MSMLG 2016

5th International Conference on Molecular Sensors and Molecular Logic Gates in the Chancellor's Building at the University of Bath from 24th to 28th of July 2016.

Organised by Dan Pantoș and Tony D. James

With the help of the International Advisory Board for MSMLG2016
Engin Akkaya, Eric Anslyn, AP de Silva, Thorri Gunnlaugsson, Yun-Bao Jiang, Jon Sessler, Jong-Seung Kim, Xuhong Qian, He Tian, Juyoung Yoon

Welcome to Bath

Welcome to the Fifth International Conference on Molecular Sensors and Molecular Logic Gates (MSMLG 2016), from 24–28 July 2016 at the University of Bath. The goal of the conference is to cover specific topics of current and emerging interest in the area of molecular sensors and molecular logic gates.

At the meeting in Bath the MSMLG Award has been rebranded as the MSMLG 2016 Czarnik Award and will be presented to Eric V. Anslyn (University of Texas at Austin). We have also created four new awards: Two *MSMLG 2016 Czarnik Emerging Investigator Awards*, which will be presented to John S. Fossey (university of Birmingham) and Scott T. Phillips (Pennsylvania State University). We will also present two new *MSMLG 2016 AP de Silva Early Career Awards* which will be chosen from researchers presenting their research at MSMLG2016. This will include any researcher presenting a Talk, Flash or Poster at MSMLG2016 who does not currently hold a permanent academic position. The new *MSMLG 2016 AP de Silva Early Career Awards* will come with an engraved trophy from Bath *Aqua* Glass and £400 prize.

Furthermore, we are excited to host a *Researcher Links Workshop* (organised by Tony D. James and Minyong Li) that will include 46 early career researchers and help foster and nurture collaborations between the UK and China.

Dan Pantoș and Tony D. James (Bath July 2016)

MSMLG 2016:
Twitter feed: @MSMLG2016 please use the following hashtag #MSMLG2016
Facebook Page: www.facebook.com/msmlg2016/
Web Site: www.MSMLG2016.uk

Programme: The 5th International Conference on Molecular Sensors and Molecular Logic Gates (MSMLG2016)

The Chancellor's Building at the University of Bath from 24th to 28th of July 2016

Sunday 24th July in CB 1.10			
4.30	Registration		
5.30	Fraser Stoddart	Conceptual Lecture – Sponsored by Chem from Cell Press	
7.00	Dinner in Claverton Rooms (University of Bath)		
2.00	Bar Closes		
Monday 25th July in CB 1.10			
8.30	Opening	MSMLG Czarnik Awards Ceremony	
8.50	Eric Anslyn	***MSMLG Czarnik Award***	
9.30	Chris Chang	ACS Central Science (Flash)	
9.40	Young-Tae Chang	ACS Central Science (Flash)	
9.50	Bruce Gibb	ACS Central Science (Flash)	
10.00	He Tian	Chemical Science Lecture	
10.30	Coffee		
	Session 1 in CB 1.10	Session 2 in CB 1.11	Session 3 in CB 1.12
11.00	Flash 1	David Amabilino	Weihong Zhu
11.30	Hae-Jo Kim	Flash 2	Nicolas Giuseppone
12.00		John Fossey ***Czarnik Emerging Investigator Award***	
12.30	Lunch and Presentation by JSPS on Funding Opportunities (www.jsps.org)		
13.30	Flash 3	Kyo Han Ahn	Minyong Li
14.00	Sofia Pascu	Flash 4	Pavel Anzenbacher
14.30	Patricia Remón Ruiz	David Margulies	Flash 5
15.00	Coffee		
15.30	Flash 6	Kazuya Kikuchi	Xiaojun Peng
16.00	Yun-Bao Jiang	Flash 8	Boosayarat Tomapatanaget
16.30	Flash 7	Nantanit Wanichacheva	Flash 9
17.00	Claudia Caltagirone	Rob Elmes	Xiao-Peng (Franck) He
17.20	Han Young Woo	Keith Man-Chung Wong	Alyssa-Jennifer Avestro
17.40	Seiichi Uchiyama	Jianli Hua	Wei Jiang
18.00	End of Sessions		
18.00	**Posters**		
19.30	Drinks reception in The Edge (University of Bath)		

Tuesday 26th July in CB 1.10			
8.30	Jong Seung Kim	ChemPlusChem Lecture	
9.00	Phil Gale	ACS Central Science (Flash)	
9.10	Kate Jolliffe	ACS Central Science (Flash)	
9.20	Ben Zhong Tang	Materials Chemistry Frontiers Lecture	
9.30	Jonathan Sessler	Chemical Communications Lecture	
10.00	Coffee		
	Session 1 in CB 1.10	Session 2 in CB 1.11	Session 3 in CB 1.12
10.30	Flash 10	Uwe Pischel	Itaru Hamachi
11.00	Oren Sherman	Flash 11	Bakthan Singaram
11.30	Juyoung Yoon	Gonen Ashkenasy	Flash 12
12.00	Shuizhu Wu	Gandra Upendar Reddy	Lluïsa Pérez-García
12.30	Lunch & Group Photo by Lake (www.bristol-drones.co.uk)		
13.30	End of Sessions		
From 2.00	UK-China Researcher Links Workshop (Registered Participants Only)		

Wednesday 27th July in CB 1.10			
8.30	Frank Marken	ChemElectroChem Lecture	
9.00	Xuhong Qian	ACS Sensors Lecture	
9.30	Scott Phillips	***Czarnik Emerging Investigator Award***	
10.00	Coffee		
	Session 1 in CB 1.10	Session 2 in CB 1.11	Session 3 in CB 1.12
10.30	Flash 13	Feihe Huang	Jon Steed
11.00	Mike Watkinson	Flash 14	Tatsuya Nabeshima
11.30	Shu Wang	Werner Nau	Flash 15
12.00	Lunch & Presentation by British Council on Funding Opportunities with China		
13.00	Oxana Kotova	Miko van der Boom	David Smith
13.30	Doron Shabat	Yufang Xu	Toby Jenkins
14.00	Chris Frost	Jean van den Elsen	Tim Glass
14.30	Deqing Zhang	Jong-In Hong	Jonathan Nitschke
15.00	Coffee		
15.30	Flash 16	David Magri	Leyong Wang
16.00	Evan Miller	Flash 17	Scott Cockroft
16.30	Alberto Credi	Steven Bull	Flash 18
17.00	Zhiqian Guo	Pablo Gaviña	Tsuyoshi Minami
17.20	Marc Vendrell	Ying Zhou	Pedro Estrela
17.40	Mark A. Olson	Youjun Yang	Shu-Pao Wu
18.00	End of Sessions		
18.30	Coaches to City		
19.00	Dinner at Jimmys		

Thursday 28th July in CB 1.10		
9.30	Mihail Barboiu	RSC Surfaces and Interfaces Award Lecture
10.30	Coffee	
11.00	Binghe Wang	RSC Advances Lecture
11.30	AP DeSilva	Nature Chemistry Lecture
12.00	Poster Awards Ceremony	
12.30	Lunch	
13.00	End of Meeting	

Flash Presentations

Monday 25th July					
	Flash 1		Flash 2		Flash 3
11.00	Jennifer Hiscock	11.30	Jonathan Kitchen	13.30	Bowen Ke
11.10	Laia Vilà-Nadal	11.40	Ethan Howe	13.40	Youli Xiao
11.20	Qian Wang	11.50	Xin Wu	13.50	Euan Kay
	Flash 4		Flash 5		Flash 6
14.00	Sam Thompson	14.30	Chris Serpell	15.30	Stephen Butler
14.10	James Taylor	14.40	Xiaoping Bao	15.40	Meng Li
14.20	Lupei Du	14.50	Kun Li	15.50	Jean-Patrick Francoïa
	Flash 7		Flash 8		Flash 9
16.30	Haider Butt	16.00	Zhugen Yang	16.30	Wenlei Zhai
16.40	JiaJia Chen	16.10	Yuzhe Chen	16.40	Yuan Guo
16.50	Robert Chapman	16.20	Yu Peng	16.50	Minh-Huong Ha-Thi
Tuesday 26th July					
	Flash 10		Flash 11		Flash 12
10.30	Paul McGonigal	11.00	Richard Blackburn	11.30	Jonathan Foster
10.40	Emma Lampard	11.10	Guzman Gil-Ramirez	11.40	Ling Zhang
10.50	Satoshi Arizono	11.20	Fuan Wang	11.50	Bernard Juskowiak
Wednesday 27th July					
	Flash 13		Flash 14		Flash 15
10.30	Sean Goggins	11.00	Louis Adriaenssens	11.30	Ross Forgan
10.40	Jianjun Du	11.10	Nick Evans	11.40	Jiangli Fan
10.50	Xiaolong Sun	11.20	Xiaoning Wang	11.50	Yong Qian
	Flash 16		Flash 17		Flash 18
15.30	Zhiqiang Liu	16.00	Abbas D. Farahani	16.30	Se Won Bae
15.40	Jiang Wang	16.10	Chiara Glionna	16.40	Mehrafarin Eilbigi Dehkordi
15.50	Dong-Nam Lee	16.20	Arantzazu Gonzalez-Campo	16.50	

