January 2013



# The UCLS Newsletter



The UCLS Newsletter is published monthly by the

#### Utah Council of Land Surveyors

PO Box 1032 Salt Lake City, UT 84110

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"Cheers to a new year and another chance for us to get it right."

-Oprah Winfrey

#### What is it



Technology replaced this mechanical surveying tool with an efficient and accurate electronic devise. Can you identify this tool and described what it was used for?

The first member who responds and correctly identifies the tool may be rewarded with a free meal at their next chapter meeting. Answers may be emailed to ucls@ucls.org, uclsforesights@ucls.org or srmerrill@ucls.org. The winner will be determined by the earliest received date

and its time of response.

**In This Issue:** Become informed on the activities of your chapter and the accomplishments of the UCLS committees. Additionally, discover the latest plans for the 2013 annual conference.

What are your thoughts about a mandatory geomatics degree and surveying education in Utah? Find out the industry trends and what is currently available at the various educational institutions.

Unfortunately, three of our past members have passed away and we pay our respects as we offer condolences to their family and friends.

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. We need your contributions and suggestions. Remember, if you do not participate you have no right to complain.

On behalf of the Executive Board, officers and staff of the Utah Council of Land Surveyor's, Happy New Year, and best wishes for a successful year! An optimist stays up until midnight to see the New Year in but a pessimist stays up to make sure the old year leaves.

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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Lance Greer lgreer@wwclyde.net Russell Flint russ@flintutah.com Page 3 Volume 2 Issue 1 January 2013 The UCLS Newsletter

#### **2013 NSPS Student Competition**

to be held in conjunction with Utah Council of Land Surveyors (UCLS) February 26-28, 2013 South Town Expo Center - Sandy, Utah

<u>INTRODUCTION:</u> As was the case with recent competitions, NSPS is partnering with a larger state conference. This will allow students an opportunity to attend a conference complete with seminars, exhibits halls, networking opportunities and in a Spring Semester time frame, WFPS has graciously offered to host our national competition and we are quite excited to be able to provide you with an opportunity to visit Salt Lake City during prime ski season!

**REGISTRATION:** All teams planning to participate in the 2013 NSPS Student Competition must submit the **Registration Form (attached)** to the Competition Coordinator: <u>A. Richard Vannozzi</u> to notify NSPS for their intentions to participate in the 2013 competition. This form should be sent via email to Mr. Vannozzi at the below email address on or before February 8th, 2013. Please direct questions concerning the Competition to Mr. Vanozzi <u>at your earliest convenience.</u>

Primary Contact via email: a.r.vannozzi@unh.edu

A. Richard Vannozzi
Assistant Professor of Surveying & Mapping/Civil Technology
Thompson School of Applied Science
Cole Hall, 291 Mast Road
University of New Hampshire
Durham, NH 03824
Voice (617) 429-7036 (personal cell)

#### Part I: Surveying "Quiz Bowl" Style - Head to Head Competition. (75%)

Note: The 2014 competition will be the ALTA/ACSM Land Title Survey based competition, announced at the NSPS Board of Governors meeting in October. So, any student efforts to date will be allowed to be used in the 2014 competition. Seniors who may have been working on an ALTA/ACSL Land Title Survey project will be allowed to participate in 2014, at the discretion of their team's advisor. Furthermore, full instructions for the 2014 competition will be distributed at the 2013 competition so that teams will have a full year to work on their ALTA/ACSM projects.

- 1. The topic for the first round will be Surveying and Mapping Terminology.
- 2. The topic for the second round will be Surveying Mathematics.
- 3. The topic for the third round will be Boundary and Cadastral Surveying.
- 4. The topic for the fourth round will be Measurement Technology.

#### Part II: Promotional Presentation: (25%)

Each team will also need to prepare an original 3-5 minute multi-media (visual and sound\*) promotional video or fully automated PowerPoint presentation highlighting their program. This presentation should be suitable for high school students who may know nothing about surveying and would likely need to include information about what surveying is as well as information about your specific program.

#### **MESSAGES FROM MEMBERS**

Thanks for a great newsletter!

