

Spring 2012

Volume 3 Number 2

# MALSCE SURVEYOR

*MALSCE Surveyor is a Publication of the Massachusetts Association of Land Surveyors and Civil Engineers*

## Look Inside for :

- Legal and regulatory matters impacting the Land Surveying and Civil Engineering professions
- How the Land Surveying profession is being altered by economic conditions and technological advances
- News briefs on local and national occurrences of interest to surveyors and engineers
- Information about MALSCE programs and activities

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MALSCE, The Engineering Center  
One Walnut Street, Boston, MA 02108

## Land Surveyors Rendezvous 2012

By Donald Poole, PLS, Outermost Land

March 18, 2012 was the start of National Surveyors Week 2012 and the gathering of Surveyors at the Boston Common. MALSCE sponsored a Surveyors Rendezvous at the Boston Common to raise public awareness of the Profession and to bring land surveyors together in an informal setting for some chat, tall stories, and surveyor games! It also happened to be a beautiful day with the sky clear and temperatures in the 70's!

MALSCE President David Humphrey was on hand all day and manned the "Educational Table" which was covered with texts and tools of the trade. Also

included on the table were various compasses that individuals could use to "run a traverse". A small three sided traverse was set up by volunteer Russ Holden (Ryder and Wilcox, Orleans) and Priscilla Moore both Associate Members that helped throughout the day. Russ and Priscilla also laid out a 100' "calibration" course so that all could calibrate their pace before running the traverse! I found that my pace went from 35 to 36 per hundred



*We were allowed to use the Parkman Bandstand and surrounding lawn. This year we only used two sections of the lawn area, but next year, who knows!?*

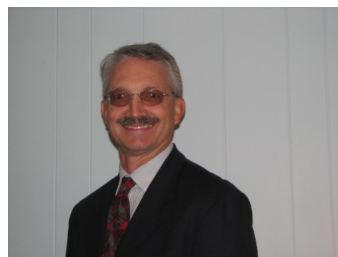
feet. Must be an age thing!

Two members of the Board of

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## MALSCE President's Update: Moving Forward

By David Humphrey, PLS, 2010-2012 MALSCE President



**Budget Talks** – We are in the process of hammering out a budget for FY2013 which starts on July 1. The Great Recession has hit MALSCE very hard with a significant drop in membership and a reduction in active volunteers. However, with bipartisan support, our austerity

package will position MALSCE for the Great Expansion. We may temporarily see a reduction in staff support from TEC so please be patient. In order to balance the budget, we were forced to raise membership dues by a modest \$5. I know it is hard to deal with any price increases these days but I hope everyone will understand that our costs have gone up and realize we have not raised dues in at least four years.

**100% NSPS Membership** – One idea that has re-surfaced following the NSPS/ACSM reorganization is the concept of

all members of a state surveying society automatically becoming members of the nations organization; NSPS (National Society of Professional Surveyors). Only two states chose to embrace the idea when it was circulated several years ago. Now, NSPS is looking at offering group membership for something on the order of \$40 to \$50 per member. The recent LightSquared controversy has focused attention on representation at the national level. Without a strong voice in Washington, the outcome could

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## MALSCE President's Report

*Continued from Page 1*

have been different and GPS surveying could have been adversely impacted. There are a number of issues involved with such a collaboration and all MALSCE members are encouraged to voice their opinions on this topic. We will be running an on-line survey to collect ideas and suggestions on this topic.

**Member Surveys** – In addition to the survey mentioned above, we hope to run a number of member surveys on-line and through the MALSCE website. Topics may include a polling of employee benefits and pay rates, MassDOT contracting participation, types of equipment, vehicles, and software used, etc. Look for a survey in an inbox near you and enter to win a gift card raffle.

**CEU's Committee** – Reliable sources tell me that the Board of Registration will soon be holding subcommittee meetings to discuss the idea of continuing education for

PLS and PE registrants in Massachusetts. We are currently one of only nine states that do not require some form of professional development credits. Ken Anderson, PLS, will be representing MALSCE on this important committee.

**250 CMR Rewrite** – The Board of Registration has completed a yeoman's effort and completely rewritten 250 CMR. The current version is being digested by the required state bureaucracy and we hope to see a version released for public comment before Thanksgiving.

**NESS** – The North East Surveying Societies group will start their next round of meetings at the Vermont conference in September. MALSCE needs two active members to represent us at this regional organization's meetings. Any takers?

**FEMA Website Down** – The FEMA

website was down for several days and did not even offer an explanation, just a "failed to connect". That's right, the Federal Emergency Management Agency did not plan ahead when they physically moved their offices and servers to a new location and had to shut down the website. I usually don't join in government bashing but this one is just easy pickings. If they can't plan for a known event, how can they plan for the unknown?

**ESRI Special Offer** – ESRI made a very generous offer to MALSCE (and the other state societies). In exchange for some advertising opportunities, they gave us two free registrations to the ACSM Annual Conference Survey Summit, July 21–24, 2012 in San Diego. Rich Gosselin and Ken Strom will be representing MALSCE at this national surveying and GIS event.

## REGISTER TODAY!

***"Everything you always wanted to know about  
geodesy but were afraid to ask"***

or

## **Practical Geodesy for Surveyors**

The objective of this seminar is to provide attendees with foundational knowledge in the area of geodesy accessible for application to their daily practice.

**Friday, June 22, 2012**

New England Water Works Association  
125 Hopping Brook Road, Holliston, MA 01746

[Click Here](#)  
for more information or to register online

## Surveyors Rendezvous 2012

*Continued from Page 1*



*David Humphrey and Scott Cameron*

Registration, Scott Cameron and Paul Tyrell, came by for a visit. They stuck around for a good part of the day and talked with surveyors about various issues that are important to the Profession.

Wayne Harrison, immediate NSPS past president, was present as was New Jersey past president Steve Mazurek and his daughter.

Azu Etoniru saved the morning by arriving with a 'box-o-joe' and donuts, just in time to prevent starvation! The coffee drinkers were happy for his arrival! President Humphrey provided a selection of deli meats, cheeses and rolls for lunch along with sodas and chips. Everyone had the opportunity to be well fed and 'watered'!

Other land surveyors that attended were Ken Strom, Thadd Eldredge, Rich Gosselin, and Chris Pera.



*Setting up the K & E transit, with a stiff legged tripod! I can still do it!*

Each assisted in demonstrating the use of the available equipment and talking with folks that stopped by the display.

On hand, for equipment, was a K & E Paragon transit, a Leica TCR 1105 total station, and Sokkia GPS units. This allowed for a hands on demonstration of equipment illustrating the history and development of land surveying tools. The Outermost Land Survey, Inc. van was displayed complete with everything necessary to go to work.

The event started at 10:00 AM and concluded at 4:00 PM (more or less).