UK-China Researcher Links Workshop (Registered Participants Only)

The Chemistry Building, 1 South Room 0.01

Tuesday 26th July	
14.00	Introduction
14.30	Networking Activities
3.30	Coffee
3.00	Networking Activities
18.30	Coach to City
19.30	Researcher Links Dinner & Networking Event (www.ThePennyLane.co.uk)
23.15	Coach to University
23.30	End of Workshop

MSMLG History

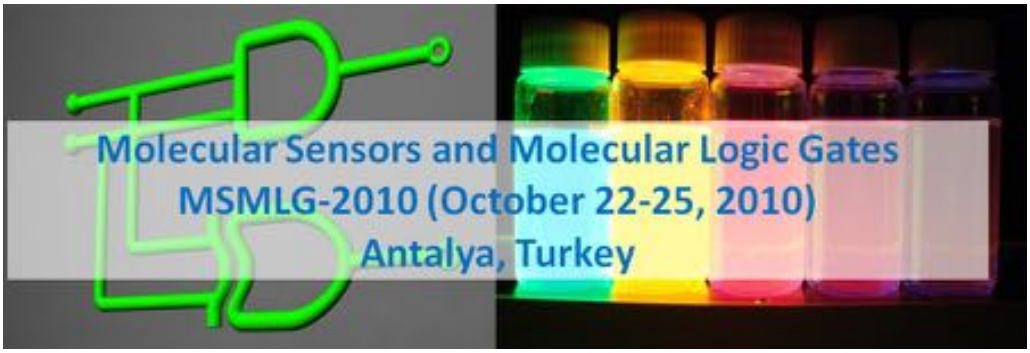
The origins of the Molecular Sensors and Molecular Logic Gates Conference concept can be traced to the *Fluorescent Chemosensors for Ion and Molecular Recognition* symposium sponsored by the Division of Organic Chemistry of the American Chemical Society at the 204th Meeting of the American Chemical Society in Washington, DC on August 23-28, 1992 and organised by Anthony W. Czarnik.

However, what we now know as MSMLG can be traced to the *International Conference on Molecular Machines and Sensors* (ICMMS) organised in 2007 at East China University of Science and Technology (ECUST) in Shanghai by Xuhong Qian and He Tian. Note this meeting is now considered the first MSMLG Conference

The second conference where the MSMLG name evolved was held in Antalya, Turkey, which was hosted and organised by Engin Akkaya in 2010. During this meeting, the MSMLG international committee agreed that MSMLG will be held every 2 years.

The third third meeting in the MSMLG series was held in 2012 at Korea University in Seoul. The meeting was hosted and organised by Juyoung Yoon, Jong Seung Kim, Jong-In Hong and Chang-Hee Lee. At the Seoul meeting A.P. de Silva (Queen's University Belfast) was the inaugural recipient of the MSMLG 2012 Award presented Eric V. Anslyn.

The fourth MSMLG in 2014 returned to ECUST and was organised by Xuhong Qian and He Tian. Jonathan Sessler (University of Texas at Austin) and Seiji Shinkai (Sojo and Kyushu Universities) were presented the MSMLG 2014 Awards.



MSMLG 2016 Czarnik Award

Professor Eric V. Anslyn from the University of Texas at Austin

We are very excited that recipient of the 2016 Molecular Sensors and Molecular Logic gates (MSMLG) Czarnik Award is Professor Eric V. Anslyn from the University of Texas at Austin. The 5th Molecular Sensors and Molecular Logic gates (MSMLG) symposium will be held in Bath from July 24th to 28th 2016 as part of the 50th Anniversary Celebrations at the University of Bath. Symposium organiser Tony James explains that "Eric is a truly inspiring teacher and researcher and as such we are delighted that he will be presented the MSMLG Prize in Bath"

In order to give you some insight into what a special character Eric is to the Sensor and Logic Community we asked him several rather probing questions and got some unexpected answers:

1. ***What made you want to be a chemist?***

I chose chemistry as a major in college because it was a good choice for getting into medical school. However, after taking general chemistry, and particularly after taking organic chemistry I was hooked. Even though I was accepted and went to medical school, I only lasted two weeks before deciding to be a chemist. There is so much about the discipline of chemistry that hooked me. As explained in greater detail in a recent autobiographical sketch in Beilstein J. Org. Chem. entitled "Art, auto-mechanics, and supramolecular chemistry. A merging of hobbies and career", I found organic chemistry to involve thought processes and visual images that were natural extensions of my childhood. I am very fortunate to have found a career that is an extension of childhood hobbies, most all of which I still participate in to this day.

2. ***If you weren't a chemist and could do any other job, what would it be – and why?***

As a child and teenager I imagined being a keyboardist for a progressive rock band, such as Keith Emerson and Rick Wakeman, for ELP or YES, respectively. However, I really didn't have enough musical talent. Then, I've raced go-karts and cars for most of my life, but, realistically, I'm not a talented enough driver to make a profession out of auto racing either. I suppose the only other thing that I may have enough talent to succeed at is cooking. I love to bake, particularly British meat pies and fancy desserts. Thus, running a restaurant sounds like a pretty exciting and fun profession.

3. How can chemists best contribute to the world at large?

Advancing basic science, as well as practical applications thereof, is important for human health, energy creation, new materials, and understanding nature, in addition to many other social-economic issues. Chemistry has an important role in these endeavours because it is the science that bridges biology and physics. Further, chemists can uniquely synthesize entities of our own imagination. In essence, chemists routinely invent our own new systems to study, while physics and biology primarily focuses on existing natural phenomenon. Thus, in the broadest sense, chemists are best at contributing to the world at large by focusing on creativity and imagination, and then allowing the basic science that derives to percolate into social-economic benefits that are most often completely unforeseen at the inception.

4. Which historical figure would you most like to have dinner with – and why?

King Arthur. I am continually reading British history books, and particularly love visiting the United Kingdom. While there are many details known of the Wars of the Roses, the Tudor and Jacobean periods, and further up to present day, there is far less known of the British Isles' political and social structure around the periods of 400-600 AD. Was there such a person – King Arthur, with Genevieve his wife, and a whole set of knights of great chivalry? It would be fascinating to have dinner with whoever was the basis of the Myths and Legends of King Arthur, and learn the real facts of this period of history.

5. When was the last time you did an experiment in the lab – and what was it?

I last worked in lab in approximately 1997. From a starting assistant professor in 1989, up to 1997, I spent my laboratory time making starting materials for my graduate students. I would let the students work out the steps in a procedure, but so that they would not have to spend the time making the material again my role was to make it for them. While I don't remember exactly what compounds we were making in 1997 that I helped with, I certainly know that I was working for my students.

6. If exiled on a desert island, what one book and one CD would you take with you?

This final question is the hardest. So, I'm going to cheat and answer with a set of books by a single author, and two CDs. My favourite books are the six authored by Jane Austen that can be purchased as a single collection. Her ability to articulate human emotions and humour along with wit and sarcasm using the English language is very unique. I particularly love how a sentence can be nearly 10 lines on a page, and yet flows naturally and makes perfect sense from the beginning to the end. She is the master of the "run-on sentence", with numerous

independent and dependent clauses, sometimes with or without commas. Her sentence structure is simply fun to read. My favourites of her six books are Emma, Sense and Sensibility, and Mansfield Park. Although Pride and Prejudice gets the most attention, to me, these other three books are more humorous and complex.

Now on to music. There are two genres of music that I listen to nearly daily: Progressive Rock and Roll from the 1970s, and Judy Garland Musicals of the 1930s-1950s. In each genre there is one clear winner. The album 'Fragile' by YES is simply incredible. From intricate base rifts, rapid keyboards, melodic guitars, to complex synchronous drums, they all combine together to create a sound that can be best described as "gigantic". No band has come close to making music as lovely, entrancing, and as hard-driven as YES. While Fragile is simply their paradigmatic example, most of their albums retain the technical richness best associated with this top band of the Progressive Rock movement.

Judy Garland simply had the most beautiful voice of any singer I've ever heard. It has a warm, rich, and velvety quality. She could execute soft and slow love songs with great sweetness. But on the other hand, she was a master at jazz, such as when singing George Gershwin tunes. She could take a tune gradually to a crescendo with power and dramatic highs best described as "belting". One can get many of the best songs from her movie soundtracks in the double CD set "Judy Garland Collector's Gems, the MGM Films". This album highlights both sides of her voice, and would keep me smiling on a desert island.

Tony James – while we were not able to arrange dinner with King Arthur during the Symposium. Eric will be able enjoy Bath and North East Somerset which are steeped in Arthurian legend and also enjoy the centrally located Jane Austen Centre. We are confident that he will also enjoy being introduced to a Lovett pie or two during the meeting.

