

P70

Polymer Engineering International





P70 - Polymer Engineering International/ UK-China AMRI Research Workshop

18-20 September 2018, University of Bradford, UK

Here is a photobook capturing all aspects of our P70 event! We had an excellent time marking this special birthday (on 20th September) of Prof Phil Coates FEng, and the award-winning innovative science and many international collaborations, friendships and the associated international research community he has helped to promote over the past 40 years.

It was a very friendly gathering of international colleagues from academy, industry and government, (including the Chinese Deputy Ambassador to the UK) for leading researchers and early career researchers, with technical sessions, laboratory demonstrations and good social activities.

These events all took place in the University of Bradford Norcroft Conference Centre and the Polymer IRC Laboratories, with Conference Banquets in the City Hall, Bradford hosted by the Lord Mayor, a Reunion Banquet in the Midland Hotel and an informal end of event banquet in Harewood House.

It was a special event! It was held in conjunction with the UK-China Advanced Materials Research Institute Research Workshop - Advanced Materials for Healthcare - a key collaboration between the UK and China in advanced materials for healthcare, with associated MeDe Innovation, our EPSRC Centre for Innovative Manufacturing in Medical Devices.

At the event, we launched **Polymer Engineering International** - an international network of leading polymer engineering research laboratories, to extend the success of our Science Bridges China platform of collaboration and we announced further **UK-China Research Exchanges**, funded by EPSRC.

Phil adds:

I am most grateful for the support of my family and team over the years, and also for this specific, heartwarming celebration! Thank you to all who joined us from around the world, to make this such a memorable time. I trust that you will enjoy looking through this book, bringing back good memories of time well spent.

Together we build bridges - science, technology and people bridges - and cross them, building a community for good!

with my warmest regards

Phil

Prof Phil Coates FEng
Director, Polymer IRC
Director, Science Bridges China

Professor of Polymer Engineering
University of Bradford, UK

International Science & Technology Co-operation Award
of PR China (2017)

中国国际科学技术合作奖获得者

Famous Overseas Scholar, MoE China

中国教育部海外名师

Sichuan Province Foreign Expert

四川省外国专家局外国专家

Leading International Professor, Sichuan University

四川大学高端外籍教师

Honorary Professor, Sichuan University

四川大学名誉教授

Honorary Professor, Beijing University of Chemical Technology

北京化工大学名誉教授





Some of the P70 Conference attendees: Tuesday 18 September

P70 - Polymer Engineering International/ UK-China AMRI

An international conference celebrating the 70th birthday of Phil Coates

Bradford 18-20 September 2018

in conjunction with UK-China Advanced Materials for Healthcare Research Workshop

www.polyeng.com/phil7



P70 - Polymer Engineering International/ UK-China AMRI Research Workshop

P70 Polymer Engineering International is an international conference celebrating the 70th birthday of Phil Coates, in conjunction with the 10th UK-China Advanced Materials for Healthcare Research Workshop.

The event will not only mark Phil's special birthday and the award-winning innovative science and many international collaborations, friendships and the associated international research community he has helped to promote over the past 40 years, but also it will be a chance for our Laboratory and friends to celebrate together the three recent International Awards, which reflect the standing of the Polymer IRC laboratories at Bradford and the excellent team here, notably the Chinese National Science & Technology Award for International Cooperation (2017), the SPE International Award (2018) and the PPS J L White Innovation Award (2017).



A simple strategy

Aim to be the best at what we do

Build bridges – science, technology and people

Cross the bridges!

Outline Programme:

Tuesday 18th September:

8.55am Opening & Welcome
9.00am -16.50pm Technical sessions
16.50pm Polymer IRC Laboratory Demonstrations

18.15pm Tour, Reception & Conference Banquet, City Hall Bradford with the Lord Mayor, Chinese Ambassador and other dignitaries.

Bradford City Hall is a Grade I listed, 19th century town hall in Centenary Square, Bradford, West Yorkshire, England. It is notable for its landmark bell/clock tower.

Wednesday 19th September:

9.00am Strategy Session
9.50am -17.35pm Technical sessions
17.35pm Brief Laboratory visit
18.30pm Banquet, Midland Hotel - including reunion for previous Polymer IRC members

Thursday 20th September:

9.00am - 12.40pm Technical sessions

13.30pm Coach tour through the beautiful Yorkshire Dales to historic Harewood House;

14.15 -15.15 Tour of the historic house; relaxation in the Capability Brown grounds with Lake and bird garden;

Refreshments in the Courtyard (Grade 1 listed)

18.00pm Reception on the Terrace, and informal seated meal in the Harewood Suite, in the Courtyard.

20.00pm/20.30pm Coaches leave





P70 Conference attendees: Tuesday 18 September at City Hall Bradford



Happy P70 Conference attendees: Wednesday 19 September

P70 included Celebration of 3 International Awards:

- The International Science & Technology Cooperation award of the People's Republic of China (January 2018);
- The JL White Innovation Award of the Polymer Processing Society (December 2017);
- The International Award of the Society of Plastics Engineers (May 2018)





Strategy Session: Dr Jiansheng Du, Prof Guangxian Li, Prof Phil Coates, Minister Qin Zhu, Kersten England, & Matthew Rous

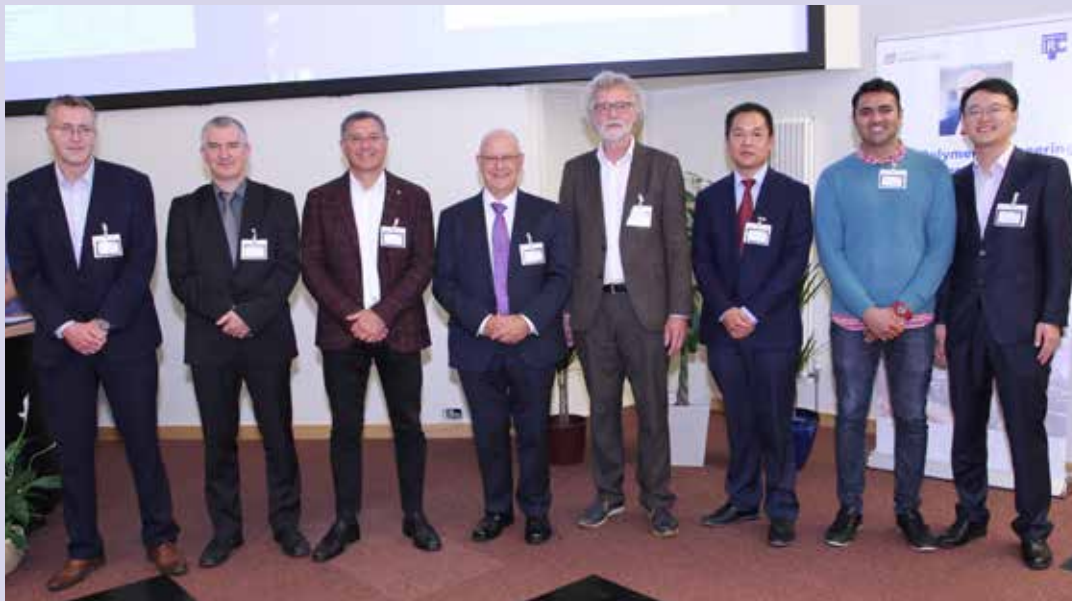




Chinese Embassy colleagues Tan Junyao and Tan Ge, with Prof Coates, Minister Qin Zhu and Prof John Fisher OBE



