Welcome to the Centennial Year for the ASCE Utah Section. For those of us that missed the founding of the Section in 1916 this is our opportunity to know the history of some of the projects and the people that worked on them to create the infrastructure that we now take for granted. The following list of projects has been compiled by the history/heritage/centennial committee that are to be showcased in the Centennial eBook and events throughout the year.

If any of you have information (or know of somebody who has information) regarding these projects including pictures, facts, figures, etc., please direct that information to Walter Travis (Walter@mcneileng.com). Companies or individuals who designed, managed, or worked on these projects will likely have valuable information/insight.

If you have an interest in one of these projects, even if you were not involved or did not work directly on it, please let us know. We would appreciate your help and enthusiasm to compile information, write-ups, pictures, etc. so that the Centennial eBook can be a success.

The eBook creates a friendly format for including hyperlinks to access company web site, project videos, and interviews of the engineers and project managers that worked on the project. It also allows for company business cards and advertising with hyperlinks. This format allows copies of the eBook or parts of the eBook to be sent out to your customers.

Last February David Eckhoff and his ASCE Report Card Committee released their report. We are entering the legislative season when that report could be a great source of information to the legislators. If you worked on the report or have information you want to share please let Bob Lamoreaux know. He is working on setting up meetings with the legislature, but we need to know what issues need to be supported. Another centennial activity is the National Fly-In to visit the legislature in Washington, DC. Contact Brian Andrews for more information on the Fly-In.

During the year, we would like to setup tours of some of the highlighted projects identified for our Section History and involve the local population. If you have tours you would like setup please contact your branch presidents for help and LeeAnn Miller for coordination.

The Younger Member Forum is working with university and college student chapters as well as an end of the year party to wrap up the centennial year. Contact Tiffany Pocock with your ideas to offer your support.

While nominations for awards are relevant every year it is extremely important this year because it a part of our centennial activities. The application form for the Utah Section Awards is attached. Submit it to Bob Lamoreaux, Past President.

(Continued on page 2)
PRESIDENT’S MESSAGE (CONTINUED)

(Utah Section Awards (Form Attached, Deadline March 1st):
- Engineer of the Year
- Educator of the Year
- Fresh Face

A link for the ASCE Region 8 awards is provided below to get more information about Region 8 awards and application forms.

ASCE Region 8 Awards:
- Region 8 Engineer of the Year (4 Categories)
- Project of Year Completed in 2015 (> $10 million)
- Project of the Year Completed in 2015 (<= $10 million)

Awards that we do not think about as often are the 85 ASCE National Awards that can be found on the ASCE web page.

ASCE National Awards (Deadline Dates Vary):
- Outstanding Civil Engineering Achievement Award – Exemplary Civil Engineering Projects

ASCE Society Awards – There are 85 awards available:
- Outstanding Section and Branch Award

For the ASCE National awards please review their ASCE National webpage (www.asce.org/awards/) for requirements and let us know how we can help you to apply.

The Utah Engineers Council 2016 Annual Awards Banquet will be held on Friday, February 26th at the Rickenbacker’s Steak House in the Ogden Airport Executive Terminal. The Keynote Speaker is Bryce Gibby, an aviator, author, businessman, explorer, youth counselor and thoroughly entertaining presenter. Visit the UEC website or contact Jed Lyman (jlyman@vbfa.com) or 801-530-3148 to register. The flyer is attached to this newsletter.

Finally, put on your calendars May 27-28, 2016 for the 2016 National Student Steel Bridge Competition at Brigham Young University. They will need 40 engineers as judges. For more information, contact Tiffany Pocock, YMF President (pocockt@pbworld.com) or Steven Lord (StevenL@horrocks.com)

CIVIL SOURCE SPONSORSHIP

Would you like to increase your outreach and name-recognition? Did you know the Civil Source is sent to over 1400 civil engineers monthly (from September to May)?

