Letter from the Chair

Peter Miller, PSS

As we enter 2017, I would like to thank several outgoing Board members who have served honorably over the past 4-8 years. We thank our public members: Tanya Digiovanni, David Fisher, John Swanson, and past Board Chair Carl Peterson. We also thank Professional Engineer Jim Grube for his service as chair of several committees, and Certified Interior Designer Mary Deeg for chairing several committees and serving as Board Chair. The dedication of these individuals, along with all Board members, ensures the Board’s mission is fulfilled and our professions’ integrity upheld. Several Board positions are open and applications are available through the Board’s website (see the article below for more details). I encourage all registered professionals to consider this appointment and to direct worthy public members to the website to learn about how they can serve. It is a rewarding experience and one I highly recommend.

The Board completed a strategic planning effort in 2016 that yielded three key strategic initiatives:

1. Leverage education, outreach, and technology to encourage licensure and improve the path to and through licensure;
2. Increase understanding and utilization of the enforcement program by licensees and the public; and,

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“Now” is always a good time to consider serving on the Board

Appointments to the twenty-one member Board of AELSLAGID are structured so that in any given year new members are coming on to the Board as others are completing their terms. That means that any time can be a good time to consider applying to the Board. By statute, five Board members must be public members and sixteen are from the licensed and certified professions: three architects, five engineers, two land surveyors, two landscape architects, two geoscientists and two certified interior designers. Your particular profession may not have an open seat in a particular year. Still, the Governor is always interested in a strong pool of candidates, and the Board encourages you to look forward to the year and opportunity that fits your situation.

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Rule modifications considered

The Board is currently engaged in two separate rulemaking activities. It does not anticipate that a draft of the rule modifications will be available before publication of the Notice of Intent to Adopt Rules for either of the rule packages, however, interested persons or groups may submit comments or information on these possible rules in writing or orally until further notice is published in the State Register.

Written or oral comments, questions, or requests to receive a draft of the rules when they have been prepared, and requests for more information on these possible rules should be directed to Andrea Barker at the Board of Architecture, Engineering, Land Surveying, Landscape Architecture, Geoscience and Interior Design, 85 East Seventh Place, Suite 160, St. Paul, MN 55101; phone: 651-757-1511; fax: 651-297-5310; or email: andrea.barker@state.mn.us. TTY users may call the Board at 800-627-3529.

Please note that comments received prior to the publication of the Notice of Intent to Adopt Rules will not necessarily be included in the formal rulemaking record submitted to the Administrative Law Judge if and when a proceeding to adopt rules is started. The agency is required to submit to the judge only those written comments received in response to the rules after they are proposed. If you submit comments during the development of the rules and you want to ensure that the Administrative Law Judge reviews the comments, you should resubmit the comments after the rules are formally proposed.

- update definitions and add additional definitions to clarify rules;
- require that examinees abide by the exam administrator’s published examination policies and procedures and outline the possible consequences of not complying;
- make changes to procedures for submitting applications for examination, licensure and temporary permits;
- update education and experience requirements for all professions regulated by the Board;
- clarify that all education, examination and experience requirements must be completed prior to licensure or certification;
- clarify which documents must be certified and signed;
- allow electronic certifications and signatures;
- allow more than one licensee to certify and sign a document;
- add rules regarding revisions to certified documents and successions;
- clarify which grounds for disciplinary action under MN Statute §326.111; and
- make housekeeping modifications which will lengthen the time an individual has to notify the Board of disciplinary action taken in another jurisdiction and to make other clerical and grammatical changes for clarity.

2. Modifications to Chapter 1805 (Revisor ID R-04449)

The Board published a Request for Comments in the December 12, 2016, edition of the State Register and is working on finalizing a draft of the rules. The Board is considering rule amendments to update and clarify the Rules of Professional Conduct, including the addition of certificate holders to those required to abide by the rules.
Highlights from the 2015-2016 Biennial Report

By October 1 after the end of every biennium, the Board is required by statute to submit a report to the Governor and the Minnesota State Legislature that includes operational, budget, and statistical information.

