



BAMC 2017 University of Surrey 10th - 12th April



The 59th British Applied Mathematics Colloquium

Conference Booklet



Contents

Welcome	3
Essential Information	4
Venue	4
Presentations	4
Talks	4
Posters	4
Prizes	5
Online Resources	5
Refreshments	5
Events	6
Assistance	6
Parking permits	6
Wi-Fi Access	6
Luggage store	6
Meeting queries	6
Campus Map	7
List of BAMC delegates	8
Programme 1	11
BAMC overall schedule	12
BAMC minisymposia and contributed sessions schedule	13
BAMC posters	14
Sponsors 1	15

Welcome

On behalf of the Department of Mathematics, it is our very great pleasure to welcome you to the University of Surrey for the 59th British Applied Mathematics Colloquium (2017). We are delighted that the meeting has generated enormous interest, involving more than 330 participants from the United Kingdom and overseas. Collectively, there will be more than 260 contributions including plenary, mini-symposia, and contributed talks and posters on a vast range of topics across Applied Mathematics.

The meeting has been made possible by the exceedingly generous support of a number of sponsors who are listed at the back of this booklet.

We very much hope that you will find the meeting rewarding and enjoyable; we want to do everything we can to make your trip a success, so please do not hesitate to ask for any help or information you need.

The Local Organising Committee:



Ian Roulstone (Chair)



Tracey Simons (Administrator)



Anne Skeldon (Treasurer)



Dave Lloyd (Secretary)

Essential Information

Venue

All BAMC activities take place at the University Hall (HA), Rik Medlik (MS also known as Management School), the Lecture Theatre block (LT), and the Department of Mathematics (4th Floor AA) buildings at the University of Surrey, Stag Hill Campus, Guildford, Surrey, GU2 7XH, United Kingdom. Please see page 7 for a campus map. Student volunteers are on hand to direct you. The conference reception desk is located in the University Hall and will be staffed throughout the conference. Delegates with limited mobility are advised to contact the Reception Desk for assistance. Please note that the buildings' opening hours are 7:30am – 8:00pm.

Plenary lectures will take place in the main lecture theatre 03MS01 (MS/Rik Medlik). When being directed to the lecture theatre for the plenaries, your cooperation with the student volunteer stewards is appreciated. Contributed talks and minisymposium sessions will take place in the Lecture Theatre Block (LT) and the 4th Floor of AA building (Mathematics Department); these are clearly indicated in the schedule. There is a short bridge that connects the LT block with the AA building.

Smoking is only permitted in designated external smoking areas. Please ask at the conference reception desk for directions.

Details on how to get to the Stag Hill Campus, University of Surrey visit:

https://www.surrey.ac.uk/visit-university

Presentations

Talks

Each room is equipped with a data projector, and whiteboard/blackboard. If you will be using the data projector, we strongly recommend you bring your talk on a USB stick and use the computer provided. Rooms will be open at least 15 minutes before the start of sessions, so please upload your talk as a PDF file to the computer before your session starts.

All timetabled talks include 1 minute of questions and 2 minutes changeover between speakers. For example, a 20 minute slot provides time for a 17 minute presentation. Session chairs have been asked to adhere to the timetable rigidly to allow delegates to switch between talks in different rooms.

Posters

Posters can be displayed on A0 sized landscape poster boards in University Hall throughout the duration of the conference. There will be a dedicated poster session at 5:30pm on Monday as part of the drinks reception.

Prizes

The IMA Lighthill-Thwaites prize will be awarded at the conference dinner by Sir Bryan Thwaites. Prizes for the best student oral and poster presentations will be awarded at the end of the conference.

Online Resources

Up-to-date information can be found on https://www.surrey.ac.uk/bamc. In particular, there is an online conference programme and timetable, a hyperlinked PDF book of abstracts, and the up-to-date PDF version of this booklet.

Refreshments

Coffee and tea will be provided in the University Hall each morning and Monday and Tuesday afternoons.

Lunch will be provided each day in the University Hall, and there will be meat, fish and vegetarian options. On the back of your conference badge are details of any meals that are included in your registration, including your dietary requirements, if you have provided any. Those with specific dietary requirements should present the back of their badges to the meal servers.