Speakers and Chairs for the P70 Tuesday sessions





Qi Wang

I am really grateful for the major contribution you have made to our UK-China research community, which has led to us receiving the prestigious

International Science and Technology Cooperation Award of the People's Republic of China

presented to Professor Phil Coates on 8th January 2018 at the Great Hall of the People, Beijing by President Xi Jinping, Premier Li Keqiang, Vice Premier Liu Yandong, Vice Premier Zhang Gaoli and other leaders

Phil Coates
 Professor Phil Coates FRng
 Director, Polymer Interdisciplinary Research Centre
 Director, Science Bridges China and UK-China AMRI

Thank you certificates presented to some of those present at P70 who supported the international awards

Liqun Zhang

I am really grateful for the major contribution you have made to our UK-China research community, which has led to us receiving the prestigious

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Phil Coates
 Professor Phil Coates FRng
 Director, Polymer Interdisciplinary Research Centre
 Director, Science Bridges China and UK-China AMRI

P70 Norcroft Auditorium - technical sessions



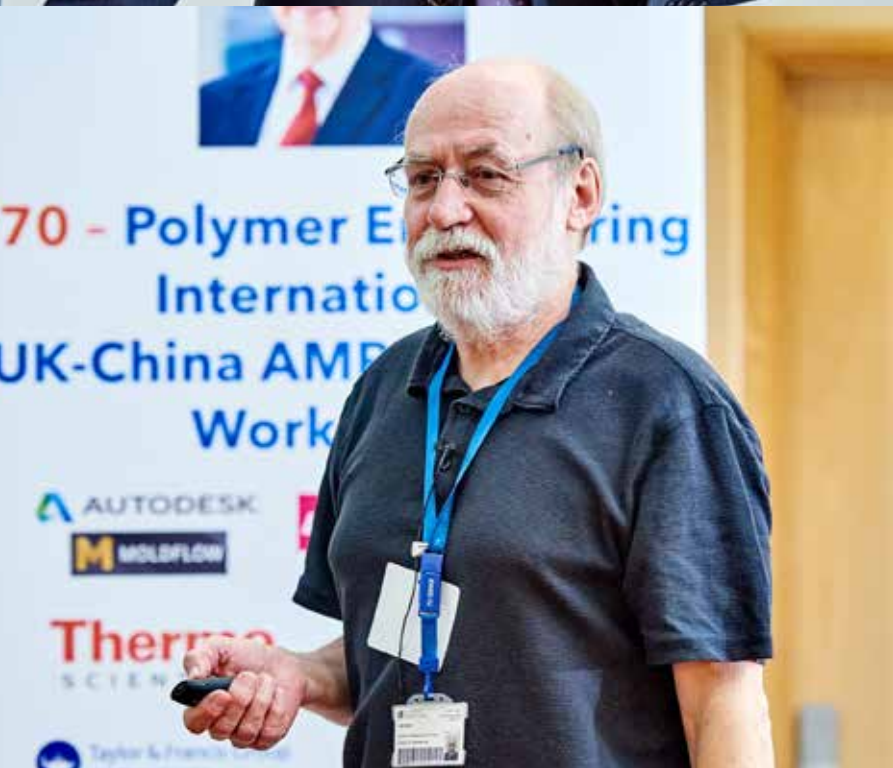










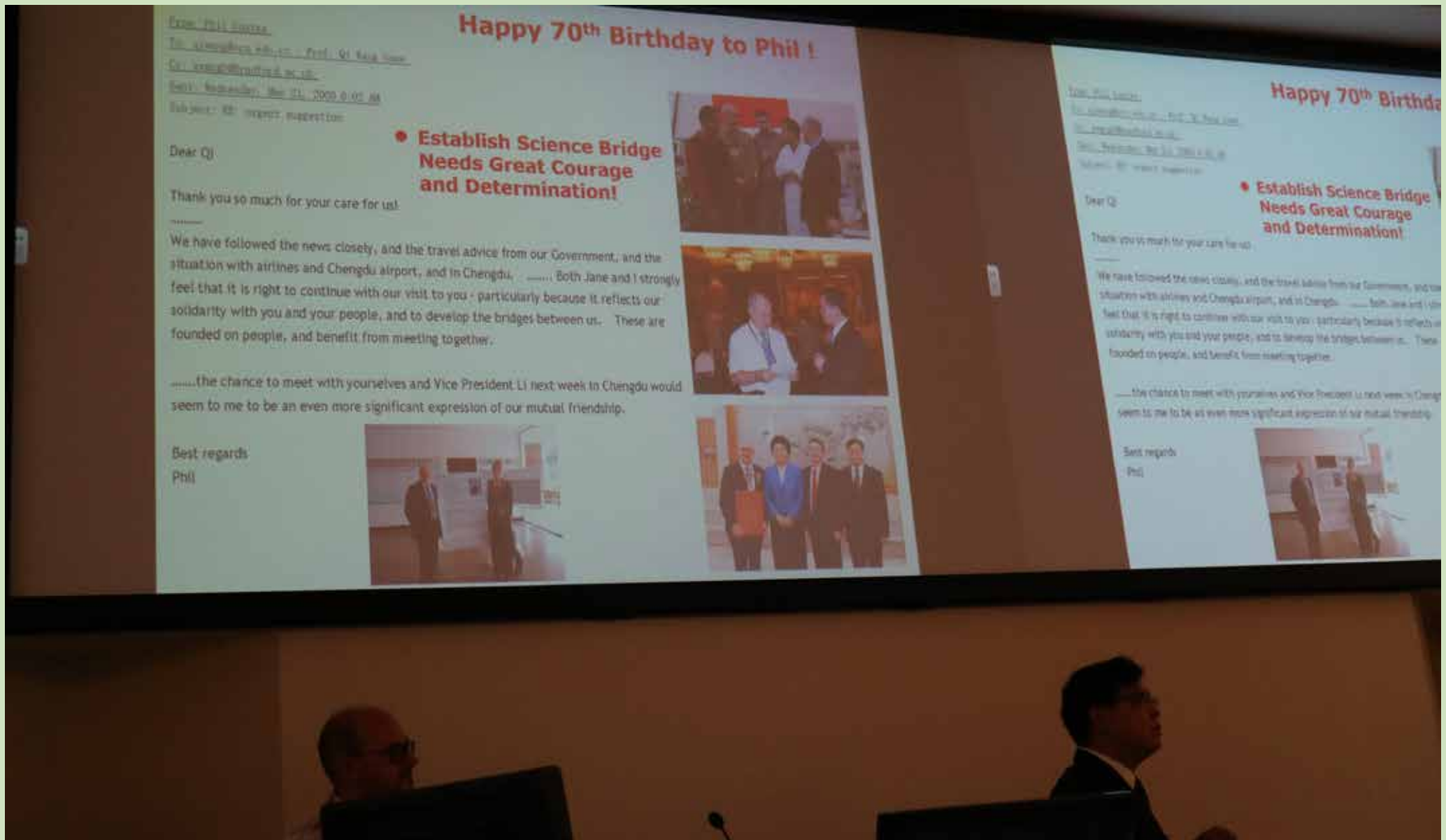






Probing questions from the audience!

Technical sessions Thursday 20 September



a reminder of an important, relationship confirming visit by Phil & Jane to Sichuan, soon after the disastrous Wenchuan earthquake in 2008



Great helpers for P70!



