

CURRICULUM VITAE

Richard D. Seifert

PERSONAL:

Birth date: September 9, 1948
Place: Quakertown, Pennsylvania
Residence: 475 Panorama Drive, Fairbanks, Alaska 99712
Mailing Address: P.O. Box 10935, Fairbanks, Alaska 99710

EDUCATION:

B.A. 1970 Physics, West Chester State College, West Chester, Pennsylvania
M.S. 1973 Engineering Physics, University of Alaska Fairbanks, Fairbanks, Alaska

PROFESSIONAL EXPERIENCE/EMPLOYMENT:

July 1, 1995 - Present

Promoted to Full Professor, Cooperative Extension Service, University of Alaska.

July 1, 1988-1995

Associate Professor of Engineering Extension, Cooperative Extension Service, University of Alaska Fairbanks, Fairbanks, Alaska 99775-5200. Tenured, May, 1992.

January 25, 1982- July 1, 1988

Research Associate and Assistant Professor at the Water Research Center, University of Alaska, Fairbanks, Alaska 99775-1760 (25% time, joint appointment) and 75% Assistant Professor in the Cooperative Extension Service, University of Alaska.

August 20, 1973-January 1982

Research Associate, Institute of Water Resources, University of Alaska, Fairbanks, Alaska (now the Water Research Center, UAF)

November 1972-August 1973

While seeking employment as post-graduate in industry, worked as an electrical groundsman on an electrical construction crew until I got the job at IWR (listed above).

August 1970-November 1972

Graduate student and teaching assistant, physics department, University of Alaska, Fairbanks.

I. TEACHING AND INSTRUCTIONAL ACTIVITIES:

Teaching in the context of the Cooperative Extension Service includes: non-credit courses, workshops, TV/Radio programs, personal/telephone consultation, special projects, guest lectures in formal UAF or other courses and institutions, and authorship of newspaper columns or articles.

A. Teaching formal and informal instructional activities: Description and Evaluation:

Teaching is 30% of my faculty workload, and it is manifested in teaching some guest lecture roles on campus, but mainly is devoted to the teaching of off-campus adult, public service teaching exemplified by my Cold Climate Homebuilding Techniques course, taught all around the state, ~15 times per year. Each course is 7 hours, and results in 2100 contact hours per year of teaching effort. I am consistently sought as an instructor and am rated very good to excellent by my students, rated 4.5-4.7 consistently in the instruction of these classes, using a scale of 0-5.

During 2002-2004 teaching season I added a slate of courses entitled "Solar Energy for Alaskans", taught 6-10 times, and funded for FY2004 by Alaska Housing finance Corporation. This was not only opportune, but demonstrates both their confidence in Cooperative Extension and me, and the need to deliver this information to Alaskans. Also added was a contract to develop a new teaching and vocational education manual for Alaska, funded as a part of my contract from Alaska Housing Finance Corporation. This is a multi-year project and will result in a new teaching manual for my cold and marine climate housing workshops as well as a widely applicable manual for professional contractor licensure courses and vocational education. \$30,000 of a total of \$115,000 from AHFC.

1996/
2002

Worked with National Indoor Air Quality curriculum group, during entire period (April-December 1996), and intensively during June 26-29, at Big Sky Montana, for radon curriculum development for national EPA/REESUSDA collaborative work to bring Extension system into the delivery of Indoor Air Quality educational programs.

Special Faculty Advising Role: At the request of the student members of the Sustainable Campus Task Force, I now serve as the Faculty advisor for the student organization, Sustainable Campus Task Force, from December 2002 to present.

RESEARCH AND SCHOLARLY ACTIVITY:

2002-04 Energy Efficient Housing Education Grant continues through June 2004, AHFC, \$115,000. Radon grant, and several small Indoor air quality projects funded through EPA/HUD USDA Total funding, \$34,000.

Solar Grant from Million Solar Roofs coalition funds, USDOE, \$25,000, 2002 only.

Several small Indoor Air Quality grants, from HUD, USDA-CSREES, and Energy Star/EPA, totaling \$6000 for 2002-03.