Starbucks café will be open underneath Hillside (1st floor OAK).

Monday evening CUP wine reception and buffet meal:

At 5:30pm-7:00pm on Monday, there will be a wine reception sponsored by Cambridge University Press and poster session. A hot buffet will be served at 7:00pm in the Hillside Restaurant and is included in your registration fee.

Reception and Gala dinner:

The conference banquet will be held on the evening of Tuesday 11th April from 7:30pm to 9:00pm in Hillside Restaurant. If you have paid, or have been invited, to attend the dinner then this will be indicated on the back of your name badge. The meal will be preceded by a short reception which will be held in the Hillside bar area, starting at 6pm. Complementary wine, soft drinks and juice will be available. Other alcoholic/non-alcoholic drinks may be purchased from the bar area.

Bars and Pubs:

A bar can be found in Wates House and is open until 10:00pm each night. There will also be a bar in Hillside Restaurant after the conference dinner that will be open until midnight.

A guide to pubs/bars in the centre of Guildford can be found here:

https://www.surrey.ac.uk/bamc/your-visit/going-out-guildford

Events

The following events will take place during the BAMC:

Monday:

There will be a reception/poster session for all BAMC attendees in the University Hall from 5:30pm-

7:00pm. Dinner will be served for all delegates in Hillside (2nd Floor OAK) from 7:00pm.

Tuesday:

The BAMC conference dinner will take place in Hillside; if you are attending the dinner, this will

be indicated on the back of your name badge. Pre-dinner drinks will be served at 6pm, with dinner

starting at 7:30pm.

Assistance

The conference reception desk, located in the University Hall, will be staffed throughout the con-

ference. If you have any queries or concerns, please speak to any of the conference organising team;

we can also be contacted at bamc2017@surrey.ac.uk. In addition, student volunteers will be happy

to assist with any queries you may have.

Parking permits

Parking permits may be downloaded and printed from here:

https://www.surrey.ac.uk/sites/default/files/BAMC_Parking_Permit.pdf

Wi-Fi Access

Wi-Fi is available in the University. Our preferred method of connection is EDUROAM. However, if

you do not have EDUROAM, you can sign up for a free 'The Cloud' account.

Luggage store

A secure luggage store will be available for all delegates on Monday 10th and Wednesday 12th

April. Please go to the registration desk to gain access.

Meeting queries

If you have any queries during the meeting please contact Tracey Simons (Administrator), David

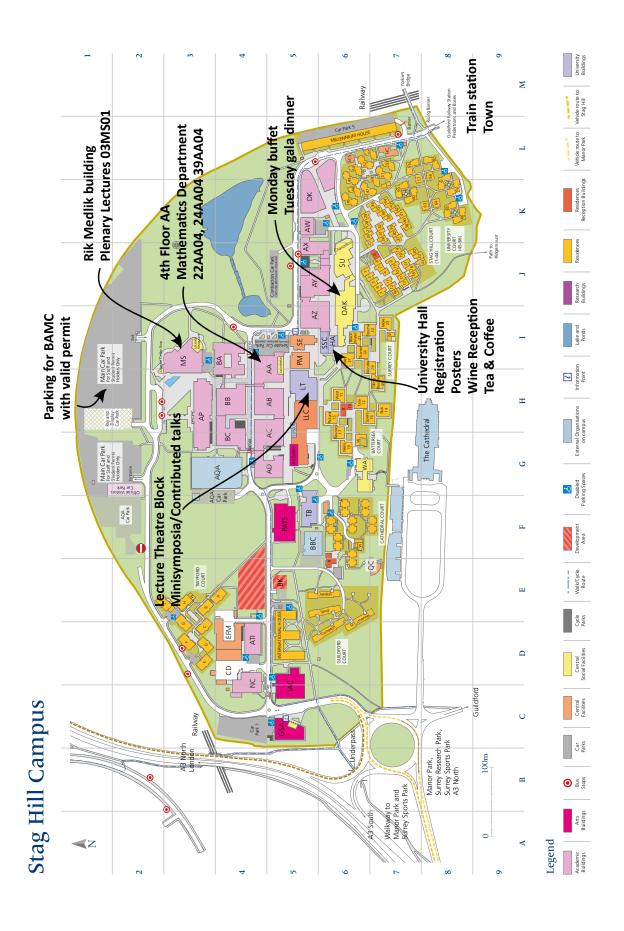
Lloyd or Anne Skeldon via the registration desk and we will do our utmost to accommodate any

request.

