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Foreword

Lloyd R. Snyder

Lloyd Snyder first attracted my attention with his series of brilliant articles in the *Journal of Chromatography* on “Linear Elution Adsorption Chromatography”. In that series he demonstrated how one can make some very useful deductions from experimenting at low solute concentrations, i.e. in the range where the adsorption isotherms are linear. Here was the key to putting the empirical eluotropic series of eluents on a numerical scale. The assignment of solvent strength values made it possible to select optimal conditions for separation and it prepared the rational approach to the design of elution gradients.

Lloyd’s visit to my laboratory at the California Institute of Technology was the start of a long friendship and collaboration. He contributed chapters to the second, third, and fifth edition of my book on *Chromatography* and, after spending too many years in New York state, finally came back to California and settled in our area. Lloyd is a native Californian, received his PhD in Berkeley, and first worked for about 15 years in California. During his work for the Union Oil Co., he made valuable contributions to petroleum analysis, which ultimately won him the coveted American Chemical Society Award in Petroleum Chemistry.

However, Lloyd’s main interest during that time was the optimization of chromatography. While working for Union Oil and later, while working for Technicon Instruments Corp. in New York state, he managed to find time to develop his ideas while giving his employers their money’s worth. Technicon, which will be remembered for its amino acid analyzer, received lots of practical tips on column technology and liquid-handling systems. Meanwhile, Lloyd produced a prodigious amount of theoretical work on optimization, culminating in a very popular

book, *Introduction to Modern Liquid Chromatography*, which he wrote with his friend Jack Kirkland (then at the Du Pont Co.) and which appeared in an updated version as *Practical HPLC Method Development* (in collaboration with Kirkland and later also Glajch).

His many important contributions to chromatography during that period include fundamental work on selectivity effects, best known for the immensely useful solvent selectivity triangle, and the practical optimization of gradient elution. Snyder’s basic studies on adsorption, on the effects of temperature, flowrate, and other parameters have been applied to both liquid and gas chromatography and in the separation of a wide range of analytes. Lloyd has mentored probably thousands of analysts through hundreds of journal articles, book chapters, lectures, video tapes, and books. Thus, for instance, he gave training courses for the American Chemical Society for over 20 years and advised many students in his function as an Adjunct Professor. He even served as a Visiting Scholar at the University of Lanzhou, China.

As an outgrowth of a consulting firm Lloyd had started earlier, he finally decided to convert his hobby into a full-blown business of his own. With John Dolan, who was then his associate at Technicon, he founded LC Resources Inc. in 1984, a company which now employs 25 people. LC Resources originally produced the popular DryLab software, which allows the prediction of column plate numbers and retention times on the basis of log k vs. percent modifier plots, but now provides professional training in HPLC, method optimization and development software, and laboratory services for various industries.

I could continue to enumerate Lloyd Snyder's accomplishments, his professional appointments, and the plethora of honors that have come his way, which include the prestigious American Chemical Society Award in Chromatography and the A.J.P. Martin Award of the European Chromatography Society, but the reader will by now have gathered that this Issue of the *Journal of Chromatography* is dedicated to one of the prime movers of the science of chromatography. It is time to ask what kind of a person has produced all this immensely useful work. Is he the kind of person who only looks out for his own advantage and aggrandizement? Not really. Lloyd is a self-made man, who rose from a humble background to establish a solid family with four children and is known in our community as a generous helper. He has been a deacon of the

Presbyterian church and spends much of his time on a program of support for men in times of personal crisis. He also volunteers at a rescue mission. His modesty would not have allowed him to give me this information, but his wife, Barbara, helped me write this article.

Lloyd Snyder has served the *Journal of Chromatography* since 1969, first on the Editorial Board, from 1987–1989 as an Associate editor, and since then as Editor. We all owe him much for his astute counsel and tireless help, which will be greatly missed as he retires. I feel privileged to write this article and I wish to express my thanks to Barbara Snyder, Jack Kirkland, and John Dolan for helping me with much valuable information.

Orinda, California

Erich Heftmann