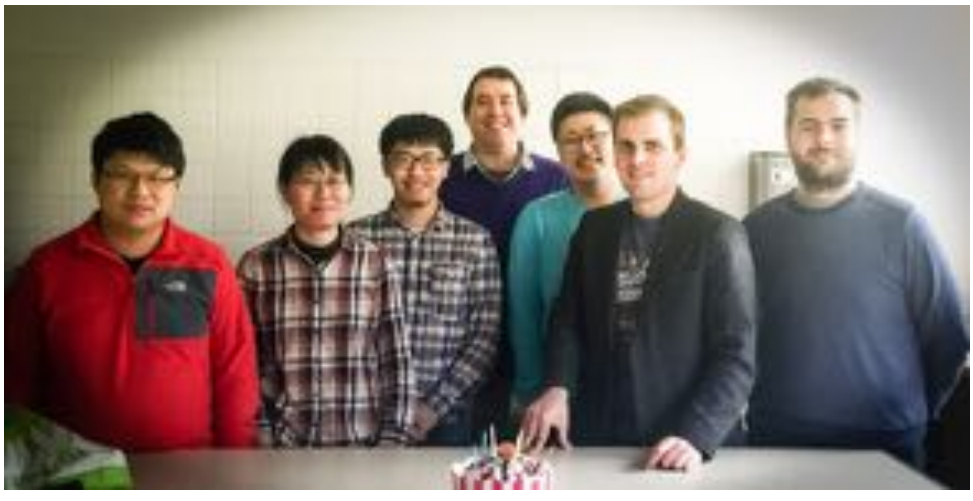
If you are interested in hearing Eric talk about his science and meeting him to discuss his other wide ranging interests then please attend the MSMLG symposium in Bath, registration will remain open until July 18th 2016. (www.msmlg2016.uk)

MSMLG 2016 Czarnik Emerging Investigator Award

John S. Fossey – The University of Birmingham

John S. Fossey is a senior lecturer at the University of Birmingham in the School of Chemistry. After his PhD he spent time as a JSPS postdoc in Japan at the University of Tokyo. There is a strong international aspect to his research outputs, especially through productive links with East China University of Science and Technology. His research interests encompass aspects of catalysis and sensing, and it is for his contributions to the later for which the *MSMLG Czarnik Emerging Investigator Award 2016*. During his time at the University of Bath he struck up productive and long-lasting collaborations with researchers there and further afield. Through combining knowledge of catalysis with the demands of modern sensing he has been able to create a platform for rapid sensor assembly and discovery. He has helped take the saccharide recognition capability of boronic acids into new and exciting directions, including heterogeneous highly-chemoselective sensors, development of a quencher elimination assays and developed strategies to exploit so-called *click chemistry* in sensor construction.

John commented *"It's an incredible honour to be recognised by the community for contributing to developing new chemosensors and strategies, and a real pleasure to be an inaugural recipient of the Czarnik Emerging Investigator Award. I am hoping to take chemosensor knowledge and catalytic capability to make smart systems where outputs are on demand synthesis. In the next few years I am hoping to translate sensing into smart drug delivery, watch this space……"*

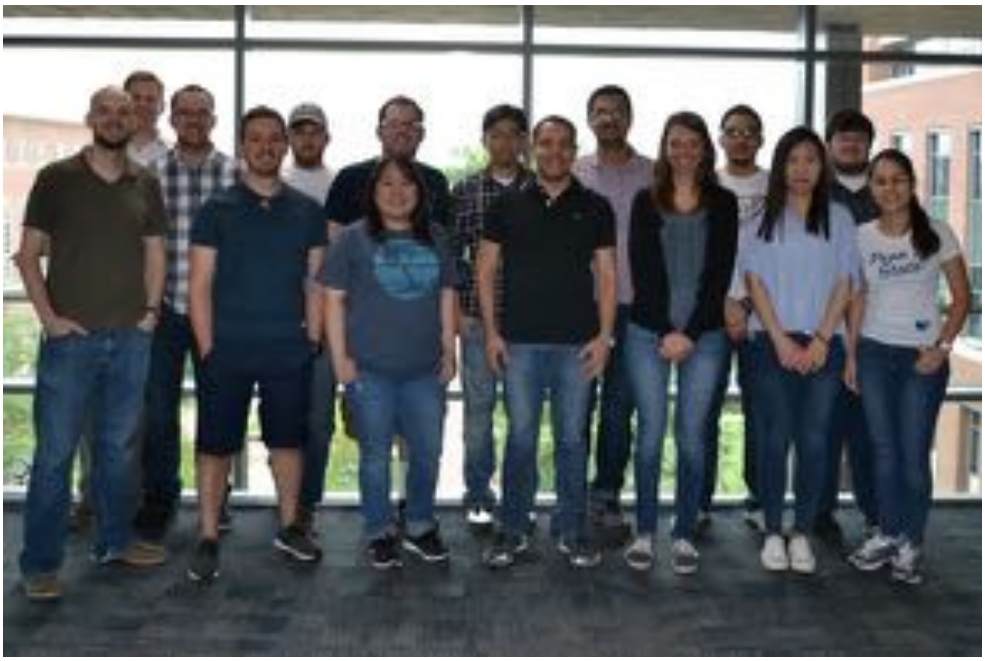


John S. Fossey and Group in Birmingham

MSMLG 2016 Czarnik Emerging Investigator Award

Scott T. Phillips – Pennsylvania State University

Scott Phillips is the Benkovic Associate Professor of Chemistry at the Pennsylvania State University. He earned his Ph.D. from Paul A. Bartlett at UC Berkeley in 2004 and trained as a postdoctoral fellow in George Whitesides' group (Harvard). He started his independent career at Penn State in 2008. His research interests include the development of thermally stable detection and signal amplification reagents, which his group is using to create new types of stimuli-responsive plastics and point-of-care diagnostics. Dr. Phillips' awards include the NSF CAREER award, DARPA Young Faculty Award, Beckman Foundation Young Investigator Award, Eli Lilly and Company Young Investigator Award, the Arthur F. Findeis Award, and he held fellowships from the Alfred P. Sloan Research Foundation and the Camille & Henry Dreyfus Foundation.



Scott T. Phillips and Group at PennState

MSMLG 2016 AP de Silva Early Career Awards

These **TWO** new awards will be selected from Early Career Researchers presenting at MSMLG2016. This will include any researcher presenting (Talk, Flash or Poster) at MSMLG2016 who does not have a permanent academic position. The awards will come with an engraved trophy from Bath A*qua* Glass and £400 prize.

AP De Silva, School of Chemistry and Chemical Engineering, Queen's University Belfast

A real-life application of de Silva's research has achieved considerable commercial success. The Fluorescent PET sensor design was used as the platform of a portable diagnostic tool – a blood gas analyser for hospital critical care units and ambulances. The specific sensors for sodium, potassium and calcium were designed, synthesized and tested in collaboration with scientists at AVL Bioscience Corporation, Roswell, GA. The product was rolled out in 1997 and has been sold by AVL, Roche Diagnostics, OSMETECH and OPTImedical in turn. The total sales of the sensor cassette is around 130M USD so far. Further information is available under 'OPTI products' on the following website: http://www.optimedical.com. Besides this human use, a veterinary variant has been licensed to IDEXX laboratories with total sales of 400M USD so far. Further information is available under 'vetstat products' on the following website: http://www.idexx.com. Besides the economic impact, the social impact of these devices extends over nearly two decades in many countries of the world.

Invitation to contribute to Supramolecular Chemistry Special Issue

For a number of years now *Supramolecular Chemistry* (the Taylor & Francis Group) has had the distinct pleasure of supporting the supramolecular community in several ways. One of these is by contributing to seminal meetings such as the upcoming MSMLG conference. A second, arguably more important contribution is to dedicate special issues of *Supramolecular Chemistry* to themes and events. This year the journal will be dedicating a (joint) special issue to the Telluride Molecular Rotors, Motors and Switches meeting, Supramolecular Chemistry Ireland Meeting and the 5th International Conference on Molecular Sensors and Molecular Logic Gates (MSMLG2016). Robert Elmes (Maynooth University), Tony James and Dan Pantos (the University of Bath) have graciously agreed to be guest-editors. We extend our gratitude to Rob, Tony and Dan for taking on this community-spirited task, but the greatest thanks that they can receive for their efforts is a large number of outstanding manuscripts. So as you start to prepare for your trip to Telluride and/or Manynooth and/or Bath, please think about how you can contribute a research paper. The stronger the issue, the more the Taylor & Francis Group is likely to contribute, the better the conference, and of course the stronger the community.
Our guest editors will be accepting manuscripts from **May 1st** until **August 31st 2016**.

For further information please email msmlg2016@bath.ac.uk with the subject line Supramolecular Chemistry Special Issue.