Email: bamc2017@surrey.ac.uk

6

Campus Map



List of BAMC delegates

Name	Institute		Name	Institute
Abdulwahed Alshaikhi	University of Strathclyde		Catherine Morgan	Oxford University Press
Adam Bridgewater	Northumbria University		Cedric Beaume	University of Leeds
Adam Butler	Imperial College London		Cezary Olszowiec	Imperial College London
Adam Townsend	University College London		Charles Kind	University of Bristol
Adam Yorkston	University of East Anglia		Chris Breward	University of Oxford
Adri Olde Daalhuis	The University of Edinburgh		Chris Budd	University of Bath
Adrian Bowman	University of Glasgow		Christian Saemann	Heriot-Watt University
Ahmed Ismaeel	University of Glasgow		Christian Thomas	Imperial College London
Ahuod Alsheri	University of Surrey		Christopher Howls	University of Southampton
Alan Champneys	University of Bristol		Clarice Poon	University of Cambridge
Alan Omar	University of Nottingham		Claudia Wulff	University of Surrey
Alastair Jones	Airbus Operations Ltd		Colin Cotter	Imperial College London
Alessandro Morando	University of Brescia		Craig Gilmour	University of Strathclyde
Alexander Doak	University College London		Damian Smug	University of Exeter
Alexander Erlich	The University of Manchester		Dane Grundy	University of East Anglia
Alexander Korobkin	University of East Anglia		Daniel Cheng	Institute of Mathematics and its Applications
Alexander Wray	Imperial College London		Daniel Coutand	Heriot-Watt University
Alice Harpole	University of Southampton		Daniel Jopling	Nonlinearity, IOP
Alvaro Meseguer	Universitat Politecnica de Catalunya		Daniel Peck	Aberystwyth University
Anahita Bayani	Nottingham Trent University		Daniel Ratliff	University of Surrey
Andrea Cassinelli	Imperial College London		Daniel Taber	Oxford University Press
Andrea Fontanella	University of Surrey		Daniel Ward	University of Bristol
Andrew Burbanks	University of Portsmouth		Danyang Wang	University of Glasgow
Andrew Croudace	University of Strathclyde		David Gerard-Varet	Université Paris Diderot
Andrew Krause	University of Oxford		David Hammond	Cranfield University
Andrew Lacey	Heriot-Watt University		David Hughes	University of Leeds
Andrew West	Northumbria University		David Lloyd	University of Surrey
Andrey Melnik	University of Glasgow		David Sibley	Loughborough University
Anna Kalogirou	University of East Anglia		David Tranah	Cambridge University Press
Anna Lambert	University College London		Davide Bella	University College London
Anna Mazzucato	Pennsylvania State University		Davide Girolami	University of Oxford
Anne Birchley-Brun	Springer		Davin Lunz	University of Oxford
Anne Skeldon	University of Surrey		Deepthee Madenoor Ramapriya	The University of Nottingham
Anotida Madzvamuse	University of Sussex		Denis Patterson	Dublin City University
Antonio Russo	Imperial College London		Doireann O'Kiely	University of Oxford
Arandeep Uppal	Imperial College London		Domenico Tallarico	University of Liverpool
Arshad Kamal	Imperial College London		Dominic Vella	University of Oxford
Artur Gower	The University of Manchester		Donal Harkin	University of Surrey
Ashley Willis	The University of Sheffield		Doug Addy	Imperial College London
Ayalvadi Ganesh	University of Bristol		Duncan Joyce	The University of Manchester
Belgin Seymenoglu	University College London		Ebrahem Algehyne	University of Strathclyde
Ben Goddard	The University of Edinburgh		Edmund Barter	University of Bristol
Ben Sloman	University of Oxford		Edmund Chadwick	University of Salford Manchester
Benjamin Aymard	Imperial College London		Edward Acheampong	The University of Nottingham
Benjamin Yadin	University of Oxford		Eleanor Doman	University College London
Beth Wingate	University of Exeter		Elena Marensi	The University of Sheffield
Bin Cheng	University of Surrey		Elizabeth Mansfield	University of Kent
Bryan Thwaites			Eman Aljabali	University of East Anglia
Bwebum Dang	University of Salford Manchester		Emilian Parau	University of East Anglia
Caoimhe Rooney	University of Oxford		Erica Tyson	Institute of Mathematics and its Applications
Carina Dunlop	University of Surrey	ľ	Euan Littlejohns	University of Surrey
Carl Whitfield	The University of Manchester	ľ	Eugene Benilov	University of Limerick
Carola-Bibiane Schönlieb	·	1	Eun-jin Kim	The University of Sheffield
Caroline Colijn	Imperial College London	1	Fabio Anza	University of Oxford
	1		<u> </u>	9 * * * *