That report is a public document and is available from the Board’s website: mn.gov/aelslagid/BiennialReport1416.pdf. Below are some highlights from that report.

Examination/Licensing/Renewal

- Examination applications reviewed: 2,470
- Licensure/Certification applications reviewed: 1,410
- New licenses/certificates issued: 1,898
- Licenses/Certificates renewed: 17,547

Enforcement

- Complaints investigated: 120
- Public orders issued: 24

Board/Staff Hours

- Board member hours: 5,602
  Includes attendance at Board meetings, review of applicant credentials, enforcement, education, legislation, and representing Minnesota on national committees.
- Full-time staff: 7

Newly Licensed/Certified During the Biennium

<table>
<thead>
<tr>
<th>Profession</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architect</td>
<td>364</td>
</tr>
<tr>
<td>Professional Engineer</td>
<td>1425</td>
</tr>
<tr>
<td>Land Surveyor</td>
<td>29</td>
</tr>
<tr>
<td>Landscape Architect</td>
<td>38</td>
</tr>
<tr>
<td>Professional Geologist</td>
<td>15</td>
</tr>
<tr>
<td>Certified Interior Designer</td>
<td>27</td>
</tr>
</tbody>
</table>

- Total number of individuals licensed/certified at the end of the biennium: 20,255
- Verifications of Examination and Licensure (requested by Minnesota licensees seeking licensure in another state): 1,500

2014-2016 Continuing education audit update

Every renewal period (even-numbered calendar year) the Board undertakes a random audit of licensees and certificate holders to verify whether the continuing education reported to the Board was accurate and in compliance with Board Statutes.

This year, the Board audited 193 licensees and certificate holders. Additionally, one-third of the Board members were audited. The period audited was July 1, 2014–June 30, 2016.

As of January 2017, 86% of the audits have been approved, 7% are pending approval, 4% were rejected and are waiting for additional documentation, and 3% were referred to the Complaint Committee for possible disciplinary action for non-compliance of the continuing education requirement.

Continuing education must consist of learning experiences which enhance and expand the skills, knowledge and abilities of practicing professionals, to the benefit of the health, safety and welfare of the public. Refer to MN Statutes section 326.107, subdivision 2.

Some courses the Board rejected during the audit for not meeting the above requirements were: Microsoft Office Suite Training, First Aid, CPR, Defibrillator training, “What You Need to Know about Emails” and “Social Networking Risks.”
Practicing land surveying without a license

by Robin Mathews, PLS

Who in Minnesota has the legal authority to make a property boundary determination for another person?

The answer to this question is: only a Minnesota-licensed Land Surveyor.

Minnesota statutes state:

In order to safeguard life, health, and property, and to promote the public welfare, any person in either public or private capacity practicing, or offering to practice, … land surveying, … either as an individual, a copartner, or as agent of another, shall be licensed … as hereinafter provided. It shall be unlawful for any person to practice, or to offer to practice, in this state, … land surveying, … or to solicit or to contract to furnish work … or to use in connection with the person’s name, or to otherwise assume, use or advertise any title or description tending to convey the impression that the person is a … land surveyor,… unless such person is qualified by licensure.… MN Statute 326.02 Subd. 1 (2016)

The above referenced statute is very clear: If you are practicing land surveying, then you must be licensed as a land surveyor.

What actions are unique when defining the practice of land surveying?

Minnesota statutes state:

Land surveying means the application of the principles of mathematics, physical and applied sciences and law to measuring and locating lines, angles, elevations and natural or artificial features in the air, on the surface of the earth, underground and on the beds of bodies of water for the purpose of:

(1) determining, monumenting, establishing, or reestablishing property boundaries;
(2) determining, monumenting, or reestablishing the position for any public land survey system corner or line;
(3) planning, designing, and platting of land and subdivisions including the topography, alignment and grades of streets; and
(4) preparing and perpetuating maps, record plats, and property descriptions.