Many people stopped by the display and chatted with various surveyors. One student from MIT stuck around for hours and with Russ's help ran the total station around the small traverse. We used this data as a check on the compass/pacing traversing.

I did not keep track of the closures for the traverse. Each individual was able to compare their results with the "true" data without fear of incrimination.

I feel that the event was a success, in spite of the Saint Patrick's Day parade scheduled for that afternoon. The gorgeous weather certainly made the Common a very busy place!

Special thanks go out to Rich Keenan from TEC for his support before, during and after the Rendezvous. Also to Abbie Goodman who brought her mother to meet the Surveyors.

Next year the Rendezvous will be on March 17th, at the Common.



*MALSCÉ Educational Table containing texts and tools of the trade*



*The MALSCÉ Information Table*



*Even the mounted police joined us!*

## 2012 MALSCE Convention

By Rich Gosselin, MALSCE Vice President and 2012 Convention Co-Chair

*Hello from the MALSCE Convention Committee,*

The Eastern Chapter of MALSCE will be holding our annual convention on September 21, 2012 at the Holiday Inn in Mansfield, Massachusetts. As usual for our annual convention, we are inviting exhibitors and advertisers to join us on Friday; however, we are changing the traditional format of the convention. The convention will be held one day only and will consist of one main track and one secondary track. The secondary track will last for the first half of the day only. Subjects covered will include 3d modeling, machine control, 3d mobile mapping, GPS handhelds for surveyors, how to price your services, and how to get your price! We will be hosting a couple of national speakers for this event.

New to this year's convention will be a "year in review" booklet. This booklet will be available only to attendees of the conference. We are confident that this "year in review" booklet will be a sought-after reference by all. It will contain information on past surveyors records, locations of old railroad records, what is happening on Beacon Hill relating to surveying, the renovated Engineering Center, MALSCE president review, and ACSM/NSPS marriage. In addition it will contain white papers written about what is new with the national broad band mapping initiative, MassGIS, Lidar, MHD, subsurface utility engineering, FEMA, NOAA, and ESRI. It will also include white papers on the latest advances in surveying instruments (total stations, GPS, etc.), and where the future is heading for these tools.

We will be reinstating the vendor bingo cards. If you visit and collect all vendors' stamps you will be put into a pool with the winning ticket to

be drawn at the Friday dinner meeting. You need to be present at the dinner meeting to win the prize. In addition, we are looking to end the day in style by having a state politician as the keynote speaker for Friday night's dinner. All this is tailored to making this a one day, not to miss event.

The Convention committee is asking for your help. We are bringing back the business card advertisement option for members. A business card is a 1/10 of a page size ad. For only \$25 you can show your support and receive the recognition of your peers. Your card will be part of the "year in review" booklet! We are also looking for sponsors to help defray meal costs. For a commitment of \$50 for a continental breakfast and breaks or \$100 for lunch/dinner your company name will be proudly displayed at the tables. Please consider these options to help support our convention. Your

financial support will be greatly appreciated.

We are very excited about this convention and we hope that you will be as well. Keeping with tradition, we will conduct an auction to raise money for the MALSCE Education Trust. Every year the Education Trust awards scholarships to deserving students. We hope that you will consider donating an item to this very worthy cause.

Please, put the date on your calendar, plan to spend all day with your fellow professionals, and start thinking about your support options. We know your time is valuable so we have condensed all our activities into one day. Feel free to email Rich Gosselin with any questions or suggestions for other ways we can enhance your convention experience at [richard.gosselin2@verizon.net](mailto:richard.gosselin2@verizon.net).

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*Look for emails  
with the latest news  
about the 2012  
MALSCE  
Convention that is  
being held on  
Friday, September  
21, 2012 at the  
Holiday Inn  
Mansfield/  
Foxborough*

## Advertise in the 2012 MALSCE Convention "Year in Review" Booklet!

All 2012 MALSCE Convention attendees will receive a "year in review" booklet, containing convention details and white papers. Exhibitors and companies can enhance their exposure by placing an advertisement in this reference guide that will be seen for the entire year!

With prices starting at just \$25 you can show your support and get recognition from your peers.

[Download more information here.](#)

Advertisements must be received by July 15, 2012.



## The Surveyor as an Expert Witness

By Knud E. Hermansen, PLS, PE, PhD, Esq., University of Maine

A surveyor is often involved in litigation in the capacity of an expert witness. In the capacity of an expert witness, the surveyor performs three functions. First, the surveyor identifies, introduces, and authenticates documents and other information relevant to the disputed boundary. Second, the surveyor explains the relevancy of certain information and how the information is used to fix the position of the boundary. Third, the surveyor gives a conclusion — an ultimate opinion on the location of boundaries and other related matters. If the surveyor performs the first two functions with competence, the surveyor will establish their credibility with the court. A surveyor that appears credible will have their opinion accepted and relied upon by the judge or jury without necessarily a clear understanding or comprehension of the underlying facts and basis for the surveyor's opinion.

The client is well served by the attorney that spends some time evaluating the surveyor in their role as an expert. There are several facets of a surveyor and the services performed by the surveyor that the attorney should examine.

*There are numerous surveyors who are competent and respected practitioners, yet do not portray confidence and sagacity in stressful situations.*

One facet to be examined is the surveyor's ability to handle stress. Some surveyors do not make good experts because of their inability to handle stress. There are numerous surveyors who are competent and respected practitioners, yet do not portray confidence and sagacity in stressful situations. The terror of sitting in the witness chair coupled with the seemingly hostile attention

of the attorney and judge often leave these surveyors struggling for simple thoughts, stumbling over words, grasping for answers, spitting out nonsensical responses, shaking uncontrollably, and sweating profusely. Many are the attorneys who left a courthouse convinced not only that the surveyor had botched the survey and testimony but must have committed all the unsolved crimes in the area given their demeanor on the stand. Given the technical nature of surveying and the difficulty in explaining technical testimony, a good demeanor is an important factor to cultivate. In complex and technical testimony such as required for boundary litigation, it is not uncommon for an incompetent surveyor to be judged a more credible witness because of their superior and calm demeanor rather than the content of their testimony.

*The root of many deficiencies in professional services can be traced to cost conscious clients coupled with surveyors willing to restrict their services based on a price the client is willing to pay.*

An evaluation of the scope and depth of the surveyor's work should also be performed by the attorney. The root of many deficiencies in professional services can be traced to cost conscious clients coupled with surveyors willing to restrict their services based on a price the client is willing to pay. The purpose stated for the services also plays a role in the quality of the surveying service provided. The mortgage loan inspection used to obtain financing is a markedly different service than the boundary retracement survey used to prepare a description or erect improvements. In this regard

surveyors are no different than attorneys. What attorney could honestly admit that they provide the same level of estate planning to the blue-collar worker with \$5,000 life savings as compared to the billionaire? What attorney spends the same time on a deed for a \$100,000 house as they spend on preparing a complaint starting a \$1,000,000 lawsuit? The point is that a survey performed for a timber harvest may not be sufficient to base an opinion on regarding a \$60,000 encroachment lawsuit that occurs many years later.