University of Sussex University of Strathclyde University of Strathclyde University of Oxford University of Oxford University of Macerata Aberystwyth University University of Palermo Horthumbria University University College London University College London University College London University Horiversity University of Macester University of Mancester University of Kaiserslautern University of Kaiserslautern University University of London University Oxford University of University
University of Strathclyde University of Strathclyde University of Oxford University of Oxford University of Oxford University of Macerata Aberystwyth University University of Palermo Horthumbria University University de Bordeaux University College London University College London University College London University University University of Mancester University of Mancester University of Kaiserslautern University of Verona University University of Verona University University of London Univerpool John Moores University
University of Strathclyde University of Oxford CNRS UMR 7241 University of Macerata Aberystwyth University University of Palermo Iorthumbria University Université de Bordeaux University College London University College London University College London University White University University of Mancester University of Kaiserslautern University of Verona Queen Mary University of London Univerpool John Moores University
DINRS UMR 7241 Jniversity of Macerata Aberystwyth University Jniversity of Palermo Jorthumbria University Jniversité de Bordeaux Jniversity College London Jniversity College London Jorden Strate Strate Strate Jorden Strate Strate Strate Jorden Strate Strate Jorden Strate Strate Jorden Strate Strate Jorden St
Iniversity of Macerata Aberystwyth University Jiniversity of Palermo Jorthumbria University Jiniversité de Bordeaux Jiniversity College London Jiniversity College London Aberystwyth University Aberystwyth University The University of Mancester Jiniversity of Kaiserslautern Tu Munich/University of Verona Queen Mary University of London Liverpool John Moores University
Aberystwyth University Jniversity of Palermo Jorthumbria University Jniversité de Bordeaux Jniversity College London Jniversity College London Aberystwyth University Aberystwyth University The University of Mancester Jniversity of Kaiserslautern TU Munich/University of Verona Queen Mary University of London Liverpool John Moores University
University of Palermo Jorthumbria University Jiniversité de Bordeaux Jiniversity College London Jiniversity College London Joriversity Of Mancester Joriversity of Mancester Joriversity of Kaiserslautern Tu Munich/University of Verona Jouen Mary University of London Joriverpool John Moores University
Jorthumbria University Université de Bordeaux University College London University College London University College London University University University Of Mancester University of Kaiserslautern University Of Verona University University of London Univerpool John Moores University
Iniversité de Bordeaux University College London University College London University College London University College London University Of Mancester University of Kaiserslautern University of Verona Queen Mary University of London Univerpool John Moores University
Iniversity College London Iniversity College London Iniversity College London Iniversity College London Iniversity University Iniversity of Mancester Iniversity of Kaiserslautern Iniversity of Verona Iniversity Of Verona Iniversity Of London Iniverpool John Moores University
Iniversity College London Aberystwyth University Aberystwyth University The University of Mancester University of Kaiserslautern U Munich/University of Verona Queen Mary University of London iverpool John Moores University
Aberystwyth University Aberystwyth University The University of Mancester Jiniversity of Kaiserslautern TU Munich/University of Verona Queen Mary University of London Liverpool John Moores University
Aberystwyth University The University of Mancester University of Kaiserslautern University of Verona Queen Mary University of London Liverpool John Moores University
The University of Mancester Jniversity of Kaiserslautern TU Munich/University of Verona Queen Mary University of London iverpool John Moores University
University of Kaiserslautern "U Munich/University of Verona Queen Mary University of London iverpool John Moores University
U Munich/University of Verona Queen Mary University of London iverpool John Moores University
Queen Mary University of London iverpool John Moores University
iverpool John Moores University
·
University of Oxford
Iniversity of Warwick
oughborough University
Iniversity of Glasgow
Iniversity College London
University of Exeter
University of Bath
University of Oxford
University of Nottingham
mperial College London
University of Nottingham
University of Cambridge
University of Oxford
University of Surrey
Ouke University
Iniversitat Politecnica de Catalunya
Iniversity of Sussex
Iniversity of Surrey
Iniversity of Surrey
he University of Manchester
University of Nottingham
Iniversity of Surrey
Iniversity of Surrey King Abdullah University of Science and Technology
Iniversity of Exeter
University of Surrey
Jniversity Or Surrey Jniversity College London/LSHTM
University College London/LSTTTM Jniversity of St Andrews
University of Oxford
Jniversity College London
University of Exeter
University of Surrey
Keele University
Jniversity of Nottingham
Iniversity of Strathclyde
nstitute of Mathematics and its Applications
Iniversity of Oxford
Iniversity of Surrey
Keele University
University of Southampton

