

Surveying Engineering Technology Newsletter  
<http://www.umaine.edu/set/svt/>  
**Spring 2008**

**ENROLLMENT:** Enrollment is stable at approximately 65 students. The breakdown of students is the following: 4-MA, 6-NH, 4-VT, 3-CT, and 1-NY. The remainder of the students are from Maine. There are 14 students currently planning to start in the Fall semester. There are an additional 10 students taking the minor. The minor is designed to provide the core surveying curriculum for licensure in Maine.

**GRADUATES:** The following students are expected to graduate in 2008: Ryan M. Brown (ME), Tyler A. Durant (ME), Chad M. Finnemore (VT), Suzanne E. Graves-Hall (ME), Nathan J. Hart (ME), Sean E. Lahann (AZ), Christopher E. Martin (VT), Robert G. Miles (MA), Jared T. Patenaude (ME), James Stevens (ME), Samuel L. Stietzel (CT), Michael C. Thoreson (WI), and Daniel T. Yarumian (ME).

**EMPLOYMENT:** There are thirteen students graduating this year (some in December). All seniors report receiving employment offers. Thanks go to employers willing to contact undergraduates using the student bios that were published by the surveying societies or posted on-line at <http://www.umaine.edu/set/svt/Resumes.htm>

**SVT SCHOLARSHIPS:** At the present time, the program has several scholarships due to the generosity of numerous firms and individuals. The amount shown in parenthesis is the amount in the scholarship. The interest on this amount provides the scholarships to the students.

- Andrew Shyka Scholarship — Colleagues and friends of Andy Shyka created this scholarship in tribute to Andy's contributions to surveying. (\$6,042)
- Carol and George Gay New England Section Scholarship — This scholarship was established by Carol Gay. George devoted much of his life to educating surveyors. Carol devoted considerable time to the New England Section of ACSM. (\$2,531)
- Col-East, Inc. SVT Scholarship — This scholarship was established by Col-East, Inc., a photogrammetric firm in North Adams, MA. (\$5,449)
- Ellsworth Stanley ACSM-NES Scholarship — The New England Section of the American Congress on Surveying and Mapping created this scholarship in memory of the significant and numerous contributions by Ellsworth Stanley to the surveying profession. This is the oldest scholarship in the surveying program. (\$83,775)
- Fritz Petersohn Memorial Scholarship — This scholarship was established by the friends of Fritz Petersohn in memory of his work and efforts on behalf of the surveying profession and the surveying program at the University of Maine. (\$6,224)
- Gunther Engineering Surveying Engineering Technology (SVT) Scholarship — This scholarship was funded by generous contributions from Gunther Greulich to provide financial aid to surveying students. (\$21,975)
- Plisga & Day SVT Scholarship — The Plisga and Day Scholarship was established in 2006 by the surveying consulting firm of Plisga & Day. Plisga & Day is a Bangor, Maine based land surveying firm that was founded in 1972 by Stanley J. Plisga and Richard A. Day. (\$3,625)
- Rhode Island Society of Professional Land Surveyors (RISPLS) Scholarship — This scholarship was established by the Rhode Island Society of Professional Land Surveyors in recognition of the contributions of the faculty and program to the New England region. (\$5,398)
- Robert P. Titcomb Memorial Scholarship — This scholarship was created by David Titcomb in memory of his father who was a leader in the surveying profession and a strong advocate of the surveying program at the University of Maine. (\$6,567)
- SVT Alumni Scholarship — This scholarship was established by alumni of the surveying program. (\$5,500)

- Virginia and Roger Ferguson ACSM New England Scholarship — This scholarship was established by Roger Ferguson in loving memory of his late wife. Roger has been a leader in the surveying profession and a strong advocate of a surveying education. (\$37,190)

**RECOGNITION SCHOLARSHIP:** Do you want to create a perpetual memorial to a person or firm? Please consider establishing a scholarship to insure that the name of a person or firm will live on in perpetuity and help students with their financial needs. A minimum of \$5,000 is required before a scholarship can be awarded to a student. Any amount greater than \$500 will start a scholarship.

**PROGRAM SCHOLARSHIPS:** Surveying Engineering Technology is pleased to announce the following scholarship recipients:

- Andrew Shyka Scholarship – Ryan Brown
- Ellsworth Stanley, ACSM New England Section Scholarship — Nicholas Acheson, Robert Buzzell, Nicholas Craig, Jason Fitton, Suzanne Graves-Hall, Sean Lahann, Daniel Oakes, Alexander Ogilvie, Tyler Rigazio, and Samuel Stietzel
- Gunther Engineering Boston Surveying Engineering Technology (SVT) Scholarship — Matthew Plante
- Judith Nitsch Scholarship — Andrey Lopez
- Virginia and Roger Ferguson ACSM New England Scholarship - Jacob Bartlett