We meet again! The first 3 Researcher Exchanges, from Sichuan





Engaging together in the breaks, Norcroft Conference Centre Lounge



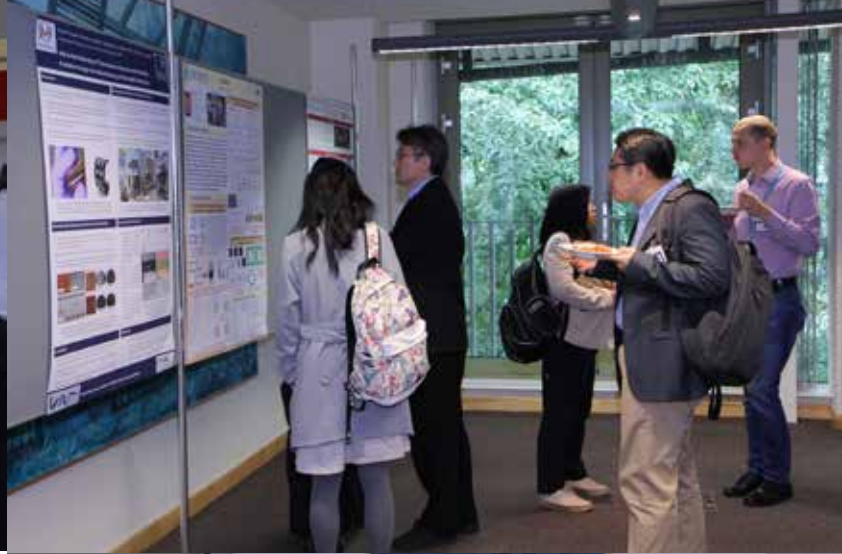






Excellent food and service for the breaks and lunches

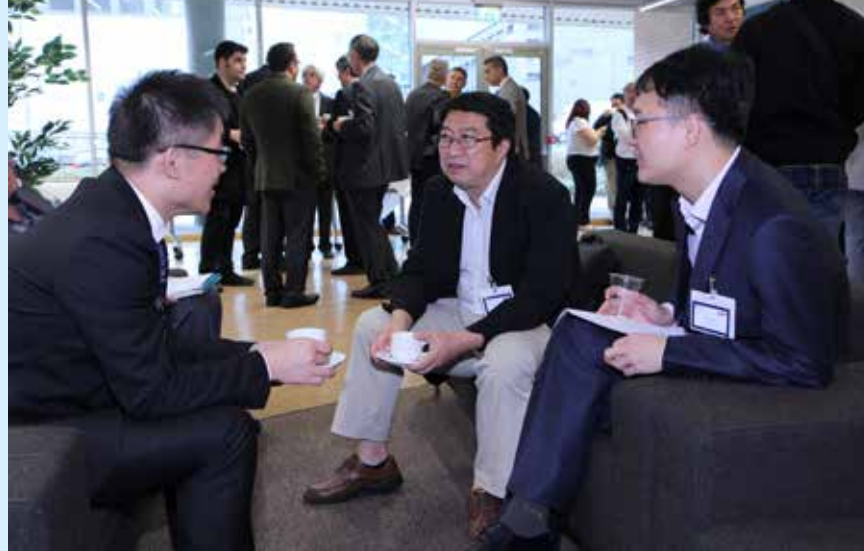
























with Stuart Patrick, Chair of the
IoM3 Polymer Society Board





P70 Exhibition - Norcroft Conference Centre





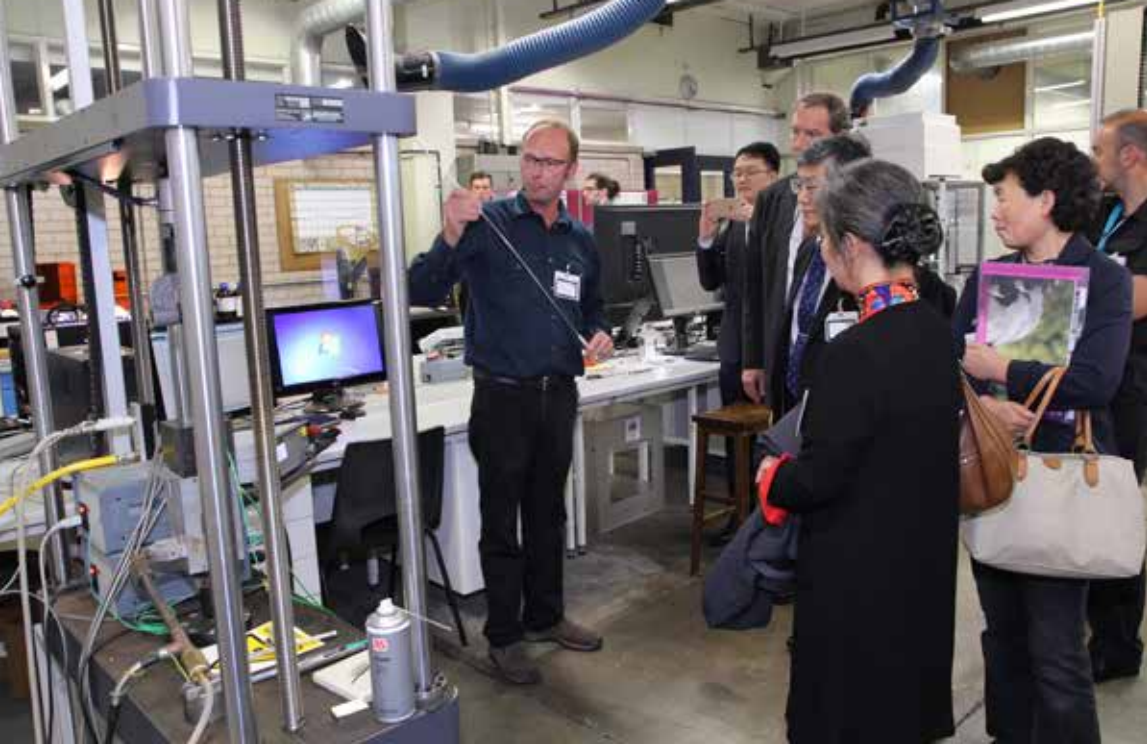