The Civil Source is accepting sponsors who would like to extend their reach throughout the state. The Civil Source is published 9 times throughout the year (from September to May) and is sent to every person who has registered to be part of the Utah Section. Your logo and/or advertisement will be included in all 9 issues.

Sponsorship rates may be prorated to the next year (or reduced based on the number of months remaining for the remaining year).

If you are interested, please contact either Cody Palmer (cody@mcneileng.com) or Stephanee Eastman (StephaneeE@horrocks.com).

Sponsorship rates are as follows:

- Business card size: $60/year
- 1/4 page: $120/year
- 1/2 page: 240/year
- Full page: $480/year

The Civil Source is published at the beginning of each month. If you have something you would like to have published, please contact:

Stephanee Eastman, P.E.
ASCE Civil Source Editor
StephaneeE@horrocks.com
TECHNICAL ARTICLE

UTAH ENGINEERING LAW AND CONTINUING EDUCATION

Matthew Roblez, S.E., SECB

How many people know Utah Engineering Law? Some people think they know, but really, how many of us have researched what the law is and what we can and can’t do? I have done a lot of professional expert witness testimony in my 20 plus years. One thing I can say is that most of the people who have got into trouble are not “bad” people or crooks, they are individuals that didn’t know what they were doing was wrong against the law. They really believed that they were operating within the boundary of the law, but didn’t know any better because they had never researched the actual law. They just relied on hearsay and what others told them. Hopefully this article will help you and educate you.

I also hope this article sparks the need in all of you to research what laws govern our profession. Before I go any further, I would like to state: I’m not an attorney and I’m not giving legal advice. I am just educating you based on my experience and my understanding of the law. For legal advice, seek out a qualified attorney. I am only here to report what the law says and not make a value judgement as to whether I think the laws are good or bad. As far as this article is concerned, it is just “the law”.

What is the law?
To understand the laws, one has to understand what is “the law” and how it does it differ from ethics. Laws are different than ethical rules. Laws are a body of rules of conduct of binding legal force and effect, prescribed, recognized, and enforced by controlling authority. Ethics are a system of moral principles (you basically govern yourself). What laws govern us, the Civil Engineer? Where do I go to see if I know and follow the laws? Licensed professionals are governed by the Utah licensing Act - Title 58 - Occupations and Professions Article 22 - Professional Engineers and Professional Land Surveyors Licensing Act - General Rule for DOPL R156.

What is professional engineering?
What do we do? We all go to work every day; we all know what we do on a daily basis, but do we know how the law defines what we do? In understanding the law and how to follow the law it is primarily important to know what the law says we do. The legal definition of “professional engineer” can be quite simple:

"Professional engineer" means a person licensed under this chapter as a professional engineer.

But, the legal definition can also be fairly lengthy:

"Professional engineering or the practice of engineering" means a service or creative work, the adequate performance of which requires engineering education, training, and experience in the application of special knowledge of the mathematical, physical, and engineering sciences to the service or creative work as consultation, investigation, evaluation, planning, design, and design coordination of engineering works and systems, planning the use of land and water, facility programming, performing engineering surveys and studies, and the review of construction for the purpose of monitoring compliance with drawings and specifications; any of which embraces these services or work, either public or private, in connection with any utilities, structures, buildings, machines, equipment, processes, work systems, projects, and industrial or consumer products or equipment of a mechanical, electrical, hydraulic, pneumatic, or thermal nature, and including other professional services as may be necessary to the planning, progress, and completion of any engineering services."

That is a MOUTHFUL!!! It appears to cover EVERYTHING one could think of. Let’s break this down and look at what this means to civil engineering. Professional engineering is a “service or creative work”. So as civil engineers, we really don’t make a physical product or a widget. We are a service oriented industry and what we have to sell is our time and expertise. Professional engineering requires “education”. In Utah, the required education is a Bachelor of Science degree from on ABET accredited school, passing the fundamentals of engineering test and also the Principles and Practices of Engineering Exam. Professional engineering requires “formal training and experience”, basically four years minimum of experience under another licensed professional (if you have a master’s degree, then this is shortened).