The critical components of what uniquely define the practice of land surveying are captured in the emphasized statement above.

Here are just a few practical examples of what determining, monumenting, establishing or reestablishing property boundaries may look or sound like:

A third party conveys:
- “This is your or your neighbor’s property line.”
- “This iron I found is your or your neighbor’s property corner.”
- “This marker I set is your or your neighbor’s property corner.”
- “I can find your property corners and mark your property lines.”

Here are examples related to any Public Land Survey System (PLSS) corner or line:

A third party conveys:
- “This location is where the section line is.”
- “This iron I found is the section corner or the government corner.”
- “This marker I set is where the section corner is located.”
- “I can find the section corners and mark your forty lines.”
- “This fence corner is where the section corner is located.”

However conveyed by the third party, these all constitute the practice of land surveying and can only be undertaken by a licensed land surveyor.

Even if that third party makes a verbal or written disclaimer stating that they are not a licensed land surveyor, that does not nullify that they have practiced land surveying.

What are the possible ramifications for a person who engages in an act or practice constituting the unauthorized practice of land surveying?

continued on page 5
What is a ‘building official’?

by David Fisher, CBO

A building official is someone who has the ability to administer and enforce the building code using their knowledge, skills and experience with the construction process. Building officials play a major role in ensuring that all commercial, residential, public assembly and other buildings are constructed in accordance with the State Building Code. The State Building Code addresses structural stability, fire safety, means of egress (exits), sanitation, plumbing systems, energy efficiency, mechanical systems, accessibility and more.

It is the building official’s responsibility to protect the public health, safety and welfare in relationship to the built environment through effective code enforcement. This is very close to the charge of the design professional. Municipalities and private inspection firms employ building officials, but they are also sometimes hired by construction, architecture or engineering companies.

Many of the design professionals and most of the public rely on the building official for code interoperations. The design professionals have a responsibility to know the codes and provide documents that comply with the code. Using continuing education to keep up with current code is one positive approach to this professional obligation.

There is a growing demand in Minnesota and across the country for all skilled workers in the construction industry. A recent survey (www.doli.mn.gov/ccld/pdf/bofficial_survey.pdf) shows that the “typical” Minnesota building official is going to retire within the next 10 years. Design professionals looking for a change or for new opportunities are actually well-positioned to land building official positions, and their design backgrounds would be an asset to the profession as a whole.

Land surveying practice
continued from page 4

Minnesota statutes state:

If the board . . . has a reasonable basis to believe that a person has engaged in an act or practice constituting the unauthorized practice of . . . land surveying . . . or a violation of a statute, rule, or order that the board has issued or is empowered to enforce, the board . . . may proceed as described [below]. . . .

[T]he board may bring an action in the name of the state in the district court in Ramsey County or in any county in which jurisdiction is proper to enjoin the act, practice, or violation and to enforce compliance with the statute, rule, or order. . . .

[A] permanent or temporary injunction, restraining order, or other appropriate relief shall be granted. . . . [This] injunctive relief . . . does not relieve an enjoined person from criminal prosecution by a competent authority or from disciplinary action by the board with respect to the person’s license, certificate, or application for examination, license, or renewal. . . .

The board . . . may issue and have served upon a person an order requiring the person to cease and desist from the unauthorized practice of . . . land surveying . . . or the unauthorized use of the title . . . land surveyor . . . or violation of the statute, rule, or order. The order shall be calculated to give reasonable notice of the rights of the person to request a hearing and shall state the reasons for the entry of the order. . . .

The board may impose a civil penalty not to exceed $10,000 per violation upon a person who commits an act or practice constituting the unauthorized practice of . . . land surveying . . . or violates a statute, rule, or order that the board has issued or is empowered to enforce. . . .

MN Statute 326.111 Subd. 1-3, 6 (2016)

In summary, the potential ramifications of the unauthorized practice of land surveying may include a cease and desist order, a civil penalty or legal action.