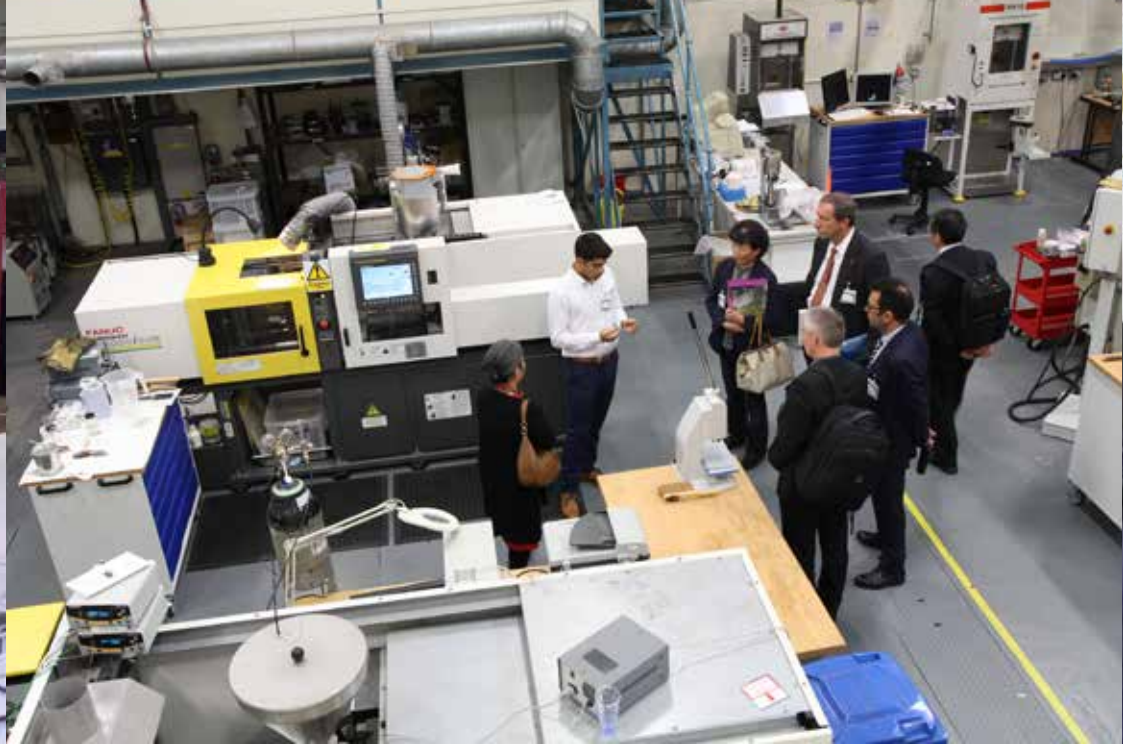
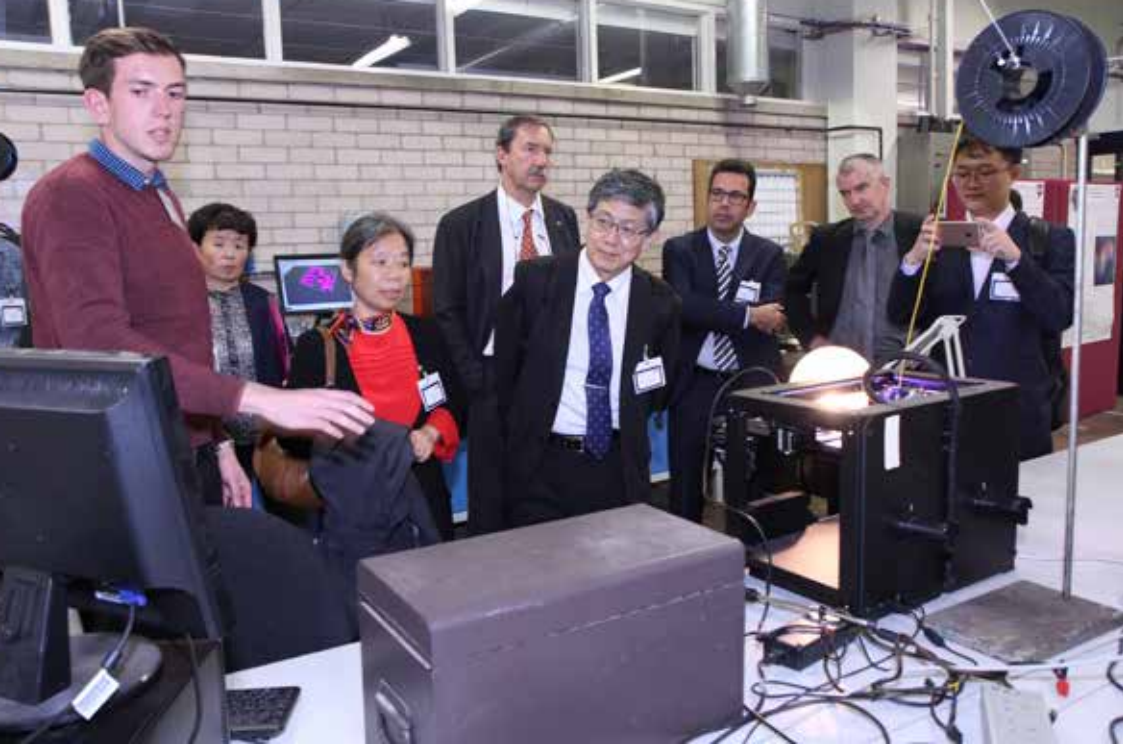
P70 Polymer IRC Laboratory tour, 18 September



















in the old Court





in the City
Council
Chamber







Phil, Sam and Jane meet Minister Qin Zhu





Minister Qin Zhu, Vice Chancellor Brian Cantor & Lord Mayor Ali







the Banqueting Hall, in the Grade1 listed Bradford City Hall







**P70 Reunion Banquet,
Midland Hotel,
Wednesday 19 September**







Photo Booth fun!