Also to be discovered by the attorney are surveyors who have arrived at an opinion without complete information or information that is not reliable, credible, or cannot be offered into evidence. An opinion formed without gathering or looking at all relevant information is usually determined to be untrustworthy and susceptible to impeachment. This situation is cause for the surprise of many experienced attorneys when they realize that the surveyor did not perform a complete search or limited the measurements to certain corner monuments that were convenient and failed to use others monuments more credible but less convenient.

For the surveyor to have had all the information but use it improperly is no less embarrassing for the attorney attempting to build a case on the testimony of the surveyor. There are numerous cases where the surveyor has testified at some length to the care and accuracy of their research and measurements only to admit they began their services at an unverified point indicated to the surveyor by the client. Equally problematic are the situations where the surveyor has

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## The Surveyor as an Expert Witness

*Continued from Page 5*

relied entirely upon private records that clearly contradict the valid deeds recorded in the public records. In a few cases, surveyors have relied on procedures or priorities that do not conform to the rules of construction or priority of control established by the courts.

These problems oftentimes arise by oversight or mistake made by other less competent surveyors. In a few cases, the surveyor is simply not competent. Few attorneys are aware that licensing surveyors is a relatively recent event in many states and certainly was not foolproof in insuring competence of the individual before licensure. There are numerous surveyors practicing that have never had to take a test or prove their competency in order to obtain their surveyor's license. When licensing of surveyors began, persons that applied and could show sufficient experience or education were given a license to survey without testing or further verification of qualifications.

Before continuing, it must be stressed that not all surveyors who were licensed without examination or other proof of competency are incompetent surveyors. On the contrary, some of the finest surveyors practicing were licensed in this manner.

*While there are many examples to the contrary, the presumption will always be that the more education a person has, the more knowledgeable they will be.*

There is also wide diversity in surveyor qualifications. These qualifications must also be examined and evaluated for the impact the qualifications may have upon the perceived credibility of the surveyor. While there are many examples to the contrary, the

presumption will always be that the more education a person has, the more knowledgeable they will be. There are no mandated formal education standards for surveyors in many states. Experience prior to licensing also varies. Some surveyors have no college education while a few have a Ph.D. Between the two extremes are numerous surveyors with two, four-year, and various graduate degrees. Among surveyors with a college education there is a wide variety of degrees ranging from fine arts to engineering.

Compliance with mandatory standards should not be overlooked in analyzing the surveyor's services. In many states, surveyors have had to perform according to mandated standards or expressly except all or parts of those standards by agreement with the client. Some surveyors have ignored the standards. Other surveyors have misinterpreted the standards. A few have not understood the standards. Several surveyors were unaware standards existed for many years. Some surveyors have ignored or excepted certain parts of the standards that could prove critical in formulating a correct opinion or communicating a credible opinion.

In defense of the surveyors who have not studiously adhered to the standards or taken exception to certain parts, adherence to all parts of the standards is to substantially increase the cost of surveying services without necessarily affecting the accuracy of the surveyor's opinion. For example, the preparation of a complete report alone will often add hundreds of dollars to a typical retracement survey yet may have no effect on the location of the boundaries that were re-established.

The attorney must not only check that the surveyor is competent but must sometimes check those

persons that the surveyor relied upon are also competent. Few surveyors do all the work required for a boundary retracement, instead relying on employees to do some or most of the mundane technical aspects of the work. In this regard, surveyors and lawyers share a common weakness as more and more work is delegated to non-professional employees within a firm. Untrained or minimally trained personnel often overlook important information or fail to catch and correct omissions. Compounding the problem is the large number of personnel and projects supervised by some surveyors. As the workload increases for the licensed individual, review and checks becomes cursory or omitted on many projects. Proper supervision declines. Important pieces of information are undiscovered or the significance overlooked. The result is that in some cases the surveyor whose seal and signature appear on the plan had little to do with the services that the plan represents. As a consequence, the surveyor cannot always say why information was omitted or mistakes not detected.

Finally, the mindset of the surveyor should be explored. The attitude or mindset of a surveyor often has a major impact on the quality of the surveying services and the credibility of the surveyor as an expert. The attitude or mindset refers to what the surveyor understands a surveyor's responsibility to the client should be and the ethical limitations of professional practice. For example, there are a few surveyors that look upon themselves as technicians. (E.g., "You tell me where to put the corner and I'll make the measurements between the corner locations you selected.") At the other end are a few surveyors who believe they have the power and

*Continued on Page 8*

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## The Surveyor as an Expert Witness

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right to determine all matters pertaining to boundaries including title issues. These surveyors feel qualified and authorized to determine boundaries based on acquiescence, estoppel, adverse possession, and other equitable doctrines. (E.g., “The stone wall has been there for 20 years so your boundary is now the wall despite what your records say.”)

*It is not unusual for the extent of the dispute to exceed the ability of evidence to support the claim.*

In discussing the surveyor and survey services, it would not be fair for the surveyor’s competency as an expert to ride entirely upon the surveyor’s ability, background, and care. More times than good conscience should allow, attorneys have encouraged litigation to begin or continue where the costs of litigation far exceed the value of the area disputed. Similarly, attorneys will attempt to build “castles on sand.” For example, it is not unusual for the extent of the dispute to exceed the ability of evidence to support the claim. Such would be the case where two neighbors are arguing over half a foot (the location of the old oak tree) when the nearest monuments that can be used are the center of a road and a four foot wide rock wall several hundred feet away. In other cases, the technical complexity or reliability of the evidence exceeds any reasonable ability for the typical jurist or jury to understand. The fact is that a vast majority of boundary disputes should and could be handled through mediation by a knowledgeable mediator or presented before a real estate attorney or surveyor acting in the capacity as an arbitrator.

In some boundary disputes that go to litigation, adequate preparation

and investigation by the attorney is often lacking. Many surveyors share the experience where they receive a call from an attorney seeking services as an expert a short time before trial. There are also numerous times when the client’s attorney has never attempted to speak to the surveyor until shortly before trial or, in some cases, the day of trial. Also of some frequency are situations where a boundary dispute goes to trial where each side is equally burdened by incompetence be it the surveyor or attorney. Many decisions by courts are based on the lesser of two evils rather than a clear presentation and analysis of the evidence by the so-called experts and attorneys employed by each side.

