

Publications (2009 - 2002)

Journal Articles and Book Sections
Conference Presentations
Recent Theses

Journal Articles and Book Sections 2009

Rodney Hau Fung Cheung, Darryl Small, **Philip Marriott**
Investigation of folic acid stability in fortified instant Asian noodles by use of capillary electrophoresis
Food Chemistry, **112 (2) (2009) 507-514 ERA Ranking A**

Zenilda L. Cardeal and **Philip J. Marriott**
Comprehensive Two-Dimensional Gas Chromatography-Mass Spectrometry Analysis and Comparison of Volatile Organic Compounds in Brazilian Cachaça and Selected Spirits
Food Chemistry, **112 (3), (2009) 747-755, ERA Ranking A**

Giorgio Palmeri, Giovanni M. Turchini, **Philip J. Marriott**, Paul Morrison, Sena S. De Silva
Biometric, nutritional and sensory characteristics modification in farmed Murray cod (*Maccullochella peelii peelii*) during purging process.
Aquaculture **287 (2009) 354–360. ERA Ranking A+**

Weeraya Khummueng and **Philip J. Marriott**
The Nomenclature of Comprehensive Two-Dimensional Gas Chromatography: Defining the Modulation Ratio (M_R)
LC.GC Europe, **(2009). ERA Ranking C**

Vlastimil Hruska, Christopher J. Evenhuis, Rosanne M. Guijt, Miroslav Macka, Bohuslav Gas, **Philip J. Marriott**, Paul R. Haddad
Determination of the surface heat-transfer coefficient in CE
Electrophoresis **2009, 30, 1–11. ERA Ranking A+**

Chun Guang Li, Shu Jun Sheng, Edwin C. K. Pang, **Philip Marriott**, Brian May, Shufeng Zhou, David Story, and Charlie Chang Li Xue
Cultivar Variations of Australian-Grown Danshen (*Salvia miltiorrhiza*):
Bioactive Markers and Root Yields.
Chemistry and Biodiversity, **6 (2009) 170-181. ERA Ranking B**

Patterson P. de Souza; Zenilda de L. Cardeal; Rodinei Augusti; Paul Morrison and **Philip Marriott**
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Stefan Bieri and **Philip J. Marriott**
Dual injection system with multiple injections for determining bi-dimensional retention indices in comprehensive two-dimensional gas chromatography
Analytical Chemistry, **80(3) (2008) 760-768 ERA Ranking A+**

Shin Miin Song, Blagoj Mitrevski and **Philip J. Marriott**
Chemical Fingerprinting of Illicit Drug Seizures – 2D Profiling Using Novel GC Methods
Chemistry in Australia, **75 (April) (2008) 20-22 ERA Ranking -**

Omar Amador-Muñoz and **Philip J. Marriott**

Review of Quantification in Comprehensive Two-Dimensional Gas Chromatography and a Model of Quantification Based on Selected Summed Modulated Peaks

Journal of Chromatography A, **1184 (2008) 323-340 ERA Ranking A+**

Zenilda L. Cardeal, Patterson Patricio, Marco D.R. Gomes da Silva, and **Philip J. Marriott**

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Talanta, **74 (4) (2008) 793-799 ERA Ranking A**

James J. Harynuk, A. H. Kwong, **Philip J. Marriott**

Modulation-induced Error in Comprehensive Two-dimensional Gas Chromatographic Separations

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Helmut H. Hügél, Britta Drevermann, Anthon R. Lingham, **Philip J. Marriott**,

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Graham T. Eyres, Sylvia Urban, Paul D. Morrison, Jean-Pierre Dufour, and **Philip J. Marriott**

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Carin von Mühlen, Claudia Alcaraz Zini, Elina Bastos Caramão, **Philip J. Marriott**

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Melanie Junge, Helmut Huegel, **Philip J. Marriott**

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Graham Eyres, **Philip Marriott**, Jean-Pierre DuFour

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The Application of Comprehensive Multidimensional Gas Chromatography to the Quantification of Overlapping Faecal Sterols, *Journal of Chromatography A*, **1019 (2003) 197-210**