HAREWOOD

Thursday 20 September









中英使者
大家風範

菲利普寇茨先生惠存
北京化工大學材料學院張慶生



Special gifts:
a banner from BUCT
a ceramic plate from ICCAS
Beijing
and a mermaid and bowl from
the Danish Technical University



Special gifts from Sichuan University, and colleagues



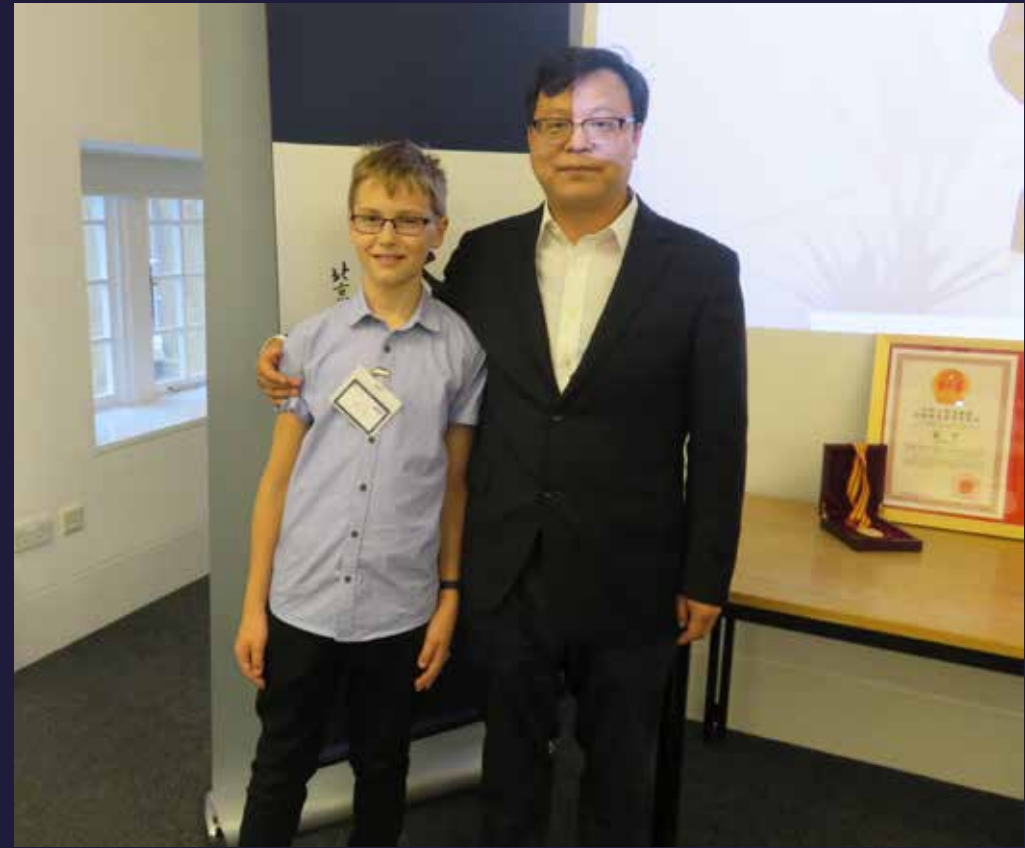


Special gifts:
from Changchun
CIACCAS





Special gifts:
from SIMMCAS Shanghai



Some of the many gifts
on display, with the China
International Award













中英使者
大家風範

菲利普·寇茨先生惠存
上海世博会



Xiaolei and Haoying spring a nice surprise!



man saves Grade 1 listed building from fire!



Photobooth example pages



(May you keep in good health and good spirit all through the year! Happy Birthday)

祝 Phil 生日快乐, 健康幸福!

何志 yue si 杨文 yan ge si

李莉 di hi 李宁 Ning Chen. 阮仕 long Tracy

叶林 Lin Ye



FROM EVERY PART
OF THE WORLD,
WE HAD A
WONDERFUL TIME.
HAPPY BIRTHDAY
BHA Phil
Lynn Sebastian



(Wish you as longevous as the pinastors which are never old in Mountain Nanshan.)

寿比南山不老松 by Long Jiang

祝君如松柏之长青 Wozheng

(Wish you as beatific as the water which is forever flowing in Danghai Sea.)

