# Editors in Chief

Steven D. Brown obtained the Ph.D. degree in analytical chemistry in 1978 from the University of Washington, working with Bruce Kowalski. The same year he was appointed Assistant Professor at the University of California, Berkeley, and he held a joint appointment at Lawrence Berkeley Laboratory. In 1981, he moved to Washington State University and, in 1986, to the Department of Chemistry and Biochemistry at the University of Delaware, where he is presently Willis F. Harrington Professor.

He has served as Chair of the Department of Chemistry and Biochemistry for 5 years, as a Section president of the American Chemical Society, and as President of the North American Chapter of the International Chemometrics Society. He is one of the three Founding Editors of the *Journal of Chemometrics* and has served for 20 years, first as its North American Editor and then for 12 years as its Editor-in-Chief.

His research interests concern a wide range of problems in chemometrics. He was winner of the first EAS Award in Chemometrics in 1986. The focus of his research has been the development of new instrumental methods through use of multivariate mathematical methods for multicomponent analysis, including calibration transfer, and the novel use of data fusion methods.
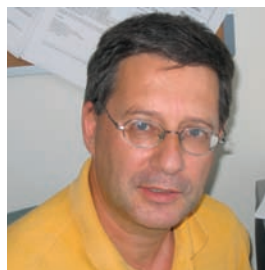
Romà Tauler Ferré is Professor of the Department of Environmental Chemistry at the Institute of Environmental Assessment and Water Research (IDÆA), Spanish Council of Scientific Research (CSIC) in Barcelona (Spain). At present, he is the Editor in Chief of the journal *Chemometrics and Intelligent Laboratory Systems* and of this Major Reference Work on Chemometrics. He has published more than 200 research papers, most of them in the field of chemometrics and its applications, and in particular in the development and applications of new multivariate resolution methods. In the recent years he has focused more on the investigation of environmental problems.

Beata Walczak graduated in chemistry from the Faculty of Mathematics, Physics and Chemistry, Silesian University, Katowice, Poland, in 1979. Since then, she has been working in the Institute of Chemistry, Silesian University, where now she is the head of the Department of Chemometrics. She has been involved in chemometrics from the early 1990s and her main scientific interest is in all aspects of data exploration and modeling (dealing with missing and censored data, dealing with outliers, data representativity, enhancement of instrumental signals, signal warping, data compression, linear and nonlinear projections, development of modeling approaches, feature selection techniques, etc.).

She has authored and co-authored around 120 scientific papers and 250 conference papers, and has delivered many invited lectures at numerous international chemistry meetings. She acts as Editor of *Chemometrics and Intelligent Laboratory Systems* and 'Data Handling in Chemistry and Technology' (the Elsevier book series), and also as a member of the editorial boards of *Talanta, Analytical Letters*, and *Acta Chromatographica*.

Section Editors

Professor Lutgarde Buydens is head of the Chemometrics Department at the Institute for Molecules and Materials of the Radboud University of Nijmegen, the Netherlands. She originally studied pharmacy at the Brussels free University and did her Ph.D. with professor Massart on a QSAR subject. After a postdoc position at the University of Illinois in Chicago with the group of Professor William Dunn III, she started at the University of Nijmegen where she became a full professor in 1995. She received the first Elsevier Chemometrics award in 1992. Her research interests include the (further) development of chemometrical techniques within several application areas. Chemometrical techniques for combining different (spectroscopic imaging) data is her major research area.

Professor Buydens is author of more than 200 publications in international scientific journals and co-author of 4 scientific books, including the 2 volumes of the *Handbook of Chemometrics and Qualimetrics*. Since 1998, she has been the editor of the journal *Analytica Chimica Acta* and has also been the co-editor of various books and special issues of international scientific journals.

Danny Coomans was the first Ph.D. student of chemometrics of the late Professor D. L. Massart at the Vrije Universiteit Brussel, one of the founders of the field of chemometrics. He obtained the degree in 1982. He is still part-time associated with the department. He is full-time Professor in Statistics and Intelligent Data Analysis in the School of Mathematics, Physics and IT at the James Cook University, Townsville, Australia. His research interests are in multivariate statistics, statistical pattern recognition and data mining, wavelet-based feature extraction, computer intensive methods, and distributed computing. From an applied point of view, his areas of expertise include chemometrics, environmetrics, and bioinformatics with special interest in the analysis of spectral databases, microarrays, QSAR data, and aspects of industrial laboratory quality control. He has published over 250 research papers and has contributed to monographs related to chemometrics.

