

SOUTH CAROLINA
BOARD OF PROFESSIONAL ENGINEERS
AND SURVEYORS
Board Meeting
November 18, 2008
110 Centerview Drive, Room 202-02, Columbia, SC

Call to Order – Chairman, M. L. Love, P.E., called the meeting to order at 9:35 a.m. Board Members present were Gene Dinkins, P.E. and L.S.; Thurl Amick, Sr., L.S.; Anderson Kinghorn, Jr., P.E.; Nancy Cottingham, Public Member; Theresa Hodge, P.E.; Charles Joye, II, P.E.; and Cecil O Huey, Ph.D., P.E.. Also present were Jan Simpson, Board Administrator; Melissa Jones, Program Assistant; Todd Bond, Investigator; and Sharon Dantzler, LLR Attorney. Other attendees: Joe Jones, Executive Director of SCSPE; Frank Sheheen, Director of Recovering Professional Program; and Rick Wilson, Attorney for the Recovering Professional Program.

Administrator Simpson stated the **public notice** of the meeting was properly posted at the Board office and provided to organizations and news media in compliance with Section 30-4-80 of the S.C. Freedom of Information Act. A quorum was present at all times.

Review Agenda -- Administrator Simpson reviewed the agenda.

IRC Recommendations – Todd Bond, Investigator

Mr. Bond reviewed his case list. Upon motion by Amick, Seconded by Kinghorn, the Board voted to dismiss Case # 2008-23 and to file a formal complaint in Case #2008-21. Motion carried.

Recovering Professionals Program – Frank Sheheen, Director of Recovering Professional Program, and Rick Wilson, Attorney for the Recovering Professional Program, addressed the Board regarding the Recovering Professionals Program. Mr. Sheheen gave the Board an overview of the program for recovering professionals with addiction problems. Motion by Hodge, Seconded by Huey: Administrator Simpson will initiate paperwork for an applicant to be recommended for the Recovering Professionals Program. SC LLR Director Youmans must approve the request. Motion carried.

Proposed Surveyor degree curriculum to meet licensure requirements -- Vice-Chairman Dinkins reported that Clemson University's Forestry Department has developed and approved a curriculum to meet the requirements for a four year surveying degree for licensure starting fall 2009. Motion by Joye, Seconded by Hodge: To approve the curriculum as satisfying licensure requirements. Motion carried. See attachment.

October Board meeting minutes -- Motion by Amick, Second by Huey to approve the minutes of the meeting on October 14, 2008. Motion carried.

Report on Consent Agreements related to application issues -- The list of Consent Agreements resulting from applications-related issues was reviewed. Member Hodge asked for a report regarding the Application Hearings that have been held in 2008.

Administrator's Report -- NCEES Workshop - Administrator Simpson attended a workshop hosted by NCEES at Clemson for all state board administrators. Key NCEES staff people presented on various topics, and for many, it was an opportunity to meet people with whom they have communicated for years. A tour of most of the facility was one of the highlights of the day-long meeting. MBEs expressed appreciation for the effort and the valuable information received.

October 2008 exams - Administrator Simpson observed the October administration of exams at Jamil Temple, Columbia.

Imaging – The board staff, aided by designated temporary employees, has made huge progress in imaging existing individual license files and firm files into the database system. Now, we are able to access the documents as PDF files in the database for faster status checks and file management. We are in the process of revamping a part of the database to enable applicants to go online to determine what documents we have received and what is missing.

New Employee - We have a new Administrative Assistant, Linda Owens, who will eventually manage the Technology Graduates Portfolio Process, travel reimbursement, assist with Board meetings, applications, and answering the phone. Linda previously worked with other licensing boards and is a welcome addition to the staff. [End of Administrator's Report]

Update on Licensure program for engineering technology graduates – Administrator Simpson reported as of November 18, 2008, 13 individuals have become licensed as Professional Engineers through this process. (Six electrical engineers, 4 civil engineers, and 3 mechanical engineers) An additional 42 individuals have applied and have submitted portfolios or have been approved to submit them. There are 44 PEs in the "reviewers pool" and all have been excellent committee members. Administrator Simpson would like to designate two weeks in the spring and fall for all Committee reviews and interviews.

Motion by Dinkins, Seconded by Hodge: For the Board to provide a status report and licensure statistics to the chairmen of the House and Senate Labor, Commerce and Industry (LCI) Committees and appropriate Subcommittees on the Engineering Technology Program.

