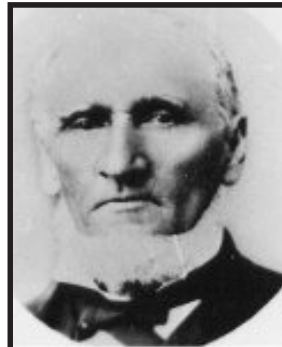
- Surveying US Public Lands (SURV 2310): In-depth study of the BLM Manual of Instructions
- Property Descriptions (SURV 2320): Involves analysis, interpretation, and writing of legal descriptions with proper form, controlling elements, metes-and-bounds, sectionalized land descriptions, easements, and right-of-ways
- Boundary Law (SURV 4340): Studies the responsibilities of the land boundary surveyor in protecting rights, title, and interest of the land; riparian and littoral rights, bona-fide rights, boundary easements and reversions, conveyances; sequential and simultaneous
- Public Land Records (SURV 2360): Studies the responsibilities of the professional land surveyor regarding due diligence in searching public land records and performing applicable legal research
- Surveying Legal Principles (SURV 4340): Focuses on researching the body of law as it applies to the practice of surveying. Discusses principles and concepts of dispute and conflict resolution as well as the specific role of the expert witness.

MEASUREMENT CORE

- Surveying Applications (EGDT 2400): Second in a series of surveying field techniques including precision leveling, radial and GPS surveying principles of data collection and data adjustments, some data transformation, and an introduction to construction surveying

- Photogrammetry & Remote Sensing (SURV 2210): Examines principles and practices of photogrammetry and remote sensing as applied to surveying and mapping
- Control Surveys (SURV 3220): Includes advanced applications levels and studies the establishment of control surveys and survey networks. Teaches practical applications of network adjustment, control surveys, triangulation, and precision traverses with precise elevation control
- Construction and Route Surveys (SURV 3230): Includes advanced applications levels and studies computer solutions and applications from plans and specifications using modern data collection and coordinate geometry (COGO) computer software. Demonstration of field skills and techniques in performing field applications of site surveys, earthworks, piping, roads/highways, and commercial projects

The next article will discuss various other programs and issues perceived to be of great value and essential to the overall success of the Geomatics Program at UVU.

