



76th GASG Colloquium

Programme & Registration Form

“Early Career researchers in gas/volatile analysis and sensing”

3rd Early Career Researchers Meeting

**Royal Society Kavli International Centre,
Chicheley Hall, Chicheley, MK16 9JJ**

Thursday, 12th March 2020

Session Chair: Adrian King (AWE & GASG)

Plenary Speaker: Prof. David Smith FRS (Trans Spectra &
Keele University)

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76th GASG Colloquium

Programme

10.15 Registration, tea and coffee; setting up posters

10.45 Welcome by *Norman Ratcliffe (UWE)*

10.50 *Plenary Lecture - The unique SIFT-MS; real time analysis of VOCs in air and exhaled breath*
by David Smith (Trans Spectra)

11.20 “Characterisation of breath volatiles during the hungover state: by SIFT-MS” Keith Hewitt (UWE)

11.35 “Bench top instrumentation for characterisation of gas emissions from a composite material at elevated temperatures and the effect on the on-board air quality” Célia Lourenço (Cranfield University)

11.50 “Percolation networks of conductive polymers for highly sensitive explosives vapour detection” Merrel Lefferts (University of Oxford)

12.05 “Chemical- Based Sensors for the Detection of Volatile Compounds” Matteo Fois (UWE)

12.20 Lunch & Poster Session

13.30 Key note “A review of mass spectrometry (MS) for detection of volatile compounds (VCs) for biomedical applications” Oliver Gould (UWE)

13.45 “An optical fibre CO₂ sensor with potential for remote sensing” James Barrington (Cranfield University)

14.00 “Inkjet-Printed Nanocomposites for Mass Pollution Sensing” Frazer Barnes (UWE)

14.15 “Graphene -on-CMOS integration for food safety application” Alan Leung (Swansea University)

14.30 Coffee/tea break

14.45 “Development of a Chemical Species Tomographic Imaging System to Measure Emissions from Large-Scale Commercial Aero-Engines” Abhishek Upadhyay (University of Strathclyde)

15.00 “Selected Ion Flow Tube Mass Spectrometry monitoring of NO_x for wound dressings” Kelly Westmacott (UWE)

15.15 “Gas Sensing using a 2-Dimensional (2D) material on a Pyroelectric Device” Stephen Mbisike (Edinburgh University)

15.30 “Multipoint Gas Detection Using Range Resolved Interferometry” J Bremner (Cranfield University)

15.45 Prize Giving

15.50 Close, tea and coffee



Posters

“Comparison of H₂SO₄, HCl and NaOH for method optimisation of SPME-GC-MS analysis in urine“ by Prashant Aggarwal & James Baker (University of Liverpool)

“*Title tbc* “ by Alhulw Alshammari (University of Sheffield)

“*Title tbc* “ by Kiran Ayyala (University of Warwick)

“Can Volatile Organic Compounds From Urine Be Used in the Detection and Ongoing Management of Bladder Cancer?“ by Terry Devine (University of the West of England)

“Nitric Oxide and Nitrogen Dioxide Measurement at Extremely Low Concentrations“ by Phoebe Ellis (University of the West of England)

“ Research on a metal oxide filter system for air purification” by Sara Lee Spanggaard Krog (University of the West of England)

“Sniffing out bacterial antibiotic resistance“ by Amy Smart (University of the West of England)

“Investigating the use of gas sensors for breath analysis of detecting diseases using cluster-decorated printed graphene“ by Erica Watchorn (Swansea University)

“A preliminary investigation into the impact of tonsilloliths on oral malodour using Selected Ion Flow Tube Mass Spectrometry“ by Kelly Westmacott (University of the West of England)

GASG Early Career Forum Registration

Please complete and return by email to: admin@gasg.info

Name

Email address

Member Type

(Member / corporate member / non-member / speaker)

Company

Invoice Address

Registration Fees

Speakers / Poster presenters £50

GASG member £75

GASG corporate member up to 2 places free, £75 thereafter

Non-member £150

All registration fees include lunch and refreshments

Payment Methods

Credit Card or Debit Card Payments:

Please use the 'Pay Now' button on the invoice or via PayPal - paypal.me/GASG

BACS Payment:

BARCLAYS, Account Number 10692921, Sort Code 20-05-74

Address: Gas Analysis and Sensing Group, Unit 9, Knowl Piece Business Centre, Knowl Piece, Wilbury Way, Hitchin, Herts, SG4 0TY

NEXT MEETING: 11th June 2020, Royal Navy Museum, Portsmouth, "Defence and Security".



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