I am not going to go into the specific licensure requirements for a Utah Professional Engineering, if you would like to research this yourself, do a simple google search or go to:

http://www.dopl.utah.gov/licensing/engineer_land_surveying.html

What isn’t professional engineering?
Well, a lot, but I would like to focus on two that I see violated quite often. The law states:

The practice of professional engineering does not include the practice of architecture as defined in Section 58-3a-102, but a licensed professional engineer may perform architecture work as is incidental to the practice of engineering.

What does “incidental” mean? As Hamlet would say it, “There’s the rub...” Incidental is determined by the court system. Many states have a legal definition of what that term means and have a model law for what an engineer can and cannot do. Utah is different. The court’s view is that each situation is so unique, the courts and the licensing board decide if a particular act was “incidental” or not. My suggestion to all of you is to not let the courts or the board decide your fate, use your best judgment and err on the side of caution.

(Continued on page 4)
Continuing Education

For a professional license renewal, the law requires 30 hours of qualified professional education directly related to the ethics, business and technical content aimed at maintaining, improving, or expanding the skills and knowledge relevant to the licensee's professional practice. There are a lot of services that will provide you with these requirements in online lecture form or physical lecture form. Be careful because in order for it to count as a continuing education unit, it must contain the following:

- Have an identifiable clear statement of purpose and defined objective for the educational program directly related to the practice of a professional engineer, professional structural engineer, or professional land surveyor
- Be relevant to the licensee's professional practice
- Be presented in a competent, well organized and sequential manner consistent with the stated purpose and objective of the program
- Be prepared and presented by individuals who are qualified by education, training and experience
- Have associated with it a competent method of registration of individuals who actually completed the professional education program and records of that registration and completion are available for review
- Not less than one hour in formally established classroom courses, seminars, or conferences

If it doesn’t have all of these, then it cannot count as a continuing education unit.

There are other ways of obtaining continuing education units. One doesn’t have to go to a lecture or a class. Some of us teach, lecture, or are part of professional groups such as ASCE. Some of this counts as continuing education units. The law states:

- 15 hours per two year period may be recognized for teaching in a college or university or for teaching qualified continuing professional education courses in the field of professional engineering, professional structural engineering or professional land surveying, provided it is the first time the material has been taught during the preceding 12 months
- A maximum of five hours per two year period may be recognized for preparation of papers, articles, or books directly related to the practice of professional engineering, professional structural engineering or professional land surveying and submitted for publication
- A maximum of ten hours per two year period may be recognized at the rate of one hour for each hour served on committees or in leadership roles in any state, national or international organization for the development and improvement of the profession of professional engineering, professional structural engineering or professional land surveying but no more than five of the ten hours may be obtained from such activity in any one organization

Even if you obtain your continuing education units during the renewal period, I suggest that you don’t stop there. I suggest that you keep getting them. If you exceed the 30 hours of qualified continuing professional education during the two year period, you may carry forward a maximum of 15 hours of qualified continuing professional education into the next two year period.

If you don’t get the number of required units DON’T CHEAT!!! The law recognizes that you may have circumstances that happen in your life where you can’t get the required number of units in the renewal period and they give you a second chance. If one doesn’t serve the required number of hours, then double the number of hours missed are required to be obtained to be eligible for renewal or reinstatement of licensure for the next renewal period. So if you are short by 5 hours, report it as such and obtain 10 plus the 50 for the next renewal period.

Obtaining CEU units is really not that hard. In fact, the Utah Section has decreed that all their branches monthly luncheons are to follow the CEU guidelines so that as a benefit, ASCE members can obtain 1 CEU for each branch monthly meeting. Serving in ASCE is another way to obtain units. Volunteering to write an article for the Civil Source is another way. There really is no excuse for one to not obtain the required number of hours. Continuing education is a good thing. It keeps all of us sharp, involved and keeps the passion for learning going. There are many avenues for us to fulfill the CEU requirements and they should be fulfilled. Continuing education can open up previously closed doors or lead to better job opportunities.