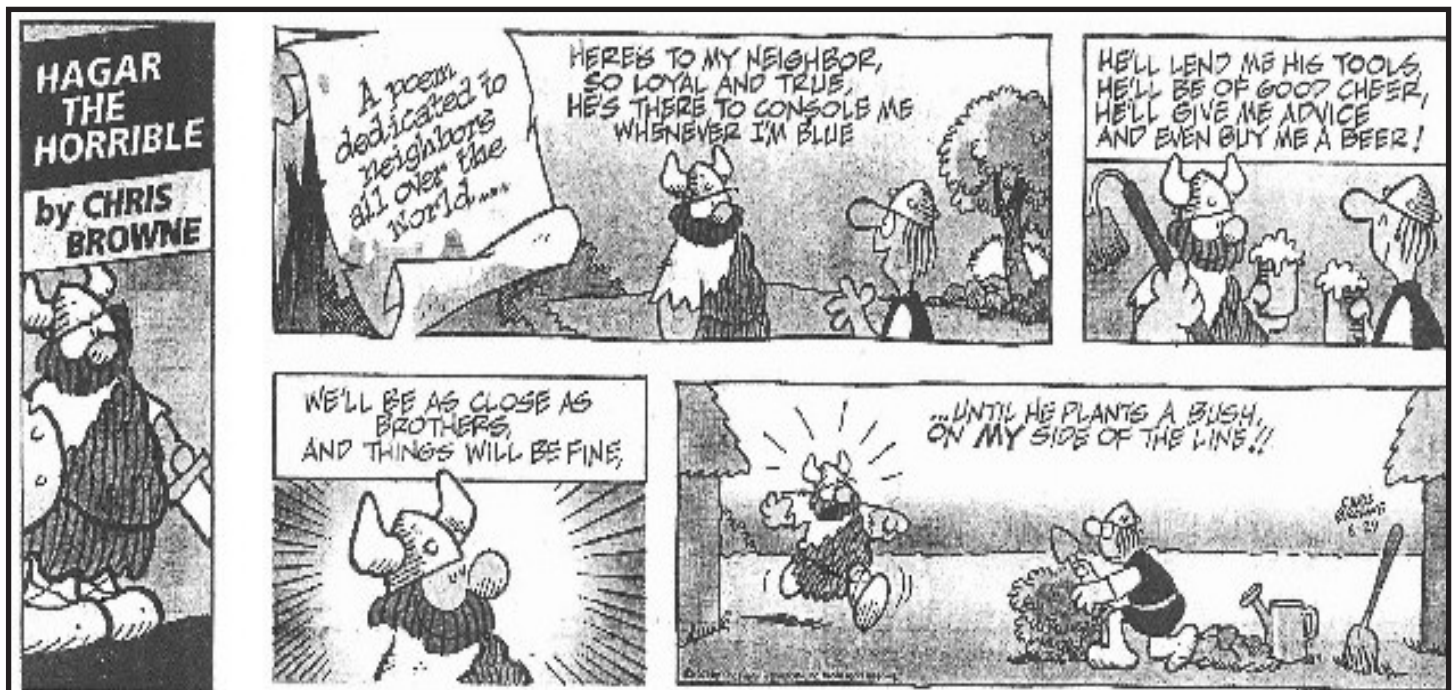
**February Who is it**

The correct answer for our February "Who is it" contest was Corbin Van Nest who submit his guess slightly quicker than Ryen Johnson. Both Corbin and Ryen correctly identified our mystery person as Jesse W. Fox.

We also received responses from members who suggested the picture might be Orson Pratt, Parley P. Pratt, Howard Stansbury, or David Burr.

Jesse W. Fox Sr. was the first Great Salt Lake City and County Surveyor. He is given credit for surveying and mapping the cities of Salt Lake, Provo, Ogden, Logan and others. Additionally, he was instrumental in laying out canal systems in Salt Lake, Weber, and Utah counties as well as the Utah Central and Utah Southern railroads.

Although Jesse W. Fox Sr. accomplished much, his autobiography indicates his desire to be remembered as a teacher.



NSPS utilizes questionnaire to set legislative agenda

NSPS Government Affairs Consultant John M. Palatiello and Associates, with assistance from Flat Dog Media, the NSPS media relations firm, has prepared a questionnaire to inquire of its members their perspectives for establishing a Government Affairs issues agenda for the coming year. To participate in this exercise, go to <http://www.surveymonkey.com/s/K22DZCJ> Rhonda Rushing (Berntsen International) has donated five copies of her popular book entitled "Lasting Impressions" to be given to five respondents to the questionnaire. The drawing for winners' names will be at random.

Did you know!

Conference handouts and supporting information can be obtained on the UCLS Website at <http://www.ucls.org/>

Colorful quotes from the mouths of surveyors:

- "I would have more people skills if I had people with skills."
- "My party chief wanted to go someplace he had never been before... so I took him to the rear property line."
- "Surveying - it is a great career, but a lousy business."
- "People do not choose to be surveyors, but they are born that way."
- "If you really want to know where your property line is, ask your neighbor."
- "I remember surveying the adjoiner in 1957. There was an SIB set by Pierce on that corner."

Colorful quotes from the mouths of our clients:

- "Why did they let me build my house on their property? someone should have stopped me."
- "I did hit my neighbors car with that sledgehammer, but that sledgehammer is not mine."
- "I got a coordinate from google earth, and laid out my property line with my hand held GPS. What do you mean it is not right?"
- "Yeah, I saw the survey bars along the road, but I found a few good hits with a sledgehammer and they will come right out. I use them to hold my barn door open and as pry bars."
- "I took a surveying course in college in 1962. If I help out the crew, will it save me some money?"