The Board has the authority to take enforcement action in matters of the unauthorized practice of land surveying. If you are aware of individuals practicing without a license, contact Board Investigator Lynette DuFresne at 651-757-1510.

Note: PDFs of the full statutes excerpted here can be found at these shortened URLs: bit.ly/326-02PDF and bit.ly/326-111PDF.

WINTER 2017 Vol 22 No 1
The members and staff of the Minnesota Board of AELSLAGID welcomed the following as new licensed or certified professionals between March 1, 2016 and December 20, 2016.* Our congratulations and best wishes.

**Architect**
- Daniel Abel
- Michael Anderson
- Ayman Arafa
- Sarah Bagley
- Brett Barry
- Cameron Bence
- Matthew Bergstrom
- Erik Bjorn
- David Booth
- Jennifer Brandel
- Tyler Buerkle
- Philip Bussey
- Andrew Centanni
- Sergio Contreras
- Melissa Cross
- Neal Cross
- Daniel DeMeules
- Jennifer Garman
- Ryan Gauquie
- Thomas Grier
- Charlie Haller
- William Hicks
- Jeremiah Johnson
- Tyler Johnson
- Douglas Kahl
- Katie Kangas
- Jeffrey Kanne
- Mitchell Karr
- Elise Kelly
- Sean Kelly
- Tara Ketchum
- Lane Kleist
- Ellen Konerza
- Jessica Kraft
- Todd Larson
- Laura Lutterman
- Amy Malmstrom
- Kelly Martinez
- Jodi Masanz
- Larson
- Neil Missling
- Matthew Mohr
- Athira Nair
- Jacob Nicklay
- John Nieuwenhuis
- Adam Pangrac
- Amanda Pederson
- Benjamin Placek
- Anna Reeve
- Corey Schmitt
- Andrew Schoenherr
- Jeffrey Schuler
- Joseph Signorelli
- Alisha Simones
- Jeremiah Simones
- Anju Thapa
- Matthew Tierney
- Rebecca Ueland
- Kyle Veldhaus
- Pablo Villamil
- Justin Wang
- Christopher Wheeler
- Jarred Cooley
- Matthew Harold
- John Mahan
- John Wallace
- Paul Ruhland
- Nicholas Welinski
- Dallas Westerlund

**Professional Engineer**
- Daniel Abramson
- Benjamin Adams
- Tumer Akakin
- Neil Albares
- Nicholas Amatucci
- Jarrod Eitream
- Joshua Cordle
- Scott Hasburgh
- William Mahan
- Matthew Russell
- Andrew Groh
- Daniel Zielinski

**Reactor**
- Tamer Aly
- Gabe ABB
- Kate Amato
- Joshua Bhat
t...

**Landscape Architect**
- Allyson
- Laura Detzler
- Britta Hansen
- Ryan Hyllestad
- Kevin Kroe
- Matthew Kumka
- Nicholas Meyer
- Jonathan Nelsen
- Timothy
- Solomonson
- Anna Springer
- Mitchell Workman

**Professional Geologist**
- Kevin Boerst
- Mark Davidson
- Ted Feit
- Christopher
- Goscinak
- Waylon Hirst
- Nicole Hoffmann
- Micah Holzbauer
- Carrie Jennings
- Erik Nimlos
- Wyatt Nolan
- Brennon Schaefer

**Certified Interior Designer**
- Lauren Graybill
- Marie Johnson
- Lori Olafson-Zwak
- Emily Reznzechek
- Amanda Schilling
- Amy Schwabe
- Rebecca Wosick
- Ashley Wurster

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* This list reflects only those receiving their first initial license or certification. Every effort has been made to make this list correct per the dates specified; however, it is not definitive. You can confirm licensure/certification status via the AELSLAGID website roster.
AIAS “Freedom by Design” program connects architect profession and public service

by Wayne G. Hilbert, AIA, NCARB

The National Council of Architectural Registration Boards (NCARB) recently announced that they are partnering with the American Institute of Architecture Students (AIAS) on its “Freedom by Design” program.