Name	Institute
Jonathan Ward	University of Leeds
Joseph Cousins	University of Strathclyde
Judi Thurlby	University of Portsmouth
Kai Cao	University of Leeds
Karen Willcox	Massachusetts Institute of Technology
Katherine Atkins	London School of Hygiene and Tropical Medicine
Katherine Powers	University of Bath
Kevin Devine	University of Limerick
Kevin Minors	University of Bath
Kgomotso Morupisi	University of Bath
Koji Ohkitani	The University of Sheffield
Konstantin Blyuss	University of Sussex
Konstantin ILIN	University of York
Lamees Felemban	University of Exeter
Lara Gosce	University College London
Laurel Fogarty	University College London
Leo Turner	University of Portsmouth
Leyla Sultanova	Keele University
Liam Escott	University College London
Linda Irons	University of Nottingham
Louis Freeland-Haynes	Springer
Louise Dyson	University of Warwick
Louise Mason	University of Glasgow
Lucas Lacasa	Queen Mary University of London
Lydia Rickett	The Sainsbury Laboratory
Lynn Barber	Springer
Maha Helmi	Keele University
Marco Cianciaruso	The University of Nottingham
Marco Sammartino	University of Palermo
Marianna Cerasuolo	University of Portsmouth
Mariano Beguerisse	University of Oxford
Marianthi Moschou	The University of Manchester
Mark Broom	City, University of London
Martin Benning	University of Cambridge
Martina Cracco	Cardiff University
Mathew Bullimore	University of Oxford
Matt Turner	University of Surrey
Matteo Lostaglio	The Institute of Photonic Sciences
Matthew Bailey	University of Surrey
Matthew Browning	University of Exeter
Matthew Coleman	University of Nottingham
Matthew Griffith	University of Bath
Matthew Hunt	
Matthew Moore	University of Oxford
Matthew Nethercote	The University of Manchester
Matthew Russell	The University of Manchester
Matthew Saxton	University of Cambridge
Matthias Ehrhardt	University of Cambridge
Maxim Zyskin	University of Nottingham
Michael Dallaston	Imperial College London
Michael Foskett	University of Surrey
Michael Gomez	University of Oxford
	•
Michael Jeger	Imperial College London
Michael Jeger Michael Mcphail	Imperial College London University of Oxford
Michael Jeger Michael Mcphail Michael Nieves	Imperial College London University of Oxford Liverpool John Moores University
Michael Jeger Michael Mcphail Michael Nieves Michael Pegg	Imperial College London University of Oxford Liverpool John Moores University University of East Anglia
Michael Jeger Michael Mcphail Michael Nieves Michael Pegg Michael Proctor	Imperial College London University of Oxford Liverpool John Moores University University of East Anglia University of Cambridge
Michael Jeger Michael Mcphail Michael Nieves Michael Pegg	Imperial College London University of Oxford Liverpool John Moores University University of East Anglia