Robert J. Western and **Philip J. Marriott**
Methods for Generating Second Dimension Retention Data in Comprehensive Two Dimensional Gas Chromatography, *Journal of Chromatography A*, **1019 (2003) 3-14**

Robert Shellie, **Philip Marriott**, Giovanni Zappia, Luigi Mondello and Giovanni Dugo
Interactive use of Linear Retention Indices on Polar and Apolar Columns with an MS-Library for Reliable Characterisation of Australian Tea Tree and Other Melaleuca sp. Oils, *Journal of Essential Oil Research*, **15 (2003) 305-312**

LiLing Xie, **Philip J. Marriott** and Mike Adams
Chemometric Analysis of Comprehensive Two-Dimensional Gas Chromatography Data using Cryogenic Modulation, *Analytica Chimica Acta*, **500 (2003) 211-222**

Philip J. Marriott, Paul D. Morrison, Robert A. Shellie, Michael S. Dunn, Eka Sari and Danielle Ryan
Multidimensional and Comprehensive Two-Dimensional Gas Chromatography (MDGC and GCxGC), *LC-GC Europe*, **16 (Dec, 2003) 23-31**

Philip Marriott, Danielle Ryan, Kornkanok Aryasuk, Robert Shellie
Trends and Recent Advances in Chromatography, *Chemistry in Australia* **70 (2003) 10-14**

2002

Ruby C.Y. Ong and **Philip J. Marriott**
Review of the Basic Concepts of Comprehensive Two-Dimensional Gas Chromatography., *Journal of Chromatographic Science*, **40 (2002) 276-291**

Peter Haglund, Mikael Harju, Conny Danielsson, **Philip Marriott**
Effects of temperature and flow regulated carbon dioxide cooling in longitudinally modulated cryogenic systems for comprehensive two-dimensional gas chromatography, *Journal of Chromatography A*. **962 (2002) 127 - 134**

Ruby Ong, **Philip Marriott**, Paul Morrison and Peter Haglund
Influence of Chromatographic Conditions On Separation in Comprehensive Gas Chromatography, *Journal of Chromatography A*, **962 (2002) 135-152**

Robert J. Western, Sally S.G. Lau, **Philip J. Marriott** and Peter D. Nichols
Positional and Geometric Isomer Separation of Fatty Acid Methyl Esters by using Comprehensive two-dimensional gas chromatography, *Lipids*, **37 (2002) 721-730**

Robert A. Shellie, LiLing Xie, and **Philip J. Marriott**
Retention Time Reproducibility in Comprehensive Two-Dimensional Gas Chromatography using Cryogenic Modulation. An Intralaboratory Study, *Journal of Chromatography*, **968 (2002) 161-170** Robert

Shellie, Luigi Mondello, **Philip Marriott**, and Giovanni Dugo

Characterisation of Lavender Essential Oils by GC-MS and Comprehensive Two-Dimensional Gas Chromatography Using an MS Library and Correlation of Linear Retention Indices, *Journal of Chromatography*, **970 (2002) 225-234**.

Robert Shellie and **Philip Marriott**

Comprehensive Two-Dimensional Gas Chromatography With Fast Enantioseparation, *Analytical Chemistry*, **74 (2002) 5426-5430**.

Philip Marriott and Robert Shellie

Principles and Applications of Comprehensive two-dimensional Gas Chromatography Trends in *Analytical Chemistry*, **21(9-10) (2002) 573-583**.

Robert J. Western and **Philip J. Marriott**

Retention Correlation Maps in comprehensive two-dimensional gas Chromatography, *Journal of Separation Science*, **25 (2002) 832-838**

Ranjini M.M. Perera, **Philip J. Marriott** and Ian E. Galbally

Headspace solid-Phase Microextraction-Comprehensive two-dimensional gas chromatography of Wound-Induced Plant Volatile Organic Compound Emissions, *The Analyst*, **127 (2002) 1601-1607**

Invited Book Chapter

Book Chapters

Philip J. Marriott

Orthogonal GC-GC in "Multidimensional Gas Chromatography" edited by L. Mondello, A.C. Lewis and K.D. Bartle, ISBN 0-471-98869-3

John Wiley & Sons, Ltd., Chichester, **2002**

Invited Book Chapter

Philip J. Marriott

Chapter 8. Gas Chromatography.