Developed by the AIAS, this volunteer-based program empowers architecture students to improve the safety and accessibility of homes, community spaces, and playgrounds through sensitive design. Through this partnership, NCARB will provide local AIAS chapters with grants for building materials. Additionally, students who participate in Freedom by Design can use their experience to satisfy requirements for the Architectural Experience Program® (AXP®).

The Minnesota Board is pleased to assist NCARB in bringing awareness to this worthy program, a notable example of the ways in which the professions (in this instance, architects) serve the health, safety and welfare of the public. The University of Minnesota chapter for Freedom by Design has already undertaken good work. They are learning how to resolve accessibility issues while simultaneously gaining real world experience working with clients, mentorship from licensed architects and contractors, and an understanding of the practical impact of architecture and design.

Among their past projects are a bathroom fitted for better accessibility and the remodel of a kitchen at a women’s shelter (see photos). Their current project involves the design and building of a musical playground for the Karner Blue School in Blaine which serves students with special needs. Completion of a drum ball is expected in the spring of 2017.

NCARB is assisting the Freedom by Design endeavor with funds, but the program requires mentors. Consider becoming one. You can find more details about the program and the role of members on the AIAS website: www.aias.org/programs/freedom-by-design/.

Become a mentor for FREEDOM BY DESIGN

Contact the U of M chapter:
• Email: freedom@umn.edu
• Website: www.freedombydesignumn.org/
• Facebook: facebook.com/uofmfreedombydesign

Find other chapters around Minnesota and across the country:
• www.aias.org/chapters

FBD Roles for mentors include:
• Design Mentor (requires a licensed, local architect)
• Construction Mentor
Disciplinary Actions

Disclaimer: Every effort was made to ensure that the following information is correct; however, it should not be relied upon without verification from the Board office. Note that the names of companies and individuals listed may be similar to those of parties who have not had enforcement actions taken against them.

Disciplinary orders are public data. You may view orders on the Board website or contact the Board to request copies.

The following are summaries of disciplinary actions taken since the last newsletter. Full orders are posted at mn.gov/aelslagid/enforcement.html.

In the Matter of Mark Forbes, Architect, License #17452

Facts: Mr. Forbes was first licensed in 1985. On July 1, 2014, his license expired. He had his license reinstated on September 18, 2015. Mr. Forbes admits that during the time his license was expired, he held out and practiced as an Architect.

Enforcement Action: On April 1, 2016, the Board issued a Stipulation and Order. Mr. Forbes was reprimanded for the foregoing conduct and ordered to pay a $2,000 civil penalty.

In the Matter of Erik J. Tomlinson, PG License #46739

Facts: On March 24, 2016, the Board received a Notice to Suspend Occupational or Professional License from Hennepin County Child Support. Under Minnesota Statutes section 518A.66 (2014), the Board suspended Mr. Tomlinson's license. Subsequently the Board received correspondence from Hennepin County Child Support requesting that the Board reinstate his license.

Enforcement Action: On March 28, 2016, the Board issued an Order for Suspension. On April 22, 2016, after receiving the correspondence from Hennepin County Child Support, the Board rescinded that suspension and issued an Order to Reinstate.

In the Matter of Robert Gerszewski, Architect License #45254

Facts: Mr. Gerszewski was first licensed in 2006. On July 1, 2014, his license expired. On June 8, 2015, his license was reinstated. During the period his license was expired, Mr. Gerszewski held out and practiced as an Architect, signing off on nineteen projects.

Enforcement Action: On May 19, 2016, the Board issued a Stipulation and Order. Mr. Gerszewski was reprimanded for the foregoing conduct and ordered to pay a civil penalty of $5,000 to the Board.