*The attorney should make a great effort to prepare an expert on how to communicate their opinion.*

A common problem that frequently arises for the surveyor who is sought as an expert is the attorney who seeks a “hired gun” or advocate for the client’s position. Ethically, a surveyor is obligated to perform an unbiased analysis to arrive at an opinion on the location of the boundary by a fair and reasonable interpretation of the operative conveyances guided if need be by a proper application of the rules of construction as established by appellate court decisions. Consequently, the surveyor’s responsibility in retracing a boundary should be independent of the client’s needs, wishes, or best interests. The attorney should not influence an expert witness in formulating an opinion (i.e., what to say). The attorney may and should, however, make a great effort to prepare an expert on how to communicate their opinion. This is an important distinction lost among some attorneys. If the surveyor has

been allowed to arrive at an unbiased opinion on the location of a boundary, the surveyor is cautioned that a diligent effort is expected from the surveyor to defend that position — to become an advocate for their opinion.

*A court appointed surveyor should be considered in all boundary litigation cases.*

In closing a discussion about employing surveyors in litigation, one option that is often ignored by attorneys is to seek the appointment of a surveyor through the court to locate disputed boundaries – a court appointed surveyor. This option will be discussed in a future article.

In closing, it is my experience that most surveyors would rather earn a fee in some other manner than as an expert witness. While successfully educating the judge or jury can be a rewarding experience, the process is often fraught with stress and difficulties. Explaining a complex and technical analysis within a limited time frame is difficult enough. However, within the confines of a courtroom, the explanation must be done with frequent interruptions brought about by objections, trick questions, poorly worded questions, and under the ministrations of at least one hostile attorney who is trying very hard to make the surveyor or the surveyor’s testimony appear faulty, biased, incomplete, and irrelevant.

Nevertheless, the role of a surveyor as an expert is an important one that must be approached with a motivation to educate, a willingness to communicate effectively, and an acceptance of the difficulty that attenuates the process of giving testimony in litigation.



## Insights into the Legal Aspects of the Land Surveying Profession

By David Humphrey, PLS, MALSCCE President

Reviewing pertinent case law can yield useful insights into the legal aspects of the land surveying profession in Massachusetts. For example, I discovered the following terms were referenced in the case of CAMPBELL vs. CAPE & ISLANDS HEALTHCARE SERVICES.

### Regulations

"It is well established that "[a] violation of a statute, ordinance or regulation, although not conclusive, is evidence of negligence on the part of a violator as to all consequences that the statute, ordinance or regulation was intended to prevent." Follansbee v. Ohse, 293 Mass. 48, 52 (1935), quoting from Guinan v. Famous Players-Lasky Corp., 267 Mass. 501, 516 (1929). In Massachusetts, "it is entirely proper to offer in evidence . . . [an official regulation] to show the relevant standard of care." Herson v. New Boston Garden Corp., 40 Mass. App. Ct. 779, 793 (1996)." [Quoted from CAMPBELL vs. CAPE & ISLANDS HEALTHCARE SERVICES,

Docket 10-P-2017, February 7, 2012]

### Expert Witness

The trial judge, as gatekeeper, should make a clear ruling on the record outside the presence of the jury whether the expert is qualified in accordance with sections 104(a) and 702 of the Massachusetts Guide to Evidence (2011 ed.). If the judge rules that the witness is qualified to provide opinion testimony, counsel may argue that the jury can consider the knowledge, training, and experience of the expert in deciding how much weight to give his testimony. The judge's instructions should follow the language of § 4.10 of the Massachusetts Superior Court Civil Practice Jury Instructions (Mass. Cont. Legal Educ. 2d ed. 2008). See Antonellis v. Leibovich, 410 Mass. 568, 571-572 & n.5 (1991). [Quoted from CAMPBELL vs. CAPE & ISLANDS HEALTHCARE SERVICES, Docket 10-P-2017, February 7, 2012]

**Submit Your Plan Today!**

**2012 MALSCCE Plan Contest**

All awards will be presented at the 2012 MALSCCE Convention Awards Luncheon on Friday, September 21, 2012.

*For more info check out the entry form on page 18.*

## MALSCCE to Update Directory of Surveyors' Records in Eastern Massachusetts

By Mike Clifford, PLS, DGT Survey Group

The Directory of Retired or Deceased Land Surveyors Records was originally compiled in 1982 by the Eastern Massachusetts Association of Land Surveyors (EMALS), precursor to the MALSCCE Eastern Mass Chapter. The directory has not been updated since the original publication, and we would venture to say there are probably many members who are unaware of its existence. In 2009 an informal inquiry was conducted into the potential reception of an updated directory and received positive feedback.

As we all know from our practice, archival/historical surveyors' records can be invaluable in performing a proper retracement survey. To this end, an ad-hoc committee led by Mike Clifford (DGT Survey Group) and Wayne Jalbert (Hancock Associates) is working towards the publication of an updated directory to coincide with the 2012 MALSCCE Annual Convention in September. (It is noted that while the committee sees the statewide need for such a directory, it feels that this work is best done on a chapter-by-chapter basis. It is hoped that other

MALSCCE chapters can use the Eastern Mass directory as a guide in their own similar endeavors) The committee asks that all Surveyors participate in this endeavor by submitting to the committee their knowledge of the whereabouts of various records.

If anyone has any questions or information in this regard please feel free to contact Mike Clifford at [mclifford@dgtsurvey.com](mailto:mclifford@dgtsurvey.com), or Wayne Jalbert at [wjalbert@hancockassociates.com](mailto:wjalbert@hancockassociates.com).

## MALSCE Members Gather at State House for Design Professionals Day

By Abbie Goodman, MALSCE External Affairs Director

On Tuesday, May 8, 2012, MALSCE members, along with ACEC/MA and BSCES members, once again gathered at the Massachusetts State House for our Annual Design Professionals Day along with leaders from other engineering and design related associations. We scheduled meetings with our members' Massachusetts State Representatives and State Senators based on where our members live and vote. MALSCE members, including **David Humphrey, PLS**, **Peter Lothian, PLS**, **Paul Tyrell, PE, PLS**, **Sean Ewald, PLS** and others discussed several key issues with their legislators. To learn more about these issues download the fact sheets that are [Posted Here](#).

Here are brief summaries of the issues we discussed:

### Massachusetts Transportation Infrastructure

The Commonwealth's surface transportation network – highways, bridges, railroads, subways and buses – provides our citizens mobility options for moving goods and people. Just as we know that investment in transportation can pave the way to prosperity, underinvestment can endanger that prosperity. MassDOT has implemented cost-saving measures while investing into the repair of roads, bridges and transit systems. However this reform and cost-savings is not enough to close the gap in the identified needs of the state's transportation network. Not investing properly in infrastructure now will cost us even more in the future, and will result in loss of economic competitiveness for the Commonwealth and its citizens.