**PROFESSIONAL SOCIETY SCHOLARSHIPS:** SVT students applied for and received the following scholarships from professional societies:

- C.A.L.S. Scholarship - Timothy Brauer
- M.A.L.S.C.E. Scholarships — Andrey Lopez, Robert Miles, & Fred Stohlman
- M.S.L.S. Scholarship — Nicholas Acheson, Jimmy Courbron, Alexander Ogilvie, Jared Patenaude, and Daniel Yarumian.
- N.H.L.A. Scholarship — Robert Buzzell
- V.S.L.S. Scholarship — Andrew Paradee

**ACSM STUDENT CHAPTER:** This year there are nine SVT students who are members of the ACSM Student Chapter. The Chapter once again voted that membership dues also include membership as a student member of the ACSM-NES (The New England Section, American Congress On Surveying and Mapping).

The Chapters biggest fundraising was to design T-shirts promoting the SVT program at UMaine.

This year the chapter has worked on a few local projects as well as developing some fundraising possibilities to help fund the chapter's future activities. Some of the local activities included GPS mapping and locating monuments on the Orono/Old Town boundary line crossing campus.

The Chapter participated in the 2008 Maine Society of Land Surveyors Annual Meeting held on January 24-25, 2008 in Rockland, and in the New England Surveying Societies annual convention April 18-19, 2008 in Worcester, MA. At both conventions the Chapter had a booth promoting the SVT program. At the latter convention, they also sold T-shirts as a fund raiser for the Chapter. At both conventions, the students helped out with administrative duties and with the benefit auctions.

In May, six members of the Chapter once again visited the Miles Lane Elementary School in Bucksport and taught about 60 third-graders about land surveying. The students learned to pace 100 feet, and then competed in a contest to determine who could pace the closest to 200 feet (winner had a paced distance of 200.3 feet!). Next they learned to use a compass and measured distances by pacing to find "buried treasure" using a treasure map. Three total stations were set up, allowing the students to see people walking around in the glass observatory atop the Penobscot Narrows Bridge. Finally, the students used 4 hand-held GPS units to find their way around the school grounds. The students and teachers look forward to the UMaine students

coming down each year, and every year several students say that they want to become surveyors (You can't plant the seed too early!)

The chapter will see a new "crop" of students next school year as many of the members are graduating this year. There are hopes for the new blood to take UMaine-ACSM back to the national convention in Salt Lake City in 2009.

The Chapter wishes to thank all those who have supported them over the past year. The support that has been shown by the state chapters as well as the ACSM-NES has been great. Thank you again for all the support.

**DEAN'S LIST** — The following SVT students earned the honor of being recognized in the Fall 2007 Dean's list: Nicholas Acheson, Eric Anderson, Jacob Bartlett, Ryan Brown (2008), Robert Buzzell, Tyler Durant (2008), Nicholas Dutil, Shane Enos (2008), Bradley Finnemore, Kevin Gay, Nathan Hart (2008), Sean Lahann (2008), Christopher Martin (2008), Robert Miles (2008), Jared Patenaude (2008), Tyler Rigazio, and Samuel Stietzel (2008). Tyler Durant (2008) placed second in the Outstanding Senior for the College of Engineering based on his outstanding GPA.

**PRESIDENTIAL ACHIEVEMENT AWARD** — The Presidential Achievement award is made just one time in a student's studies at the University of Maine. Full-time students must attain a 3.0 grade point average or better for two consecutive semesters. The student must also achieve a 3.5 grade point average or better for the most recent semester. Very few students achieve this honor. This academic year Nicholas Acheson, Timothy Brauer, Ryan Brown, Nathan Hart, Sean Lahann, Jared Patenaude, Tyler Rigazio, and Samuel Stietzel achieved this honor.

**CAPSTONE COURSE** — The capstone course generally involves boundary analysis, GPS, control surveying, GIS, and CAD. This year the final capstone project was to map the Caribou Bog Land Trust. The project resulted in a digital map for use by the trust and a presentation by the students to interested parties.



Capstone Students

Left to Right: Nathan Hart, Chris Martin, Jared Patenaude, Mike Thoreson, Jeff Condon, Tyler Durant, Daniel Yarumian, Suzanne Graves-Hall, Robert Miles, Chad Finnemore, Sam Stietzel, Sean Lahann, Jim Stevens, Ryan Brown, and Ray Hintz (Faculty)

**PROGRAM SUMMARY** — Currently, the SVT program offers the following surveying courses in the program:

Surveying Related Courses	
CET 101 Plane Surveying	SVT 221 Boundary Law
CET 202 Construction Surveying	SVT 329 Site Planning & Subdivision Design
CET 332 Civil Engineering Technology	SVT 341 Advanced Surveying

FTY 480 Applied Geographic Info. Systems	SVT 352 Practical Field Operations
MET 484 Engineering Economics	SVT 418 Fund, Surveying Exam Overview
SVT 100 Introduction to Surveying Tech.	SVT 437 Practical GPS
SVT 110 Instrumentation & Data Collectors	SVT 475 Small Business Management
SVT 121 AutoCAD for Surveyors I	SVT 490 Surveying Capstone
SVT 122 AutoCAD for Surveyors II	SVT322 Writing Effective Prop. Descriptions
SVT 201 Adjustment Computations	SVT331 Photogrammetry & Remote Sensing

**NEW EQUIPMENT** — Larger class sizes have resulted in the purchase of a permanent GPS base station and software and two cell modems for RTK with the GPS base station.