UCLS Board Meeting Agenda
April 13, 2013
9:00 A.M.
Utah County Surveyor Office
2855 South State Street
Provo, Utah
(Breakfast will be provided)

- I) Welcome & Call to Order - Ernest Rowley
- II) Roll Call
- III) Additions to Agenda
- IV) Approval of Minutes - February 28, 2013
- V) Secretary Report -
 - a) Budget review
 - i) Aaron Lund CPA
 - ii) Adopt a tentative budget
 - iii) Begin the Bylaw amendment process to codify the budget process
 - iv) Include the change that was made on the Treasurer position being the Past Chair
 - v) Credit Card Transation fees - are we ok with how it is being paid?
 - vi) Sending UVU & SLCC students to the NSPS Competition?
 - vii) Investment Prospectus - Brad Mortensen and Dallas Buttars
 - viii) Twist program - we have two instructors who would like funding
 - ix) Brad has not been appointed by the board to function as the Treasurer - do we need to include the change that was made on the Treasurer position being the Past Chair in the by-laws?
- VI) Follow-Up Items
 - a) Letter was sent to the National Surveying Museum indicating that they keep the full donation
 - b) DOPL Changes to rules and the 30 hour requirement - Scott Bishop
 - c) NSPS MOU report of activity
- VII) New Items
 - a) Surveyor of the Year and Lifetime Achievement Award
- VIII) Committee Chair Assignments
 - a) **Membership** - Ryan? Chair, Jim Kaiserman Liaison
Members: Ryan Allred, Wade Wilde, Tim Newell, Dan Knowlden Jr.
 - b) **Public Relations** - Trent Williams Chair, Brad Mortensen Liaison
 - c) **Legislative** - Doug Kinsman Chair, Dennis Carlisle Liaison
Members: Brad Mortensen, James Coutts, Jim Kaiserman, Jim Pitkin, John Stahl, Kevin Bishop, Mike Withers, Richard Miller, Ryan Peterson, Dale Robinson
 - d) **Education** - Dan Perry Chair, Dave Balling Liaison
 - e) **Publication** - Steve Keisel Chair, Val Schultz Liaison
Members: Bill Dearden, Dave Balling, James Fisher, Jeff Searle, Jerry Fletcher, John Halleck, Keith Russell
 - f) **Workshop & Convention** - Scott Woolsey Chair 2014 Convention, James Olschewski Chair 3013
Fall Forum, David Kay Liaison
 - g) **Standards and Ethics** - Matt Clark Chair, Mike Nadeau Liaison
 - h) **Testing** - Darryl Fenn Chair, Ken Hamblin Liaison, Richard Oborn DOPL
 - i) **Historical** - Greg Hansen Chair, Jerry Allred Liaison
 - j) **Construction Surveying** - Lance Greer Chair, David Mortensen Liaison
Members: Russ Flint Vice-Chair, Craig Yates, Scott Bishop
- IX) Closing of National Museum of Surveying - Steve Keisel
- X) UAC Report - Reid Demman
- XI) Express Map Services complaint - Standards and Ethics Committee
- XII) WestFed Report - Mike Nadeau
- XIII) Chapter Reports
 - a) Book Cliffs - Jerry Allred pres - David Kay Rep
 - b) Color Country - Scott Woolsey pres - Roger Bundy Rep
 - c) Golden Spike - Dallas Buttars pres - Val Schultz Rep
 - d) Salt Lake - Jeff Searle pres - Dale Robinson Rep
 - e) Timpanogos - Dennis Carlisle pres - Jim Kaiserman Rep
- XIV) Adjourn

UTAH COUNCIL OF LAND SURVEYOR'S SCHOLARSHIP APPLICATION FORM

Effective: January 1, 2006

ELIGIBLE STUDENTS:

Applicants must be a resident of The State of Utah and studying curriculum leading to a career in the Land Surveying profession. Applicant must intend to take the Fundamentals of Surveying (FS), Principles and Practice of Surveying (PS), and the State final exam for licensure in the State of Utah as a Professional Land Surveyor.

ELIGIBLE INSTITUTIONS:

Eligible institutions include any public or private, accredited institution located within the State of Utah, whose curriculum is approved by the Utah Council of Land Surveyors Education Committee.