Philip A. Gale
(University of Southampton)

Bruce Gibb
(Tulane University)

Researcher Links Workshop

Workshop to build collaborations between the UK and China.
Workshop theme: "*Molecular Sensors and Molecular Logic Gates*"
Venue: The Chancellor's Building at the University of Bath, Bath BA27AY UK

Organisers:
Professor Tony D. James, University of Bath (t.d.james@bath.ac.uk)
Professor Mingyong Li, Shandong University (mli@sdu.edu.cn)

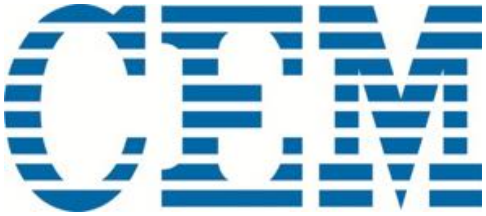
Background
'British Council Researcher Links' is a programme to provide opportunities for early career researchers from the UK and internationally to interact, learn from each other and develop opportunities for building long-lasting research collaborations.
This workshop will provide a forum designed to build relationships between early career researchers with overlapping interests, to promote collaboration that links the UK and China. Thus there will be a focus on building links for future collaborations and participants will be selected on the basis of their research potential and ability to build longer term projects. During the workshops early career researchers will have the opportunity to present their research in the form of a short oral presentations or posters.

The coordinators and other mentors will act as moderators for group discussions among participants and provide logistical advice for developing longer-term projects to continue beyond the workshop.

Sponsors:

Journals, Foundations, Societies and University of Bath

Sponsors:
Company



Programme
Conceptual Lecture and Award Lectures:

Conceptual Lecture – Sponsored by Chem from Cell Press

J Fraser Stoddart, Northwestern University

MSMLG 2016 Czarnik Award Lecture

Eric V. Anslyn, University of Texas at Austin

MSMLG 2016 Czarnik Early Career Award Lectures

John S. Fossey, University of Birmingham
Scott T. Phillips, Pennsylvania State University

RSC Surfaces and Interfaces Award Lecture

Mihail Barboiu, Institut Européen des Membranes

Plenary Lectures:

Nature Chemistry Lecture

A. P. De Silva, Queen's University Belfast

Chemical Science Lecture

He Tian, East China University of Science and Technology

Chemical Communications Lecture

Jonathan Sessler, University of Texas at Austin

ACS Sensors Lecture

Xuhong Qian, East China University of Science and Technology

ChemElectroChem Lecture

Frank Marken, University of Bath

ChemPlusChem Lecture

Jong Seung Kim, Korea University

RSC Advances Lecture

Binghe Wang, Georgia State University

Plenary Flash – Sponsored by ACS Central Science

Chris Chang, University of California, Berkeley
Young-Tae Chang, National University of Singapore
Phil Gale, University of Southampton
Bruce Gibb, Tulane University
Kate Jolliffe, University of Sydney
Ben Zhong Tang, The Hong Kong University of Science & Technology (*Materials Chemistry Frontiers* Lecture)

Poster Prizes

We are happy to announce that we will be able to award **21 poster prizes** at MSMLG2016.

The Prizes have been provided by: ACS Central Science, ACS Sensors, Chem – The Cell Press, Chemistry Central Journal, ChemPlusChem, Chemical Society Reviews, Chemical Science, Chemical Communications, Japan Society for the Promotion of Science (JSPS), RSC Advances, OBC, RSC Books, Nature Chemistry and Supramolecular Chemistry.

ACS Central Science poster prizes:
Three: $100 Gift Certificates

ACS Sensors poster prizes:
Three: $100 Gift Certificates

Chem – The Cell Press poster prize:
£100 Gift Certificate

Chemistry Central Journal poster prizes:
Anion Recognition in Supramolecular Chemistry Philip A. Gale and Win Dehaen (Editors)
Luminescence Applied in Sensor Science Luca Prodi, Marco Montalti and Nelsi Zaccheroni (Editors)

ChemPlusChem poster prizes:
Two: Molecular and Supramolecular Information Processing: From Molecular Switches to Logic Systems Evgeny Katz (Editor)

Chemical Society Reviews poster prize:
Boron: Sensing, Synthesis and Supramolecular Self-Assembly, edited by Tony James and John Fossey

Chemical Science poster prize:
Anion Receptor Chemistry by Jonathan Sessler, Philip Gale, Won-Seob Cho

Chemical Communications poster prize:
Polymeric and Self Assembled Hydrogels: From Fundamental Understanding to Applications edited by Xian Jun Loh, Oren Scherman

OBC poster prize:

Chemical Biotechnology and Bioengineering by Xuhong Qian, Zhenjiang Zhao, Yufang Xu and Jianhe Xu

RSC Advances poster prize:

Supramolecular Chemistry at Surfaces by David B Amabilino

RSC Books poster prize:

Molecular Logic-based Computation by A P de Silva

Nature Chemistry poster prizes:

Two: One year (print + online) subscriptions to Nature Chem

Supramolecular Chemistry poster prize:

Applications of Supramolecular Chemistry

Hans-Jörg Schneider (Editor)

Japan Society for the Promotion of Science (JSPS) Poster Prize for International Collaboration

Index of Presentations

Plenary

Invited and Oral Presentations

1	Kyo Han	Ahn	Development of Two-Photon Absorbing Dyes and Probes for Biomedical Imaging Applications
2	David	Amabilino	A Small Molecule Walks Along a Surface Between Porphyrin Fences That Are Assembled In-Situ
3	Pavel	Anzenbacher	Molecular Self-Assemblies Sense the Enantiomeric Excess
4	Gonen	Ashkenasy	Bifurcation and Oscillatory Behavior in Synthetic Peptide Networks
5	Alyssa-Jennifer	Avestro	Rethinking Redox – Molecular Triangles for LIBs
6	Steven	Bull	Boron Based Sensors For Determining The Enantiomeric Excess Of Chiral Analytes And For The Detection Of Fluoride And Peroxynitrite
7	Claudia	Caltagirone	Selenoureas as Colorimetric Chemosensors for Anion Recognition
8	Scott	Cockroft	Non-Equilibrium Processes in a Nanopore: from Sensors to Molecular Machines
9	Alberto	Credi	Photoactive Nanohybrids Based on Chemically Functionalized Semiconductor Quantum Dots
10	Robert	Elmes	Ratiometric Probes for Nitroreductase: Monitoring Reductive Stress in Mammalian Cells
11	Pedro	Estrela	Robust Surface Chemistry Strategies for Sensitive and Selective Aptasensors
12	John	Fossey	***MSMLG 2016 Czarnik Early Career Award Lecture*** Catalysis and Sensing: Click to Proceed
13	Chris	Frost	Approaches Towards Molecular Amplification For Sensing
14	Pablo	Gaviña	Chromo-fluorogenic Probes for the Selective Recognition of gaseous nitrogen oxides (NO_x)
15	Nicolas	Giuseppone	Supramolecular Self-Assemblies of Triarylamines: Structures, Dynamics, Functions
16	Tim	Glass	Fluorescent Logic Gates as Multi-input Sensors for Neuronal Imaging
17	Zhiqian	Guo	Dual-channel NIR Activatable Theranostic Prodrug for in vivo Tracking Thiol-triggered Chemotherapy
18	Itaru	Hamachi	Design of Logic Gate Responsive Supramolecular Hydrogel

19	Xiao-Peng (Franck)	He	Small-Molecular Glycoprobes And Supramolecular Material Glycocomposites For Disease Diagnosis and Theranostics
20	Jong-In	Hong	Electrostatics-Driven Sensing Strategy for Selective Recognition of Biological Phosphates
21	Jianli	Hua	Diketopyrrolopyrrole Based Ratiometric/Turn-on Fluorescent Chemosensors for Citrate Detection by Aggregation-Induced-Emission Mechanism
22	Feihe	Huang	Pillararene-Based Amphiphiles and Supra-Amphiphiles
23	Toby	Jenkins	Wearable Sensors for Detection of Bacterial Infection
24	Wei	Jiang	Macrocyclic Receptors with an Adaptive Cavity
25	Yun-Bao	Jiang	Ag^{+}-Thiol Coordination Polymers as Sensing Ensemble
26	Kazuya	Kikuchi	Real-time Intravital Imaging of pH Variation Associated with Osteoclast Activity
27	Hae-Jo	Kim	Design of Fluorescent Probes for Enzymes and Their Application to Cancer Diagnosis
28	Oxana	Kotova	Self-Assembly of Europium(III) With Chiral Asymmetrically Substituted Ligands in Solution and Formation of Langmuir-Blodgett Monolayers
29	Minyong	Li	Visualizing the Biological Activity by Firefly Bioluminescence
30	David	Magri	'Pourbaix Sensors': Fluorescent Molecular Logic Gates for pE and pH
31	David	Margulies	Molecules that Generate 'Fingerprints': A New Class of Fluorescent Probes for Chemical Biology and Cryptography
32	Evan	Miller	Electrophysiology: Unplugged, New Fluorescent Sensors to Image Cellular Physiology
33	Tsuyoshi	Minami	Organic Transistors Can Electrically Read Out Molecular Recognition Behaviors of Supramolecular Receptors
34	Tatsuya	Nabeshima	Highly Fluorescent Dipyrrin Complexes for Selective Guest Recognition and Switching Functions and Properties
35	Werner	Nau	Supramolecular Membrane Transport Assays
36	Jonathan	Nitschke	Transformative Cages and Luminous Chains: Functional Chemical Systems through Subcomponent Self-assembly
37	Mark A.	Olson	Harnessing Molecular Templation In Developing Soft Matter-Based Functional Materials in Water
38	Sofia	Pascu	The Use of Fluorescence Lifetime Imaging and Related Microscopy Techniques to Visualise New Hybrid Nanomaterials in Living Systems

