November 6, 2014

To: Office of Graduate and Professional Studies

Thru: Dr. David Reed
Assoc. Dean, COALS

From: Dr. Wayne Smith
Associate Department Head

The Department of Soil and Crop Sciences would like to nominate Douglas Smith for Graduate Faculty. Details supporting this nomination can be found in the Curricula Vitae. Dr. Smith meets the Office of Graduate and Professional Studies guidelines by:

Graduate student advisory committees:

Student: Shalamar Armstrong
Institution: Purdue University
Degree: PhD
Major: Soil Science

Dr. Smith also has 59 refereed publications and his latest publication as senior author is:


Dr. Smith will make significant contributions to the graduate program in Soil and Crop Sciences by providing his expertise in the conduct of research in his scientific discipline.

We request that Dr. Douglas Smith be named as an Adjunct member of the Graduate Faculty at Texas A&M University.
Office of Graduate and Professional Studies

Graduate Faculty Personal Record Form

Nominating Unit: Department of Crop and Soil Sciences
Mail Stop: 2474

Name of Nominee: Douglas R. Smith

Department or Employer of Nominee (if not TAMU): USDA-ARS
Email Address: douglas.r.smith@ars.usda.gov

Physical Address: 808 East Blackland Rd., Temple, TX 76502-6712
Academic Rank or Position Title: Research Soil Scientist

Date of Appointment to TAMU (if applicable): 
Tenured or Tenure Track at TAMU: ☐ Yes ☐ No

Gender: Male ☐ Female ☐

Educational Background (Please specify all advance degrees received)

<table>
<thead>
<tr>
<th>Degree</th>
<th>Institution</th>
<th>Date Awarded</th>
<th>Major Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD</td>
<td>University of Arkansas</td>
<td>Aug 2002</td>
<td>Soil Science</td>
</tr>
<tr>
<td>MS</td>
<td>Texas A&amp;M University - Commerce</td>
<td>Aug 1999</td>
<td>Agriculture</td>
</tr>
<tr>
<td>BS</td>
<td>Texas A&amp;M University - Commerce</td>
<td>Aug 1997</td>
<td>Animal Science</td>
</tr>
</tbody>
</table>

Indicate what activities the appointed faculty member will participate in (check all that apply).

☐ Teaching Graduate Course(s) ☐ Chair of Graduate Student Advisory Committee(s) ☐ Co-Chair or Advisory Committee Member

Indicate the Membership Status being proposed for this faculty member.

Membership status is associated with the function to be served by the appointees to the graduate faculty through continuous participation in graduate degree programs of the nominating unit by teaching graduate courses and/or serving on graduate advisory committees. Nomination for membership on the Graduate Faculty is always initiated by the head of the appropriate academic unit of Texas A&M. The eligibility criteria of each membership status are outlined below.

☐ Member

Eligibility: Tenure track and tenured faculty members of Texas A&M University, non-tenure track individuals with professorial rank in engineering and employed by Texas A&M University at Qatar, or non-tenure track individuals employed by TAMU, Texas AgriLife Research or Extension, TEES, TEEX, or TTI with professorial rank; who hold the highest earned degree common to that person's discipline, with a sufficient record of scholarly achievement.

☐ Associate Member

Eligibility: Any TAMU faculty member (as permitted by the department or college's policy) or professional staff employed by TAMU, Texas AgriLife Research or Extension, TEES, TEEX, TTI, or employees of federal and state agencies located in the College Station area; who hold the highest earned degree common to that person's discipline; and with a sufficient record of scholarly achievement.

☐ Adjunct Member

Eligibility: Recognized scholars who do not hold a permanent appointment to the faculty (including visiting and adjunct academic appointments) of this University, but who otherwise meet the basic requirements for the status of Member of the Graduate Faculty.

☐ Special Appointment

Eligibility and Function: Recognized scholars appointed to serve on a student's Advisory Committee or to teach a graduate course without being permanently on the Graduate Faculty. A qualified individual employed by another university, the government or in industry that holds Special Appointment status and who serves on a Graduate Advisory Committee is not counted toward the minimum number of graduate faculty necessary to form the committee. The nominating unit must provide below the name and UIN of the one specified student's advisory committee or the information for the specified teaching assignments and the length of time (e.g., for one semester or one or two years) for that specified teaching assignments.