नुम जियो हजारो साल ☺
Sahn Sachin Kordre

प्रिय फील तुम्हाला वाढतीवसाच्या
हार्दिक शुभेच्छा
SUDHIR PAIRE



Hi Phil
You Rock
Happy Birthday
@Cartik & Chetali

#Glen ...
Happy birthday Phil!
LAND ROVER
UMBRELLA

Happy Birthday Phil,
All the Best,
Paul



P70 - Polymer Engineering International/ UK-China AMRI Research Workshop



Tuesday 18 September

Norcroft Conference Centre, University of Bradford

8.55	Welcome
	Processing Science & Technology 1 Chairs: <i>Gerrit Peters & Roberto Pantani</i>
T1	9.00 Cell morphology on injection-molded PMMA microstructures as function of surface energy <i>Clemens Holzer, University of Leoben, Austria</i>
T2	9.20 Slip of polypropylene melts over different laser-induced periodic nano-structures in thin-wall injection molding <i>Giovanni Lucchetta, University of Padua, Italy</i>
T3	9.35 Development of highly conductive hybrid composite <i>Aminul Islam, Technical University of Denmark, Denmark</i>
T4	9.50 Extrusion melt flow characterized in real time using in-line rheo-optical techniques <i>Sebastião Canerovolo, UFSCar, Brasil</i>
T5	10.05 In-process materials characterization during small-scale extrusion under constant operating conditions <i>Jose Covas, University of Minho, Portugal</i>
10.25	Coffee & Posters/ Exhibition/ Photo 1
	Processing Science & Technology 2 Chairs: <i>Ben Whiteside & Jose Covas</i>
T6	11.05 Melt Processing of Polymers for Pharmaceutical Applications <i>Adrian Kelly, Polymer IRC, University of Bradford, UK</i>
T7	11.20 Preparation of flexible polymer sensors by Spatial Confining Forced Network assembly <i>Xiaolong Gao, Beijing University of Chemical Technology, China</i>
T8	11.35 Selective Laser Sintering of Polyamide11/ Barium Titanate Piezoelectric Composite Powder <i>Ning Chen, Sichuan University, China</i>
T9	11.50 Continuous Manufacturing of Cocrystals Using Solid State Shear Milling Technology <i>Sachin Korde, Pharmaceutical Engineering Science, University of Bradford, UK</i>
T10	12.00 Injection moulding and micro-injection molding with local cavity temperature control <i>Roberto Pantani, University of Salerno, Italy</i>
T11	12.15 3D Printing: recent advances in material developments <i>Ludwig Cardon, University of Gent, Belgium</i>
12.35	Lunch & Exhibition, Posters
	Processing Science & Technology 3 Chairs: <i>Ludwig Cardon & Giovanni Lucchetta</i>
T12	13.30 Advances in Injection Moulding Simulation <i>Russ Speight, Autodesk Moldflow, Australia</i>
T13	13.50 Fibre Dispersion and Fibre Length Distribution in Long Glass Fibre Reinforced PP Injection Mouldings <i>Millan Gilson, Polymer IRC, University of Bradford, UK</i>
T14	14.00 Wittmann Battenfeld 10th Anniversary Showcase <i>Barry Hill, Wittmann Battenfeld Ltd, UK</i>
T15	14.10 The use of micron scale surface features in the fight against counterfeit goods <i>Phil Harrison, Sofmat Ltd, UK</i>
T16	14.20 Roll-to-roll processing for flexible devices <i>Hazel Assender, Oxford University, UK</i>
T17	14.30 UK government strategy aligned to polymer activities; and how the Knowledge Transfer Network can support you <i>Sally Beken, Materials KTN, UK</i>
14.45	Coffee & Posters/ Exhibition
	Processing Science & Technology 4 Chairs: <i>Clemens Holzer & Guangian Li</i>
T18	15.15 Properties depend on structures; what is the origin of these structures? <i>Gerrit Peters, Technical University, Eindhoven, Netherlands</i>
T19	15.35 Reactive Jet Impingement: A New 3D Printing Process for Cell filled Gels <i>Kenny Dalgarno, Newcastle University, UK</i>
T20	15.50 Comparison of biophysical properties characterized for microtissues cultured using microencapsulation and liquid crystal based 3D cell culture techniques <i>Mansour Youseffi, Polymer IRC, University of Bradford, UK</i>

T21	16.00 Smart hydrogels for controlled drug delivery <i>Bana Shriky, Polymer IRC, University of Bradford, UK</i>
T22	16.10 Molecular Design of Highly-Stretchable Ionomers <i>Quan Chen, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i>
T23	16.20 Development of improved bio-based polymeric compounds for durable applications <i>Nikolaos Kassos, Polymer IRC, University of Bradford /Floreon Ltd UK</i>
T24	16.30 Design, Preparation and Application of Biobased Itaconic Acid Ester typed Elastomer Materials <i>Xinxin Zhou/ Liqun Zhang, Beijing University of Chemical Technology</i>
T25	16.40 Flow induced crystallisation in polymers: from molecules to processing <i>Richard Graham, University of Nottingham, UK</i>
16.50	Polymer IRC Laboratory demonstrations
18.15	Tour and Reception, City Hall Bradford
19.00	Conference Banquet – City Hall Bradford, with the Lord Mayor & Deputy Ambassador to the UK, PR China

Wednesday 19 September

Norcroft Conference Centre, University of Bradford

9.00	STRATEGY Chairs: <i>Phil Coates & Guangxian Li</i> <i>Guangxian Li, Sichuan University/ Director AMRI;</i> <i>Qin Zhu, Minister of the Chinese Embassy in the UK;</i> <i>Matthew Rous, CEO, China Britain Business Council</i> <i>Jiansheng Du, UK Department of International Trade</i> <i>Kersten England, Chief Executive Bradford City Council</i> <i>Phil Coates, Director Polymer IRC & Science Bridges China/ AMRI</i>
	Med Tech 1 Chairs: <i>Fin Caton-Rose & Takeshi Kikutani</i>
W1	9.50 Leeds City Region Medtech <i>John Fisher, Director MeDe Innovation, University of Leeds, UK</i>
W2	10.10 The Development of Next Generation Bioresorbable Coronary Scaffold (ArterioSorb™) <i>Kadem Al-Lamee, Arterius Ltd, UK</i>
W3	10.20 Electrospinning of Polymer Solutions for Biomedical Applications <i>Pete Twigg, Polymer IRC University of Bradford, UK</i>
W4	10.30 Regenerated Silk Fibroin Fibres and Textiles for Medical Applications <i>David Farrar, Xiros Ltd, UK</i>
10.40	Coffee & Posters/ Exhibition - Conference Photograph
	Processing Science & Technology 5 Chairs: <i>David Farrar & Yongfeng Men</i>
W5	11.10 Network structure determines failure property of semicrystalline polymers <i>Yongfeng Men, Changchun Insitute of Applied Chemistry Chinese Academy of Sciences, China</i>
W6	11.30 Nanoindentation analysis of oriented polypropylene <i>John Sweeney, Polymer IRC University of Bradford, UK</i>
W7	11.40 Progress on Highly Oriented Poly (lactic acid) Produced by Solid-phase Die Drawing: Structure, Mechanical and Biological Properties <i>Lin Ye, Sichuan University, China</i>
W8	11.50 Tailored Fixation Devices Via Oriented Polymers with Shape Memory <i>Fin Caton-Rose, Polymer IRC, University of Bradford, UK</i>
W9	12.00 Finite element modelling of solid-phase tube die-drawing <i>Paul Spencer, Polymer IRC, University of Bradford, UK</i>
W10	12.10 Multicomponent Fiber Processing for Novel Applications <i>Takeshi Kikutani, Tokyo Institute of Technology, Japan</i>
12.30	Lunch & Exhibition & Posters
	Med Tech 2 Chairs: <i>Adrian Kelly & Steve Rimmer</i>
W11	13.30 Determination of material distributions in drug delivery systems <i>Jiwen Zhang, Shanghai Institute Materia Medica Chinese Academy of Sciences, China</i>
W13	13.50 Destabilization of polyacrylic acid gel by counter ion replacement <i>Anant Paradkar, Pharmaceutical Engineering Science, University of Bradford, UK</i>
W14	14.00 Enhanced bioavailability of Curcumin loaded nano-hydroxyapatite injectable paste <i>Niten Jadav, Pharmaceutical Engineering Science, University of Bradford, UK</i>
W15	14.10 Multi-functional Materials for the Manufacture of Antimicrobial Medical Devices <i>Paul Hutton, University of Sheffield, UK</i>
W16	14.30 Orthopaedic compression screws formed from body-temperature reverting, shape-memory polymers <i>Brian Thomson, Polymer IRC, University of Bradford, UK</i>