Arthur LeBaron, PE, PLS

Hurricane City Engineer

The flier that is being circulated for the 2013 UCLS/WFPS Convention Update appears as anything but professional. I have to admit that I got a chuckle at first glance of the cartoon surveyor picture. It appears that he is flipping someone off. At closer observation, much closer, it is a clear that is not the case. Probably has more to do with age and my poor eyesight. I am certainly not out to hurt anyone's feelings and maybe it is best left alone, but my personal opinion is that if we, as surveyors are striving for professionalism, lets exhibit professionalism on every level.

-UCLS Member

#### The Why's and the How's

By: Daniel Perry

This article is one of four in a series intended to inform you as a member of the Utah Council of Land Surveyors about the Geomatics Program at Utah Valley University (UVU). Why and how it was developed, details of the coursework, other important elements of the program, and what the program could look like in the future.

Shortly after I joined the Drafting and Design Technology faculty at UVU, Walt Cunningham gave me a ride in his little old pickup to the 2006 Utah Council of Land Surveyors (UCLS) convention in St. George and we got into a long and enjoyable conversation about surveying education in the State of Utah. We both agreed that a bachelor's degree would be a needed improvement to the current education. We also felt it was important to collaborate closely with each other to ensure a smooth transition between programs so students could take full advantage of the education and degree they already obtained at Salt Lake Community College (SLCC).

The following year at the UCLS convention I conducted, on behalf of the UCLS Education Committee, an Education Survey in an effort to learn what the surveying profession in Utah thought of a bachelor's degree in Surveying and how important a formal educa-

tion was to them. The survey also requested information about specific coursework that the program could include. Such as, what and how much mathematics, field principles and practices, geodesy, geographic information systems (GIS), measurement science, computations and adjustments, etc. The response to the survey was close to 50% of the convention attendees which was an acceptable sample size for reliability. A few interesting statics came out of that survey. 48% thought a 4-year degree should be required for surveyors today. Nearly 50% had already obtained some formal education in Surveying, and over 82% of the respondents had 8 or more years of surveying experience. UVU was tied with Utah State University and University of Utah for being a good choice for the college or university to offer such a degree. Just a note here; UVU was the only school who was or is interested in offering such a 4-year bachelor's degree program.

In addition to the UCLS survey, I performed secondary research on the surveying and mapping profession as well as

Brief Summity

82% 8+ years experience

Average age 55

Half have a Surveying education
Half want a BS degree requirement

UCLS Survey of Surveyors 2007

December by the Engineering Countries and Design Sectoration Department

detailed examination and interviews with other geomatics, surveying, and mapping degree programs from around the United States. Some of these surveying schools included Penn State, Ferris State, Oregon Institute of Technology, Florida State, and all the western states schools. All this information helped immensely in determining what kind of a program we wanted and needed to develop here at UVU.

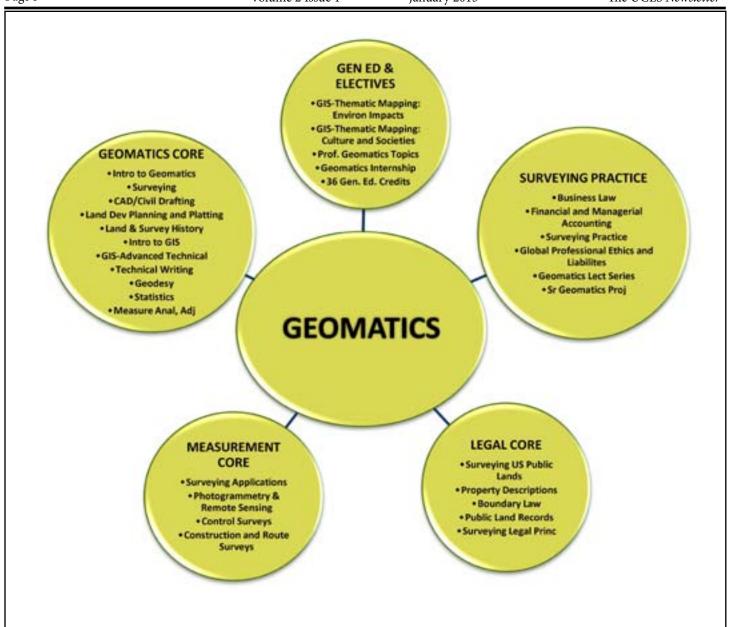
After thousands of hours of research and investigation and based on the many sources of data mentioned, the UVU Geomatics program curriculum was developed to meet or exceed the following objectives:

- 1. Graduates to be prepared to pass the National Council of Examiners for Engineering and Surveying (NCEES) National Fundamentals of Surveying (FS) exam
- 2. Conform substantially with a nationally defined "Body of Knowledge" for a licensed surveyors (which was not developed at the time nor is yet completed)
- 3. Existing four year degree programs primarily from the eleven western states (competitiveness and relevance)
- 4. Entrance into any graduate Geomatics degree program(s) in the U.S.
- 5. SLCC and the Associate of Applied Science degree course must substantially transfer to UVU
- 6. Substantially meet the courses recommended in the UCLS 2007 Education survey (previously referenced)
- 7. Be able to obtain ABET/ASAC accreditation within 5 years from program commencement
- 8. Must meet UVU curriculum standards and policies of rigor, relevance, inclusion, engaged learning, serious, etc.
- 9. Must conform to and be approved by the State of Utah Higher Education Board of Regents
- 10. Must utilize as many existing UVU courses as possible given the above constraints

The following graphic was developed to illustrate the framework developed to reach the above stated objectives. This structure is different from any other program in the United States and is intended to strengthen the body of knowledge required for a practicing Professional Land Surveyor (PLS) and meets and exceeds all the Utah Division of Occupational and Professional Licensing (DOPL) requirements as defined by statute and regulation.

The next three parts in this series will explain details of program coursework, other important elements of the program, and what the program could look like in the future.

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#### If you would like a FREE copy of

The Surveyor's Contracts and Risk Management Manual send \$5 to cover the cost of shipping and handling to NSPS, Attn: Trish Milburn, 5119 Peagasus Court, Suite Q, Frederick, MD 21704.

Please make checks payable to NSPS and in the memo field write Contracts Manual

#### **Know the Law**

Title 78B Judicial Code

Chapter 2 Statutes of Limitations Section 226 Boundary Surveys

#### 78B-2-226 Boundary Surveys

An action against a surveyor for acts, errors, or omissions in the performance of a boundary survey filed pursuant to Section 17-23-17 shall be brought within five years of the date of the filing.

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#### UTAH COUNCIL OF LAND SURVEYORS **MEMBERSHIP RENEWAL**

Return this renewal with fees to the Utah Council of Land Surveyors, P.O. Box 1032, Salt Lake City, Utah 84110

Send Mail To: Business Home (circle	e one)
Name :	Business Name:
License Number:	
Address:	City, State, Zip:
City, State, Zip:	
Phone:	
E-Mail:	
Membership being renewed:	Membership Dues \$
☐ LICENSED \$75.00	Optional: Membership Packet \$ 25.00
<ul> <li>□ ASSOCIATE \$50.00</li> <li>□ OUT-OF-STATE \$50.00</li> <li>□ RETIRED \$40.00</li> </ul>	Optional: Membership Packet on CD \$5.00
<ul> <li>□ AFFILIATE \$40.00</li> <li>□ STUDENT \$20.00</li> <li>□ SUSTAINING \$120.00</li> </ul>	Total Enclosed \$  Monies paid to U.C.L.S. may be deductible as a Business Expense
Chapter memberhsip: ☐ Book Cliffs ☐ Color Country	☐ Golden Spike ☐ Salt Lake ☐ Timpanogos
Committee Choice:  ☐ Legislation ☐ ☐ Workshop ☐ ☐ Public Relations ☐	Education

#### **Do Unto Others**

One day, Bill and Tom went to a restaurant for dinner. As soon as the waiter took out two steaks, Bill quickly picked out the bigger steak for himself.

Tom wasn't happy about that: "When are you going to learn to be polite?"

Bill: "If you had the chance to pick first, which one would you pick?"

Tom: "The smaller piece, of course."

Bill: "What are you whining about then? The smaller piece is what you want, right?"



How GIS technologies are transforming the land-surveying industry, creating new opportunities for firms ready and willing to evolve

### Takeaways

- Widespread adoption of Geographic Information Systems is forcing many surveying firms to rethink their business model.
- The evolution of GIS technologies could lead to further consolidation within the marketplace.
- New business opportunities exist for surveying firms that know how to sift and analyze data.

or more than 2,000 years, land surveying hardly changed at all. In one generation, it has changed completely.