#### Actions Requested:

- Pass SB 2220, the transportation bond bill that includes the state's portion of funding for federal aid projects, transit projects and the Chapter 90 Program. Pass the measures

*needed to fill the \$60 million gap in the MBTA's FY2013 budget, with help for the Regional Transit Authorities so that the MBTA doesn't need to make severe service cuts on July 1. Adequately fund Infrastructure Investment in the state budget, including the agencies that oversee and permit projects, to create/retain jobs, and prevent catastrophic failures that could cause loss of life and significantly damage the environment and property.*

### Massachusetts Water Infrastructure

Many Massachusetts communities have water and sewer systems that are well over 100-years old which need rehabilitation and/or replacement. Old leaking water pipes drive up treatment costs and increase the risk of breaks. Old leaking sewer pipes allow groundwater infiltration, driving up wastewater treatment costs and negatively impacting groundwater levels. Many local water/wastewater treatment plants were built in the 1970s (with federal funding) and now require significant upgrades that will cost millions of dollars. While ARRA funds were available for water and wastewater infrastructure projects through increases in the State Revolving Fund (SRF) over the past two years, these funds did not cover all the work that is needed. In addition, the US EPA Phase II Stormwater program requires many municipalities to develop stormwater discharge plans, costing millions of dollars statewide.

#### Actions Requested:

- Review the recommendations of the Water Infrastructure Finance Commission (WIFC) released on May 9, [View Here](#).
- Support the continued work of the Commission by funding an asset-based analysis of the gap

*between projected needs and*



From Left: Mary Hall (ACEC/MA President), Ko Ishikura (ACEC/MA President-Elect), State Representative Alice Peisch, Peter Richardson (BSCES President-Elect), David Humphrey (MALSCE President) at Design Professionals Day at the State House

*revenue.*

- Support consumer education about the true costs and value of our water infrastructure.

### Fixing the Dam Problem in Massachusetts

In Massachusetts, about 1,680 of the 2,900 existing dams pose some level of risk to people and/or property. More than 56% of the dams are privately owned; individual dam owners are responsible for inspecting and maintaining their own dams. Many dam owners (public and private) lack the funds to perform evaluations, let alone the funds to pay for repairs/rehabilitation. While some owners have resources, they lack the incentive to do evaluations and repairs as the penalty for not complying with dam safety regulations is relatively minor compared to the cost of repairs. Current environmental regulations make it extremely difficult to

[Continued on Page 14](#)

## MALSCCE Treasurer's Report

By Mary Ellen Streeter, MALSCCE Treasurer

*Want to help plan MALSCCE's educational program offerings? Join your colleagues who serve on the MALSCCE Professional Development Committee. For more information about this important group contact MALSCCE President Dave Humphrey*

We're at that time of the year again - all three dues notices have gone out and chapter presidents have made their phone calls. We can assume that most, if not all, of the dues money that is going to come in for FY2012 is in. With that being said, at the end of March MALSCCE had a YTD positive net income of \$11,979.19 with three months to go in the fiscal year. This means our minimum expense for the remainder of the fiscal year, that is three months of our TEC Administration Fee, will be \$21,225.00, or over \$9,000 more than the net income YTD.

We have collected only 86% of our projected dues. Our membership has fallen about 10% per year since

2008, and it looks like a 15% drop this year.

Our convention did well despite the low attendance, due to much hard work by chairman Thadd Eldredge. While making almost \$2,000 less than budgeted, the expenses were almost \$7,000.00 less than budgeted netting us about \$12,000.00.

That leaves us with Seminars as the only other major source of income. Despite the hard work of the PD Committee, the slow economy has really taken its toll here. As of March 31, 2012, seminars have netted \$3,871 of the \$14,400 budgeted. Part of this is due to the usual slow start we experience due

to the convention being in the fall. At least two more seminars are in the works for this fiscal year.

The MALSCCE Professional Development Committee could use some more help. Unlike the Convention Committee, which changes each year, these people have been working on the seminars all year every year for a long time. Volunteer to work on just one seminar per year. I promise the "MALSCCE police" will not be banging on your door demanding more. If six people volunteered to work on one seminar per year, it would be a great help to those who have been doing it all for so many years. Remember, they have jobs and families too!

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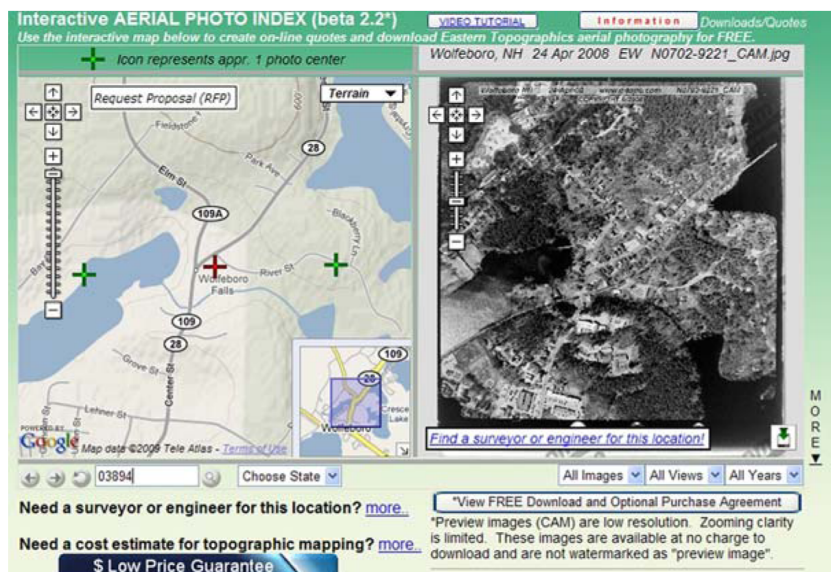
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## The Cullinan Auction: A Very Sad Day for Land Surveying in Massachusetts

By David Humphrey, PLS, MALSCE President



It was a very sad day; and it was a sad day named "Cullinan". I guess it was a whole string of bad and sad days, especially for those laid off employees, which culminated in the auction of the remaining Cullinan assets. Fox News would say; "one of the premier companies on the surveying scene in Massachusetts succumbs to the desperate economic conditions in a total and dramatic implosion." I would say, "We have lost another one of the solid, reliable surveying companies in the Commonwealth." I have known Cullinan for years and have great respect for the work they produced. They put in the effort and they produced reliable surveys.

Although they were a fairly large surveying and engineering company, some people may not know of them. The Cullinan website (which is still active) shows that they were established in 1940; offered land surveying, civil engineering, and transportation design; employed 50 people; and had three offices; Cambridge, Lakeville, and the headquarters in Auburn. Some of MALSCE's best known members were from Cullinan including Wayne Harrison who has recently completed a term as president of NSPS, the national surveyors' association.