In the Matter of Willis L. Gilliard, PE and LS License #9587

Facts: On August 4, 2016, the Board received a Notice of License Revocation for Debt from the Minnesota Department of Revenue, which advised the Board that Mr. Gilliard had an outstanding tax liability. Under Minnesota Statutes section 270C.72, subd. 1 (2014), the Board must revoke a professional license if the license holder owes delinquent state taxes, penalties, or interest, and the Minnesota Commissioner of Revenue so notifies the Board. The Board revoked Mr. Gilliard's PE and LS licenses. On September 8, 2016, the Board received a Clearance Certificate from the Department of Revenue.

Enforcement Action: On August 12, 2016, the Board issued an order revoking Mr. Gilliard's licenses. On September 10, 2016, after receiving the Clearance Certificate, the Board issued an Order to Rescind Revocation.

In the Matter of Stanley J. Ross, Architect License #24982; CID Certificate #C01149

Facts: On February 26, 2016, the Board issued a Stipulation and Order suspending both Mr. Ross's license and certificate until such time as he submitted CE documentation satisfactory to the Board and paid a civil penalty of $1,000 related to holding out as an Architect and CID during a period in which both his license and certificate were expired. On March 24, 2016, the Board determined Mr. Ross had complied with all conditions of that Stipulation and Order.

Enforcement Action: On April 1, 2016, the Board issued an Order Vacating Suspension of License and Certificate.

In the Matter of Martin D. Bonnell, PE License #14010

Facts: On December 6, 2013, the Board issued a Stipulation and Order. Mr. Bonnell's license was revoked for a period of two years and he was required to take sixteen hours of ethics, and pay a $10,000 civil penalty. Until such time as Mr. Bonnell met all conditions of the Stipulation and Order and all conditions for reinstatement, Mr. Bonnell’s license would remain revoked. On December 1,
Facts: Mr. Verburg has never been licensed as a Minnesota professional geologist. In October 2015, Mr. Verburg made a site visit and prepared two documents for MnDOT, acts which constituted the practice of professional geoscience.

Enforcement Action: On January 31, 2017, the Board issued a Settlement Agreement and Order. Mr. Verburg was reprimanded for the foregoing conduct and ordered to pay a $1,000 civil penalty.

In the matter of Dennis Odens, PE License #40756

Facts: Mr. Odens was first licensed in 2000. On July 1, 2016, his license expired. His license was reinstated on July 18, 2016. During the time his license was expired, Mr. Odens held out and practiced as a professional engineer.

Enforcement Action: On December 1, 2016, the Board issued a Stipulation and Order. Mr. Odens was reprimanded for the foregoing conduct and ordered to pay a $500 civil penalty.

In the matter of Bernard Stroh, PE License #40756

Facts: Mr. Stroh was first licensed in 1980. On July 1, 2016, his license expired. His license was reinstated on August 4, 2016. During the time his license was expired, Mr. Stroh held out and practiced as a professional engineer, signing four projects.

Enforcement Action: On December 1, 2016, the Board issued a Stipulation and Order. Mr. Stroh was reprimanded for the foregoing conduct and ordered to pay a $3,000 civil penalty.

In the matter of Joel Ray, PE License #45920

Facts: Mr. Ray was first licensed in 2007. On July 1, 2016, his license expired. On July 29, 2016, his license was reinstated. Mr. Ray self-reported that, during the time his license was expired, he held out and practiced as a professional engineer by working on nine projects and signing two.

Enforcement Action: On January 31, 2017, the Board issued a Stipulation and Order. Mr. Ray was reprimanded for the foregoing conduct and ordered to pay a $3,000 civil penalty.

In the Matter of Michael J. Klein Architect License #14683

Facts: On February 11, 2002, the Board received a Notice of License Revocation for Debt from the Minnesota Department of Revenue, which advised the Board that Mr. Klein had an outstanding tax liability. Under Minnesota Statutes section 270C.72, subd. 1 (2016), the Board must revoke a professional license if the license holder owes delinquent state taxes, penalties, or interest, and the Minnesota Commissioner of Revenue so notifies the Board. The Board revoked Mr. Klein’s architect license. On January 25, 2017, the Board received a Clearance Certificate from the Department of Revenue.