Name	Institute	
Michele Bartuccelli	University of Surrey	
Michelle Grant	University of Surrey	
Miguel A. Duran-Olivencia	Imperial College London	
Mike Chen	University of Oxford	
Ming Dong	Imperial College London	
Mitchell Berger	University of Exeter	
Mohammad Golbabaee	The University of Edinburgh	
Mohammed Alkinidri	Keele University	
Muhamad Hifzhudin Noor Aziz	University of Glasgow	
Muhamad Najib Zakaria	University of Leeds	
Nabil Fadai	University of Oxford	
Nakul Chitnis	Universitat Basel	
Nan Qi	University of Glasgow	
Naratip Santitissadeekorn	University of Surrey	
Naseer Abdullah	The University of Sheffield	
Natalie Douglas	University of Surrey	
Niall McInerney	University of Limerick	
Nicholas Ovenden	University College London	
Nikolai Gorbushin	Aberystwyth University	
Oleksandr Menshykov	University of Aberdeen	
Oliver Allanson	University of St Andrews	
Oliver Dorn	The University of Manchester	
Oliver Jensen	The University of Manchester	
Oliver Kerr	City, University of London	
Ory Schnitzer	Imperial College London	
Paola Trebeschi	University of Brescia	
Paolo Musolino	Aberystwyth University	
Paolo Secchi	University of Brescia	
Paul Bushby	Newcastle University	
Paul Skerritt	University of Surrey	
Pavlos Livasov	Aberystwyth University	
Peter Ashwin	University of Exeter	
Peter Grindrod	University of Oxford	
	University of Kent	
Peter Hydon Peter Wootton	Keele University	
	<u> </u>	
Peter Yatsyshin	Imperial College London	
Philip Aston	University of Surrey	
Philippe Trinh	University of Oxford	
Pier Luigi Dragotti	Imperial College London	
Pietro Asinari	Politecnico di Torino	
Pietro Servini	University College London	
Prashant Valluri	The University of Edinburgh	
Priya Subramanian	University of Leeds	
Qian Yang	University of Bath	
Rabeea Darghoth	University of Salford Manchester	
Radu Cimpeanu	Imperial College London	
Rafael Prieto Curiel	University College London	
Rainer Hollerbach	University of Leeds	
Rebecca Hoyle	University of Southampton	
Reevu Maity	University of Oxford	
Remi Lodh	Springer	
Richard Burke	National University of Ireland, Galway	
Richard Porter	University of Bristol	
Rishi Kumar	Imperial College London	
Robert Calderbank	Duke University	
Robert Davey	The University of Manchester	
Robert M. Kerr	University of Warwick	
Robert Rosner	The University of Chicago	
Robert Whittaker	University of East Anglia	
Roberto Sisca	University of Surrey	
L		

