

22 October 2018

Dear HKSMS members,

**HKSMS Seminar:**  
**“Instrument Design for the Best of Separations with the Best of Mass Spectrometry”**  
**by Professor Philip J Marriott**

You are cordially invited to attend our upcoming HKSMS Seminar by Professor Philip J Marriott for **Monday, 05 November 2018** at **The Hong Kong Polytechnic University, Hunghom, Kowloon.**

Professor Philip J Marriott is a Professor of Chemistry at Monash University, Melbourne. He has received an Australian Research Council Discovery Outstanding Researcher Award in 2013. His primary research is in GC and MS, specifically in very high resolution comprehensive 2D GC (GCxGC) and multidimensional GC, with MS and other detectors. Research includes fundamental method development and a broad applications base – petrochemicals, essential oils, natural products, pollutants and pesticides, fatty acids, and chiral analysis.

Details of the seminar are available in the attached Registration Form. All members can enjoy this HKSMS Seminar free-of-charge. Registration from non-members is also welcome upon joining HKSMS.

If you have any enquiries, please feel free to call our membership administration officer – Ms Rebecca Chau at 3568 3581 during office hours (10:00-17:00) or send an email to [info@hksms.org](mailto:info@hksms.org).

Yours sincerely,

Dr. Zhongping Yao  
President, HKSMS

## Registration

### Professor Philip J Marriott Seminar on 5 November 2018

Name of Member: \_\_\_\_\_

Contact Telephone No. : \_\_\_\_\_

Email / Fax No.\* : \_\_\_\_\_ (\*for notification of acceptance)

Company / Institution : \_\_\_\_\_

Membership category:

Full Member

Corporate Member

Student Member

Registration:

Professor Philip J Marriott Seminar on 05 November 2018 Monday

**Note:**

- i) Registration is on a "First-come-first-served" basis.
- ii) Non-members can join the seminar upon joining HKSMS.
- iii) Please register ASAP by fax to 3568 3582 or by e-mail to [hksms.info@gmail.com](mailto:hksms.info@gmail.com) or [info@hksms.org](mailto:info@hksms.org), before 31 October 2018.

**Details:**

<b>Title:</b>	<b>Instrument Design for the Best of Separations with the Best of Mass Spectrometry</b>	
<b>Speaker:</b>	Professor Philip J Marriott <i>Professor</i> <i>Australian Centre for Research on Separation Science,</i> <i>School of Chemistry, Monash University, Australia</i>	
<b>Venue:</b>	<b>Y306, Lee Shau Kee Building, The Hong Kong Polytechnic University, Hunghom, Kowloon</b>	
<b>Time:</b>	05 <sup>th</sup> November 2018 (Monday) 5:30 p.m. - 6:30 p.m.	
<b>Schedule:</b>	5:00 p.m. - 5:30 p.m.	Registration
	5:30 p.m. - 6:30 p.m.	Seminar

**Instrument Design for the Best of Separations with the Best of Mass Spectrometry****Professor Philip J Marriott***Professor**Australian Centre for Research on Separation Science  
School of Chemistry, Monash University, Australia*

Analytical separations, or mass spectrometry? The question is normally not a choice of either, but increasingly we design 'complex' analytical systems that hyphenate the best of the separations world, with that of the mass spectrometry world. Often, either of the dimensions might be adequate without having to resort to system complexity, such as for simple samples, or those that can be well 'identified' based on retention, or with basic MS. Often we might need to access well-defined and unique mass spectra amenable to MS/MS methods order to suppress matrix interference. But this cannot always be guaranteed.

Our research normally involves design of advanced separations, such as multidimensional GC (MDGC), or comprehensive two-dimensional GC (GC×GC) with simple MS (very fast separations are not conducive to complex MS strategies), or separations with accurate mass MS. We have a few additional studies of comprehensive 2D LC (LC×LC) with MS/MS for flavonoids, where the second dimension LC step is not especially fast, and so relatively detailed MS/MS strategies can be implemented.

But for some cases MS must be supplemented by other more informative identification tools, such as GC-FTIR, or preparative GC with NMR.

The presentation will outline some of our recent studies in high resolution separations, with 'identification' using various MS and spectroscopic techniques.

**\*\*\* Biography of Professor Philip J Marriott \*\*\*****Name:** Professor Philip J Marriott**Organisation:** Monash University, School of Chemistry**Profile Web Link:**  
<http://www.monash.edu/science/schools/chemistry/our-people/staff/marriott>**Short Biography:**

Professor Marriott's career includes PhD in Chemistry (LaTrobe Univ., Melbourne), postdoctoral research (Univ. of Bristol, UK), and academic appointments at the National University of Singapore (Chemistry), RMIT and now Professor of Chemistry at Monash Univ., Melbourne.

His primary research is in GC and MS, specifically in very high resolution comprehensive 2D GC (GC×GC) and multidimensional GC, with MS and other detectors, Research includes fundamental method development and a broad applications base – petrochemicals, essential oils, natural products, pollutants and pesticides, fatty acids, and chiral analysis.

He received an Australian Research Council Discovery Outstanding Researcher Award (2013), and Australian Academy of Science professorial visits in collaboration with the Chinese Academy of Science to China, and to Portugal. He received a World Class University Distinguished Professorship under the Korean National Research Foundation (Chung Ang Univ), and a CNPq Special Researcher Award from Brazil (UFRJ and Embrapa), for a project on coffee and natural oils.

Professor Marriott has published 388 research papers and book chapters.