Enforcement Action: On February 12, 2002, the Board issued an order revoking Mr. Klein’s license. On January 25, 2017, after receiving the Clearance Certificate, the Board issued an Order to Rescind Revocation.
Chair letter
continued from page 1

3. Increase Board proactivity and preparedness through education, technology and diversity efforts.

The Board's mission is simple: educate—license—enforce. Why? The work you do day in and day out is critical to our health and safety, and drives the economy of Minnesota. We need to collectively hold these professions to the highest of standards because so much is at stake. Registered professionals make up less than 1% of Minnesota's population, yet the work we do touches 100% of Minnesotans. Thank you for all you do!

How can you help further the mission of the Board?

- Educate: Invite Board members to your association events to talk about licensure. We have developed the needed tools to provide these presentations. Write timely articles about your professional experiences to be included in the newsletters of our respective professional organizations.
- License: Continue your path to licensure and encourage others to do the same. Stay current with your continuing education, including professional ethics. We have improved the website and electronic renewal process. We are updating the application forms and other materials to make the process easy to understand and follow.
- Enforce: As licensed professionals we all have the responsibility to report dishonorable behavior. The Board has active outreach to building code officials, fire marshals, and the professional societies about our rules and statutes. We need your help to ensure the ethical standards enforced by the Board are protected.

I am finishing my second term on the Board and 2017 will be my final year. It has been an honor to serve in this capacity and I have gained a greater appreciation for the professionalism in our practice areas. Professional soil scientists make up the smallest number of licensees of the Board. One of my goals when I joined the Board was to bring exposure to the profession of soil science and how soil scientists complement and improve the work done by other professions.

Soil supports life, and the management of soil resources is paramount to our existence (think dust bowl and great depression). The Natural Resource Conservation Service defines us as: “A soil scientist studies the upper few meters of the Earth’s crust in terms of its physical and chemical properties; distribution, genesis and morphology; and biological components.” However, what a soil scientist does goes beyond just mapping soils and creating soil surveys. Here are a few activities in which soil scientists regularly engage:

- Management of soils for landscape design, mine reclamation, and land restoration.
- Assessment of soils for land application of wastes including: non-hazardous process wastes (residue, process water, and sludge management), and suitability of sites for on-site disposal of residential wastewater.
- Suitability studies for a variety of land development uses. Those studies can include soil stability, moisture retention, hydraulic conductivity, sustainability and environmental impact.
- Assessment of environmental hazards, such as hazardous waste sites. That assessment can involve soil investigation techniques, evaluation of chemical fate and transport phenomena and suitable remediation alternatives.
- Management of soils for agricultural purposes, forest products and erosion control. Management includes modification of nutrient and water availability to plants.
- Evaluation of soils for natural resource management in forestry, wetlands, environmentally sensitive sites, ecological evaluations, and archaeological sites.
- Research of soil systems and soil management by public and private research institutions for the enhancement of soils knowledge and to enable new discoveries.

The Soil Science degree programs of the past are now being merged into the broader Environmental Studies or Environmental Science programs. The next generation of soil scientists will not only have a strong technical background in soils, they will also have vast knowledge of environmental regulations and applications to make their contributions even greater than today. Professional licensure of geoscientists (soil scientists and geologists) has raised the bar in these professions which complement architecture and engineering, and together they work to ensure the health, safety, and welfare of the public.

Thank you again for the opportunity to be on the Board and to chair this Board. It has been such a great honor and privilege.
Updates from the National Councils

Architecture
The Architect Registration Examination (ARE) version 5.0 launched in November 2016. NCARB has created several resources to explain the new version and how the transition from 4.0 to 5.0 works:

- ARE 5.0 Overview (PDF)
- ARE 5.0 Handbook (PDF)
- ARE 5.0 Guidelines (PDF)

Links to these items are available from the Board’s home page.