But this economic down turn, the "Great Recession", has had a profound negative impact on surveying companies. The severe decline in the housing market and the almost total collapse of private

funding for projects of any sort has taken its toll on every surveying company in the state. And probably the most difficult aspect of this recession is that it just won't quit. It has lasted for several years and does not show any signs of a quick recovery. Cullinan was unable to withstand the economic assault and filed for Chapter 7 bankruptcy on June 27, 2011. Assets were listed at about \$22,000 with over \$1.3 million in liabilities.

The auction itself took place on a sunny Tuesday, October 25 at the Cullinan main office in Auburn. It was a combination of deep disappointment and eye opening



amazement. The auction was disappointing because many of the winning bids were from a few "professional auctioneers" who know how to play the auction game. They know you have to bring a bank certified check. They know you have 24 hours to remove *everything* you purchase from the premises. They know you have to do your homework and know how much money you can make on the re-sale of individual items. They know how to quickly appraise a room full of stuff. And they know how to bid on a whole room full of stuff. Many times, all the furnishings in an office or a room sold for from \$100 to \$200. If you wanted just one item in that room, you had to decide how much you would pay for all of the stuff and then figure out how you would sell

or otherwise get rid of the rest of the stuff. And you had to do it fast! With almost 300 "lots" to be auctioned, they didn't waste any time.

Probably the biggest disappointment was in the equipment room. Cullinan apparently liked Topcon total stations because there were more than a dozen of those yellow instruments lined up on the shelves. I think many surveyors attending the auction were hoping to buy one of those guns either as a back up or as insurance in case they got laid off from their current job. But one of the "professional" auctioneers "Batch bid" for the entire room for \$6,000. Then, the auctioneer bid each item separately and added them up. In the end, the individual pieces did not add up to the batch bid so the many small bidders all lost. The batch bidder won over a dozen total stations, over a dozen levels, several data collectors, target sets, carry cases and much more, all for \$6,000.

And the most amazing event was that you could have purchased essentially the entire company, Cullinan Engineering, for less than \$10,000. The first two items auctioned were not even listed on the manifest. The very first item auctioned was the Cullinan corporate name, the telephone number, and the website. It happened very quickly: "what do I

[Continued on Page 14](#)





## The Big Squeeze

By Jack Hammer, PLS, Mass Port Authority

*The world has embraced the concept of smart maps, and so surveyors have begun to collect more field data to satisfy our client's needs. GIS practitioners have begun to collect data to add to surveyor AutoCAD files. This has blurred the line that separates surveyors from GIS technicians, and confuses the general public*

The business of land surveying is under siege. We have technological changes that have virtually eliminated the position of rod person (CST level I), the high school graduate. Survey crews are predominantly composed of two persons (Chief and instrument operator), and the chief's position is quickly being merged with the project surveyor and drafter. Data collectors are so sophisticated that detailed site drawings may be largely completed in the field. Party chiefs who do not embrace the new technology will have fewer and fewer opportunities. These survey technicians must have at least junior college or associates degrees specialized in surveying.

Further technological advances have produced "smart maps" through GIS technology. The world has embraced the concept of smart maps, and so surveyors have begun to collect more field data to satisfy our client's needs. GIS practitioners have begun to collect data to add to surveyor AutoCAD files. This has blurred the line that separates surveyors from GIS technicians, and confuses the general public. GPS (now GNSS since other satellite constellations are available to us) will shortly enable non-surveyors to locate a point on the face of the planet to extraordinary precision with relatively little thought and inexpensive equipment.

Dennis Drum is the chairman of the Massachusetts Board of Registration for Professional Engineers and Land Surveyors. In his address to the MALSCS membership at the 2011 MALSCS Convention annual awards luncheon he spoke of the continued study and proposed modification of 250cmr6.00, the regulation that governs the survey profession in Massachusetts. (Changes to this regulation have been proposed and studied for over five years). One of

the proposed changes is a degree requirement for licensure, and another is the requirement for CEU's to maintain a PLS license. Technology marches on while the board of registration continues to struggle with the legal interpretations of terms, clauses and phrases in the proposed new regulations.

Much to the chagrin of a segment of the PLS community, surveyors have compiled plans and furnished them to clients for years. Some claim that producing maps without the benefit of field measurements is illegal practice. It turns out that this is where opportunity lies. "There's gold in them thar hills!" Our failure to mine this opportunity is rooted in the sad and illegal production of "compiled subdivision plans" or protracted subdivisions. This illegal practice has been the subject of a whole body of case law and confounded surveyors for years. Yet, certain maps demand compilation. GIS practitioners are providing them. Are surveyors to be barred from this lucrative business? Compiled data accumulation is as much land surveying as field data collection.

### GIS is a technology, not a profession

GIS is a technology. It is merely another tool for surveyors to use. Curtis Brown stated, "surveying is and art and a science." The art of surveying is in the evidentiary procedure. This procedure is missing when measurements are made or plotted by unlicensed persons with sophisticated computer programs and instrumentation. Licensed surveyors go to great lengths to read deeds and plans; search, recover and examine monuments; analyze the data and develop conclusions regarding the location of property lines. Their conclusions are committed to digital files from which others may derive

coordinates. These coordinates can be produced with great fidelity on the ground by others. But surveyors are known to weigh evidence differently based upon their own knowledge and experience. Sometimes, different surveyors come to different conclusions for the same boundary. The art of surveying acknowledges the potential for gaps and overlaps of property lines, admits the potential for changes to monuments and their positions, and recognizes the many rules for boundary resolutions made necessary by errors in legal descriptions or plats. This thoughtful analysis is missing from the mindless transfer of coordinates from one map to another, or from the map to the ground.

### The Curt Brown Chronicles

Perhaps the most entertaining and thought provoking seminar at 2011 MALSCS Convention was "The Curt Brown Chronicles" presented by Michael Pallamary. Curtis Brown (1908-1993) was a pioneer in our profession. His practice was in California. He produced numerous writings on the legal aspects of land surveying. I leave the reader with a few "Brownies" excerpted from Michael Pallamary's books and a final note:

*"A man who tries to do today's job with yesterday's tools will be out of work tomorrow."*

*"Every state land surveyor organization [should] actively and vigorously attempt to change the legal requirements for surveyor education to 'the equivalent education that can be obtained from graduating from a four year college surveying course.'"*

*"The identification of and resurvey of the boundaries of previously defined parcels of land involve*

*Continued on Page 17*

## Design Professionals Day

Continued from Page 10

### Actions Requested:

- Senate: Thank you for passage of SB 1985. Please keep supporting it.
- House: Support passage of SB 1985 - An Act further regulating dam safety, repair and removal, currently in the House Committee on Ways and Means.