**NEW SOFTWARE** — Carlson Software, Inc. has generously donated 43 licenses of Carlson Civil Suite 2008 software to the SVT program. Since new students coming into the SVT program will be required to have a laptop, Carlson Software will also be working with the SVT program to provide a way for these students to use the Carlson software on their laptops while in the program.

**INDUSTRIAL ADVISORY COMMITTEE** — The industrial advisory committee met on 11 April 2008. Members of the committee represent every New England Society, the Maine Board of Licensure, and surveying or photogrammetry firms. Representatives on the IAC are the following:

Representative	Organization	Representative	Organization
David Brandt, P.L.S., P.E.	Surveyor at Large	David Hilbern, P.L.S.	RISPLS
Claire Kiedrowski	Photogrammetry	David Titcomb, P.L.S.	Prof. Licensing Board
Shep Sheppard, P.L.S.	Surveyor at Large	Joseph McNichols, P.L.S.	ACSM-NES
Andrew Tupper, P.L.S.	CALS	Dave Cook, P.L.S.	MSLS
Jason G. Racette, P.L.S.	Surveyor at Large	R. Michael White	GIS
Ken Roy, P.L.S.	BLM	A. Rich Vannozzi, P.L.S.	MALSCE
Timothy Patch, P.L.S.	VSLs	Stephen Gould, P.L.S.	Surveyor at Large
		Tim Peloquin, P.L.S.	NHLSA

**RECRUITING NEWS** — The following recruiting efforts have been conducted over the last year:

- Surveying faculty were at all the Maine open houses held at the University of Maine.
- A booth was used at the Engineering week exhibition held at the University of Maine.
- The ACSM Student Chapter and Carlton Brown met with elementary grade students at the Miles Lane Elementary School in Bucksport, Maine.

**SVT CROWE AWARD** — Congratulations to Claire Kiedrowski for the honor of receiving the Surveying Engineering Technology Distinguished Francis Crowe Award. The Distinguished Francis Crowe Award recognizes individuals who have made considerable engineering contributions to the profession and honored the profession. Claire is a 1990 graduate of the Surveying Engineering program. Claire Kiedrowski is a Certified Photogrammetrist with over 16 years of experience in the photogrammetric mapping industry. She is a founder and president of KAPPA Mapping, a photogrammetric firm based in Bangor, Maine. Prior to founding KAPPA Mapping, she worked for a variety of leading resource consulting and engineering firms, and photogrammetric and mapping software vendors. Claire is a member of the New England Section of ACSM and the SVT Industrial Advisory Committee. Prior distinguished Francis Crowe inductees include David Cook, M.S., P.L.S. (2003), Joseph McNichols, P.L.S. (2004), and A. Richard Vannozzi, M.S., P.L.S. (2006).

**FUNDAMENTALS OF SURVEYING EXAM:** Tyler Durant, Jared Patenaude, and Nathan Hart have passed the fundamentals of surveying exam in the Fall Semester. All seniors are required to take the fundamentals exam before graduating.

**FACULTY NEWS** — Knud Hermansen and Carlton Brown are writing a third book in a series of practice books published by the Maine State Bar Association. The book will be on residential development law.

**THOUGHTS FROM THE DIRECTOR** — It has been another strong year for the School of Engineering Technology. Graduate placement remains at 100% with employer demand remaining high despite the downturn in the economy. Enrollment is up again in all four of our programs with SVT enrollment showing an increase of 9% this year. The SVT faculty has established a unique curriculum that is getting recognized by strong high school students throughout New England. It was gratifying to review the applicants for this year's incoming class and see so many top scholars on the list. This bodes well for the future of this program. Professor Hintz's recent proposal to acquire six, survey-grade GPS units with field data recording systems for student laboratory use is exciting. Most major construction firms own real-time, kinematic radio type base-rover Global Positioning Systems. His successful proposal will put this capability in the hands of our students during their laboratory experiments. I hope you enjoy the articles in this newsletter documenting the efforts of our students and faculty. We are very appreciative of all the support the program has received from industry and friends since its inception. We are already looking ahead to homecoming this Fall and hope that many of you can drop by for a visit to catch up with old classmates and former instructors. – Scott Dunning