AMOUNT OF THE SCHOLARSHIP(S):

The quantity and value of the scholarship(s) will be determined each year by the Executive Board of the Utah Council of Land Surveyors, (UCLS,) after receiving recommendations from the Education Committee serving under the Executive Board. The Executive Board will establish the number of scholarships, and the amount of each scholarship, for the year following their term in office on or before December 31 of the year they each leave office. They will announce their intentions during the installation banquet at the annual convention.

APPLICATION PROCESS:

Interested applicants may apply by completing a UCLS Scholarship Application Form, the completed and signed form, accompanied by a transcript of all undergraduate work completed, must be received at the office of the UCLS, **on or before June 1**, to be eligible for consideration. Additionally, two letters of reference from employers or supervisors in the field of land surveying, and a statement from the applicant specifying their educational and career goals, must be included.

SELECTION:

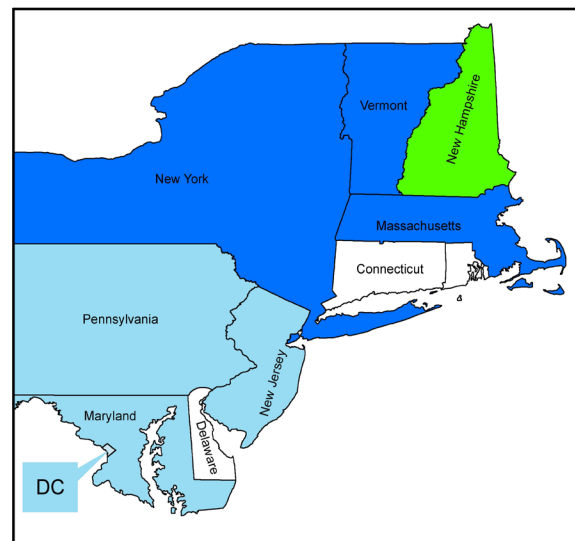
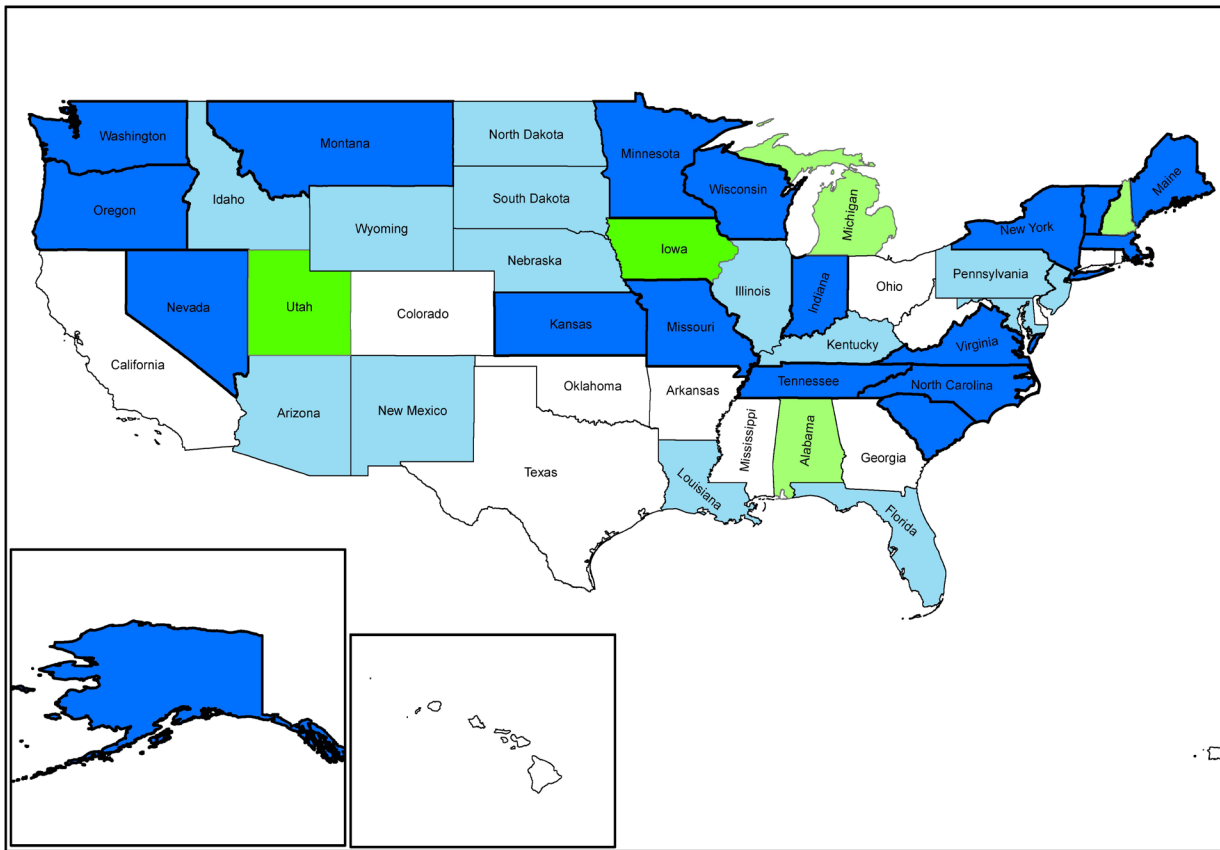
The UCLS Education Committee will evaluate all applications received and forward their written recommendations to the Executive Board on or before June 30. The Executive Board will act on the recommendations in a Board Meeting on or before July 30.