In summary, we all should be reading the law that governs us and be more involved. If you don’t know the law you are more likely to mistakenly violate it and get yourself into trouble. As I mentioned before, the professional court cases I have been involved with never have involved a crooked professional engineer, it has always been someone who violated the law without realizing it and got into serious trouble for their ignorance. Please research the law and know everything you can about it.
We hope everyone had a Merry Christmas and a Happy New Year! We are excited to start a new year of learning and growing in ASCE.

We look forward to seeing you at our next meeting on January 21st at the Bluebird Restaurant at noon. We are thrilled to have one of our local members talk about a recent engineering project in Cache Valley.

Jeremy Jensen, NUB President
Steven Earl, Past President
John Powell, President-Elect
Justin Maughan, Secretary Treasurer

Jeremy Jensen, P.E.

The ASCE Wasatch Front Branch held our monthly meeting on December 18, 2015 at Westech Engineering. Our speaker was Jacob Jensen, P.E. Jacob works for Michael Baker International and spoke on land development practices and projects. He shared several project examples throughout the western United States and discussed the unique challenges associated with each one. It was a very interesting presentation.

Our Branch will hold our November meeting at Westech Engineering on January 15, 2016. Our speaker will be Matt Roblez, the current ASCE Utah Section President-Elect. Matt will speak on Professional Responsibility, Ethics, and Continuing Education Requirements. This is a topic that all affects all practicing engineers, and should be a valuable learning experience for our entire branch. We hope to see you all there.

We also wanted to remind everyone again to renew their ASCE membership.

Craig Friant, P.E.

We hope you had a wonderful holiday season and wish that your new year is joyful, healthy, and prosperous! I read a funny statistic the other day: “Now there are more overweight people in America than average-weight people. So overweight people are now average... which means, you have met your New Year’s resolution”. Whatever your new year’s resolution is, we wish you the best of luck to accomplish it.

We will resume our monthly luncheon on January 21 at the Golden Corral in Orem. Mark Taylor, a Traffic Signal Operations Engineer from UDOT will give us a presentation on “Endeavoring towards world-class traffic signals.” Mark is responsible for overseeing the operations and maintenance of over 1,200 traffic signals statewide. Mark has a Master’s Degree in Civil Engineering from BYU and has worked for UDOT for over 17 years. We are looking forward to his presentation. Please watch your emails for more details.

Alex Vaz, P.E.
SOUTHERN BRANCH UPDATE BY MIKE CHANDLER

The Southern Utah Branch would like to thank all of our members for a successful year of presentations and workshops. We held our Christmas social on December 17th at the Cliffside Restaurant. We had an enjoyable time as everyone left with a small token of appreciation and a full stomach. We look forward to 2016 and continued support of our engineering community in Southern Utah.

Our Southern Utah Branch has a busy first quarter in 2016. We will be having a site tour of the Geneva Pipe production facility to be able to see behind the scenes of what goes into the manufacture of many of the precast products that we frequently utilize in designs. The production facility tour will take place on January 20th beginning at 11:00 a.m. The tour will begin at the Geneva Pipe South offices located at 990 South 100 East Washington, Utah 84780.

The tour will last approximately one hour after which we will return to the Cotton Town Village where lunch will be provided. Please RSVP to this event so that we can make accommodations for all those who want to attend.

We would like to remind our members that we will be holding our annual joint conference with the American Public Works Association February 10th – 12th at the Hilton Garden Inn 1731 South Convention Center Drive, St. George). The conference is planned with a two track course and registration is currently open for the conference. If you would like to take advantage of the early registration discounts go to: http://goo.gl/CpoCNm (case sensitive)

We look forward to seeing you out this year!