In E. Heftmann (Ed). *Chromatography*. 6th Ed. A. Fundamentals and Applications of Chromatography and Related Differential Migration Techniques. Elsevier, Amsterdam, **2004** ISBN: 0444511075, 490 pages, **2004**

Encyclopedia of Analytical Science, Ten-Volume Set

(Volume 1-10)

Second Edition

Paul Worsfold (Editor-in-Chief)

University of Plymouth, Plymouth, U.K.

Alan Townshend (Editor)

University of Hull, Hull, U.K.

Colin Poole (Editor)

Wayne State University, Detroit, Michigan, USA

Hardbound, ISBN: 0-12-764100-9, 5000 pages, publication date: **Dec 2004**

Imprint: ACADEMIC PRESS

R.A. Shellie and **P.J. Marriott**

Gas Chromatography; High-Speed Techniques

Invited Review Chapter

Volume 4, page 58

P. Worsfold, A. Townshend and C. Poole (Eds.) *Encyclopedia of Analytical Science*, Elsevier ISBN 0127641009. **Dec 2004**

D. Ryan and **P.J. Marriott**

Chromatography; Multidimensional Techniques

Invited Review Chapter

Volume 2, page 105

P. Worsfold, A. Townshend and C. Poole (Eds.) Encyclopedia of Analytical Science, Elsevier ISBN 0127641009. **Dec 2004**

Philip J. Marriott

Gas Chromatography; Multidimensional Techniques

Invited Review Chapter

Volume 4, page 39

P. Worsfold, A. Townshend and C. Poole (Eds.) Encyclopedia of Analytical Science, Elsevier ISBN 0127641009. **Dec 2004**

Philip J. Marriott

Gas Chromatography; Principles

Invited Review Chapter

Volume 4, page 7

P. Worsfold, A. Townshend and C. Poole (Eds.) Encyclopedia of Analytical Science, Elsevier ISBN 0127641009. **Dec 2004**

Australian Patent

Philip Marriott (Inventor; Applicant),

Apparatus and/or Device for Concentration

Australian Patent Number 734848 (48570/97)

(Formerly International Patent Application No. PCT/AU97/00764)

Application Date: 1997.11.11

WIPO No: WO98/21574

Priority Date 1996.11.11

Publication Date: 1998.06.03

Publication Journal Date: 1998.07.30

Accepted Journal Date: 2001.06.21

Conference Presentations

2009

Philip J. Marriott, Tin Tran, Blagoj Mitrevski

Studies in comprehensive two-dimensional gas chromatography / mass spectrometry

Invited Lecture, ANZSMS22 Biennial Mass Spectrometry Conference, Sydney, 27-30 January 2009

Philip Marriott, Boon Kim Tan, Con Kouremenos, Bussayarat Maikhuntod and Kavitha Samykanoo
Headspace Analysis of Plant Materials by Using Comprehensive Two-Dimensional Gas

Chromatography: Selected Examples

Invited Lecture, Singapore Separation Science Symposium, Singapore, 26-28 August 2009

Philip Marriott, Boon Kim Tan, Con Kouremenos, Bussayarat Maikhuntod and Kavitha Samykanoo
Ambling through Aromas: Headspace Analysis of Plant Materials by Using Comprehensive Two-Dimensional Gas Chromatography

Invited Lecture 6th GCxGC Symposium, Portland, 16-21 May 2009

Philip Marriott

Micro-scale preparatory multidimensional capillary gas chromatography with NMR spectroscopy:
Spectacular Separations with Scintillating Spectroscopies

Invited Lecture 33rd ISCCE Symposium, Portland, 16-21 May 2009

2008

Philip Marriott

Modulation ratio and quantitation in GCxGC

Invited Keynote Lecture, ExTech-10, HTC-10, Bruges, Belgium, 28-Jan – 1 Feb 2008,

Philip Marriott

Hyphenated Separations – Bringing Together researchers from Around the World

Invited Lecture, Royal Golden Jubilee PhD Program (RGJ-PhD) Congress IX, Pattaya, Thailand, 4-6 April 2008

Marriott, P.J., Khummueng, W., Eyres, G., Dunn, M., Bieri, S., Morrison, P.