Course Number(s): ___________________________ Academic Year(s): ___________________________

Student Name: ___________________________ UIN: ___________________________
Each nomination must be accompanied by the following materials:

a) For individuals who are requesting Associate or Adjunct Membership and not TAMU tenure or tenure-track, a letter from the nominating unit Head or Chair through the Associate Dean/ Director summarizing the background of the nominee (emphasizing recent activities in graduate student mentoring, teaching of graduate courses, graduate program administration, and scholarly work published as the primary or corresponding author or appropriate evidence of professional accomplishment related to the discipline) and the contributions he/she is expected to make to the graduate education. Individuals who are requesting Special Appointment Membership, a letter from the nominating unit Head or Chair outlining the reason (e.g. teach graduate course or serve on student advisory committee) for the request as well as the duration of the term and the merits of the individual being nominated.

b) Complete a current curriculum vita that shows TAMU appointment if applicable - This includes documentation of all publications and graduate education activities. Biosketches will NOT be accepted.

Completed nominations should be submitted to the TAMU Office of Graduate and Professional Studies.

Signature Requirements:
The Authorized Signer of Nominating Unit signature is required on all the requests. The Graduate Instruction Committee Chair and Dean of College signatures are required on all requests for Associate Membership, Adjunct Membership and on all requests for Membership for non-tenure track faculty or staff (with the exception of requests for Membership for tenure or tenure track faculty or staff and Special Appointment, which require only the signature of the Authorized Signer of the Nominating Unit).

Approval Recommended By (Each signature is a confirmation of the nomination and the accuracy of all support documentation):

Authorized Signer of Nominating Unit: [Signature] Date: 11-6-14
Graduate Instruction Committee Chair: _______________________________ Date: ______________
Dean of College: _______________________________ Date: ______________

Approved By:

Associate Provost of Graduate and Professional Studies: _______________ Date: _______________
Summarized from the Vita, present evidence that

(a) the nominee

(1) has taught a graduate class, or
Title Institution When/Times Taught

(2) has actively served on a graduate student's advisory committee, or
Student Institution Degree Major
Shalamar Armstrong, Purdue University, PhD, Soil Science

(3) has held a definite administrative assignment in the graduate program of a university; and that

(b) the nominee has published a scholarly work as primary author (or, in the case of a professional discipline, has exhibited appropriate evidence of professional accomplishment). (Most notably list refereed scientific articles as primary author.)

Douglas R. Smith

Home

Work

275 S. Russell St.
West Lafayette, IN 47907
765-494-0330
Douglas.R.Smith@ars.usda.gov

Education:

Ph.D. in Soil Chemistry 2002
Dept. of Crop, Soil and Environmental Sciences, University of Arkansas
Dissertation Title “Reducing phosphorus solubility through diet modification and treatment of manure with aluminum amendments.”

M.S. in Agriculture 1999
Dept. of Agricultural Sciences, Texas A&M University – Commerce
Thesis Title “Rate of Bulking agent utilization for on-site, in-vessel, mechanical composting of institutional food residuals.”

B.S. in Animal Science 1997
Dept. of Agricultural Sciences, Texas A&M University – Commerce

Experience:

Research Soil Scientist 2014 to Present
Grassland, Soil and Water Research Laboratory
Plan and conduct research on landscape scale nutrient fate and transport. Develop conceptual models and algorithms to improve predictive capabilities of water quality models.

Lead Scientist 2007 to 2012
Research Soil Scientist 2002 to 2014
National Soil Erosion Research Laboratory, USDA-ARS
Plan and conduct research on fundamental processes of nutrient runoff losses and soil erosion. Determine the effects of cropping systems on sediment, nutrient and greenhouse gas emissions and soil quality. Develop and assess best management practices in rural and urban landscapes to reduce pollution potential.

Adjunct Professor 2013 to Present
Adjunct Associate Professor 2007 to 2013
Adjunct Assistant Professor 2002 to 2007
Department of Agronomy, Purdue University
Participate in graduate student committees, and coordinate with University faculty on research projects and proposals.