39	Xiaojun	Peng	Fluorescent Probes for Cancer Cells Based on Micro-environmental Responses
40	Lluïsa	Pérez-García	Suspended Planar-Array Chips for Molecular Multiplexing at the Microscale
41	Scott	Phillips	***MSMLG 2016 Czarnik Early Career Award Lecture*** Molecular Sensors That Enable Autonomous Reconfiguration of Materials at the Macroscale
42	Uwe	Pischel	Tetracoordinate Organoboron Dyes as Fluorophores in Bioimaging
43	Gandra Upendar	Reddy	Light Triggered CO delivery with Turn-on Luminescence response and Biocompatible photo-CORM
44	Patricia	Remón	An Acido- and Photochromic Molecular Device that Mimics Triode Action
45	Oren	Scherman	Smart Supramolecular Sensing With Cucurbit[n]urils
46	Doron	Shabat	Turn-ON Chemiluminescence Probes with Color Modulation
47	Bakthan	Singaram	Vindaloo 4U. Development of A Rapid Assay for Measuring Gut Permeability by Recognition of Markers via AFluorescent Probe Based on Boronic Acids
48	David	Smith	Self-assembled Multivalent (SAMul) Binding and Sensing of Polyanions in Highly Competitive Media
49	Jon	Steed	Sensitive and Switchable Supramolecular Gels
50	Boosayarat	Tomapatanaget	Highly Selective Fluorescence Sensors For Biogenic Amines
51	Seiichi	Uchiyama	Measurement of Local Sodium Ion Levels near Micelle Surfaces with Fluorescent Photoinduced-electron-transfer Sensors
52	Jean	van den Elsen	Protein Glycation Analysis Using Boronic Acid-based Gel Electrophoresis Methods
53	Miko	van der Boom	Electron Transfer in Molecular Assemblies
54	Marc	Vendrell	New approaches for peptide-based fluorescent imaging probes
55	Binghe	Wang	Tuning the Reaction Rates of Fluoride Probes for Detection in Aqueous Solution
56	Leyong	Wang	Responsive Supramolecular Network Based on Pillar[6]arene-Ferrocenium Recognition Motifs in Polymeric Matrix
57	Shu	Wang	Design of Optical Functional Conjugated Molecules for Sensing and Biomedical Applications
58	Nantanit	Wanichacheva	Fluorescence Chemosensors for Hg (II) Detections: Recent Developments Based on Hydrazine, Dithio and Trithio Acyclic Ionophores

59	Mike	Watkinson	Click to Detect: The Next Generation
60	Keith Man-Chung	Wong	A Family of Novel Rhodamine Derivatives with Extended π-Conjugation As Selective Fluorescent Probes For Metal Ions and/or Analytes of Biological Interest
61	Han Young	Woo	Conjugated Polymer And Molecular Beacon Aptamer-Based Fluorescence Assays
62	Shu-Pao	Wu	Quinone Modified Mn-Doped ZnS Quantum Dots For The Room Temperature Phosphorescence Sensing Of Human Cancer Cells That Overexpress NQO1
63	Shuizhu	Wu	Fluorescent Systems for Diagnositc/Therapeutic Applications
64	Yufang	Xu	Novel Fluorophore N-FBT for Probe Intracellular Signal Transduction Pathway of Plant Activator/Immune System
65	Youjun	Yang	Biocompatible Small-Molecule Organic Dyes That Absorb and Emit in the Near-Micron Spectral Region (~800-1000 nm)
66	Juyoung	Yoon	Fluorescent Probes for Hypochlorous acid and Phosgene
67	Deqing	Zhang	Chemo-/biosensing with Aggregation Induced Emission Luminogens
68	Ying	Zhou	Phosphate Ion Targeted Colorimetric and Fluorescent Probe and Its Use to Monitor Exogenous and Endogeneous Phosphate Ion In Vivo
69	Weihong	Zhu	NIR Fluorescent Organic Nanoprobes

Flash Presentations

1	Louis	Adriaenssens	Ansa-Metallocenes as Sensors for Small Chiral Molecules
2	Satoshi	Arizono	Multispectral Imaging Using ^{19}F MRI
3	Se Won	Bae	Synthetic Artificial Receptors For Phosphate Anions: New Tools For Selective Phosphopeptides Enrichment
4	Xiaoping	Bao	Synthesis and Anion Binding Properties of 1,8-Disulfonamidocarbazole Dipyrromethane Schiff-Base Macrocycle & Its Amine Analogue
5	Richard	Blackburn	Synthesis Of Isocyanide-Derived Natural Products That Could Serve to Monitor The Actions Of Antibiotics Within Cells
6	Stephen	Butler	Developing Chemical Probes to Monitor Enzymatic Reactions Involving Nucleoside Polyphosphate Anions
7	Haider	Butt	Nature Inspired Holographic Biosensors
8	Robert	Chapman	A Protecting Group Free Strategy for the Sustainable Synthesis of Polyketide Natural Products

9	JiaJia	Chen	The Electrochemical Application Of Polyoxometalates
10	Yuzhe	Chen	Quadruple Hydrogen-Bonding-Modulated Triplet Excited States and Their Applications in Oxygen Sensing
11	Lupei	Du	Development of Fluorescent Probe for hERG Channel
12	Jianjun	Du	Fluorescent Recognition, Imaging, and Temperature Sensing by Microenvironment-Sensitive Fluorescent Dyes in Serum Albumin
13	Mehrafarin	Eilbigi Dehkordi	Synthesis of Molecules With Complex Topologies In Aqueous Media Through Dynamic Combinatorial Chemistry
14	Nick	Evans	From a Pseudorotaxane Switch to Catenanes and Rotaxanes
15	Jiangli	Fan	Lysosome-targeted Molecular Probes for Polarity Utilizing “d-PET”-controlled Fluorescence “off-on” Switching
16	Abbas D.	Farahani	Inside Gelation Processes Through X-ray Crystallography
17	Ross	Forgan	Enhancing the Crystallinity, Stability and Emission of Zr and Hf Metal-Organic Frameworks
18	Jonathan	Foster	Sensing in Two Dimensions with Metal-organic Nanosheets
19	Jean-Patrick	Francoïa	KISS (Keep It Simple, Sensor)
20	Guzman	Gil-Ramirez	Lanthanide-Directed Synthesis of Molecular Knots and Structure-Property Relationships
21	Chiara	Glionna	Dynamic Coiled Coil Protein Monolayers Implementing Orthogonal Logic Operations
22	Sean	Goggins	Ratiometric Electrochemical Detection for Reproducible and Reliable Point-of-Care Sensing
23	Arantzazu	Gonzalez-Campo	Curcuminoid-based Supramolecular Assemblies throught Host-Guest Interactions for New Coordination Polymers
24	Yuan	Guo	Spiropyran-Derived Merocyanines as a Selective Fluorescent Sensor for G-Quadruplex DNA
25	Minh-Huong	Ha-Thi	Highly Sensitive Fluorescent Sensors for the Detection of Cesium Cations
26	Jennifer	Hiscock	‘Frustrated’ Supramolecular Self-Assembly
27	Ethan	Howe	pH-Regulated Nonelectrogenic Anion Transport by Phenylthiosemicarbazones
28	Bernard	Juskowiak	DNAzyme Activity Study of Covalent Hemin-DNA Conjugates Obtained by Click Reaction
29	Euan	Kay	Dynamic Covalent Nanoparticles: Controlling Conjugation, Properties, and Assembly