The advent and explosive expansion of Geographic Information Systems (GIS) technology has rocked the surveying industry. With technological developments certain to accelerate in the coming years, surveyors must adapt to fast-changing market realities or risk being left behind.

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## UCLS/WFPS

In Conjunction with Prosoft, is pleased to announce the...

#### Autodesk

# Field To Finish

Kick off your UCLS/WFPS 2013 conference experience with ProSoft's Nationally Recognized Technical Expert, Shawn Herring for an informative workshop that takes you from "Field to Finish" and demonstrates the new survey functionality in AutoCAD® Civil 3D®.

Whether it's a simple plat survey or a 1,000-lot subdivision, AutoCAD® Civil 3D® offers a single solution for importing, analyzing, and managing survey data. From the field to the office and back to the field again, you can import fieldbooks, perform traverse analysis, edit survey observations, create contours, and lay out parcels and alignments - all from one application.

> Tuesday, February 26, 2013 at the South Towne Expo Center from 2:00 pm to 5:00 pm

Relax afterwards in the ProSoft/Monsen Engineering Hospitality Suite. Stop in for food, prizes and the opportunity to mix and mingle with your industry peers.



Survey Equipment Provided by





UCLS would like to welcome new members:

Ricky Snyder, Jr.

Cory Watkins

Steven Daley

David Johnson

Stewart Ward



Don't Forget National Surveyors Week is March 17-23, 2013 Page 9 Volume 2 Issue 1 January 2013 The UCLS Newsletter



Kenneth Arthur Petty 1957-2012

Kenneth Arthur Petty was taken away suddenly from our family due to a heart attack. He was the first child of Horace and LaRue M. Petty, born in SLC, Utah on January 15, 1957. He married the love of his life, Yvonne Ricks Petty in the SLC Temple on November 25, 1978. Together they had 5 beautiful children. He was an amazing, generous, loving father and grandfather, and was devoted to his wife and family. He was an amazing big brother, loved by his four sisters and a great source of strength for his loving mother. He served in the England Manchester Mission. Following his mission he attended and graduated from Snow College.

He worked hard as a project manager at McNeil Engineering for 22 years. He was a Temple worker in the Jordan River Temple. He was loved by the many friends, neighbors, and ward families for the service he gave so

willingly and his kind and gentle nature.

He is survived by his wife Yvonne, children: Jeremy (Elisabeth), Melissa (DJ) Sorensen, Bryan, Stephanie, Bradley and 4 grandkids, mother LaRue M. Petty, father Horace A. (Virginia) Petty, sisters: Mary (Allen) Mathis, Susan (Rex) Hicks, Karen (Jonathan) Zeiner, and Lisa (Deke) Taylor.

Preceded in death by his grandson Rylan.

Funeral services will be held on Saturday at 11 a.m. in the Riverton 8th Ward, 12340 So. 2700 W. Friends may call Friday evening from 6-8 p.m. at the Broomhead Funeral Home, 12600 So. 2200 W. and Saturday 1 hour prior to services at the church



Clair M. Gardner 1928-2012

Clair M. Gardner passed away on November 13, 2012. Born in Delta, Utah on June 2, 1928 to Clair F. Gardner and Rachel Moody. Clair's mother passed away when he was six years old, leaving his father to raise three young boys. His father married a wonderful lady, Alice Israelson, who became Clair's second mother. Four more children were born to this union. He had an enduring love for each of his siblings and spoke fondly of them throughout his life. Clair learned a good work ethic early, working on his father's farm and dairy. He also honed his skills on repairing anything mechanical and electrical.

In high school, he took flying lessons and earned his private pilot's license which developed into a life-long love of airplanes. During the Korean War, he enlisted in the US Army Air Corps and served for four years. His

plane was shot down, and his crew was miraculously rescued by our forces. He sustained injuries to his chest that put him in a hospital to recuperate. His stint in the service had a profound influence, and he often recalled experiences from that time in his life. After the service, he was employed by North American Aviation Co. while attending El Camino college at night. Upon his father's illness, he was called home to operate his father's dairy. On August 30, 1956, he married LaVon Barney in the Salt Lake Temple. His wife and children were his primary concern throughout his life. He served in two bishoprics as a counselor and Ward Clerk. For a number of years, he owned and operated TempGard Insulation Company. In 1978, he was elected as Salt Lake County Surveyor and upon retirement worked there part-time.

