

**Name:** William P. Miller

**Rank:** Professor

% Salary Budgeted: Instr. 60 Res. 40 Ext. Outreach



**Program Overview:** Teaching and research in soil science, with emphasis in soil erosion and conservation with secondary specialization in soil chemistry. Instruction includes introductory soil science course, as well as courses in soil conservation, chemical analysis, and soil physical chemistry. Research areas include erosion mechanics and sediment control, trace metal chemistry, and use of industrial byproducts in agriculture and horticulture.

**Education:**

B.S., Agronomy (Environmental Science), Purdue University, 1975

M.S., Agronomy (Soil Science), Purdue University, 1978

Ph.D., Agronomy (Soil Chemistry), Virginia Polytechnic Institute and State University, 1981

**Employment:**

Assistant professor, University of Georgia, 1981-1988

Associate professor, University of Georgia, 1988-1993

Professor, University of Georgia, 1993-present

**Membership in Professional Societies:**

Soil Science Society of America

**Awards:**

None

**Contributions to Teaching;**

(1) Undergraduate/Dual Level

<u>Course # and Title</u>	<u>Times taught (Sp &amp; Fall)</u>	<u>Avg. # of Students</u>
CRSS/FORS 3060 (Soils & Hydrology)	Fall and Spring annually	175/yr
CRSS 4660/6660 (Chemical Analysis)	Spring annually	15/yr
CRSS 4580/6580 (Erosion and Cons.)	Fall annually	15/yr
CRSS 4670/6670 (Soil Chem.)	Spring 2006	14

(2) Graduate

<u>Course # and Title</u>	<u>Times taught (Sp &amp; Fall)</u>	<u>Avg. # of Students</u>
CRSS 8000 (Soil Physical Chemistry)	Fall alternate years	5/yr

(3) Service on Graduate Advisory Committees (1/2000 to 6/2006)

<u>Degree (MS/Ph.D)</u>	<u>Involvement (member/chair)</u>	<u># of students</u>
MS	Chair, completed	2
MS	Member, completed/continuing	6 (est.)
PhD	Chair, completed	3
PhD	Member, completed/continuing	6 (est.)

**Contributions to Research and Other Creative Activities:** (1/2000 to 6/2006)

No. of books: 0

No. of book chapters: 7

No. of refereed papers: 12

No. of proceedings papers: 0

No. of abstracts: 6 (est.)

No. of Patents/PVP: 0

Other activities:

Textbook development, *Soils and Hydrology*

Website development, "Coal Combustion Products in Agriculture"

Website development, "Soils and Hydrology" CRSS/FORS 3060

**Contributions to Extension:**

None

**Sources of Grants/amounts:**

US Agency for International Development: \$110K, 2000-2003

Southern Company Services/Georgia Power Co: \$250K, 2000-2005

**Contributions to Professional Service:** (committee service to department, college, university, and/or professional societies)

: Member, Graduate Committee (dept)

: Member, Greenhouse Committee (dept)

: Officer, Soil Science Society of Georgia

**Goals for the Next Five Years:**

*Teaching:* Complete textbook revision for CRSS 3060 (Soils and Hydrology), publish with commercial publisher or self-publish. Revise web site for use with text. Assist in development/promotion of environmental chemistry major with department, including course development (Chemical Analysis course revision/update). Develop service courses (in cooperation with other faculty) for other undergrad majors and grad students in related disciplines (Ecology).

*Research:* Develop manuscripts of unpublished grad student projects (6-8). Conclude work on industrial byproducts, prepare review paper (in conjunction with web site) summarizing past 15 years work with gypsum, fly ash. Pursue funding related to trace metal chemistry/toxicity in soils (arsenic) with EPA.