WILLIAM C. LINDEMANN

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EDUCATION:

INSTITUTION	DEGREE	YEAR	MAJOR/MINOR
Southern Ill. Univ.	B.S.	1970	Plant Industries
Univ. of Minnesota	M.S.	1974	Soil Science/Biochemistry
Univ. of Minnesota	Ph.D.	1978	Soil Science/Plant Physiology

EXPERIENCE:

1970-1972	US Army
1972-1974	Research Assistant, University of Minnesota
1974-1975	Research and Production Assistant, Research Seeds, Inc., St. Joseph, MO.
1975-1977	Research Assistant, University of Minnesota
1978-1979	Visiting Assistant Professor, NMSU
1980-1985	Assistant Professor, NMSU
1985-1990	Associate Professor, NMSU
1991-Present	Professor, NMSU

As a twelve month employee at NMSU, I hold a joint teaching/research appointment that is funded by Instruction and General Funds and the New Mexico Agricultural Experiment Station. My official teaching and research appointment has changed from about 60% research-40% teaching to about 75% teaching-25% research and service most recently. Some of the change in appointment has been partially the result of my design, particularly the efforts in the managing the Environmental Science program, and partially due to retirement of faculty in the soil fertility area where I have had to cover in terms of teaching and expertise.

RESEARCH: Research interests include general aspects of soil microbiology-biochemistryfertility, particularly how soil microbial processes influence plant growth and environmental contamination. Of particular interest are nodulation and N₂ fixation of legumes, N mineralization and transformations in green manures, biosolids and manure amended soils, N cycling in agricultural and natural ecosystems, reclamation of disturbed lands, and microbial manipulation of contaminated soils. I prefer working in the more applied aspects of soils in the agronomic setting rather than the natural setting. My current project includes the ¹⁵N use efficiency of chile and the carryover of the ¹⁵N in field residues to the following crop. I have worked and published with scientists from the Texas A & M Research and Extension Campus at El Paso, University of New Mexico, and most of the agricultural science centers in NM. I have had more research projects at the agricultural science centers than any other faculty in the department. Research has had a direct impact on the mining and agricultural industries. Publications (in print) include 49 refereed journal articles, 6 book chapters, numerous proceedings and symposia, and numerous other technical presentations / abstracts / experiment station bulletins / extension service publicans / misc. publications. I have only included those publications since 1991 and have omitted abstracts and other minor communications.

Research service at the national level is oriented towards editorship of journals, review panels, and serving national science societies. Local research service has been towards solving agricultural and environmental problems associated with soils, cropping systems, and reclamation of disturbed/contaminated lands.

TEACHING (35% of Time): Generally, the formal teaching load is 3-9 credits/semester and I have formally taught at least one 3 credit course for 63 of the 64 semesters I have been at NMSU. The only semester I did not teach a formal class was when I developed the Environmental Science Baccalaureate program. Courses taught include Soil Microbiology, Soil Microbiology Laboratory, Environmental Soil Science, Introductory Soil Science, Introductory Soil Science Laboratory, Soilplant Relationships, Advanced Soil Microbiology, and numerous special problems, internships, apprenticeships, and cooperative classes. In Spring 2006, I have taken over the teaching of Soil Fertility and Soil Fertility Laboratory. I have taught Soil Microbiology 4 times via live TV to numerous locations in NM (UNM, NM Tech, Sandia National Labs, Los Alamos National Labs, etc.) and once to Texas Tech in Lubbock, TX with highest reviews. Additionally, I taught a short soils course via TV to 6 national laboratories out of Sandia National Labs and funded by the US Department of Energy and the Waste Education and Research Consortium. I am a former advisor to the Plant and Soil Association (undergraduate club) and Plant and Environmental Sciences Graduate Student Organization, and I am the current advisor to the Environmental Science Student Organization (undergraduate club). I was awarded the College of Agriculture and Home Economics Teaching Award.

I developed and remain the program coordinator of the Environmental Science program leading to a B.S. in Environmental Science, the only undergraduate, interdisciplinary baccalaureate degree at NMSU. The formal Internship program was developed within the Environmental Science degree program. Approximately 42 MS and PhD students and 3 post-doctoral students have been graduated. I formally advise about 20-25 undergraduates in the Environmental Science and Soil Science degree programs and formally advised in the Agronomy degree program. I am actively involved with national certification for students and have proctored the National Soil Science Certification Exam and the National Certified Professional in Erosion and Sedimentation Control Exam.

DEPARTMENT SERVICE:

Service includes Plant and Environmental Sciences Academic Head Advisory Group, Curriculum Committee, Tenure and Promotion Committee, Recruitment Committee, and many other committees and subcommittees in the department, including chair of all of them at one time. I have been the mentor of 4 junior faculty as they went through the Promotion and Tenure process and I am currently mentoring a new faculty member. I have recruited extensively for the Environmental Sciences degree programs via high school presentations. I was awarded the Department of Plant and Environmental Sciences Service Award.

COLLEGE SERVICE:

Service to College of Agriculture and Home Economics includes the Tenure and Promotion Committee, Curriculum Committee, Peer Parity Committee, Long Range Planning Committee, Budge Reduction Committee, Strategic Planning Committee, and many other committees and subcommittees in the college including search committees for the Dean, Associate Deans, Department Heads, and off campus superintendents and faculty for research and extension positions.

UNIVERSITY SERVICE: University wide service has included The University General Education Committee, two terms as Faculty Senator, University Research Council, Graduate School Council (Chair and Vice-Chair), University Appeals Committee, University Patent Committee, North Central Accreditation Review Committee, Advisory Council for University Policy, and numerous other lesser committees/subcommittees. I have served on Tenure and Promotion Committees for the College of Health and Social Services.

PROFESSIONAL SERVICE: Numerous consulting activities including local, state and federal government as well as private companies in the capacity of soil scientist, agronomist, environmentalist, and microbiologist. Other professional service has included numerous committees within the American Society of Agronomy, Soil Science Society of America, and, to a lesser extent, American Society for Microbiology. I have served the agricultural interests in the state by giving several extension talks to clientele groups every year and have worked closely with the pecan industry in New Mexico, West Texas, and Arizona the last 12 years. I am actively involved with the Western Pecan Producers, NM Pecan Producers, Arizona Pecan Producers, and the NM Chile Association. I am a featured speaker and give formal presentations for the City of Las Cruces "Lush and Lean" programs and the "Master Gardner" program. I was a formal reviewer of academic, research, and service programs of the Department of Plant and Soil Sciences at Southern Illinois University with regards to their academic and research programs.

PROFESSIONAL CERTIFICATION:

ARCPACS Certified Professional Soil Scientist ARCPACS Certified Professional Agronomist/Crop Advisor

PROFESSION SOCIETIES: American Association for the Advancement of Science, American Peanut Research and Education Society, American Registry of Certified Professionals in Agronomy, Crops, and Soils, American Society for Microbiology, American Society for Alternative Agriculture, American Society of Agronomy, Gamma Sigma Delta, New Mexico Academy of Science, Sigma Xi, and Soil Science Society of America. Fellow - Soil Science Society of America

EDUCATIONAL TESTING EXPERIENCE: Wrote performance objectives, wrote questions, evaluated performance objectives and questions, and was a member of the committee that established the national exam for professional soil scientists (Soil Science Examiners, Soil Science Society of America).