### Maximizing Private Sector Innovation

The engineering industry has an essential role in helping state agencies deliver services to taxpayers. From designing solutions to address congestion on roadways, ensuring continued access to safe drinking water, to putting green technologies to work to make industry and government more sustainable, engineering firms in Massachusetts are working to solve public policy challenges and improve the quality of life for residents. There have been past efforts to prohibit the state from utilizing the skills of private sector firms for construction inspection work, including construction engineering, contract administration, quality control inspection, material testing, and

resident engineer and assistant resident engineer functions.

### Actions Requested:

- The House and Senate should oppose any amendments or attempts to prevent state agencies and municipalities from contracting out for design services and construction phase engineering or testing services. State agencies need the flexibility to determine how they will get this work done.

Please feel free to contact your legislators about these issues and to contact me if you need any more information. We delivered the briefing sheets to every legislator's office on May 8, but did not have time to meet with all of them that day. With your help, we can reach many more of them.

### Why do we do Design Professionals Day?

Land surveyors, professional engineers, and other design professionals are important resources for public policy makers at all levels of government. We bring problem solving skills, insights and expertise needed by our elected and appointed officials.

They may not always agree with our views on specific laws or regulations, but they are always interested in listening to what professionals from their home districts have to say. This is how legislators educate themselves and they want to hear from us.

The Massachusetts Association of Land Surveyors and Civil Engineers (MALSCCE) promotes professional land surveying and engineering registration and provides professional development programs for surveyors, engineers and related professionals throughout the state. MALSCCE also promotes the land surveying profession to State House leaders and the public. We work for passage of legislation and policies that create a favorable climate in which the land surveying and engineering community and related sectors can help Massachusetts grow and improve the quality of life for its citizens.

Abbie Goodman can be reached at [agoodman@engineers.org](mailto:agoodman@engineers.org) or 617/305-4112.

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*To download the Fact Sheets we used in the meetings with State Representatives and State Senators*  
[Click Here](#)

## The Cullinan Auction

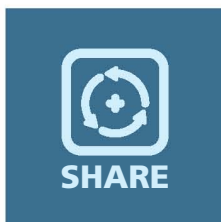
Continued from Page 12

have?" "who'll give my what?!", butt-a-bing, butt-a-boom, \$3,750, done and over. The next lot was for the company records: all the "papers" in the office including all of the plans, all of the job files, all of the books, and the main office server computer with its data files. The winning bid was \$5,000. So for a combined total of \$8,750, you could have bought the entire essence of Cullinan Engineering. Years and years of effort, sweat,

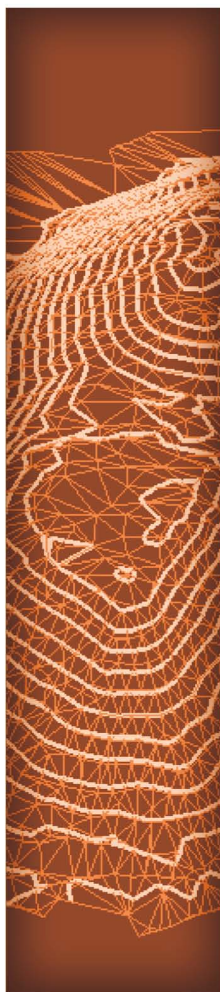
and tears wrapped up, packaged, and sold for very little money.

It was sad. There were quite a few former Cullinan employees at the auction but I didn't see any tears. I think everyone was too stunned to know how to react. The Worcester Telegram and Gazette quoted Adam Burney, the Auburn Town Planner, as saying the company's closing "leaves a big hole in the community. It's sort of a shock." I

think the surveying community feels the same way.



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## MALSCE Opposes H 254 - State Bill on Land Affected by Ocean Erosion

MALSCE has registered its opposition to H. 254, An Act preserving public trust rights in land affected by ocean erosion. On May 7, 2012, MALSCE President David W. Humphrey, PLS, sent a letter to key leaders in the Massachusetts House of Representatives detailing his position on this proposed legislation. [Click Here](#) to view a copy of President Humphrey's letter. A copy of House Bill 254 is posted on the Commonwealth of Massachusetts website at <http://www.malegislature.gov/Bills/187/House/H00254>.

## ACSM/NSPS Merger Plan Approved

The May 2, 2012 NSPS News & Views reported that a plan for merging the American Congress on Surveying and Mapping (ACSM) and the National Society of Professional Surveyors (NSPS) into one organization was approved in April by the three member organizations of ACSM — the American Association for Geodetic Surveying (AAGS), Geographic and Land Information Society (GLIS) and NSPS. [Click Here](#) to view the proposed merger plan.

## News from NSPS and the Coalition to Save our GPS

The May 23, 2012 NSPS News & Views contained links to several articles about the status of LightSquared including the May 15th GPS News article entitled "[LightSquared Bankrupt, But Spectrum Void Still Beckons](#)", in which Alan Cameron reported that "LightSquared, the company that mounted a powerful threat to GPS signals, declared bankruptcy on May 14, after losing a lengthy struggle in the court of the Federal Communications Commission (FCC) with the GPS industry, the US military (behind the scenes), the Federal Aviation Administration, and many other GPS users." Also referenced was *The Hill* technology blog article entitled "[FCC considering 'all options' to save bankrupt tech company LightSquared](#)" in which Brenda Sasso reported "A top official at the Federal Communications Commission told a Republican congressman that the agency is still considering ways to save LightSquared's plan for a high-speed wireless network."

## PE and PLS Board of Registration Minutes Available

We are grateful to the Board of Registration and the Division of Professional Licensure for providing copies of recent Board meetings for posting on The Engineering Center's website at: <http://www.engineers.org/index.cfm?pid=10853> Each pdf of the minutes listed can be searched within the pdf, if you are seeking a particular action or topic. Minutes posted on the site reflect the public meetings of the Board and are listed with the most recent available minutes back to the January 2009 meeting.

Most Board of Registration meetings are held at the Division of Professional Licensure at 1000 Washington Street, Boston, MA. Meetings are open to the public, except when the Board goes into Executive Session. Be sure to check the Board's web page for the latest schedule and for the meeting agendas: <http://www.mass.gov/ocabr/licensee/dpl-boards/en/>

## Survey Summit – ACSM Annual Conference - July 21–24, 2012, San Diego

Join Esri, The National Society of Professional Surveyors (NSPS) and the American Congress on Surveying and Mapping (ACSM) for the Survey Summit which is being held July 21 – 24, 2012 at Manchester Grand Hyatt, San Diego, 1 Market Place, San Diego, CA 92101. At the Summit you can explore the latest trends, workflows, and technology, while cultivating new business opportunities. You will also: 1) learn how real-world examples and spatial solutions can improve your business; 2) connect with your peers to share ideas and explore industry developments; and 3) bridge the gap between trusted methods and current best practices.