Mike Chandler

UTAH GEO-INSTITUTE (G-I) CHAPTER BY RYAN COLE & RYAN MAW

As we look ahead to 2016, we look forward to the upcoming Geotechnical and Structural Engineering Conference in Phoenix, Arizona on February 14-17th. The G-I and SEI coming together for a joint conference is a first-of-its kind event. The overlap between disciplines will provide a depth of understanding between the shared roles in foundation design. The proximity to our region and favorable winter weather should make this a great conference. Additional information and registration information can be found at the following website: http://www.geo-structures.org/

We would like to ask our members to let us know of topics or upcoming events of interest as we plan for 2016. Thanks again for your continued support.

Ryan Cole, PhD, P.E.
Ryan Maw, P.E.
**JOB POSTINGS / JOB-WANTED**

If your company is looking to list a civil engineering related job opportunity or if you are looking for a civil engineering related job, let us know! Job postings and job wanted ads will be listed in the Civil Source for FREE! Just send us a brief explanation/contact info of the opportunity available or a resume/job-wanted description and we will be happy to include it in the next issue of the Civil Source.

Please submit listings by the first Friday of each month in order to be included in that month’s Civil Source.

Contact: Cody Palmer (cody@mcneileng.com) or Stephanee Eastman (stephanee@horrocks.com).

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**McNeil Engineering’s Structural Department** is offering employment opportunities for interns (junior and senior level) and entry level engineers with zero to 2 years’ experience in the field of structural engineering. AutoCad experience is preferred but not required. REVIT experience is not required, but individuals with REVIT experience will be given first priority.

Please send your resume to rebeca@mcneileng.com with the subject header: MCNEIL STRUCTURAL POSITION INQUIRY and your contact information in the body of the email.
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<td>7324 S Union Park Ave, Ste 100, Midvale, UT 84047</td>
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### Geo-Institute (GI) Chapter

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<tr>
<th>Name</th>
<th>Office</th>
<th>Phone No. 1</th>
<th>Phone No. 2</th>
<th>Email</th>
<th>Mailing Address</th>
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<tr>
<td>Ryan Cole, Ph.D., P.E.</td>
<td>Chair</td>
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<td>(801) 849-0055</td>
<td><a href="mailto:ryan@gerhartcole.com">ryan@gerhartcole.com</a></td>
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<td><a href="mailto:ryanbmaw@yahoo.com">ryanbmaw@yahoo.com</a></td>
<td>756 E Winchester St, Ste 400, SL, UT 84107</td>
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### Structural Engineering Institute (SEI) Chapter

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<tr>
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<td><a href="mailto:conradg@cckengineers.com">conradg@cckengineers.com</a></td>
<td>1295 N State Street, Orem, UT 84057</td>
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### Newsletter Editor

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<th>Name</th>
<th>Office</th>
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<td>Stephanee Eastman</td>
<td>Editor</td>
<td>(801) 763-5195</td>
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<td><a href="mailto:stephanee@horrocks.com">stephanee@horrocks.com</a></td>
<td>2162 W. Grove Parkway #400, Pleasant Grove, UT 84062</td>
</tr>
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* Board of Directors
AMERICAN SOCIETY OF CIVIL ENGINEERS - UTAH SECTION

AWARDS NOMINATION FORM

Indicate the category this nomination should be considered for by checking the appropriate box below:

☐ ENGINEER OF THE YEAR ☐ ENGINEER EDUCATOR OF THE YEAR

☐ FRESH FACE

Name: ____________________________
(Nominee’s full name, including middle name and all credentials (e.g. Ph.D., P.E., L.S., M.ASCE)

Preferred Title: ____________________________

Work Address: ____________________________

Home Address: ____________________________

Phone Numbers: ____________________________
(Home) ____________________________
(Office) ____________________________
(E-mail) ____________________________

Professional Engineer (circle one): YES NO

ASCE Member (circle one): YES NO

Section/Branch Location: ____________________________

Other Credentials: ____________________________

Suggested Citation for Selection Process and Announcements (not to exceed 40 words):

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
A nomination package should include the following:

- A cover letter, signed by the nominator;
- A completed Nomination Form;
- The Nominee’s curricula vitae or biographical information;
- A recent color photograph of the nominee, head-and-shoulders shot; and

Please be prepared to issue the following upon request:

- Letters of reference with contact information are desired, but not required (maximum of three).