W17	14.40	Mechanical Assessment and Preclinical Development of Shape Memory Sutures: A MeDe Innovation Collaboration <i>Tony Herbert, Leeds University, UK</i>
W18	14.50	Material Characterisation of Tubular Electrospun PCL and PLGA for Vascular Tissue Engineering <i>Farshid Sefat, Polymer IRC, University of Bradford, UK</i>
W19	15.00	EfferShield technology Innovative approach for manufacturing of effervescent product <i>Sudhir Pagire, Pharmaceutical Engineering Science, University of Bradford, UK</i>
	15.10	Coffee & Posters/ Exhibition
		Med Tech 3 Chairs: <i>Jiwen Zhang & Anant Paradkar</i>
W20	15.30	Highly branched poly(N-isopropyl acrylamide) responsive to fungi <i>Steve Rimmer, Materials Chemistry, University of Bradford, UK</i>
W21	15.50	Hemosome formed by protein-polymer conjugate assembly as oxygen carrier for cancer therapy <i>Yubin Huang, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i>
W22	16.05	Using smart scaffolds to promote stem cell homing and tissue for in situ repair of cartilage lesions caused by trauma and early osteoarthritis <i>Aileen Crawford, University of Sheffield, UK</i>
W23	16.15	Sustainable development of polymer materials: stability and degradability as well as utilization of solar energy and renewable resources <i>Yi Dan, Sichuan University, China</i>
W24	16.25	Harnessing nano-patterning and incorporation of antimicrobials to manufacture orthopaedic trauma implants that resist microbial colonisation <i>Maria Katsikogianni Polymer IRC, University of Bradford, UK</i>
W25	16.35	Bio-inspired Anti-oxidant Defence System Constructed By Electrospun F127-based Fibers <i>Qiang Shi, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i>
W26	16.45	Chain Structure design, synthesis and applications of polyvinyl alcohol <i>Jiang Long, Sichuan University, China</i>
W28	16.55	Incorporation of Conjugated Polyelectrolytes with Surfactant/Sol Systems – Theoretical, Photophysical and Scattering Studies <i>Beverly Stewart, University of Bradford, UK</i>
W27	17.05	Development of Universal (Viscometric) Size Exclusion Chromatography Calibrated by DOSY NMR <i>Tom Swift, Materials Chemistry, University of Bradford, UK</i>
W12	17.15	Exploiting shape memory properties of polymers in the development of drug eluting soft tissue fixation devices <i>Karthik Nair, Polymer IRC, University of Bradford, UK</i>
	18.30	Banquet - Midland Hotel

		<i>Michael Hebda, Polymer IRC, University of Bradford, UK</i>
Th9	11.15	Film characterisation for the development of prototype automated stretch wrapping system <i>Cristina Tuinea-Bobe, Polymer IRC, University of Bradford, UK</i>
Th10	11.25	Stereocomplex formation crystalline structure of long chain branched poly (L-lactic acid)/poly (D-lactic acid) blends: Effect of melting temperature <i>Zhongguo Zhao, Sichuan University, China/ Polymer IRC, University of Bradford, UK</i>
Th11	11.35	Process fingerprinting for optimised production of thermoplastic microneedle arrays using ultrasonic microinjection moulding <i>Mert Gulcur, Polymer IRC, University of Bradford, UK</i>
Th12	11.45	Three-Dimensional Porous Carbon Materials with Tunable Super-Wettability toward Oil Spill Remediation and Electrochemical Capacitive Energy Storage <i>Wei Zhang, Sichuan University, China</i>
Th13	11.55	Moulding of micro and nano scale features for surface functionalities <i>Ben Whiteside, Polymer IRC, University of Bradford, UK</i>
Th14	12.15	Thanks <i>Phil Coates, Polymer IRC, University of Bradford, UK</i>

Lunch/ Exhibition & Posters

Social Event

13.30 Coach departs
travel through Yorkshire Dales countryside
Arrive at Harewood House
House tour
Reception & Meal
20.30 Coach returns

sponsored by:



Thursday 20 September

Norcroft Conference Centre, University of Bradford

		Processing Science & Technology 6 Chairs: <i>Hesheng Xia & Ben Whiteside</i>
Th1	9.00	Molecularly Engineered Non-particulate and Continuous Ultra-Low Density Hybrid Silica Aerogels: Superstrong and Superinsulative <i>Chul Park, University of Toronto, Canada</i>
Th2	9.20	Microcellular Foam extrusion and reducing Carbon footprint, improving Sustainability <i>Simon Dominey, MuCell Extrusion, USA</i>
Th3	9.30	Preparation of PVDF film with high performance by Solid State Shear Milling (S3M) and Biaxial Stretching <i>Li Li, Sichuan University, China</i>
Th4	9.40	Polymers for the rolling bearing applications in the variety of industries <i>Karolis Vilcinskas, University of Bradford/ BNL Ltd, UK</i>
Th5	9.50	Exchange Researches in University of Bradford ---study on polymer blends in micro-injection molding and die-drawing <i>Qi Yang, Sichuan University, China</i>
Th6	10.00	In-situ Shrinking Microfibers Enhance Strain Hardening and Foamability of Linear Polymer <i>Patrick Lee, University of Toronto, Canada</i>
	10.15	Coffee & Posters/ Exhibition
		Processing Science & Technology 7 Chairs: <i>Chul Park & Russ Speight</i>
Th7	10.45	Self-Healing Polyurethane Elastomer Materials <i>Hesheng Xia, Sichuan University, China</i>
Th8	11.05	A method for predicting geometric characteristics of polymer deposition during fused-filament-fabrication



