

Curriculum Vitae
of
A. Craig Powell, Ph.D.

OBJECTIVE: Maintain a vigorous teaching program (focus on analytical chemistry) at the college/small university level, while continuing exploration of research interests.

EDUCATION:

1993 **Doctor of Philosophy (Chemistry)**
UNIVERSITY OF TENNESSEE, KNOXVILLE
Knoxville, Tennessee

1986 **Bachelor of Science in Chemistry and in Mathematics
(magna cum laude)**
PRESBYTERIAN COLLEGE
Clinton, South Carolina

CURRENT MEMBERSHIPS:

American Chemical Society

EXPERIENCE:

Spring 07 to present **Faculty Athletic Representative**
PRESBYTERIAN COLLEGE
Clinton, South Carolina

Fall 02 to Spring 10 **Department Chair**
CHEMISTRY DEPARTMENT
PRESBYTERIAN COLLEGE
Clinton, South Carolina

Fall 91 to present **Instructor (91-93) / Assistant Professor (93-97) / Associate Professor
(97-06) / Professor (06-present) - General and Analytical Chemistry**
PRESBYTERIAN COLLEGE
Clinton, South Carolina

Fall 86 to Summer 91 **Graduate Teaching Assistant - General and Analytical Chemistry
Graduate Research Assistant - Mobile Phase Modification in
Micellar Electrokinetic Capillary Chromatography
Michael J. Sepaniak, Ph.D. - Advisor**
UNIVERSITY OF TENNESSEE, KNOXVILLE
Knoxville, Tennessee

RESEARCH INTERESTS:

“Deep Eutectic” solvents and applications to chromatography
Advances in capillary electrophoresis (CE), in particular micellar
electrokinetic capillary chromatography (MECC)
Methods development for Forensic Chemistry
Lab-on-a-Chip methods development
Computer / multimedia applications in the lecture and the laboratory

PUBLICATIONS:

A. T. Balchunas, D. F. Swaile, A. C. Powell and M. J. Sepaniak, "Separations of Compounds of Biological Interest by Micellar Electrokinetic Capillary Chromatography", *Sep. Sci. Technol.* **1988**, *23*, 1891 - 1904.

M. J. Sepaniak, D. F. Swaile and A. C. Powell, "Instrumental Developments in Micellar Electrokinetic Capillary Chromatography", *J. Chromatogr.* **1989**, *480*, 185 - 196.

M. J. Sepaniak, D. F. Swaile, A. C. Powell and R. O. Cole, "Capillary Electrokinetic Separations: Influence of Mobile Phase Composition on Performance", *JHRC & CC.* **1990**, *13*, 679 - 688.

A. C. Powell and M. J. Sepaniak, "Development of a Model for Predicting Retention Times in Solvent-Gradient Micellar Electrokinetic Capillary Chromatography", *J. Microcol. Sep.* **1990**, *2*, 278 - 284.

M. J. Sepaniak, A.C. Powell, D.F. Swaile, and R.O. Cole, "Fundamentals of Micellar Electrokinetic Capillary Chromatography" in "Capillary Electrophoresis: Theory and Practice"; P.D. Grossman and J.C. Colburn, Ed.; Academic Press: San Diego, 1992; pp.159 - 189.

A.C. Powell and M.J. Sepaniak, "Analytical Instrumentation And Computational Methods For Generating And Optimizing Solvent-Gradients In Micellar Electrokinetic Capillary Chromatography", *Anal. Instr.* **1993**, *21*, 25 - 41.

PAPERS PRESENTED:

A. C. Powell and M. J. Sepaniak, Paper 698: "Automated Gradient Elution for Capillary Electrokinetic Chromatography", Pittsburgh Conference, Atlanta, Ga., March, 1989.