Name	Institute	
Rodrigo Ledesma-Aguilar	Northumbria University	
Roland Roth	Universität Tübingen	
Rory Mills	The University of Edinburgh	
Rowena Ball	The Australian National University	
Rudolf Kohulak	University College London University of Strathclyde	
Russell Niven	University of Strathclyde	
Ryan Sharp	Rothamsted Research	
Sally Faulkner	Queen Mary University of London	
Sam Tucker Harvey	University of Warwick	
Sami Al-Izzi	University of Warwick	
Samire Balta	University College London	
Samuel Johnson	University of Warwick	
Sara Frecentese	University of Liverpool	
Sean Cleator	University of Surrey	
Sean Jamshidi	University College London	
Shreya Sehgal	Liverpool Hope University	
Simon Etter	University of Warwick	
Simon Pearce	The University of Manchester	
Sofia Olhede	University College London	
Srikanth Ravipati	Imperial College London	
Stephen Griffiths	University of Leeds	
Stephen Wilson	University of Strathclyde	
Steve Baigent	University College London	
Steven Tobias	University of Leeds	
Stewart Haslinger	University of Liverpool	
Tao Gao	Imperial College London	
Tao Wang	University of Brescia	
Thibaut Putelat	University of Bristol	
Thilo Gross	University of Bristol	
Thom Griffith	University of the West of England	
Thomas Bridges	University of Surrey	
Thomas Ezard	University of Southampton	
Thomas Ward	University of East Anglia	
Timothy Burchell	University of Surrey	
Timothy Hurst	The University of Edinburgh	
Timothy Kinyanjui	The University of Manchester	
Timothy Whiteley	University of Nottingham	
Toby Davies	University College London	
Tom O'Neill	University of Surrey	
Tristan Pryer	University of Reading	
Tuoi T.N. Vo	University of Limerick	
Usama Kadri	Cardiff University	
Valentin Sulzer	University of Oxford	
Valon Blakaj	University of Nottingham	
Vasiliki Bitsouni	University of Dundee	
Vincenzo Sciacca	University of Palermo	
Vitaly Fain	University of Bristol	
Vladimir Turetsky	Ort Braude College of Engineering	
Vladyslav Danishevskyy	Keele University	
Wade Parsons	Memorial University of Newfoundland	
William Booker	University of Leeds	
Xin Zhuan	University of Glasgow	
Xuesong Wu	Imperial College London	
Yasumasa Nishiura	Tohoku University	
Ying Huang	·	
Yohann Duguet	University of Surrey LIMSI-CNRS	
Yue-Kin Tsang	LIMSI-CNRS University of Exeter	
Yujun Qiao	University of Cambridge	
Yuliya Kyrychko	University of Sussex	
Zachary Wilmott	University of Oxford	

Programme

The overall conference schedule and list of contributed minisymposia, contributed talk sessions, and posters are overleaf.

A3 timetables for each day are provided and spares can be picked up from the registration desk.

The complete conference timetable and book of abstracts can be downloaded from the BAMC website:

http://www.surrey.ac.uk/bamc/programme

Those who requested a printed book of abstracts can collect one at the registration desk.

BAMC overall schedule

L						
	Monday		Tuesday	sday	Wedn	Wednesday
00:60						
06:60						
10:00			Mini-symposia 09:00-11:00	Contributed talks 09:00-11:00	Mini-symposia 09:00-11:00	Contributed talks 09:00-11:00
10:30						
11:00	Registration and coffee	au	Cof	Coffee	CO	Coffee
11:15	Welcome and Opening by Vice-Chancellor Max Lu	ncellor Max Lu				
11:30	Plenary: Karen Willcox 11:30-12:30 Stewartson Memorial Lecture	tson Memorial Lecture	Plenary: Rebecca	Plenary: Rebecca Hoyle 11:30-12:30	Plenary: Ingrid Daul	Plenary: Ingrid Daubechies 11:30-12:30
12:00	Lecture Theatre (Rik Medlik)	IIIK)	Lecture Theatr	Lecture Theatre (Rik Medlik)	Lecture Theat	Lecture Theatre (Rik Medlik)
12:30						
13:00	Lunch		Lunch	Joch	LUI	Lunch
13:30				,		
14:00						
14:30					Mini-symposia 13:30-15:30	Contributed talks 13:30-15:30
15:00	Mini-symposia 14:00-16:00 Contrik	Contributed talks 14:00-16:00	Mini-symposia 14:00-16:00	Contributed talks 14:00-16:00		
15:30				_	Closing session	Closing session and prize-giving
16:00	Coffee		Cof	Coffee		
16:30	Plenary: Peter Grindrod 16:30-17:30	0-17:30	Plenary: Beth Wir	Plenary: Beth Wingate 16:30-17:30		
17:00	Lecture Theatre (Rik Medlik)	llik)	Lecture Theatr	Lecture Theatre (Rik Medlik)		
17:30	Poster session and drinks reception sponsored by CUP 17:30-19:00	ed by CUP 17:30-19:00				
18:00				00.00		
18:30				DAIVIC DIIIIFF (LIKKEL DIII)) 10.00		
19:00	Buffet dinner 19:00					