Graduate Research Assistant 1999 to 2002
Dept. of Crop, Soil and Environmental Sciences, University of Arkansas

Graduate Assistant 1997 to 1999
Dept. of Agricultural Sciences, Texas A&M University – Commerce
Publications and Professional Presentations:

Refereed Journal Articles


37. Smith, D.R., P.R. Owens, A.B. Leytem and E.A. Warnemuende. 2007. Nutrient losses from manure and fertilizer applications as impacted by time to first runoff event. Environmental Pollution. 147:131-137.


Refereed Publications in Progress


Invited Book Chapters


Refereed Publications in Conference and Symposium Proceedings


Publications in Conference and Symposium Proceedings


Invited presentations


3. **Smith, D.R.** and K. King. 2013. ARS tile drainage research and findings on dissolved reactive phosphorus movement through drainage tiles. Presented at the Western Lake Erie Basin Leadership Team meeting. Toledo, OH. June 20, 2013.


**Research Abstracts**


3. **Smith, D.R.** 2013. Opportunities and challenges in the St. Joseph River Watershed: Plugging some loads in the systems while new leaks are found. American Society of Agricultural and Biological Engineers annual meetings.


runoff loss. In Annual Meetings Abstracts [CD-ROM]. ASA, CSSA, SSSA. Madison, WI.


Watershed. In Annual Meetings Abstracts [CD-ROM]. ASA, CSSA, SSSA. Madison, WI.


83. **Smith, D.R., P.A. Moore, Jr., C.V. Maxwell, and T.C. Daniel. 2001.** Aluminum chloride and dietary phytase to reduce phosphorus runoff in swine manure. *In Annual Meetings Abstracts [CD-ROM]*. ASA, CSSA, SSSA. Madison, WI.

**Other Professional Presentations**


Technical Reports:

Fact Sheets:

Courses Taught:
Introduction to Soils Discussion
Introduction to Agriculture
Greenhouse Management Lab

Professional Development:
SERA-17: Elected to serve as Chair

Associate Editor:
Journal of Environmental Quality
Journal of Soil and Water Conservation (Invited to serve as Associate Editor for selected papers from the symposium “Improved Management of Agricultural Drainage Ditches for Water Quality Protection”)

Symposia Organized/Sessions Moderated
Organized a symposium titled “Phosphorus Fate, Management and Modeling in Artificially Drained Systems” and moderated a session on “Case Studies” at the 2013 ASA/CSSA/SSSA Meetings in Tampa, FL, November 3-6, 2013.


Moderated 2nd session of the ARS Conservation Effects Assessment Project at the 2009 Soil and Water Conservation Society meeting in Dearborn, MI, July 13, 2009.


Peer reviewed manuscripts for the following Journals:

1. Soil Science Society of America Journal,
2. Journal of Environmental Quality,
3. Transactions ASAE,
4. New Zealand Journal of Agricultural Research,
5. Journal of Soil and Water Conservation,
6. Agronomy Journal,
7. Communications in Soil Science and Plant Analysis,
8. Water, Air and Soil Pollution,
9. Catena,
10. Advances in Water Resources,
11. Pedosphere,
12. Rangeland Ecology and Management,
13. Journal of Spatial Hydrology,
14. Environmental Science and Technology

Other Skills and Qualifications:

Laboratory Equipment:

- Perkin Elmer 2000 ICAP Optical Emission Spectrometer
- Varian Saturn 2200 Gas Chromatograph/Mass Spectrometer
- Varian CP-3800 Gas Chromatograph
- Technicon Autoanalyzer II
- Skalar SAN+ Automated Wet Chemistry Analyzer
- Skalar FORMACS™ Analyzer
- LECO CNS-2000
- Spectro ICAP Optical Emission Spectrometer

Computer Software:

- SAS 8.2
- JMP 10.0
- Sigmaplot
- MinteqA2
- Microsoft Office (Word, Excel, PowerPoint)
- Corel WordPerfect

Awards, Honors and Activities:
Professional Society Membership:
Soil Science Society of America
American Society of Agronomy
North American Benthological Society
European Geosciences Union
Indiana Water Resources Association
American Society of Animal Science
American Society of Agricultural Engineers

Awards:
Gamma Sigma Delta Honor Society.
Texas A&M University – Commerce 2002 Alumni Ambassador