The Board will also ask for an opportunity to report personally to the Committee in January 2009. Motion carried.

NCEES Board request to use copies of Iran/Afghanistan university transcripts – The NCEES Center for Professional Engineering Evaluation Services has proposed making an exception to the requirement for original educational transcripts for candidates from universities in Iraq and Afghanistan until stability returns to that region. The Center proposes using copies of transcripts in addition to information that they are able to obtain and which the candidates may provide. Motion by Kinghorn, Seconded by Dinkins: To support NCEES request to accept copies of transcripts from Iran/Afghanistan. Motion carried.

Use of design specifications for water/sewer projects – SC DHEC asked if an engineering firm could prepare standard design specifications (water and sewer) for a Town and then make those specifications available to other engineering firms to utilize when they are designing projects for the Town. The Board concluded that it is acceptable for other firms or individuals to use the “standard design specifications” prepared by one firm. However, the firms or individuals using the “standard design specifications” have some responsibility and liability for those specifications and must ensure they have been thoroughly reviewed for accuracy and appropriateness for the specific project on which they are working.

Ethics courses for PDH or Disciplinary Sanction – Administrator Simpson reported that Texas Tech University offers online ethics courses for Professional Development Hours or for individuals who may need them to meet requirements of disciplinary sanctions.

Proctoring exams for Other States – NCEES’s exam administration division, ELSESES, reported that an unusually large number of individuals were allowed to proctor the Fall 2008 examination in South Carolina. These individuals are candidates of other state boards who asked to take the examination in South Carolina. The Board reviewed information provided by ELSESES. Motion by Kinghorn, Seconded by Joye: To allow proctoring of exams for military personnel who are stationed in South Carolina; all other requests for proctoring will be reviewed by the Board on a case-by-case basis. Motion carried.

Distinguished Service Award Nomination – Motion by Dinkins, Seconded by Amick: To nominate a former Board member for the national Distinguished Service Award. Motion carried.

Board Members PDH Audit – After a brief discussion, the Board decided not to self-audit every renewal period.

Eligibility of Engineering Experience -- An applicant asked if he is eligible to be granted a year of engineering experience for full time engineering work performed during a hiatus from a Masters degree. He did not take any coursework during the period of time he worked.

The Board agreed to count one year experience in such a situation in addition to one year of experience for the Masters Degree.

Election of Board Member Officers – Motion by Huey, Seconded by Amick: To elect Gene Dinkins as Board Chairman. Motion by Huey, Seconded by Amick: To elect Anderson Kinghorn as Board Vice-Chairman. Motion by Huey, Seconded by Kinghorn: To elect Theresa Hodge as Board Secretary. Motions carried. IRC Members election carried over to January 2009.

Disciplinary Flow Chart -- Member Hodge designed a flow chart of disciplinary actions and administrative/licensure actions for the Board's review and discussion. Everyone agreed it helped make sense of a complex set of rules and areas of authority. Attorney Dantzler asked if she could use the flow chart as a teaching tool. See attachment

Proposed Regulations comments – The Board reviewed comments regarding Regulation 49-200 and agreed to recognize degrees in a program accredited by EAC/ABET at either the baccalaureate or masters level.

November 2008 Newsletter Articles -- The Board discussed articles for the November 2008 Newsletter.

Construction Staking Survey Responses – The Board reviewed responses from other states regarding issues related to Construction Staking. See attachment.

Non-Agenda Item – Report on NCEES Computer Based Testing – Vice-Chairman Dinkins reported that the NCEES Computer Based Testing Task Force recently finalized a Request for Information. The Task Force is discussing the benefits, problems, and impediments of computer based testing. The Task Force is meeting again in February 2009. Vice-Chairman Dinkins reported that California, non-ELSES state, might offer their exams once a year due to budget cuts. Vice-Chairman Dinkins proposed uniform exam fees across the United States which is under consideration by the NCEES Board of Directors.

Non-Agenda Item – SCSPE Mentoring – Vice-Chairman Dinkins reported that Joe Gibbons at the University of South Carolina is willing to be a pilot state to have Professional Engineers in South Carolina mentor Fundamentals of Engineers Exam candidates toward taking the Principals and Practice of Engineering Exam.

Non-Agenda Item – The Center -- Vice-Chairman Dinkins reported that The Center for Professional Engineering Education Services in Miami, Florida loses half a million dollars a year and NCEES is closely monitoring its progress toward becoming self-supporting.