Modular integrated comprehensive and multidimensional gas chromatography systems – a LECO Platform for designing advanced GC methods

Invited Plenary Lecture, 32nd International Symposium on Capillary Chromatography and 5th GCxGC Symposium, Riva del Garda, Italy, 25 – 30 May 2008

Marriott, P., Tran, T., Logan, G., Grosjean, E.

Comprehensive GC methods for assessing and interpreting mineral oils of variable maturity

Invited Keynote Lecture, 32nd International Symposium on Capillary Chromatography and 5th GCxGC Symposium, Riva del Garda, Italy, 25 – 30 May 2008

Bieri, S., **Marriott, P.J.**, Yang, M.Y.

Retention index concept for comprehensive two-dimensional gas chromatography

Keynote Lecture, 32nd International Symposium on Capillary Chromatography and 5th GCxGC Symposium, Riva del Garda, Italy, 25 – 30 May 2008

Mateus, E.P., Sanches, P., Gomes Da Silva, M.D.R., **Marriott, P.J.**, Ribeiro, A.B.

Leachable compounds from creosote treated railway wood sleepers: GCxGC – NPD and GCxGC/TOFMS qualitative characterization

Keynote Lecture, 32nd International Symposium on Capillary Chromatography and 5th GCxGC Symposium, Riva del Garda, Italy, 25 – 30 May 2008

Philip Marriott

Methods for 2D Chromatography in Arson Analysis

Invited Lecture, NIFS Techniques in Arson Analysis Meeting, 16-18 June 2008, Canberra

M.J. Adams, **P.J. Marriott**, R. Parker and C. Kouremenos

Pattern Matching Algorithms for Comprehensive Gas Chromatography
Proceedings, Chemometrics in Analytical Chemistry (CAC) 2008, Montpellier, France. 30 June - 4 July 2008.

Philip Marriott

Revealing opportunities for flavour analysis through hyphenation

Invited Plenary Lecture, 12th Wuerman Symposium, 1-4 July 2008, Interlaken, Switzerland

Elis, Morrison, P.D. **Marriott, P.J.**, and Small, D.M.,

The total selenium contents of breakfast cereals and Asian noodles,

Refereed Conference Proceedings, 58th Australian Cereal Chemistry Conference, 31 August - 4 September 2008, Surfers Paradise, Gold Coast, Queensland, in press.

Kawila, N. **Marriott, P. J.** Small, D.M. and Tian, S.J.

Extraction and analysis approaches for HPLC determination of niacin in Asian noodles,

Refereed Conference Proceedings, the 58th Australian Cereal Chemistry Conference, 31 August - 4 September 2008, Surfers Paradise, Gold Coast, Queensland, in press.

Kawila, N. Small, D.M. **Marriott, P.J.** and Tian, S.J.

Stability and retention of niacin vitamers in instant Asian noodles,

Refereed Conference Proceedings, 58th Australian Cereal Chemistry Conference, 31 August - 4 September 2008, Surfers Paradise, Gold Coast, Queensland, in press.

Philip Marriott

Hyphenated Separations – getting the best from both worlds

Invited Plenary Lecture, 27th International Symposium on Chromatography ISC 2008, 21 – 25 September 2008, Munster, Germany

Philip Marriott

Putting separation to work: The search for peak capacity

Invited Plenary, 14th International Symposium on Separation Sciences, 30 September – 3 October 2008, Primosten, Croatia

Philip Marriott

Earth wind fire and water- Strategies for discovering new information through developments in GCxGC

Invited Plenary Lecture, SAAMS/ChromSA Conference 2008, Warmbaths, South Africa, 13-15 October 2008

Philip J Marriott

Comprehensive Two-Dimensional Gas Chromatography for High Resolution Separations: May the (GC) FORCE be with you!