He is preceded in death by his parents and brother: Schuyler Gardner and grandson, Devin Sorensen.

He is survived by his children: Melody (Jeff) Sorensen, and Lance (Diana) Gardner. Brothers: J.R. Gardner, Royal (Tong) Gardner, Kent (Linda) Gardner, Sisters: Chloe (Dale) Langston and Carol (Paul) Morgan. Sister-in-law: Joyce (Schuyler) Gardner and three grandchildren and great grandson.

We would like to thank the wonderful care providers at Abbington Manor for their loving attention.

Funeral services will be held Saturday, December 22, 2012 at 12:00 p.m. at the Cottonwood 2nd Ward, 2080 East 5165 South, Salt Lake City, UT. Viewing will be held 10:00-11:45 a.m. prior to the services Interment at the Wasatch Lawn Cemetery, 3401 South Highland drive, Salt Lake City, U.T.



Boyd Olsen 1948-2012

Boyd Frank Olsen, age 64 passed away December 8, 2012 in Nephi, Utah.

He was born June 3, 1948 in Castledale, Utah to Frank C. and AnnaLee Nielson Olsen. He married Ilene Johnson.

Survived by his children Jennifer L. (Michael) Wagner and Eric B. Olsen; grandchildren, Mitchell, Amber, Aysha, and Abbie Wagner; mother, AnnaLee; brother, Rodger Olsen; sister, Sharon Miles.

We love you and miss you!

Private services were held.

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## UCLS / WFPS 2013 CONVENTION UPDATE



# "ARE WE TRAINING OUR SURVEYORS RIGHT OR RITE"



As mentioned previously, the UCLS/WFPS 2013 Convention is set for February 26 – 28, 2013 at the South Towne Expo Center, 9575 South State Street, Sandy, Utah kicking off promptly at noon with open registration and our first session at 1:00 pm. The UCLS online registration will be opening up in January 2013 so start planning.



I love this Country."

The convention hotel will be the <u>Country Inn&Suites</u>, <u>SLC South Towne</u> located at 10499 South Jordan Gateway, South Jordan, UT 84095, Phone 801-553-1151, Fax 801-553-1161. You may start making your reservations now, ask for the UCLS Convention Rate of \$90.00.

Currently one of our featured presentations Tuesday afternoon will be AutoDesk's Field-To-Finish presented by ProSoft with a concurrent session on Mineral Rights by Linda Smith, PLS. Tuesday evening we will be favored with a AutoDesk to help mix and mingle with announcement). This will also be a wonderful time to meet all the NSPS Student Competitors that will be taking part of the competition on Wednesday and get to know the WFPS Association as well.

Wednesday will be a busy day filled with our keynote speaker Charlie Tucker with his presentation on Rail Road Surveying while at the same time the NSPS Student Competition will be underway. Wednesday night will be our awards banquet where we will also be presenting the winners of the Student Competition and they will get to showcase their winning project.



We are pleased to have Assistant Attorney General Charles Stormont, The Office of the Property Rights



Ombudsman - Brent Bateman, Aaron R. Smith PLS, Bill Stone PLS, Jeff Hurst, Earl Morriss Esq. PLS, Arthur LeBaron PLS, Trent Williams PLS, Jake Griffiths, and UVU to name a few that will be presenting our various session on Thursday talking about property rights, water rights, surveying right (rite) in Utah and how to market yourself and/or your survey company. We are very excited to have a session on TrigStar, Surveying/Machine

Grading, as well as several other wonderful breakout sessions.

The UCLS Annual Board Meeting will be held Thursday night following all the convention fun and the



WFPS Annual Board Meeting will be held Friday for all those wanting to participate and join in. We are looking for donations as well as help with the scholarship auction from each of you and our various committees so please contact Scott Bishop or James Olschewski for your donations or to provide input.