Other information:

- The entire nomination package should not exceed 10 pages.
- Electronic submittals are preferred.
- Submittals should be in Word or a PDF format that readily allows transfer of the nomination content to other documents for the purpose of evaluation and presenting Nominee merits in a Section Newsletter.
2016 ANNUAL AWARDS BANQUET

- Utah Engineer of the Year
- Utah Educator of the Year
- Utah Fresh Faces of Engineering
- Utah’s Outstanding MESA Teacher Award
- University Engineering Student Scholarship Awards

Friday, February 26, 2016
Rickenbacker’s Steak House in the Ogden Airport Executive Terminal
4282 S. 1650 West, Ogden, Utah

Social Hour 6:30 - 7:30 pm
(Book Signing/Networking with Utah Dignitaries)
Dinner 7:30 - 8:15 pm
Awards Presentation/Keynote Speaker 8:15 - 9:30

Keynote Speaker Bryce Gibby is an aviator, author, businessman, explorer, youth counselor and thoroughly entertaining presenter. A native of Utah, he was at one time the youngest certified Airline Transport Pilot in the U.S. at the age of 23. Prior to working as a DC-9 jet captain for Eastern Airlines, he explored various remote areas of Greenland, Iceland, and Europe. Speaking on this year’s theme of aerospace and aviation, Bruce will survey the amazing aerospace technologies across the “Top of Utah” and how the Ogden Airport is positioned to play a key role in Utah’s future development of buildings, land and air transportation.

For Tickets:
Visit the UEC website or contact Jed Lyman (jlyman@vbfa.com) or 801-530-3148
Completed Registration Form is required and may be found on the UEC website.

Advanced Tickets (before January 31) $55
Advanced Retired Senior (65+) $35
Advanced Student $35

Regular Tickets (after January 31) $65
Students and Senior (after January 31) $45

Purchase of Table of 8 will receive priority seating.
Advanced tickets available through January 31.
Limited seating available. This will be a sell-out event!
Hello! My name is Treven Edwards and I am the University of Utah ASCE Career Fair Coordinator. At this time we would like to invite you to attend our annual ASCE Career Fair. It will be held in the Catmull Gallery in the Warnock Engineering Building (WEB) on Wednesday, February 17, 2016 from 12pm-4pm (Lunch will be provided by ASCE from 12:00-1:00).

The fair is designed to promote company awareness and encourage networking opportunities between employers and students.

To participate in the event, ASCE student chapter is asking for a fee of $300 per company. This price includes an 8-foot table and two chairs. The deadline for reservations is January 8, 2016. This allows us to reserve tables for the event. It also gives students the chance to see what companies will be in attendance. If you would like to reserve a spot after the deadline a $50 late fee will be assessed. Registration can be paid by credit card on the Civil Engineering website at: https://umarket.utah.edu/um2/civilmarket/productlist.php?category=5

If you are interested in an interview room either the day of or the days following the career fair, please contact me by the registration deadline to reserve a spot. The rooms cannot be reserved until I know who is using them, therefore to ensure availability it is better to register for the event earlier.

Should you have any further questions or requests, please let me know. We value our relationship with your company and will do our best to accommodate your requests. Thank you for your continued support of the University of Utah ASCE Student Chapter! We sincerely appreciate your involvement in our student community and look forward to continuing to work with you.

Sincerely,

Treven Edwards
U of U ASCE Vice President / Career Fair Coordinator
trvnjune@gmail.com
(801) 839-6998
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