30	Bowen	Ke	Cell and in vivo imaging of fluoride ion with a highly selective bioluminescent probe
31	Jonathan	Kitchen	Using Langmuir-Blodgett Deposition For The Development Of Advanced Materials
32	Emma	Lampard	A Simple Protocol for NMR Analysis of the Enantiomeric Excess of Chiral Diols Using an Achiral Diboronic Acid Template
33	Dong-Nam	Lee	Graphene Oxide-probe Conjugate System for the Selective Detection of Pyrophosphate
34	Meng	Li	Ditopic Boronic Acid and Imine-Based Naphthalimide Fluorescence Sensor for Copper(II)
35	Kun	Li	Mitochondria-Targeted Fluorescent Probe for SO_2 Derivatives in Living Cells
36	Zhiqiang	Liu	Styrylpyridine Salts as Fluorescent Indicators for Imaging Plasma Membrane and Mitochondria Membrane in Living Cells
37	Paul	McGonigal	The Shapeshifting Rearrangements of Barbaralyl Cations
38	Yu	Peng	Relay Fluorescent Recognition of Homocysteine and Ga(III)
39	Yong	Qian	Activity-Based Proteome Profiling Probes Based on Woodward's Reagent K with Distinct Target Selectivity
40	Chris	Serpell	Sequenced Polyphosphodiesters
41	Xiaolong	Sun	Selective Detection of Peroxynitrite by Using Boron-nitrogen Interaction
42	James	Taylor	Acylative Kinetic Resolution of Allylic Alcohols
43	Sam	Thompson	Single Molecule Conformational Switches Inspired by Nature
44	Laia	Vilà-Nadal	Metal Oxide Clusters In Flash Memory Devices
45	Xiaoning	Wang	Discovery of Anticancer Agents from Plants and Endophytic Fungi
46	Fuan	Wang	Amplified Detection of miRNA by Cascaded Hybridizat Reaction Circuits
47	Jiang	Wang	Application of Ni(II) Complex to Asymmetric Synthesis of Chiral Amino Acids
48	Qian	Wang	Investigations of the Aggregation Mechanism of Amyloid-β Peptides Using Fluorescence Correlation Spectroscopy
49	Xin	Wu	Nonprotonophoric Electrogenic Chloride Transport Mediated by Valinomycin-like Carriers
50	Youli	Xiao	Artemisinin Activity Based Chemical Probe for Profiling of Multiple Targets in Cancer Cell
51	Zhugen	Yang	Community Sewage Senosrs for Monitoring Public Health

52	Wenlei	Zhai	Click-fluors: Synthesis of Fluorescent Saccharide Sensors *via* a Copper-Catalysed Azide-Alkyne Cycloaddition Reaction
53	Ling	Zhang	Highly Selective and Sensitive Fluorescent Probes for Imaging and Detection of Hydrogen Sulphide in Cells, Tissues and Mice

Poster Presentations

1	David	Amabilino	A Small Molecule Walks Along a Surface Between Porphyrin Fences That Are Assembled In-Situ
2	Joerg	Axthelm	Fluorinated Boronic Acid-Appended Pyridinium Salts for Diol Recognition & Discrimination in Water using 19F NMR
3	Antoine	Bader	DNA-based logic
4	Se Won	Bae	Synthetic Artificial Receptors For Phosphate Anions: New Tools For Selective Phosphopeptides Enrichment
5	William D. G.	Brittain	Kinetic Resolution of Terminal Alkynes Utilising Triazole Formation
6	Adam D.	Brooks	Development of Phase Switching Reagents for Flow-Through Paper-Based Point-of-Care Devices
7	Stephen	Butler	Quantitative Detection of Fluoride in Water using Luminescent Europium Complexes
8	Sinead	Cabezas-Hayes	Internal redox labelling of oligonucleotides: Towards point-of-care diagnostics
9	Kang	Chang	Novel Fluorescence arginine Analogue: a Tool for the Study of the Mechanism of Plant Activator
10	Robert	Chapman	A Protecting Group Free Strategy for the Sustainable Synthesis of Polyketide Natural Products
11	Peng-Zhong	Chen	Light-Harvesting Systems Based on Organic Nanocrystals to Mimick Chlorosomes
12	James A.	Cooper	Enantio-discrimination of Metallosupramolecular Cages in Nanopores
13	Fernando	Cortezon-Tamarit	SWNT-Based Imaging Probes For Imaging of Prostate Cancer Cells
14	Fabio	De Moliner	Coumarin Glucosides as Fluorescent Probes to Interrogate Molecular Transport
15	Sylvain	Debieu	Dual-Input Fluorogenic Probes based on in Situ Formation of 7-Hydroxy-2-iminocoumarin and Pyronin Scaffolds
16	Manisha	Devi	A sandwich-type zinc complex from rhodamine dye based ligand: a potential fluorescent chemosensor for acetate in human blood plasma and a molecular logic gate with INHIBIT function

17	Jianjun	Du	Fluorescent Recognition, Imaging, and Temperature Sensing by Microenvironment-Sensitive Fluorescent Dyes in Serum Albumin
16	Mehrafarin	Eilbigi Dehkordi	Synthesis of Molecules With Complex Topologies In Aqueous Media Through Dynamic Combinatorial Chemistry
19	Felicia	Ejiah	Synthesis, Characterization And Absorption Properties Of o-Aminophenol Schiff Bases
20	Souad A.	Elfeky	Molecules Quantum Dot Capped Glutathione Sensor for Biological Molecules
21	Jiangli	Fan	Lysosome-targeted Molecular Probes for Polarity Utilizing “d-PET”-controlled Fluorescence “off-on” Switching
22	Abbas D.	Farahani	Inside Gelation Processes Through X-ray Crystallography
23	Jonathan	Foster	Sensing in Two Dimensions with Metal-organic Nanosheets
24	Jean-Patrick	Francoïa	KISS (Keep It Simple, Sensor)
25	Alessandra	Garau	New Acridine-Based Fluorescent Chemosensors For Cation And Anion Detection
26	Jordan	Gardiner	Fluorescence Analysis of Proximally Glycated Proteins
27	Haobo	Ge	Application of new functional carbon based drug delivery system for biomedical imaging
28	Tiberiu Marius	Gianga	Topologically Complex Molecules: Synthesis and Properties
29	Chiara	Glionna	Dynamic Coiled Coil Protein Monolayers Implementing Orthogonal Logic Operations
30	Sean	Goggins	Ratiometric Electrochemical Detection for Reproducible and Reliable Point-of-Care Sensing
31	Jules L.	Hammond	Nanogap Devices For Electrochemical And Capacitive Sensing
32	Yandi	Hang	Probing Sugar–Lectin Recognitions In The Near-Infrared Region Using Glyco-Diketopyrrolopyrrole
33	Minh-Huong	Ha-Thi	Highly Sensitive Fluorescent Sensors for the Detection of Cesium Cations
34	Haihong	He	Green light triggered release of NO
35	Sarah H.	Hewitt	Ruthenium tris(bipyridines) for protein surface recognition
36	Ethan	Howe	pH-Regulated Nonelectrogenic Anion Transport by Phenylthiosemicarbazones
37	Woomin	Jeong	Photo-swtichable Inks for Reusable Paper
38	Xiaotong	Jia	A FRET-based cyanine dye to ratiometric Fluorescence Detection of Peroxynitrite

39	Tao	Jiang	Dibenzo[a,c]phenazine-derived near-infrared fluorescence biosensor for detection of lysophosphatidic acidbased on the aggregation-induced emission
40	Alex D.	Johnson	Synthesis and Characterisation of Novel Pourbaix Sensors for Cell Imaging Applications
41	Pawan	Jolly	Highly Sensitive Multi-Modal Electrochemical Platform for MicroRNA Detection
42	Caroline	Jones	Iodide As An Activating Agent For Acid Chlorides In Acylation Reactions
43	Yongwoong	Jun	Development of Two-Photon Excitable Lysosomal Zinc Probe
44	Hyo Sung	Jung	Iron Oxide Nanoparticle based Mitochondrial Heat Delivery System for Cancer Therapy
45	Navdeep	Kaur	Development of BODIPY Dyes as Colorimetric and Flourmetric Chemosensors for Ionic Analytes
46	Kathryn	Kellett	Detecting Mephedrone in a Simulated Street Sample using Host-Guest Chemistry
47	Hoon Jun	Kim	Electrogenerated Chemiluminescence Probes for Sulfide Based on Cyclometalated Ir(III) Complexes
48	Hyunsu	Kim	A water-soluble fluorescent probe based on a coumarin–hemicyanine for sensitive detection of peroxynitrite
49	Ji-Yeong	Kim	Versatile Applications of Polydiacetylenes
50	Youngsam	Kim	Phenyl Selenium-Based Glutathione Seletive Probe with Exceptional Time Response
51	Naresh	Kumar	Chemically Functionalized Calix[4]arenes: Fluorescent Probes for Potassium ions
52	Chak-Shing	Kwan	A Fluorescent and Switchable Rotaxane Dual Organocatalyst
53	Nahyun	Kwon	DT Diaphorase Sensing Fluorescent Probe for Hypoxia Imaging in Tumor Cells
54	Emma	Lampard	Benzoxaboroles For Membrane Separation
55	Dayoung	Lee	Tumor-Targeting Agent for in Vivo Near-Infrared Imaging and Phototheraphy
56	Dong-Nam	Lee	Graphene Oxide-probe Conjugate System for the Selective Detection of Pyrophosphate
57	Zuhai	Lei	Practical Near-Infrared Fluorophores Featuring a Molecular Core-Shell Structure
58	Ling	Li	Ratiometric Rhodol Derivatives As Selective Fluorescent Probe For Hg(II) Ion and Hypochlorous Acid
59	Simone	Limberti	Synthesis and characterization of borazine derivatives

60	Marina	Lledós	New Bifunctional Chelators for Metals: from Molecules to Materials and their Biomedical Applications
61	Carlos	Lopez	Developing An Easy-to-use Fluoride Colorimetric Sensor For Drinking Water
62	Xiao	Luo	Synthesis of A Xanthene Library of Functional, Topographical and Stereochemical Diversity.
63	Romain	Mailhot	Tuning Selectivity Between Polyphosphate Anions Using Fluorescent Metal Complexes
64	Margaret K.	Meadows	A Bioorthogonal Coupling Reaction Triggered by Addition of a Boronic Acid
65	Vincenzo	Mirabello	Donor-Acceptor FRET complex of Thermally Reduced Graphene Oxide And Naphthalenediimides For Fluorescence Biomiging of Cancer Cells
66	Yen Leng	Pak	Mitochondria-targeted Fluorescence Probe for Hydrogen Sulfide.
67	Dong-Hoon	Park	Human sweat pore mapping based on inkjet-printable hydrochromic polydiacetylene precursor
68	Sang Jun	Park	A Two-Photon Carboxylesterase-Selective Ratiometric Probe for Hepatocytes and Liver Tissue Imaging
69	Seokan	Park	Activatable Fluorescent Probe for γ−Glutamyltranspeptidase and the Sensitive Detection of Colon Cancer
70	Giacomo	Picci	Modulation of the Optical Imaging Properties of Lipid-based Liquid Crystalline Nanoparticles Loaded with a BODIPY Derivative
71	Panida	Praikaew	Rhodamine B Hydrazide-Modified Silica for Preliminary screening of Hg2+ Ions in Aqueous Samples by Naked Eyes
72	Giulio	Ragazzon	Co-conformational Energy Transfer Within a Rotaxane
73	Angela	Riccia	A Novel Ozadiazole-based Fluorescent Chemosensor for Metal Ions and Anions
74	Chonticha	Sahub	Effective Graphene Quantum Dots Biosensor for Pho-toluminescence Detection of Organophosphate Pesticides
75	Daniel D.	Sanz Sharley	Acetic Acid As A Catalyst For The N-Acetylation of Amines
76	Adam	Sedgwick	A novel nitrone bodipy sensor for the detection of radicals in-vitro
77	Jake C.	Spiteri	PET and ICT Processes Regioselective ‘Pourbaix Sensors’ with Path-Selective
78	Liam	Stevens	A Novel Class of Antibiotic for Treatment of Pathogenic Bacteria
79	Xiaolong	Sun	Chemically reactive detection of nerve agents via optical protocols coupled with auto-inductive amplification

80	Yordkhuan	Tachapermpon	Fluorescein derivative: Highly Cu2+ -sensitive and selective fluorescence probes in batch, flow analysis and its application in living cell imaging
81	Manunya	Tepakidareekul	A Coumarin Micellar Probe For Histidine And Histamine Sensing
82	Sopida	Thavornpradit	“Visual-eye” and “ON-OFF” Hg2+-selective sensing through FRET based on fluorescein-rhodamine systems
83	Serife	Ustuner	Novel Approach of Electrochemistry for the Detection of α-Chymotrypsin Enzyme
84	Laia	Vilà-Nadal	Metal Oxide Clusters In Flash Memory Devices
85	Qian	Wang	Investigations of the Aggregation Mechanism of Amyloid-β Peptides Using Fluorescence Correlation Spectroscopy
86	Nicholas Dominelli	Whiteley	The Limit of Cooperativity in H-bond Chains
87	Xin	Wu	Nonprotonophoric Electrogenic Chloride Transport Mediated by Valinomycin-like Carriers
88	Qui Pham	Xuan	Detection of Cesium Ion: New Water-Soluble Fluorescent Molecular Sensor
89	Xiao-Sheng	Yan	Conformational Communication in Diphenylalanine Based Azatripeptides
90	Liupan	Yang	Guest binding properties of conformationally adaptive macrocycles and effects of conformational change on nanostructural morphologies
91	Zhugen	Yang	Community Sewage Senosrs for Monitoring Public Health
92	Ru-Jia	Yu	Metal-linked immunosorbent assay (MeLISA): the enzyme-free alternative to ELISA for biomarkers detection in serum
93	Qian	Zhang	FRET Device Fabricated on Ag(I)-Coordination Polymer Platform Facilitated by Argentophilic Interaction
94	Chi	Zhang	Stimuli Responsive Catalysis
95	Lei	Zhang	One Small Molecule as Theranostic Agent with Two Faces of Efficient Functions: Naphthalimide Dye for Subcellular Fluorescent Localization and Photodynamic Therapy in vivo
96	Qingshu	Zheng	Understanding Aurophilic Interactions
97	Jing-Hui	Zhu	Dual-Channel Fluorescent Probes for Various Chemo-Stimuli Based on A Hybrid of Coumarine and Rhodamine
98	Yifan	Zhu	Novel Rhodamine Derivatives With an Extended Conjugated System: Deep Red/NIR Fluorescent Probes for Selective Metal-Ion Sensing and Potential Bio-Imaging

99	Pavel	Zhurauski	Detection of Prostate Specific Antigen by Localized Surface Plasmon Resonance of Polyethylene Glycol Coated Gold Nanoparticles on Glass Substrates

Additional Posters

100	Satoshi	Arizono	Multispectral Imaging Using 19F MRI
101	Wenlei	Zhai	Click-fluors: Synthesis of Fluorescent Saccharide Sensors via a Copper-Catalysed Azide-Alkyne Cycloaddition Reaction

Programme: The 5th International Conference on Molecular Sensors and Molecular Logic Gates (MSMLG2016)

The Chancellor's Building at the University of Bath from 24th to 28th of July 2016

Sunday 24th July in CB 1.10			
4.30	Registration		
5.30	Fraser Stoddart	Conceptual Lecture – Sponsored by Chem from Cell Press	
7.00	Dinner in Claverton Rooms (University of Bath)		
2.00	Bar Closes		
Monday 25th July in CB 1.10			
8.30	Opening	MSMLG Czarnik Awards Ceremony	
8.50	Eric Anslyn	***MSMLG Czarnik Award***	
9.30	Chris Chang	ACS Central Science (Flash)	
9.40	Young-Tae Chang	ACS Central Science (Flash)	
9.50	Bruce Gibb	ACS Central Science (Flash)	
10.00	He Tian	Chemical Science Lecture	
10.30	Coffee		
	Session 1 in CB 1.10	Session 2 in CB 1.11	Session 3 in CB 1.12
11.00	Flash 1	David Amabilino	Weihong Zhu
11.30	Hae-Jo Kim	Flash 2	Nicolas Giuseppone
12.00		John Fossey ***Czarnik Emerging Investigator Award***	
12.30	Lunch and Presentation by JSPS on Funding Opportunities (www.jsps.org)		
13.30	Flash 3	Kyo Han Ahn	Minyong Li
14.00	Sofia Pascu	Flash 4	Pavel Anzenbacher
14.30	Patricia Remón Ruiz	David Margulies	Flash 5
15.00	Coffee		
15.30	Flash 6	Kazuya Kikuchi	Xiaojun Peng
16.00	Yun-Bao Jiang	Flash 8	Boosayarat Tomapatanaget
16.30	Flash 7	Nantanit Wanichacheva	Flash 9
17.00	Claudia Caltagirone	Rob Elmes	Xiao-Peng (Franck) He
17.20	Han Young Woo	Keith Man-Chung Wong	Alyssa-Jennifer Avestro
17.40	Seiichi Uchiyama	Jianli Hua	Wei Jiang
18.00	End of Sessions		
18.00	**Posters**		
19.30	Drinks reception in The Edge (University of Bath)		

Tuesday 26th July in CB 1.10			
8.30	Jong Seung Kim	ChemPlusChem Lecture	
9.00	Phil Gale	ACS Central Science (Flash)	
9.10	Kate Jolliffe	ACS Central Science (Flash)	
9.20	Ben Zhong Tang	Materials Chemistry Frontiers Lecture	
9.30	Jonathan Sessler	Chemical Communications Lecture	
10.00	Coffee		
	Session 1 in CB 1.10	Session 2 in CB 1.11	Session 3 in CB 1.12
10.30	Flash 10	Uwe Pischel	Itaru Hamachi
11.00	Oren Sherman	Flash 11	Bakthan Singaram
11.30	Juyoung Yoon	Gonen Ashkenasy	Flash 12
12.00	Shuizhu Wu	Gandra Upendar Reddy	Lluïsa Pérez-García
12.30	Lunch & Group Photo by Lake (www.bristol-drones.co.uk)		
13.30	End of Sessions		
From 2.00	UK-China Researcher Links Workshop (Registered Participants Only)		