Non-Agenda Item – Saudi Arabia – Vice-Chairman Dinkins reported that Henn Rebane, President of NCEES, and Dave Whitman, President Elect of NCEES, will visit Saudi Arabia and Qatar to explore the possibility of administering exams in these areas.

Non-Agenda Item – LEED Task Force – Vice-Chairman Dinkins will chair the LEED Task Force to study the criteria to see if part of the LEED Certification process is the practice of engineering.

Non-Agenda Item – Southern Zone Meeting – Vice-Chairman Dinkins urged everyone to attend the meeting on May 14 through 16, 2009 in New Orleans.

Non-Agenda Item – ACEC National Meeting-- Chairman Love reported that the Institute of Business Management has a new program where Senior Executives of Engineering Consulting firms who have completed a course of study of continuing education will be given the title of MGMT.ENG or EXEC.ENG without being a licensed Engineer. The Institute of Business Management stated that this program was approved by NCEES. Chairman Love cautioned the Institute of Business Management about the use of the title “Engineer” by non-licensed individuals. The Institute of Business Management is going to do a trial run on the use of the title in North Carolina and Nevada.

Non-Agenda Item – Education and Research Funds for Continuing Education activities-- Motion by Dinkins, Seconded by Amick: To approve funding up to \$3,000 for a speaker on health, safety, and welfare topics at the February 2009 SCSPLS meeting. The topics must be approved by the Board. Motion carried. Second Motion by Dinkins, Seconded by Joye: To approve funding up to \$3,000 for a speaker on health, safety, and welfare topics at the SCSPE/ACEC joint meeting in March 2009. The topics must be approved by the Board. Motion carried.

There being no further business, the Board meeting adjourned at 2:30 p.m.

Respectfully submitted,

Melissa D. Jones
Program Assistant

CONSTRUCTION SURVEYS

1. Is Construction Surveys/Stake out considered by your Board as being surveying as defined in your Code and Regulations and therefore requiring Licensure before providing this service?
 - a. Do you have any policy statements regarding such and if so would you share a copy with us?
2. Does your Board Consider the development of electronic data, such as templates, cross sections, Digital Terrain Models, etc. to be used for the purposes of earthwork grading and stake-out to be within the your definition of the practice of land surveying and engineering and must be done under the responsible charge of a Professional Engineer or Professional Land Surveyor."
 - a. Do you have any policy statements regarding such and if so would you share a copy with us?

STATE	RESPONSE TO #1	RESPONSE TO #2
North Carolina	Construction layout and staking that is based on property boundaries and vertical control established in the field by a PLS has not been considered by the North Carolina Board to require a PLS to this point. The Surveying Committee of the Board is reviewing this with respect to the revised definition of surveying in our statute that parallels the NCEES Model Law. At this point we have no policy statements on construction staking and have only provided interpretive letters consistent with the above statement.	Yes. Yes, as stated below the policy as revised on January 10, 2007 (copy of policy is attached): The creation and design of the controls, profiles, and cross sections for the electronic data used in the Digital Terrain Models for the purposes of earthwork grading and stake-out is within the definition of the practice of land surveying and engineering and shall be done under the responsible charge of a Professional Engineer or Professional Land Surveyor.
Georgia		
Alabama		
Mississippi		
Texas		
Oklahoma	No	No
Arkansas	No	No
Kentucky	No	See attached policy. We consider the development (design) to be the practice of engineering or surveying; not the loading of the information into the equipment or the running of the equipment.
Tennessee		
Louisiana		

FOREST RESOURCE MANAGEMENT
Bachelor of Science
Land Surveying Emphasis Area

Freshman Year

First Semester

3 - BIOL 103 General Biology I
1 - BIOL 105 General Biology Lab. I
4 - CH 105 Chemistry in Context I¹
1 - E N R 101 Intro. to Env. & Natural Res. I
3 - MTHSC 102 Intro. to Math. Analysis
3 - Oral Communication Requirement²
15

Second Semester

3 - BIOL 104 General Biology II
1 - BIOL 106 General Biology Lab. II
4 - PHYS 200 Introductory Physics
3 - ENGL 103 Accelerated Composition
3 - EX ST 301 Introductory Statistics
1 - F N R 102 FNR Freshman Portfolio
15

Sophomore Year

First Semester

4 - F N R 204 Soil Information Systems
2 - FOR 205 Dendrology
3 - FOR 221 Forest Biology
3 - Arts and Humanities (Literature) Req.²
3 - Economics Requirement³
15