The UCLS Education Committee and the Executive Board will evaluate each applicant on:

- 1) their level of academic achievement,
- 2) their financial need as determined by the financial aid section of the application,
- 3) their employment within a company that is presently engaged in the practice of land surveying,
- 4) their letters of recommendation received, and
- 5) their statement of education and career goals.

Application may be found at <http://www.ucls.org/education-and-careers>

NSPS 100% Membership Participation



Legend

	Signed MOU
	Membership Approved
	Board Approved
	Positive Response
	Rejected
	Negative Response
	No Response

Date: 3/18/2013

Note: The process for a state society to approve the NSPS 100% Membership Participation Plan varies. Some states only need board approval, while other states need membership approval. The categories for this map reflect the current status of the state society as reported.

Chattel Mortgage

_____ mortgagor.s in consideration of
 of Salt Lake County, Utah TWO THOUSAND TWO HUNDRED SIXTY AND NO/100 - -(\$2,260.00)- DOLLARS
 to be paid by HARVESTER (S.L.) EMPLOYEES FEDERAL CREDIT UNION
 of Salt Lake County, Utah mortgagee., do hereby sell and mortgage unto said
 mortgagee... all that certain personal property situated at 3724 LeeMaur St., Granger, Ut.
 in said _____ county _____ and described as follows, to wit:

4 piece sectional sofa, brown; coffee table, round,
 mahogany (1); end table, mahogany, (1); 21" television,
 Philco Console, mahogany, Serial No. ID8541D.

Without a basis of bearing - I wonder if
 the surveyor will be able to re-establish
 this boundary?

This is a chattel mortgage to secure the payment of a promissory note of even date herewith, for
TWO THOUSAND TWO HUNDRED SIXTY AND NO/100 - -(\$2,260.00)- DOLLARS
 signed by said mortgagor.s and payable to the order of said mortgagee in install-ments ~~after date~~
 at of \$25.00 per month commencing in said January 1, 1964.
 with _____ reasonable _____ Dollars attorney's fee for collections.

Said property may remain in the possession of the mortgagor.s subject to the conditions herein
 mentioned; but we agree that we will not remove the same from the place where it now is.

If default be made in the payment of said note, or if sale or removal of said property be made
 or attempted, said mortgagee... may take possession of said property wherever found, using all
 necessary force for that purpose, and may proceed to foreclose. And is hereby fully authorized and
 empowered to sell and dispose of the same at public auction, by advertisement, according to the
 law in such case made and provided.

Should the proceeds from such sale fail to satisfy this mortgage, costs and expenses, then the
 mortgagor.s agree... to pay the deficiency.

For the purpose of obtaining the above loan, the mortgagors. represent... that they are...
 the owner.s of said property, and that the same is free from all liens and incumbrances.

Witness the hand.s of the mortgagor.s this 16th day of April, 19 63

Witness:

