

IAQM

# DMUG 2017

Programme



The IAQM acts as the voice of air quality in the UK by producing useful and timely guidance on matters affecting air quality professionals and by responding to government consultations.

We have a busy CPD calendar each year, with attendance at the majority of events being free or heavily discounted for members. We also publish reports and journals concentrating on the science, modelling, policy and legal issues surrounding air quality.

The IAQM is the largest membership organisation for air quality professionals in the UK.

**09:00 – 09:25**    **Registration and refreshments**

**09:25 – 09:30**    **Roger Barrowcliffe** (IAQM)  
Introduction and welcome

**09:30 – 10:00**    **Emma Gibbons** (Arup)  
How should we address model uncertainty in the assessment of major infrastructure projects?

**10:00 – 10:30**    **Rosie Brook** (Aether)  
Air Pollution in London: Exposure and Deprivation

**10:30 – 11:00**    **Amy Stidworthy** (CERC)  
Optimising local air quality models with sensor data: examples from Cambridge

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**11:00 – 11:20**    **Refreshments and networking**

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**11:20 – 11:50**    **Kieran Laxen** (Air Quality Consultants)  
Assessing the impacts of short-term power generation

**11:50 – 12:20**    **Adam Clegg** (AMEC)  
An alternative method for modelling the dispersion of flare emissions

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**12:20 – 13:30**    **Lunch**

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**13:30 – 13:40**    **Roger Barrowcliffe** (IAQM)  
Introduction

**13:40 – 14:10**    **Dr Marc Stettler** (Imperial College)  
Modelling of instantaneous vehicle emissions

**14:10 – 14:40**    **Dr James Tate** (Leeds University)  
Better estimation of vehicle emissions for modelling using telematics data

**14:40 – 15:10**    **Dr Glyn Rhys-Tyler** (Independent)  
Road vehicle exhaust emissions: 'an age of uncertainty'

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**15:10 – 15:30**    **Refreshments and networking**

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**15:30 – 16:00**    **Dr Jian Zhong** (Birmingham University)  
Modelling the neighbourhood-scale dispersion of ultrafine particles using WRF-LES

**16:00 – 16:30**    **Roger Barrowcliffe** (IAQM)  
Plenary

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**16:30 – 17:00**    **Networking**

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## Speakers



**Rosie Brook**  
Environmental  
Consultant at  
Aether

Rosie is a consultant at Aether, an environmental consultancy which specialises in air quality and GHG emissions inventories, forecasting and policy analysis. Rosie joined Aether in 2015 after graduating from the University of Birmingham. She is experienced in compiling national emissions inventories and has conducted numerous commercial and residential air quality assessments. She has worked on a variety of projects gaining a detailed knowledge of core inventory compilation through national emissions inventory compilation. This is supported through work supporting Member States with their GHG Projection estimates and assisting the Environment Agency of Iceland with their air quality and GHG emission inventories.



**Kieran Laxen**  
Senior Consultant  
at Air Quality  
Consultants

Kieran is a Senior Consultant with Air Quality Consultants. He joined AQC in 2008 with a background in Engineering. He currently works on a range of projects involving monitoring, modelling and assessment. Kieran has helped develop AQC's approach to assessing impacts from short-term operating plant and has been involved in assessing impacts from point sources such as STOR facilities, CHP plant and Anaerobic Digestion facilities, as well as from roads schemes.



**Adam Clegg**  
Associate Director  
and Technical  
Leader at Amec  
Foster Wheeler

Adam specialises in ambient air quality monitoring, emission inventory development and reporting, atmospheric dispersion modelling, abatement of air emissions, environmental permitting, Best Available Technique (BAT) assessments and cost-benefit analysis. His principal focus is the oil and gas sector but he also has experience in a wide range of other industrial sectors including power, chemicals, pharmaceuticals, food and drink, waste, minerals/mining and pulp and paper.



**Glyn Rhys-Tyler**  
Independent  
Consultant and  
Researcher

Dr Glyn Rhys-Tyler FCIHT FCILT is an independent consultant and researcher specialising in the field of highway transportation and environmental policy. He has 27 years' experience in transportation planning, transport modelling, traffic engineering, research, and environmental assessment, having worked both in the private consultancy sector and academia. In recent years he has delivered research projects and been an adviser on road vehicle emissions issues to organisations including the DfT, Defra, TfL, and the Transport Systems Catapult. He gained his PhD at Newcastle University, researching the exhaust emissions characteristics of road vehicles.



**Emma Gibbons**  
Senior Air Quality  
Consultant at Arup

Emma is a Senior Air Quality Consultant at Arup, with expertise in ambient and indoor air quality. She has experience in air quality modelling, monitoring, local air quality management and impact assessment. She has worked with clients from a wide range of sectors, including local authorities, government agencies, property developers, and from the rail, waste and construction industries, to provide advice on planning, policy and permitting. She joined Arup in 2015, having previously worked at RSK and TRL.



**Marc Stettler**  
Lecturer in Transport  
and Environment  
at Imperial College  
London

Dr Marc Stettler is a lecturer in Transport and the Environment in the Centre for Transport Studies, Department of Civil and Environmental Engineering, Imperial College London. Marc's research focusses on evaluating and reducing air quality impacts of transport, using and range measurement and modelling tools. Recent projects have included evaluating real-world vehicles emissions, quantifying freight emissions in London using vehicle telematics and, investigating potential emissions benefits of autonomous vehicles. Marc was previously a research associate in the Centre for Sustainable Road Freight and Energy Efficient Cities Initiative at the University of Cambridge, where he also completed his PhD.

## Speakers



**Amy Stidworthy**  
Principal Consultant  
at CERC

Amy is a Principal Consultant at CERC, where she is a senior member of the team developing the ADMS suite of air pollution dispersion models. Amy also manages CERC's 'airTEXT' street-scale air pollution forecasting service. Before joining CERC in 1999 as a Model Developer, Amy worked for the Met Office as a Model Developer for two years; prior to that she graduated with a Mathematics Degree from the University of Cambridge and a Masters Degree in Weather, Climate and Modelling from the University of Reading.



**James Tate**  
Researcher at Leeds  
University

Dr James Tate researches the impact of road transport on the environment. He develops and applies new approaches to survey and model traffic movements and the emission performance of the UK/ EU road transport fleet. James uses this evidence and research capability to design and assess the impact of policy interventions such as LEZs, CAZs and the introduction of Low Emission Vehicles. The findings from this programme of high impact, interdisciplinary research are widely disseminated in academic publications and wider media, and are embedded in his University teaching.



**Jian Zhong**  
Atmospheric  
Modeller at the  
University of  
Birmingham

Jian Zhong is an atmospheric modeller specialising in large eddy simulation (LES) and air quality. He completed his PhD in Geography and Environmental Sciences in 2015 at the University of Birmingham, with a study of modelling air pollution within a street canyon. Subsequently, he took up the post of Postdoctoral Research Fellow at the University of Birmingham, with a focus on modelling the flow and thermal structures, and the behaviour of traffic-generated nanoparticles in the urban atmospheric boundary layer using the Weather Research and Forecasting (WRF) model and the LES model.

## Exhibitors

Exhibiting at DMUG 17 are some of the leading companies within air quality. Make sure you stop by and introduce yourself.



### TSI

TSI, a world leader in particle measurements for over 50 years, offers a variety of instruments for real-time, direct-reading results. Every day, thousands of people use TSI's trusted DustTrak™ products and IAQ probes for environmental and process monitoring. The new Environmental DustTrak™ Aerosol Monitor, a reliable solution for facilitating long-term outdoor environmental monitoring, has achieved MCERTS certification. The instrument provides near-reference method quality data, and can be set up and collecting data in less than an hour. MCERTS certified models are now available for measuring PM10, PM2.5 and both PM10 and PM2.5. Our UK based service department also ensures your instruments are calibrated and serviced by TSI in market leading turnaround time.



### Air Monitors

Based in the UK, Air Monitors is an independent, privately owned company representing some of the world's leading environmental monitoring technology manufacturers. Providing monitoring solutions which encompass the very best products, technologies and services, Air Monitors offers technical support, maintenance, calibration, operation, analysis and reporting services in addition to the sale or hire of monitoring equipment. Typical applications include the monitoring of particulate matter and gaseous pollutants in both workplace and ambient air.

The staff at Air Monitors are experts in air quality; able to provide help and guidance on which technologies are best suited for specific applications.



### Enviro Technology Services Ltd

Enviro Technology Services Ltd is a world leader in the supply, installation and servicing of air quality and emissions monitoring equipment and systems. Founded in 1983, it has been at the heart of the air monitoring industry for 34 years and is active in over 50 countries. The Gloucestershire based company sells and leases equipment, systems and services covering the monitoring of ambient air quality (AQM) and continuous emissions (CEM). ET also supplies cutting-edge analytical equipment for scientific and research monitoring including the monitoring of greenhouse and toxic gases. With one of the UK's largest network of service engineers in the industry, ET services air monitoring equipment on 500+ sites across the UK and Ireland.

## Delegates

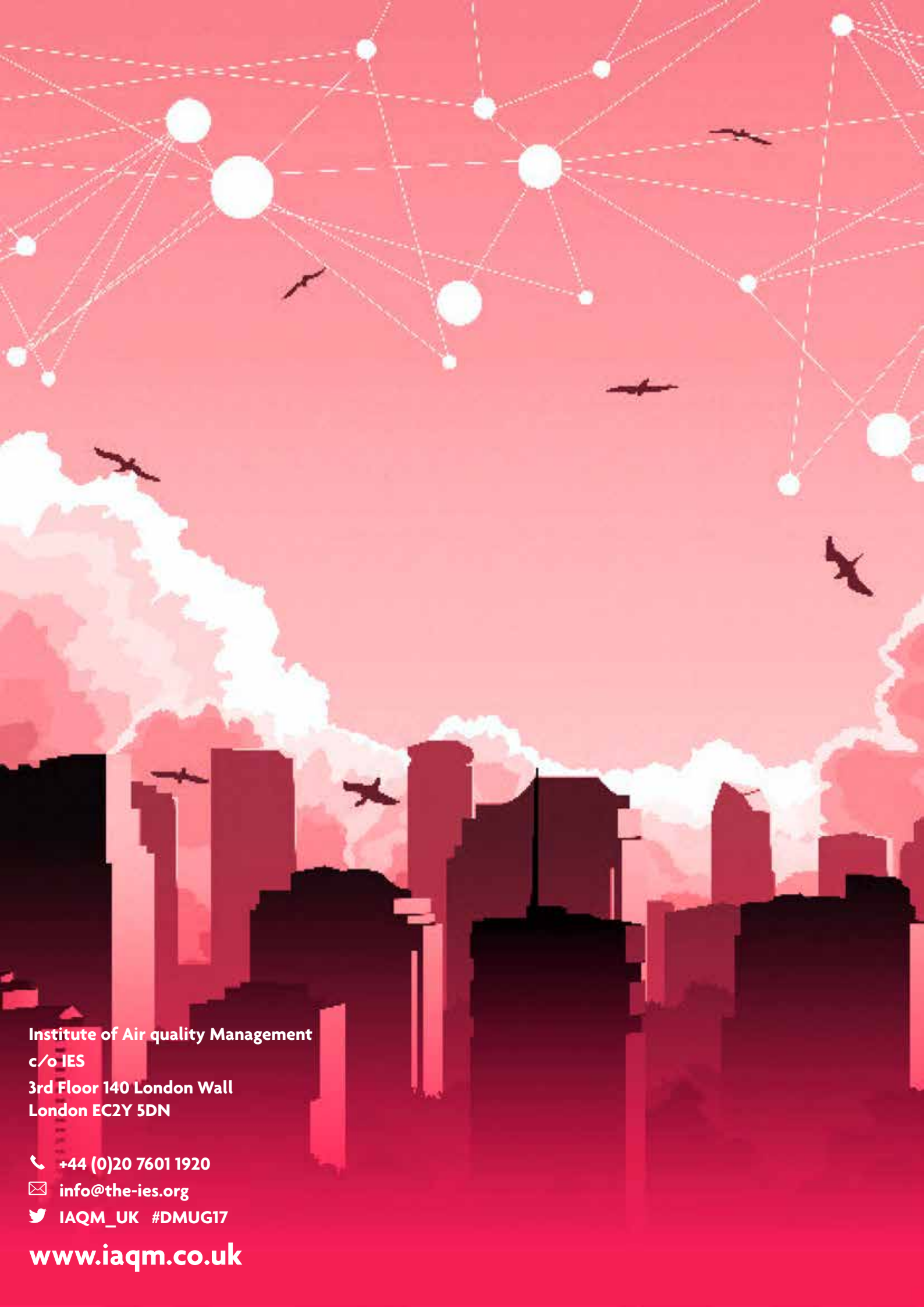
Name	Company	F	
<b>A</b>		Aidan Farrow	Air Quality Consultants Ltd
Matt Askin	Environment Agency	Luke Farrugia	CH2M
Sarah Atkinson	Swansea University	Chloe Fellows	WSP   Parsons Brinckerhoff
Emre Aydin	WSP Sverige AB	Rosalind Flavell	Fichtner
<b>B</b>		Chloe Fletcher	Institution of Environmental Sciences
Kathryn Barker	RPS Group Plc	<b>G</b>	
Matthew Barnes	Wardell Armstrong	Emma Gibbons	ARUP
Roger Barrowcliffe	Clean Air Thinking	Claire Giribaldi	ERM
Pietro Bertagnolio	AECOM	Robert Gloyns	Eastleigh BC
Chris Boocock	Aeris Europe Limited	Charlotte Goodman	Royal Haskoning DHV
Vicki Booth	Uniper Technologies Ltd	<b>H</b>	
Philip Branchflower	SLR Consulting	David Harvey	ADM Ltd
Rosie Brook	Aether	Carl Hawkings	ADM Ltd
John Bruce	DustScanAQ	Paul Hayward	Phlorum
<b>C</b>		Leon Hibbs	Reigate & Banstead BC
David Carruthers	CERC Ltd	Claire Hicks	Ramboll
Ayan Chakravartty	DustScanAQ	Steve Hoskin	Air Monitors Ltd
Avril Challoner	AWN Consulting	Freya Hoyle	SRL Technical Services
Martin Chan		Hao Huang	Air Monitors Ltd
Agie Chan	WSP   Parsons Brinckerhoff	<b>J</b>	
Adam Clegg	Amec Foster Wheeler	Satbir Jandu	MLM Consulting Engineers Ltd
<b>D</b>		Rhianna Jarvis	Institution of Environmental Sciences
Maxine Dolloway	TSI Instruments Ltd	Katherine Johnson	IDOM Merebrook Ltd
Adam Donnan	Institution of Environmental Sciences	Alex Jones	Accon UK
<b>E</b>		Susan Joseph	TSI Instruments Ltd
Matthew Edwards	Royal Haskoning DHV	<b>K</b>	
		Blaise Kelly	Hydrock Consulting
		Flo Kirk-Lloyd	Peter Brett Associates
		Nutthida Kitwiroon	King's College London