Anna de Juan has been an Associate Professor in the Department of Analytical Chemistry at the University of Barcelona since 2003, teaching chemometrics at undergraduate and graduate levels. She holds a degree and Ph.D. in chemistry from the University of Barcelona and her expertise is in multivariate curve resolution (MCR) methods: theoretical development and application to bioanalytical and analytical problems. Since 2002 she has been a member of the Editorial Advisory Board of *Chemometrics and Intelligent Laboratory Systems* and since 2006 of *Analytica Chimica Acta*. In 2004, she received the 4th Chemometrics Elsevier Award together with Karl Booksh. She has published around 60 papers in international journals and books, essentially on multivariate curve resolution developments and related methods and on applications to the study of bioanalytical processes, image analysis, and general analytical applications.

John H. Kalivas is a Professor in the Department of Chemistry at Idaho State University, a primary undergraduate institution in Pocatello. He is author and co-author of over 80 professional papers, book chapters, and books. He is a member of Sigma Xi, the Society for Applied Spectroscopy, and the Council on Undergraduate Research and he serves on the Editorial Board of the *Journal of Chemometrics*, *Applied Spectroscopy*, and *Analytical Letters*. Dr. Kalivas received the B.S. degree (1978) in chemistry from California Polytechnic State University, San Luis Obispo, and the Ph.D. degree (1982) in chemistry from the University of Washington, Seattle.

Barry K. Lavine is an Associate Professor of Chemistry at Oklahoma State University in Stillwater, OK. He has published around 90 papers in chemometrics and is on the editorial board of several journals including the *Journal of Chemometrics*, *Microchemical Journal*, and *Chemoinformatics*. He is the Assistant Editor of Chemometrics for Analytical Letters. Lavine's research interests encompass many aspects of the applications of computers in chemical analysis including pattern recognition, multivariate curve resolution, and multivariate calibration using genetic algorithms and other evolutionary techniques.

Riccardo Leardi graduated in pharmaceutical chemistry and technology in 1983. Since then, he has been working in the section of Analytic Chemistry of the Department of Pharmaceutical and Food Chemistry and Technologies of the Faculty of Pharmacy of the University of Genova, and his research field is chemometrics. His interests are mainly devoted to problems related to food, environmental and clinical data, and to experimental design and process optimization. In the last years, his research focused mainly on genetic algorithms and on three-way methods. He is author of around 80 papers and around 80 communications in national and international meetings; he has been an invited speaker in 13 international meetings and in several industries and research centers. He is Review Editor of *Journal of Chemometrics* and Editorial Adviser of *Analytica Chimica Acta*. In November 2002, he started his activity of chemometric consultancy.

Roger Phan-Tan-Luu was Professor at the University Paul Cezanne of Marseille, France. In 1970, he founded the Laboratory of Methodology of Experimental Research in which he developed both the methodological approach and the algorithms that enable construction of efficient designs. He was at the start of the establishment of trainings about the Methodology of Experimental Research in several universities and industries in France and abroad. He is author and co-author of numerous scientific articles dealing with experimental designs. He belongs to the scientific committees of several international congresses. In 1992, Roger Phan-Tan-Luu was awarded Doctor Honoris Causa of the University of Umeå (Sweden).

Luis A. Sarabia received his Ph.D. in statistics from the University of Valladolid (Spain) in 1979. Since 1974, he has been teaching Statistics and Mathematics mostly to graduate and postgraduate chemistry students. At present, his research is centered on chemometrics as a member of the Chemometrics and Qualimetrics group of the University of Burgos. His research activities include development of software and implementation of nonparametric and robust statistical methods, genetic algorithms, neural networks, etc. Also, multivariate/multiway regression methods, methodology of the experimental design, quality assurance, and validation are his areas of interest. He is the author of about a hundred of papers on these matters.

Johan Trygg obtained his Ph.D in Organic Chemistry from Umeå University in 2001 (S. Wold). After receiving his Ph.D. at Umeå University he was awarded the prestigious Knut & Alice Wallenberg scholarship, and spent 2 years abroad as postDoc, first at the Institute for Molecular Bioscience (IMB), Brisbane, Australia, and later at Imperial College, London, both positions in the field of metabonomics. Johan Trygg brings with him years of analysis of high-complexity systems using an ever-broadening adaptation of chemometrics analysis, and provides expertise on the analysis and interpretation of highly complex data sets. Johan Trygg is an Associate Professor of Chemometrics at Umeå University, Sweden. He is acting group leader of Chemometrics & Bioinformatics at Umeå Plant Science Centre (UPSC) at Umeå University.

Pierre Van Espen was one of the first Ph.D. students at the University of Antwerp. He is currently Professor in the Department of Chemistry at the University of Antwerp and *Profesor Invitado* at the University of Havana, Cuba. He accomplished some pioneering work on the analysis of X-ray spectra by means of the development of software for the PDP 11/45 computer. At a later stage, this resulted in the AXIL (analysis of X-ray spectra by iterative least squares regression) package, which gained international acceptance and widespread use through the International Atomic Energy Agency (IAEA). Apart from the AXIL package, his work also comprises application and extension of chemometric methods for the analysis of data from X-ray spectrometry.