Invited Lecture, Exposition Quimica Espania, Barcelona, 20 – 24 October 2008

Philip Marriott

Hyphenated Separations with MS and NMR Spectroscopy: New Capabilities for Advanced Chemical Characterisation

Invited Keynote Lecture. Asia-Pacific International Symposium on Microscale Separation and Analysis: APCE 2008. Kaohsiung, Taiwan 2-5 November 2008.

Philip J. Marriott

Multidimensional GC with NMR - Experiences in developing new technical capabilities

Invited Keynote Lecture. ACROSS Symposium on Advances in Separation Sciences. ASASS 8-10 Dec 2008

2007

Philip Marriott

The small molecule / volatile fraction in metabolite profiling: Towards a total analysis solution.

Invited Lecture, 4th International Symposium of the Austrian Proteomics Platform, 28-31 January, 2007, Seefeld, Austria

Philip Marriott

The small molecule / volatile fraction in metabolite profiling: Towards a total analysis solution.

Invited Lecture, Comprehensive Gas Chromatography – Time-of-Flight Mass Spectrometry in Biomedical Research, Regensburg, Germany, 1 February, 2007,

Philip Marriott, Tin Tran

Headspace solid-phase microextraction – comprehensive two-dimensional GC analysis of organic pollutants

Invited Keynote Lecture 1, EnviroAnalysis, Wellington, New Zealand, 7-9 February 2007

Philip Marriott, Weeraya Khummueng

Fungicide and organophosphorus pesticide analysis by using multidimensional and comprehensive two-dimensional gas chromatography

Invited Keynote Lecture 2, EnviroAnalysis, Wellington, New Zealand, 7-9 February 2007

Philip Marriott

Advances in GCxGC – Potential for fast sample fingerprinting and separation prediction

Invited Lecture, Firmenich World Analytical Conference, Forrestal, New Jersey, USA, 21-23 March 2007

Philip Marriott

Comprehensive Two-Dimensional Gas Chromatography for High Resolution Separations: Brute Force, or Chromatographic Finesse?

Invited Lecture, RACI Victorian Branch Gippsland Section, 18 May 2007

Philip Marriott, Omar Munoz

Comprehensive two-dimensional GC quantitative analysis based on modulation ration considerations

Plenary Lecture, 4th GCxGC and 30 ISCC Symposium, Dalian, 3-7 June 2007

Philip J. Marriott, Alain Chaintreau, Frederic Begnaud and Paul D. Morrison

Understanding and improving the trapping and release efficiency of cryogenic modulation in comprehensive two-dimensional GC

Plenary Lecture, 4th GCxGC and 30 ISCC Symposium, Dalian, 3-7 June 2007

Philip Marriott

Comprehensive two-dimensional gas chromatography methods in wine-related research

Invited Conference Presentation. *In Vino* Wine Conference, Melbourne, 22-25 July 2007

Philip Marriott

Comprehensive Two-Dimensional Gas Chromatography for High Resolution Separations: Brute Force, or Finesse?

Invited Keynote Lecture, 12 Asian Chemical Conference (12ACC) Malaysia, 23-25 August 2007.

Philip Marriott

Recent studies in generation of two-dimensional retention indices in comprehensive two-dimensional gas chromatography

Invited Plenary Lecture, 7th Balaton Symposium on High Performance Separation Methods, Siofok, Hungary, 5-7 September 2007

Philip Marriott

The Role of Mass Spectrometry in Comprehensive Two-dimensional Gas Chromatography: It is Not Just About Speed

Invited Plenary Speaker. Swiss Group for Mass Spectrometry Meeting 24-26 October, 2007

Philip Marriott, Weeraya Khummueng, Gavin Rose, Craige Trenerry
Fungicide and OP and OC pesticide analysis by using comprehensive two-dimensional gas chromatography
Plenary Lecture, 21st Conference of Residue Chemists, Werribee, Melbourne, 12-15 November 2007

Philip Marriott
Dual detection in comprehensive two-dimensional gas chromatography for fast screening of multipesticide residues in vegetable samples (GCxGC-NPD/uECD)
Invited Lecture, 21st Conference of Residue Chemists. Melbourne 12-15 November 2007