Applicants who began testing under 4.0 can choose to finish under 4.0 until June 30, 2018.

Engineering
Please note that if you are taking either the PE Civil or PE Mechanical Exam, you will be asked to select an afternoon module when you apply.

The PE Mechanical Engineering Exam has new specifications starting in April 2017. Also, it will no longer be a “breadth and depth” exam. It will become three distinct, separate exams:
- HVAC and Refrigeration
- Machine Design and Materials
- Thermal and Fluid Systems

The PE Chemical Engineering Exam will be converted to a computer-based test after April 2017, with the first appointments available in January 2018.

The Structural 16-Hour Exam will have revised design standards starting in April 2017. The PE Civil Exam will have revised design standards for the Civil Structural module starting in April 2017.

Revised standards for the exams referenced above can be found on the NCEES website. Also see the “news” section of the NCEES website for an updated list of approved calculators and reduced FE and FS exam costs.

Land Surveying
As of October 2016, registration for the Minnesota Land Surveying Exam (MNLS) is handled directly through the Board office. The exam remains paper-based and proctored by the Board but is now offered three rather than the previous two times per year.

The PS exam is now computer-based. Board-approved applicants may register with NCEES year-round.

Landscape Architecture
The Council of Landscape Architectural Registration Boards has announced revisions to the Landscape Architect Registration Examination effective April 2017. Among the changes to the exam will be new content focusing on maintenance, historical preservation, performance metrics and specialty plans. These updates will align the exam with current practice.

This update will have no negative impact on candidates who have already successfully completed sections of the exam. All exam sections through the December 2016 administration will remain equivalent to the exam sections that will be administered in April 2017.

Geoscience
The Association of State Boards of Geology held its annual meeting in November. The Council of Examiners Annual Workshop was held during the meeting. Subject matter experts from member boards and members-at-large, in conjunction with the association’s psychometrician, reviewed and evaluated the test questions, and discussed ways to further improve the quality of the test items.

Certified Interior Design
The Practicum portion of the National Council of Interior Design Qualification Exam will be computerized beginning in October 2017.

Guests join June Credentialing Committee and full Board meeting

Jay Baumgartner, PE, a member of NCEES’s 2015-2016 Emerging Engineers and Surveyors Group and Kathryn Sarnecki, PE, current President of the Minnesota Society of Professional Engineers Board of Directors (center figures in photo), were invited at the suggestion of Nirmal Jain, PE (not pictured), to share their thoughts on the Board’s outreach to licensees and to those along the path to licensure. Jay and Kathryn are shown here with Board Chair Peter Miller, PSS (left), and Credentialing Chair Wayne Hilbert, AR (right).
Serve on the Board
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The application process for each seat remains open until filled, and appoint-
ments can be made as late as June. As of the writing of this article, 2017
appointments are still to be made for the following:

- Architect (1)
- Professional Engineer (1)
- Professional Soil Scientist (1)
- Certified Interior Designer (1)
- Public Member (4)

In 2018 the following seats will be up for appointment:

- Landscape Architect (1)
- Professional Engineer (2)

Board members are appointed by the Governor to four-year terms and may
serve a maximum of two terms.

If you are interested in serving on the Board, please complete the Open Appointments Application on the Secretary of State’s website (www.sos.state.mn.us).

Looking for more information on the mission and values of the Board and the roles and responsibilities of Board members? The Board has a summary sheet, available on the website: bit.ly/AELSLAGID-1sheet.

Calendar of Meetings
March - August

March
7  Complaint Committee - 9:30 a.m.
23  Board Meeting - 8:00 a.m.

May
11  Board Meeting - 8:00 a.m.

June
29  Board Meeting - 8:00 a.m.

August
17  Board Meeting - 8:00 a.m.

Please consult the Board website for any changes to meeting dates or times.

Board meetings are open to the public, with the exception of Disciplinary/Complaint meetings or discussions as prescribed by Minnesota Statutes 13D.01 and Chapter 14.