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PROFESSIONAL EXPERIENCE

Woodrow Wilson Senior High School, D.C. Public Schools, Washington, D.C.
Biology Teacher, 1990-present

Spingarn Senior High School, D.C. Public Schools, Washington, D.C.
Biology, Physics and History Teacher, 1989-1990

National Institutes of Health, National Heart, Lung and Blood Institute (NHLBI), Bethesda, MD
Laboratory of Kidney and Electrolyte Metabolism
Senior Staff Fellow, 1986-1988

Yale University School of Medicine, Department of Physiology, New Haven CT
Associate Research Scientist, 1984-1986
Postdoctoral Fellow, 1982-1984

National Institutes of Health, National Heart, Lung and Blood Institute (NHLBI), Bethesda, MD
Laboratory of Kidney and Electrolyte Metabolism
Biologist (Graduate Student at George Washington University), 1977-1982

TEACHING EXPERIENCE

Woodrow Wilson High School

Advanced Placement Biology, Anatomy/Physiology, Zoology, Biology I, Biology II, English as a Second Language Biology I, Space Atmosphere and Ocean Science, Laboratory Skills, 1990-present

Spingarn Senior High School

Biology I, Physics, US History, World History, 1989-1990

Guest Lecturer

Gastrointestinal physiology to physician associates, Yale Medical School, 1985

Unit on cell volume regulation in graduate course on pH regulation, Yale Medical School, 1985

Unit on renal physiology to medical students, University of Maryland Medical School, 1985

EDUCATION

Ph.D., Physiology, The George Washington University School of Medicine, Washington, D.C., 1983

AB, Biology, Oberlin College, Oberlin, Ohio, 1972

Graduate courses, Sloan School of Hospital and Health Services Administration, Cornell University, Ithaca NY, 1973-1974

Courses required for secondary education teaching certification, University of the District of Columbia, Washington, D.C., 1989

Courses on teaching science, Catholic University, 1990-1991

One week Summer Institute on Teaching AP Biology, University of Delaware, June, 1993

One week Summer Institute on Biotechnology, Georgetown University Medical School and Howard Hughes Medical Institute Summer Teacher Fellowship, June, 1995

TEACHING CERTIFICATION

Certified in Secondary Biology in Washington, D.C.

AWARDS

Middle States Regional Assembly of the College Board Advanced Placement Recognition Award,
February 14, 2002
Bernice Lamberton Award for Teaching of Science in High School, Washington Academy of Sciences,
May 17, 2000
Postdoctoral fellowship, National Institutes of Health National Research Service Award (AM 07062),
1983-1985
Postdoctoral fellowship, American Heart Association, Connecticut Affiliate, 1982-1983

PROFESSIONAL AFFILIATIONS

National Biology Teachers Association (NABT)

PRESENTATIONS AT NATIONAL MEETINGS

Siebens, A.W., Various presentation titles, National Association of Biology Teachers (NABT) national meetings, Fall 2006, 2004, 2002, 2001, 2000, 1999, 1995.

Siebens, A.W., “Bio-Rhythms: Music + Biology = Fun + Increased Learning.” National Science Teachers Association (NSTA) regional meeting, Richmond, VA, December, 2004.

PUBLICATIONS

Thesis

Siebens, A.W. 1983. Volume regulatory mechanisms of Amphiuma red cells. Ph.D. Dissertation, The George Washington University, Washington, D.C.

Compact Disks and Audio Tapes

Siebens, A.W. Dr. Art the Singing Scientist, Bio-Rhythms III—Anatomy&Physiology Plus. Compact disk, 2004.

Siebens, A.W. Dr. Art the Singing Scientist, Bio-Rhythms I&II—Sing Your Way to an “A” in Biology, Compact disk, 1999.

Siebens, A.W. Dr. Art the Singing Scientist, Bio-Rhythms I, audio tape, 1995.

Articles

Siebens, A.W., and F.M. Kregenow, 1985. Volume regulatory responses of Amphiuma red cells incubated in anisotonic media—the effect of amiloride. J. Gen. Physiol. 86:527-564. *Two other articles on ion transport in red cells.*

Siebens, A.W. and W.F. Boron, 1987. Effect of luminal and basolateral lactate transport on intracellular pH in salamander proximal tubules. J. Gen. Physiol. 90:799-831. *Four other articles on intracellular pH in renal tubules.*

Siebens, A.W., and K.R. Spring. 1989. A novel sorbitol transport mechanism in cultured renal papillary epithelial cells. Am. J. Physiol. 257:F937-F946.

Book Chapter

Siebens, A.W. 1985. Cellular volume control. In: The Kidney: Physiology and Pathophysiology, D.W. Seldin and G. Giebisch, editors. Raven Press, New York. People.91-115.