Philip Marriott and Blagoj Mitrevski
Design of a comprehensive two-dimensional gas chromatography (GCxGC) system for drugs analysis
Invited Keynote Lecture. Asianalysis Jeju, Korea, 7-9 November 2007

Philip Marriott
Comprehensive two-dimensional GC quantitative analysis based on modulation ration considerations
Keynote Lecture, 31st ISCCCE Symposium, Albuquerque, New Mexico, USA. 28-30 Nov 2007

Philip Marriott
Comprehensive 2D GC - The Revelation of Sample Complexity
Invited Plenary Lecture. 5^o Encontro Nacional de Cromatografia (Portugal National Chromatography Society Conference), 10-12 December, 2007

Philip Marriott
Comprehensive vs multidimensional separation technology: maximizing compound separability
Invited Keynote Lecture, Singapore International Chemistry Conference 5 (SICC-5) and 7th Asia Pacific International Symposium on Microscale Analysis and Separation (APCE 2007). 17-19 December 2007

2006

Philip Marriott, Thuy-Tien Nguyen, Renuka Mayadunne
Opportunities for Comprehensive Two-Dimensional Gas Chromatography in Chemical 'Omics' Analysis
HTC-9, Ninth International Symposium of Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, York, United Kingdom, Feb 8th – 10th 2006

Michael Dunn, **Philip Marriott**, Paul Morrison, Robert Shellie
Semi Fast Targeted Multidimensional Gas Chromatography using a Micro- Switching Valve and a Longitudinal Cryogenic Modulator (LMCS) for the Analysis of Allergens in Cosmetic Products
HTC-9, Ninth International Symposium of Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, York, United Kingdom, Feb 8th – 10th 2006

Philip Marriott, James Harynuk, Parwin Zaher, Thuy-Tien Nguyen, Paul Wynne
High Resolution GCxGC Methods for Metabolomics and Lipidomics
Invited Lecture, Pittcon (Pittsburgh Conference), Orlando, Florida, 12-17 March 2006

2005

Philip Marriott*, Renuka Mayadunne and Danielle Ryan
Opportunities for Comprehensive Two-Dimensional Gas Chromatography in Chemical 'Omics' Analysis
Invited Lecture; DSCP Symposium (VII) on Modern Separation/Analytical Chemistry and Metabonomics, Dalian, 19-20 April 2005

Philip Marriott
Chemical Analysis by Using Comprehensive Two-Dimensional and Targeted Multidimensional Gas Chromatography
Invited Plenary Lecture; 15th National Conference and Exhibition on Chromatography of China, ZhengZhou, China. 21-25 April 2005

PhilipMarriott

Fast Multidimensional GC/MS and Comprehensive Two-dimensional GC/MS for Rapid Screening of Complex Samples

Invited Keynote Lecture, Int Sym Capillary Chromatography and Electrophoresis, Las Vegas 22-25 May 2005

Philip Marriott

Opportunities for Comprehensive Two-Dimensional Gas Chromatography in Chemical 'Omics' Analysis

Invited Divisonal Plenary Lecture, CONNECT 2005, RACI National Convention, 3-7 July, Sydney 2005

Philip Marriott, J. Harynuk, P. Zaheer, P. Wynne

Methods for Fatty Acid Analysis by using Comprehensive Two-Dimensional Gas Chromatography

Invited keynote Lecture, 6th Balaton Symposium in High Performance Separation Methods, Siofok, Hungary, September 7-9 2005

Philip Marriott

Comprehensive two-dimensional gas chromatography – A General Technology for Fatty Acids and Amino Acids Analysis

Invited Keynote Lecture, Asianalysis VIII, Taipei, 16-20 October 2005

Philip Marriott, Graham Eyres and Jean-Pierre Dufour

The Power of Two: Comprehensive Two-Dimensional GC for Essential Oil Analysis

Invited Lecture, Pacificchem 2005, Hawaii, USA, December 2005

Graham Eyres, Jean-Pierre Dufour, Gabrielle Hallifax, Subramaniam

Sotheeswaran, **Philip J. Marriott**

Identification of character-impact odorants in coriander and wild coriander leaves using GC-olfactometry and GC x GC-TOFMS

Wuerman Sympopsium Proccedings paper, 2005

Graham Eyres, Jean-Pierre Dufour, and **Philip J. Marriott**

The Spicy Character of Hops

Institute of Brewers and Distillers Conference, Hobart, March 2006

Recent Theses

Master of Applied Science

Xie, Wen (2001). Analysis of Natural Product Material using Capillary Electrophoresis.