Second Semester

3 - ENGL 314 Technical Writing
3 - FOR 206 Forestry Ecology
3 - Arts and Humanities (Non-Lit.) Req.²
3 - Social Science Requirement²
2 - E G 210 Engineering Graphics for Civil Engineering
14

Forestry Summer Camp

2 - FOR 251 Forest Communities
1 - FOR 252 Forest Operations
4 - FOR 253 Forest Mensuration
1 - FOR 254 Forest Products
8

Junior Year

First Semester

2 - FOR 302 Forest Biometrics
3 - FOR 304 Forest Resource Economics
3 - FOR 341 Wood Proc. Pract. in For. Ind.
4 - FOR 413 Integrated Forest Pest Mgmt
3 - FOR 434 GIS for Landscape Planning
15

Second Semester

2 - FOR 308 Remote Sensing in Forestry
3 - FOR 408 Wood and Paper Products
3 - FOR 418 Forest Resource Valuation
4 - FOR 465 Silviculture
2 - AG M 221 Surveying: Earthwork and Area Measurements
14

3 - FNR 490 -- Summer Internship (must be land surveying)
3

2 - FOR 406 Forested Watershed Mgmt.
3 - FOR 415 Forest Wildlife Management
2 - FOR 425 Forest Resource Mgmt. Plans
1 - FOR 498 Senior Portfolio
3 - B E 322 Small Watershed Hydrology & Sedimentology
3 - LAW 333 Real Estate Law
15
130 Total Semester Hours

Senior Year

First Semester

4 - FOR 410 Harvesting Processes
3 - FOR 416 Forest Policy and Admin.
3 - FOR 417 Forest Res. Mgt. and Reg.
2 - FOR 431 Rec. Res. Plan. in Forest Mgt.
3 - FOR 433 GPS Applications
15

Second Semester

1 - F N R 499 Natural Resources Seminar

AG M 221 Surveying: Earthwork and Area Measurements 2(1,3) Fundamentals of surveying relative to earthwork and land area measurements including linear measurements, leveling, angular measurements, and computations. Levels and total stations are used with an introduction to GPS. Preq: MTHSC 102 or 106 or consent of instructor.

E G 210 Engineering Graphics for Civil Engineering 2(1,3) Introduction to engineering graphics principles for civil engineers. Sketching and CAD tools are used to visualize, communicate, and perform graphical analysis of civil engineering problems. Credit toward a degree will be given for only one of E G 208, 209, or 210. Coreq: ENGR 130 or 141.

FOR 308 Remote Sensing in Forestry 2(1,3) Introduction to remote sensing, aerial photo interpretation, computer mapping, aerial photo timber estimating, and geographical information systems. Preq: Forestry summer camp or consent of instructor.

FOR 433, 633 GPS Applications 3(2,3) Develops competence in global positioning system (GPS) technology including theory, methods, and application to natural resources mapping. Topics include basic concepts of GPS; projection systems; types of data; mission planning; and data capture, correction, and export to geographical information systems (GIS). Preq: Senior standing or consent of instructor.

FOR (E N R) 434, 634 Geographic Information Systems for Landscape Planning 3(2,3) Develops competence in geographic information systems (GIS) technology and its application to various spatial analysis problems in landscape planning. Topics include data development and management, spatial analysis techniques, critical review of GIS applications, needs analysis and institutional context. GIS hardware and software, hands-on application. Credit may be received for only one of C R P 434, FOR (E N R) 434.

B E 322 Small Watershed Hydrology and Sedimentology 3(3,0) Fundamental relationships governing rainfall disposition are used as bases for defining the hydrology of watersheds. Emphasizes application of modeling techniques appropriate for runoff and sediment control. Preq: PHYS 122. Coreq: C E 321 or CSENV 202.

LAW 333 Real Estate Law 3(3,0) The nature of real property and means of acquiring rights therein: conveyance of ownership, creation and execution of deeds, mortgages, etc., landlord and tenant relationships, shared concepts, and government regulation.

F N R 490 Field Training in Natural Resources 3(0,9) Four to eight week internship in which students work in natural resources. Students have supervised management responsibility. Total of 135 hours required. Must be arranged at least two months in advance. To be taken Pass/Fail only. Preq: Senior standing in Environmental and Natural Resources, Forestry, or Wildlife and Fisheries Biology, or consent of instructor.