[Click Here](#) to register online for this event.



## The Big Squeeze

Continued from Page 13

elements of the arts and of the sciences. The arts dominate in the analysis of the legal record of descriptive title, the evaluation of this against the record on the ground, and in the presentation of the surveyor's conclusions to his client and to the future record. Science is served in the measurements made by the surveyor designed to make his findings more useful to the future use of the parcel surveyed, and his

considered efforts to make remonumentation of the parcel more easily available and understandable to the future."

".....the saddest chapter in the history of land surveying [in California] was when 5,000 plus were grandfathered in the Civil Engineer's act and given the right to practice their ignorance of surveying on the general public. I have a number of horror stories

written. While I have never killed anyone, I have read several obituaries with pleasure."

I fear we are headed for another sad chapter as the concept of written coordinates as monuments gains traction.

## Certified Surveyor Technician (CST) Testing

By Jack Hammer, PLS, Mass Port Authority

*The four-level CST certification program for surveying technicians throughout the United States indicates official recognition by NSPS that a person has demonstrated that he or she is minimally competent to perform surveying tasks at a specified technical level*

The National Society of Professional Surveyors sponsors a comprehensive national certification program for survey technicians. The program is recognized by the U.S. Department of Labor as part of the National Apprenticeship Program and the Defense Activity for Non-Traditional Education Support (DANTES). The Certified Survey Technician Board (CST Board), which administers this program, recognizes the importance of technicians to the surveying and mapping profession, and so should you!

This four-level certification program for surveying technicians throughout the United States indicates official recognition by NSPS that a person has demonstrated that he or she is minimally competent to perform surveying tasks at a specified technical level. Certification provides the individual with a sense of achievement, since it reflects advancement in the field of surveying. Certification also provides employers with a method of determining job assignments and advancement since certification is an indication of one's ability to perform specific job tasks.

**The concept of CST's has failed to gain traction in Massachusetts.**

The Massachusetts Port Authority became a one-time-only test site for the general survey population for Certified Survey Technicians (CST's) in early October. (*Massport requires that its surveyors be CST level II for instrument operator or Level III for party chief*). MALSCE dedicated table space for a placard and test applications at its annual convention this year. At the start of the convention, I set out 50 test applications. At its conclusion, none remained. This is a hopeful sign.

Earlier in 2011, I tried to get the message out to the general survey population through the MALSCE newsletter. I followed up with an e-mail to my colleagues urging them to advise field and office technicians to get certified. Unfortunately, as a result of poor timing and my inability to reach the target audience, only three persons took the examination at Massport on October 4th.

At the 2011 MALSCE Convention while all were gathered in the exhibit hall on Friday, I paraded around with a placard over my head announcing the Massport CST

testing site. Like a town crier I explained:

Many people ask me "how do you get a job at Massport?" The answer is: **get certified by NSPS as a survey technician level II or III**. This is a job requirement at Massport instituted by me seventeen years ago. It is my assurance that the short list of candidates provided by HR contains legitimate survey candidates.

"When vacancies occur in the coming years, Massachusetts surveyors listed as CST's on the NSPS web site will be contacted and urged to apply. HR may also place an ad in the newspaper, work with a search agency, or advertise on the web. In the end, there will be hundreds of resumes for HR to sort through especially in these very difficult economic times. Those who are CST's should go to the top of the pile."

# 2012 MALSCE Plan Contest Entry Form

Please fill out a separate entry form for each plan submitted and submit a PDF of the plan for judging no later than Friday, August 24, 2012 to:

r.gosselin@sddteam.com

The entry fee for MALSCE Members is \$25 per plan. Non-Members \$35 per plan. **Please type or print, and enclose entry form with a check payable to MALSCE.**

**The Engineering Center  
Attn: MALSCE Plan Contest  
One Walnut Street  
Boston, MA 02108-3616**

## Plan Contest Rules

1. Must be a plan of Massachusetts land, dated between August 2010 and July 2012.
2. Entries must be PDFs of the drawings.
3. Plans must be one sheet (no multiple sheets or sets), with the exception of the Subdivision category, which may be no more than two sheets.
4. One plan, per draftsman, per category.
5. Each entry must be accompanied by an entry form. The fee is \$25 per plan submitted for Members and \$35 per plan for Non-Members. Firms are allowed to enter plans in the same category by different drafters.
6. No plans will be accepted after the submission deadline (August 24, 2012).
7. Awards will be presented at the Awards Dinner on Friday evening, September 21, 2012.
8. All decisions of the judges are final. Award-winning entries and the results will be displayed at the Convention.
9. All entries will become the property of MALSCE, Inc.

## Awards

First place winners in each category will compete in the Plan of the Year competition. Award-winning plans will be displayed at this year's convention, and noted in the MALSCE Surveyor. All awards will be presented at the Awards Luncheon on Friday, September 21, 2012. Awards will be given for 1<sup>st</sup> place winners and announced for 2<sup>nd</sup> place winners in each category.

## Judging

All entries will be checked for compliance with the technical standards for surveying in the Commonwealth of Massachusetts as adopted by the Board of Registration, if applicable. No plan will be judged if it does not comply with 250 CMR - Section 5 or payment was not received. Awards will be presented to a representative of the firm.

The plan will also be judged on the following:

- Overall appearance, neatness, balance and consistency.
- Well-defined and descriptive title block.
- Clear and unmistakable lettering.
- Completeness (deed reference, plan references, areas, old property lines, monuments, etc.)
- Qualifying notes or statements (clearly and unmistakably stated).
- References defined and indicated.
- Signatures and seals.

Title of Plan:

Plan category as defined in 250 CMR 6.00 (Check one):

- ☐ Cadastral Survey (property line and Form A plans only)
- ☐ Subdivision Plan
- ☐ Title Insurance Plan
- ☐ Data Accumulation Survey
- ☐ Land Court Survey
- ☐ Engineering Site Plan

Name of Preparer:

Company Name:

Address:

City/State/Zip:

Tel:

Email:

**Deadline is August 24, 2012**

**Remember: One plan per category per draftsman.**

For Committee Use Only

Entry Number: \_\_\_\_\_ Date Received: \_\_\_\_\_

Entry Fee: . yes . no Results: \_\_\_\_\_



*MALSCCE Surveyor is a Publication of the Massachusetts Association of Land Surveyors and Civil Engineers*

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*The Massachusetts Association of Land Surveyors and Civil Engineers (MALSCCE) promotes professional land surveying registration and provides professional development programs for surveyors, engineers and related professionals throughout the state. We have over 400 individual members in five chapters throughout Massachusetts. In cooperation with The Engineering Center, MALSCCE enhances the land surveying and engineering professions.*

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