Balos, Nedret (2001). Non-ionic Surfactant Analysis using HPLC and Electro spray Mass Spectrometry Methods.

Kinna, Rachael (2001). Free and Bound Amino Acids in Dietary Supplements for Sport.

Perera, Ranjini (2002). Investigation of Comprehensive Gas Chromatography for Atmospheric Emission Analysis.

Kellie Eastman (2004). Determination of Neomycin and Dihydrostreptomycin Residues in Milk and Animal Tissue Following Intramammary Treatment

Sonja Peters (2006) "Development of a Resuolutin Metric for Comprehensive Two-Dimensional Gas Chromatography". Cosupervisor to MSc Program, Thesis submitted to The University of Amsterdam, The Netherlands.

Rebekka Oelze (2006) Development of Fast GC and Fast Mass Spectrometry Methods for Multiresidue Analysis. Co-supervisor to Diplom-Ingenieur (FH) program submitted to the Hochschule Magdeburg-Stendal (FH), Germany.

Anne Baumann (2007) "Derivatisation in Multidimensional GCxGC/TOFMS for Fulvic Acid Analysis". Co-supervisor to Diploma Program, Thesis submitted to The University of Munster, Germany.

Doctor of Philosophy

Jayasinghe, Leonard W.W.D.Y. (2000). The Use of Sterols Markers for Human Waste Input into Recreational and Urban Waters.

Morris, Vicki (2000). Optimisation Strategies for Chromatographic Separations.

Kinghorn, Russell (2000). Multidimensional and Cryogenic Techniques in Capillary Gas Chromatography.

Hong, Chetana (2002). Chiral Separations of β -Blocker Drugs and Metabolites.

Truong, Thy (2002). The Application of MDGC with Modulated Cryogenic Techniques to the Quantification of Fecal Sterols in Real Environmental Samples.

Kruaysawat, Janpen (2003). Capillary Electrophoresis Analysis of the Industrial Manufacture of Chlorophenoxyacetic Acids, and Chiral Drugs.

Ruby Ong (2004). Comprehensive Two-dimensional Gas Chromatography: Fundamentals and Application To Ultra-High Resolution Pollutant Analysis.

Robert Shellie (2004). Comprehensive Two-Dimensional Gas Chromatography in Essential Oil Analysis.

Kornkanok Aryasuk (2004). In association with King Mongkut's University of Technology Thonburi, Thailand. "Application of Thermodynamic Parameters in Gas Chromatographic Retention and GCxGC"

Yajing Shao, (2005) "Natural Product Analysis by Using Two-dimensional Gas Chromatography, GC/MS and Time-of-Flight Mass Spectrometry"

Robert Western, (2005) "Methods for Component Identification in Comprehensive two – Dimensional Chromatography and Novel Applications of the Separation Technique"

Shin Miin Song (2006) "Comprehensive Two-Dimensional Gas Chromatography (GCxGC) for Drug Analysis"

Carin von Muehlen (2007) "Chemical Characterization of Nitrogen Containing Compounds From Brazilian Petroleum Fractions, and Volatile Oils From Brazilian Plants, Using Comprehensive Two Dimensional Gas Chromatography"

Priyanga Wickramanayake (2007) "Applications of Chiral Selectors and Replaceable Supports for Capillary Electrophoretic Separations"

Christopher Evenhuis (2007) "Thermal Effects and Temperature Profiles in CE"

Graham Eyres, (2007), New Zealand "Character-Impact Odorants in Hop Oils"