PUBLICATIONS:

BOOKS/CHAPTERS IN BOOKS:

Seifert R.D., "A Solar Design Manual for Alaska", 2nd edition, new charts and revisions, 116 pages, October, 2002.

Seifert, R. D., et al , Teaching Manual for "National Healthy Indoor Air for America's Homes" a collaborative effort of USDACREES and the USEPA, authored the radon unit, for both the 1995 edition and the 1999 revised and updated edition, as well as the first edition's Building Science Chapter. Nationally used within USDA Extension as a "Train-the Trainers" Manual.

Seifert, R.D., A Solar Design Manual for Alaska, Bulletin of the Institute of Water Resources, University of Alaska, Fairbanks, volume 1, 1981, 168 pp.

Seifert, R.D., and L.P. Dwight, Builder's Guide to Water and Energy, Institute of Water Resources, University of Alaska, Fairbanks, Report IWR-100, 1980.

Contribution to Chapter 7, "Solar Energy", in Energy Alaska, 1984 by Dr. T. Neil Davis, University of Alaska Press, p. 231-256

Alaska Craftsman Home Program Manual, technical editor, responsible for chapter and subject plan, technical review. 1986 and 1987. Published in October, 1988. 530pp with appendices.

Seifert, R.D., and J.P. Zarling, "Solar Energy Resource Potential for Alaska," Institute of Water Resources, University of Alaska, Fairbanks, report IWR-89, 1978.

Seifert, R.D., and M.S. Murray, Proceedings: A Town Meeting On Energy, Institute of Water Resources, University of Alaska, Fairbanks, report IWR-83, 1977.

Seifert, R.D., "The Structure of Shorefast Ice off the North Slope of Alaska," M.S. Thesis, University of Alaska, May 1973.

REFEREED JOURNAL PUBLICATIONS:

Dr. R. A. Johnson, Jack W. Schmid, and R. D. Seifert, (2002), Indoor Air Quality Issues in Interior Alaska, accepted for publication in the A.S.C.E. Journal of Cold Regions Engineering, after full peer review, published in December 2002, journal edition.

Seifert, R.D., (1992) "Performance of Alaska Craftsman Homes: One year of the Real World" in Proceedings, ACEEE Summer Study on Energy Efficiency in Buildings, Volume 4: Residential Performance: Analysis and Measurement, pp. 4.227-4.234.

Jayaweera, K.O.L.F., R.D. Seifert, and G. Wendler, "Satellite Observations of Tolbachik Volcano," Transactions of the American Geophysical Union, volume 57, number 4, April 1976, pp. 196-200.

PUBLIC SERVICE IN A PROFESSIONAL CAPACITY:

Fairbanks Memorial Hospital Foundation Board Membership and Service

Currently serving a sixth three-year term (2002-2005) on the Fairbanks Memorial Hospital Foundation Board. It has a construction committee which meets at least monthly to oversee and approve actions with regard to construction and maintenance of the hospital. As the hospital is probably the most complex and critical building in Fairbanks, my position on the construction committee is highly valued by the committee, and I serve as its building science consultant and advisor on many technological issues. The duties on the Hospital Foundation have led me to a continuing responsibility on the construction committee overseeing the construction of the new Denali Center.

Radon response for Alaska has through my leadership, made me a major technical and information resource person with knowledge of the radon issue, and CES now has the following public service information capabilities:

- A. A radon information pamphlet advising citizens on how to test for radon, where to obtain tests, risk analysis and consumer information on radon kits to assure quality test kits.
- B. In a cooperative relationship with the state of Alaska's radiological physicist with the Department of Health and Social Services, CES offices in Fairbanks make available for purchase 90-day, long term, etch track kits for radon testing. This is advisable since Fairbanks has shown to be a radon hotspot. This cooperative radon test agreement has been in place since 1993. CES staff statewide have been trained for radon inquiry response. Demand for radon information in 1988, especially after the September EPA radon test announcement, grew rapidly. The inquiry load has been shifted to the Fairbanks offices to a large degree, where it is being handled by the staff and me.