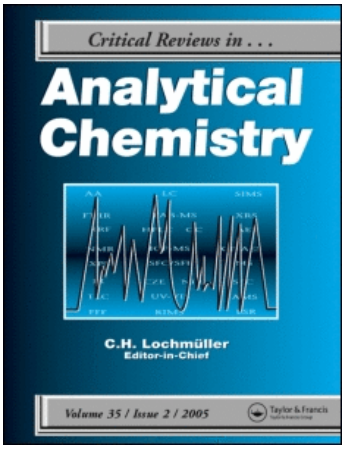

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Biographies of the Guest Editors

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Biographies of the Guest Editors

On occasion, Critical Reviews in Analytical Chemistry presents issues managed by guest editors. This issue on chemometrics is an example. The biographies of the two guest editors for this issue follow this introduction. The Journal and this Editor-in-Chief wants to offer its thanks for the creative and hard work of Profs. Hanrahan and Gemperline that went into this achievement.

Dr. Paul Gemperline, ECU Distinguished Professor of Research and Harriot College Distinguished Professor of Chemistry, has more than 20 years of experience in chemometrics, a subdiscipline of analytical chemistry that utilizes multivariate statistical and numerical analysis of chemical measurements to provide information for industrial process understanding, modeling and control. Dr. Gemperline's achievements include more than 50 publications in the field of chemometrics and more than $1.5 M in external grant funds. Most recently, he was named recipient of the 2003 Eastern Analytical Symposium's Award in Chemometrics, the highest international award in the field of chemometrics.

Dr. Gemperline's training in scientific computing began in the late 1970s in graduate school and developed into his main line of research in the early 1980s. In the early 1980s Dr. Gemperline collaborated with pharmaceutical company Burroughs Wellcome to develop software for multivariate pattern recognition analysis of near-infrared reflectance spectra for rapid, nondestructive testing of pharmaceutical ingredients and products. His research and publications in this area gained international recognition. He is a sought-after lecturer and has given numerous invited lectures at Universities and International Conferences outside the United States. Most recently, Dr. Gemperline participated with a team of researchers to develop and conduct training on chemometrics for FDA scientists, inspectors and pharmaceutical regulators in support of their new "Process Analytical Technology" initiative.

The main theme of Dr. Gemperline's research in chemometrics is focused on development of new algorithms and software tools for analysis of multivariate spectroscopic measurements using pattern recognition methods, artificial neural networks, multivariate statistical methods, multivariate calibration, and non-linear model estimation. His work has focused on applications of process analysis in the pharmaceutical industry with collaborations and funding from scientists at Pfizer, Inc. and GlaxoSmithKline. Several of his students are now employed as chemometricians and programmers at pharmaceutical and scientific instrument companies. Dr. Gemperline has also received significant funding from the National Science Foundation and the Measurement and Control Engineering Center (MCEC), an NSF-sponsored University/Industry Cooperative Research Center at the University of Tennessee, Knoxville.

Dr. Grady Hanrahan is an Assistant Professor of Chemistry at California State University, Los Angeles and a faculty member of a National Science Foundation (NSF) Center of Research Excellence in Science and Technology (CREST) Program. His research interests focus on the design and development of miniature analytical systems and microchip technology for environmental and bioanalytical applications. Dr. Hanrahan's attraction to instrumentation design and development began during his Ph.D training in the Environmental Analytical Chemistry research group at the University of Plymouth, UK. Dr. Hanrahan's interest in chemometrics centers on the use of highly effective experimental design and optimization techniques to aid in the development of sensitive and selective laboratory and field-based instrumentation.