BAMC minisymposia and contributed sessions schedule

	Monday PM	Tuesday AM	Tuesday PM	Wednesday AM	Wednesday PM
Lecture Theatre A	Misc fluids	Electro-magnetic waves	Density function theory	Free-surface and interfacial flows	Network science
Lecture Theatre B	Symmetries and conservation laws	Why I compute - in honour of Robert Rosner's 70th birthday Rosner's 70th birthday	Why I compute - in honour of Robert Rosner's 70th birthday	Symmetries and conservation laws	Why I compute - in honour of Robert Rosner's 70th birthday
Lecture Theatre D	Network science	Instability and transition shear flows	Instability and transition shear flows	Pipe and channel flows	Flow stability, boundary layers and bubbles
Lecture Theatre E	Acoustic waves	Cells and biomechanics	Ice-fluid coupling	Tissue engineering I	Tissue engineering II
Lecture Theatre F	The dynamics of evaporation	Lighthill-Thwaites	Applying maths to public health	Biorhythms	Asymptotics
Lecture Theatre G	Asymptotic methods in the applied sciences	Thin films	Asymptotic methods in the applied sciences		
Lecture Theatre H	Inverse problems and imaging	Quantum theory information	Quantum theory information	Geophysical fluid dynamics	
Lecture Theatre J	Recent progress in the mathematical theory of fluid dynamics	Recent progress in the mathematical theory of fluid dynamics	Recent progress in the mathematical theory of fluid dynamics	Recent progress in the mathematical theory of fluid dynamics	
Lecture Theatre L	Dynamical systems and applications	Spatial localisation in fluids	Applied delay differential equations	Mathematical modelling of crime	Dynamical systems and applications
22AA04	Population models	Quantitative evolutionary biology	Quantitative evolutionary biology	Modelling epidemics in human and plant populations	Application of string theory
24AA04	Elasticity	Multi-scale systems: from analysis to numerics to applications	Elastodynamics	Inverse problems and heat transfer	Novel applications
39AA04		Inverse problems LMS II	Structure in time and space		

BAMC posters

	POSTERS	
Ebrahem Algehyne Theoretical analysis of a fractal ultrasonic transducer	Davin Lunz Thermo-viscous effects in shaping glass vials	Valentin Sulzer Modelling low-current discharge of lead-acid batteries
Sami Al-Izzi Osmotic effects on membrane bound organelles	John McGowan Linking physiologically based pharmacokinetics, mathematical modelling and systems biology	Tuoi Vo P Modelling drug release from polymer- free drug-eluting stents
Hifzhudin Aziz Hybrid asymptotics-numerical method for efficient simulation of excitable system	Michael McPhail Diffusion mediated bubble growth	Andrew West Critical phenomena and integrability in network models
Samire Balta Lift-off of a solid object from a horizontal rigid surface	Nan Qi Investigating cell mechanics with atomic force microscopy	Timothy Whiteley Modelling urban population dynamics using coupled integro- differential equations
Martina Cracco Stability of a non-Newtonian fluid in the boundary layer	Lydia Rickett "Mapping the battleground": A systems biology approach to modelling plant-microbe interactions	Hanyu Yin Films, layers and droplets: the effect of near-wall fluid structure on spreading dynamics
Simon Etter Locality of matrix functions	Caoimhe Rooney Particle and fluid dynamics within a blender	Francesca Zaccagnino Surfactant effects on film relaxation during topological T1 process
Thom Griffith Mathematical modelling of a magnetic immunoassay	lan Roper Silicon nodes in lithium batteries	Muhamad Zakaria Wave reflection and propagation at staircase boundaries in finite- difference models
	Leyla Sultanova Multi-parametric analysis of a contact problem for a coated elastic half-space in case of high contrast material parameters	

Sponsors

With thanks to our sponsors:





IOP Institute of Physics













The Stewartson Fund

The 59th British Applied Mathematics Colloquium

Visit: www.surrey.ac.uk/bamc Email: bamc2017@surrey.ac.uk