L	
Richard Lane	Temple Group Ltd
Kieran Laxen	Air Quality Consultants Ltd
Justin Lingard	WSP   Parsons Brinckerhoff
Dewi Lloyd	Smith Grant LLP
M	
Frances Marshall	Air Quality Consultants Ltd
Phil Mason	Cheshire East Council
Stuart McGowan	ITP Engergised
Adam Miles	Aeris Europe Limited
Daniel Mullick	RSK
O	
Olivier Oldrini	AmpliSIM
P	
Christine Park	ACCON UK
Lucinda Pestana	Mayer Brown Ltd
Katy Petty	Arup
Sam Pollard	Atkins Global
R	
Sadak Redouan	Portsmouth City Council
Glyn Rhys-Tyler	Independent Consultant
Alun Robert-Jones	Environment Agency
Joanna Rochfort	WSP   Parsons Brinckerhoff
Rebecca Rose	Ricardo Energy & Environment
S	
Sarah Slater	Arcadis
Piercarlo Smith	CH2M
Marc Stettler	Imperial College London
Amy Stidworthy	CERC
Srinivas Srimath	RSK
Emily Sullivan	Hoare Lea

T	
Benjamin Tang	RSK
James Tate	Institute of Transport Studies
Zhe Tian	University of Birmingham
V	
Amy Van De Sande	Miller Goodall
Raquel Villasante	Mayer Brown Ltd
W	
Philip Walton	Wardell Armstrong
Mike Webley	Enviro Technology Services Ltd
Chris Whall	Air Quality Consultants Ltd
Michael Whittall	IDOM Merebrook
Ian Whitwell	RWE Generation UK
Chris Williams	Ricardo Energy & Environment
Thomas Wright	Arcadis
Z	
Jian Zhong	University of Birmingham







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