Wednesday 27th July in CB 1.10			
8.30	Frank Marken	ChemElectroChem Lecture	
9.00	Xuhong Qian	ACS Sensors Lecture	
9.30	Scott Phillips	***Czarnik Emerging Investigator Award***	
10.00	Coffee		
	Session 1 in CB 1.10	Session 2 in CB 1.11	Session 3 in CB 1.12
10.30	Flash 13	Feihe Huang	Jon Steed
11.00	Mike Watkinson	Flash 14	Tatsuya Nabeshima
11.30	Shu Wang	Werner Nau	Flash 15
12.00	Lunch & Presentation by British Council on Funding Opportunities with China		
13.00	Oxana Kotova	Miko van der Boom	David Smith
13.30	Doron Shabat	Yufang Xu	Toby Jenkins
14.00	Chris Frost	Jean van den Elsen	Tim Glass
14.30	Deqing Zhang	Jong-In Hong	Jonathan Nitschke
15.00	Coffee		
15.30	Flash 16	David Magri	Leyong Wang
16.00	Evan Miller	Flash 17	Scott Cockroft
16.30	Alberto Credi	Steven Bull	Flash 18
17.00	Zhiqian Guo	Pablo Gaviña	Tsuyoshi Minami
17.20	Marc Vendrell	Ying Zhou	Pedro Estrela
17.40	Mark A. Olson	Youjun Yang	Shu-Pao Wu
18.00	End of Sessions		
18.30	Coaches to City		
19.00	Dinner at Jimmys		

Thursday 28th July in CB 1.10		
9.30	Mihail Barboiu	RSC Surfaces and Interfaces Award Lecture
10.30	Coffee	
11.00	Binghe Wang	RSC Advances Lecture
11.30	AP DeSilva	Nature Chemistry Lecture
12.00	Poster Awards Ceremony	
12.30	Lunch	
13.00	End of Meeting	

Flash Presentations

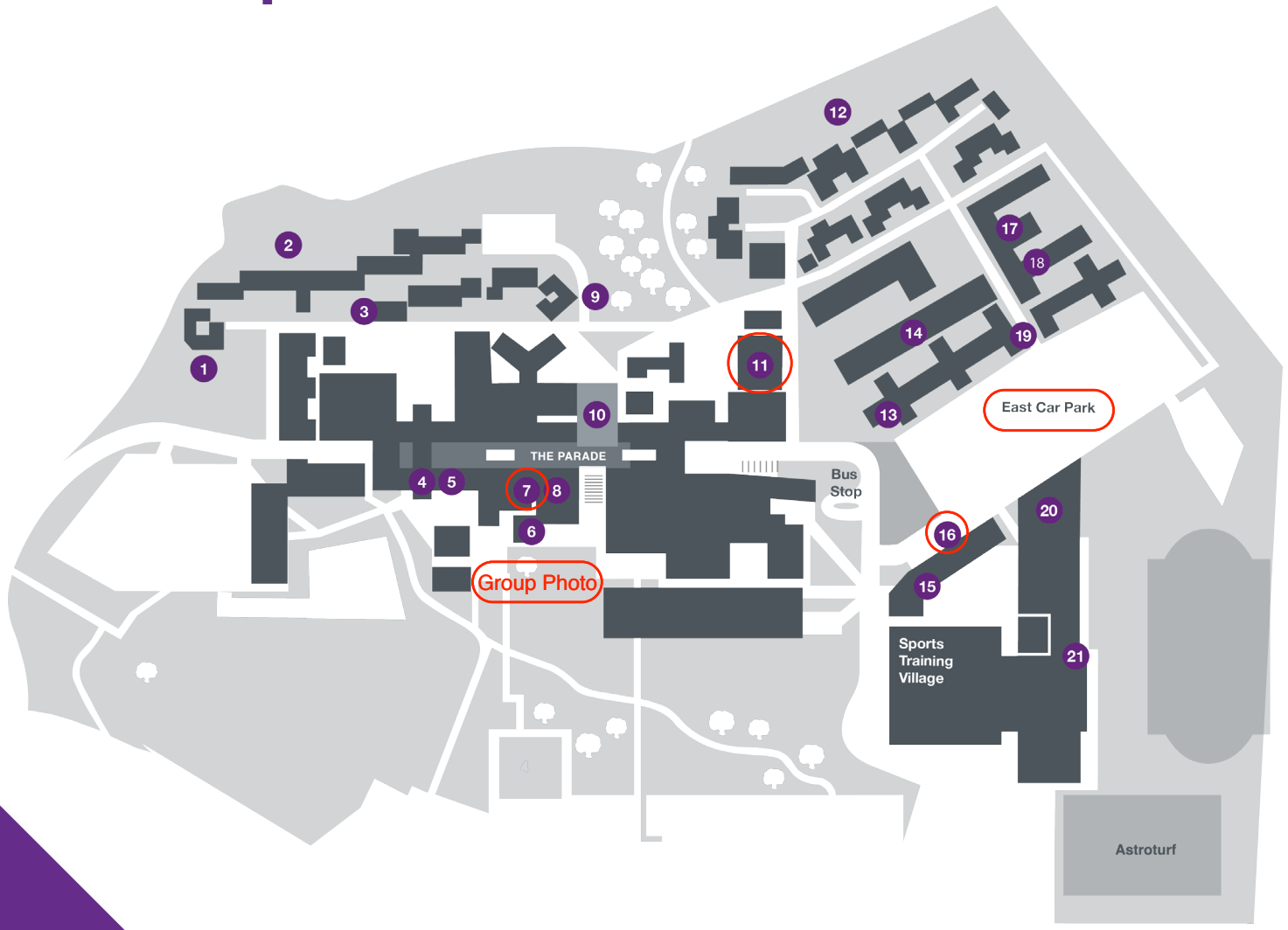
Monday 25th July					
	Flash 1		Flash 2		Flash 3
11.00	Jennifer Hiscock	11.30	Jonathan Kitchen	13.30	Bowen Ke
11.10	Laia Vilà-Nadal	11.40	Ethan Howe	13.40	Youli Xiao
11.20	Qian Wang	11.50	Xin Wu	13.50	Euan Kay
	Flash 4		Flash 5		Flash 6
14.00	Sam Thompson	14.30	Chris Serpell	15.30	Stephen Butler
14.10	James Taylor	14.40	Xiaoping Bao	15.40	Meng Li
14.20	Lupei Du	14.50	Kun Li	15.50	Jean-Patrick Francoïa
	Flash 7		Flash 8		Flash 9
16.30	Haider Butt	16.00	Zhugen Yang	16.30	Wenlei Zhai
16.40	JiaJia Chen	16.10	Yuzhe Chen	16.40	Yuan Guo
16.50	Robert Chapman	16.20	Yu Peng	16.50	Minh-Huong Ha-Thi
Tuesday 26th July					
	Flash 10		Flash 11		Flash 12
10.30	Paul McGonigal	11.00	Richard Blackburn	11.30	Jonathan Foster
10.40	Emma Lampard	11.10	Guzman Gil-Ramirez	11.40	Ling Zhang
10.50	Satoshi Arizono	11.20	Fuan Wang	11.50	Bernard Juskowiak
Wednesday 27th July					
	Flash 13		Flash 14		Flash 15
10.30	Sean Goggins	11.00	Louis Adriaenssens	11.30	Ross Forgan
10.40	Jianjun Du	11.10	Nick Evans	11.40	Jiangli Fan
10.50	Xiaolong Sun	11.20	Xiaoning Wang	11.50	Yong Qian
	Flash 16		Flash 17		Flash 18
15.30	Zhiqiang Liu	16.00	Abbas D. Farahani	16.30	Se Won Bae
15.40	Jiang Wang	16.10	Chiara Glionna	16.40	Mehrafarin Eilbigi Dehkordi
15.50	Dong-Nam Lee	16.20	Arantzazu Gonzalez-Campo	16.50	

UK-China Researcher Links Workshop (Registered Participants Only)

The Chemistry Building, 1 South Room 0.01

Tuesday 26th July	
14.00	Introduction
14.30	Networking Activities
3.30	Coffee
3.00	Networking Activities
18.30	Coach to City
19.30	Researcher Links Dinner & Networking Event (www.ThePennyLane.co.uk)
23.15	Coach to University
23.30	End of Workshop

Our campus



1. Polden Court
2. Westwood
3. West Accommodation Centre
4. Wessex Restaurant
5. 4W Café
6. Parade Bar & Grill
7. Claverton Rooms
8. Fountain Canteen
9. Brendon Court
10. Library
11. Chancellors' Building
12. Eastwood
13. lime tree
14. Solsbury Court
15. CAFE
16. The Edge
17. Woodland Court
18. East Accommodation Centre
19. The Quads
20. East Building
21. Sports Café

ahs every experience matters

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