#### **Dastardly Deed**

KNOW ALL MEN by these presents that I Dudley Prescott of Gilmanton in the county PRESCOTT of Strafford and State of New Hampshire Gentlman for and in consideration of the TO. sum of sixty dollars to me in hand before the delivery hereof well and truly ROWE paid by By Jeremiah Rowe of Gilmanton in the county of Strafford & Sate aforesid Yearman the receipt whereof I do hereby acknowledge have given granted bargained sold and by these presents do give grant bargain sell alien enfectf convey and confirm unto the said Jeremiah Rowe his heirs and assigns forever a surtaing peice of land in Gilmanton eforesaid the same being in part of the forty eaker lot Number fourty two in the third range of the second division of fourty acre lots all that part of the said lot that lias Northsley of the rod that leads from the provence rods to Jeremah Rowes Jur house where he now lives suppose the same to be about six acres be the same more or less excepting two rods left for a rode of the south side next to moses Pesley land TO have and to hold the said granted premises with all the privileges and appurtenences to the same belonging to him the said Jererimah Rowes to his heirs and assigns to their only proper use and benefit forever and I the said Dudley Freschtt for myself my heirs executors and administrators do hereby covenant grant and agree to and with the said Jeromieh Rowes his heirs and assigns that until the delivery hereof I am the lawful owner of the said premises seized and possessed thereof in my own right in fee simple and have full power and lawful authority to grant and convey the same in manner aforesaid that the premises are free and clear of all and every incumbrance whatsoever And that I my heirs executors and administrators shall and will warrent the same to him and his heirs and assigns against the lawful claims and demands of any person or persons whomsoever In witness whereof I have herounto hereunto set my hand and seal this third day of April in the year of our Lord one thousand eight hundred and two -Signed sealed and delivered in the presence of John Sweasy Horatio G Prescott Recd Paby 25th 1806 Ext by Jones C March Register

DUDIEY PRESCOTT - Seal -

Strafford Ss, The Gilmanton day of June the 14.. one thousand eight hundred and two Then the above named Dudley Prescott personal: appearing acknowledged the above written instr ment to be his voluntary act and deed before : Eben Smith Justice of the Feace

Strafford (Book 50 page 326)



#### "Where is it"

Greg Hansen was the first member who correctly identified the location of the no trespassing sign featured in the December Newsletter. This sign is located on the north end of 1100 West at 21st Street in Ogden Utah.

# **UCLS Convention February 26-28, 2013**

South Towne Expo Center, Sandy, Utah

## **Registration Form**

Please type or print and fill out completely

	MCL	Q
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You may register online or mail registration form to: UGLS, P.O. Box 1032, Salt Lake Gty, UT 84110 For more information or to register online: www.ucls.org Fax/Phone: (201) 964-6192

Name:		Name for Nametag						
Company:_	0							
Mailing Ad	ldress:							
Gty:		_State/Lip:						
Phone: (	)	Fax: ( )						
License Nu	mber:		E-Mail:					
		h	icluded with registration fees:					
	• All sessions		urs • Handouts & complimentary it fasts • Opportunity to socialize with			ibitors		
UCLS	AVEPS Mom		3 THE RESERVE OF THE PROPERTY OF THE PARTY O	pers • par	iquet			
UCLS/WFPS Member Conference Registration Fees Member Registration Full Conference			\$375.00	S				
	Wednesday a		100000	\$300.00	S			
Thursday only				\$225.00	s			
Non-M	lember Conf	erence Registration	on Fees		1000			
Non-member Registrations Full Conference			\$500.00	S				
Wednesday and Thursday only			\$400.00					
Thursday only				\$300.00		10		
Student Registration Full Conference (must provide student ID)			\$100.00	S				
NSPS Competition Team (Students & Advisor)			\$250.00	S				
	Optional Ac	tivities						
Extra Banquet Ticket (per person)			\$30.00	S				
	Surcharge fo	or Late Registrati	ion					
	(after Februa	ary 18, 2013)		\$25.00	\$			
Grand	d Total				\$			
☐ Chee	ek bere if you require	special service (please descr	ibe your reeds in writing on a separate d	eet of paper an	d onclose it with	your registration)		
Regist	ration Deadl	ine: February 🕝	5 ST 25 ST 12 TO 1					
18, 201	2013, 10:00 p.m. (MT)			ent Informati	on			
	nts will not be guaranteed		☐ Check Enclosed ☐ MasterCard	□ Visa □	Niscover 🗆	American Express		
No ref	unds will be	given after	Card Number					
Febru:	ary 18, 2013.		Expiration Date					
		check or credit card nake checks payable	Security (ode					
	and send to the ac		Signature					