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Attendees



Title	Surname	First Names	Institution	Title	Surname	First Names	Institution	Title	Surname	First Names	Institution
Councillor	Ali	Zafar	City of Bradford Metropolitan District Council	Mr	Ding	Lei	University of Bradford	Professor	Huang	Yubin	Changchun Institute of Applied Chemistry CAS
Mrs	Ali	Zeabunnessa	City of Bradford Metropolitan District Council	Mr	Dominey	Simon	MuCell Extrusion	Dr	Islam	Aminul	Technical University of Denmark
Dr	Al-Lamee	Kadem	Arterius Limited	Dr	Du	Jiansheng	Department for International Trade	Dr	Isreb	Mohammad	University of Bradford, UK
Professor	Assender	Hazel	University of Oxford	Dr	Duckett	Alan	Univeristy of Leeds (R)	Dr	Jiang	Long	Sichuan University
Mr	Barber	Kevin	Thermo Fisher Scientific	Ms	England	Kersten	City of Bradford Metropolitan District Council	Mr	Johnson	Alex	Olympus
Mr	Barker	David	University of Bradford	Professor	Farrar	David	Xiros Ltd	Mr	Joyce	Sam	
Dr	Beken	Sally	Knowledge Transfer Network UK	Dr	Fisher	John	University of Leeds	Dr	Kan	Ze	Qingdao University of Science and Technology
Ms	Bowles	Glenys	University of Leeds	Dr	Gao	Xiaolong	Beijing University of Chemical Technology	Mr	Kassos	Nikolaus	University of Bradford
Professor	Bridgeman	John	University of Bradford	Mr	Gilson	Millan	University of Bradford	Dr	Katsikogianni	Maria	University of Bradford
Ms	Broadbent	Kelly	University of Leeds	Professor	Gough	Tim	University of Bradford	Professor	Kelly	Adrian	University of Bradford
Dr	Brown	Elaine	University of Bradford	Professor	Graham	Richard	University of Nottingham	Professor	Kikutani	Takeshi	Tokyo Institute of Technology
Dr	Bullett	Nial	Arterius Limited	Ms	Grant	Rowan	University of Leeds	Dr	Korde	Sachin	University of Bradford
Professor	Canevarolo Jr.	Sebastião V.	Universidade Federal de São Carlos	Mr	Grimshaw	Martin	FANUC UK Limited	Dr	Lee	Patrick	University of Toronto
Professor	Cantor	Brian	University of Bradford	Mr	Gulcur	Mert	University of Bradford	Professor	Li	Guangxian	Sichuan University
Professor	Cardon	Ludwig	Gent University	Ms	Gulcur	Leyla		Professor	Li	Li	Sichuan University
Dr	Caton-Rose	Fin	University of Bradford	Professor	Guo	Yakun	University of Bradford	Professor	Li	Zhibo	Qingdao University of Science and Technology
Professor	Chen	Ning	Sichuan University	Mr	Hague	Alan	University of Bradford (R)	Dr	Li	Jian-Ping	University of Bradford
Professor	Chen	Quan	Changchun Institute of Applied Chemistry CAS	Mrs	Hague	Kath	University of Bradford	Miss	Liang	Haoying	University of Bradford
Professor	Chen	Yanhui	Northwestern Polytechnical University	Mr	Harrison	Phil	Sofmat Ltd	Professor	Liu	Shaofeng	Qingdao University of Science and Technology
Professor	Coates	Phil	University of Bradford	Professor	Hatton	Paul	Sheffield University	Dr	Long	Steve	SMP IoP
Mrs	Coates	Jane		Dr	Haynes	Andy	Black Marble Limited	Professor	Luchetta	Giovanni	Padova University
Professor	Covas	José	University of Minho	Dr	Haynes	Emma	National Physical Laboratory UK	Mr	Mackay	Ian	University of Bradford, UK
Dr	Crawford	Aileen	Sheffield University	Mr	Hebda	Michael	University of Bradford	Professor	Men	Yongfeng	Changchun Institute of Applied Chemistry CAS
Professor	Dalgarno	Kenny	Newcastle University	Dr	Herbert	Tony	University of Leeds	Dr	Nair	Karthik	University of Bradford
Professor	Dan	Yi	Sichuan University	Mr	Hill	Barry	Wittmann Battenfeld UK Ltd	Dr	Niten	Jadav	University of Bradford
Dr	Dawson	Andy	Black Marble Limited	Professor	Holzer	Clemens	Montanuniversität Leoben	Mr	Norris	Keith	University of Bradford (R)
				Mr	Howell	Kenneth	University of Bradford	Dr	Pagire	Sudhir	University of Bradford
								Professor	Pantani	Roberto	University of Salerno
								Professor	Paradkar	Anant	University of Bradford
								Professor	Park	Chul	University of Toronto
								Mr	Patrick	Stuart	IOM3 Polymer Society Chair
								Professor	Peters	Gerrit	Eindhoven University of Technology

Title	Surname	First Names	Institution	Dr	Vgenopoulos	Dimitris	Croda Europe Ltd
Dr	Pors	Klaus	University of Bradford	Dr	Vilcinkas	Karolis	University of Bradford
Professor	Priest	Martin	University of Bradford	Ms	Wang	Xiaolei	University of Bradford
Dr	Pu	Jaan	University of Bradford	Professor	Whiteside	Ben	University of Bradford
Ms	Rainton	Sue		Mr	Williams	Daniel	Wittman Battenfeld
Professor	Rimmer	Steve	University of Bradford	Ms	Wolton	Emily	University of Bradford
Mr	Roberts	Darren	Thermo Fisher Scientific	Mr	Wyborn	John	University of Bradford (R)
Mr	Rous	Matthew	China Britain Business Council	Professor	Xia	Hesheng	Sichuan University
Dr	Ryabenkova	Yulia	HGF Limited	Professor	Yang	Qi	Sichuan University
Mr	Salhab	Mohammed	University of Bradford, UK	Professor	Ye	Lin	Sichuan University
Dr	Savetlana	Shirley	University of Lampung, Indonesia	Dr	Youseffi	Mansour	University of Bradford
Dr	Sefat	Farshid	University of Bradford	Ms	Yu	Hailing	China Britain Business Council
Professor	Shi	Qiang	Changchun Institute of Applied Chemistry CAS	Dr	Zhang	Wei	Sichuan University
Miss	Shriky	Bana	University of Bradford	Professor	Zhang	Jiwen	Shanghai Institute of Materia Medica CAS
Dr	Smith	Graham	Principle Systems Ltd	Mr	Zhao	Zhongguo	Sichuan University
Mr	Smith	Nigel	University of Bradford	Dr	Zhou	Xinxin	Beijing University of Chemical Technology
Professor	Speight	Russell	Autodesk	Minister	Zhu	Qin	Minister of the Chinese Embassy in the UK
Dr	Spencer	Paul	University of Bradford	Dr	Zhu	Danlu	Sinopec
Dr	Stewart	Beverly	University of Bradford				
Ms	Stewart	Fiona	University of Bradford				
Dr	Stuart	Bryan	University of Oxford				
Mr	Sugden	Darren	University of Huddersfield				
Professor	Sweeney	John	University of Bradford				
Dr	Swift	Tom	University of Bradford				
Mr	Tan	Ge	Chinese Embassy in the UK				
Mr	Tan	Junyao	Chinese Embassy in the UK				
Dr	Taraiya	Ajay	Sabic				
Ms	Taylor	Jonathan	Olympus				
Mr	Thomas	Lee	University of Bradford				
Mr	Thompson	Glen	University of Bradford				
Dr	Thomson	Brian	University of Bradford				
Dr	Tucker	Nick	University of Lincoln				
Mrs	Tucker						
Dr	Tuinea-Bobe	Cristina	University of Bradford				
Ms	Tuinea-Bobe	Roxana					
Dr	Twigg	Pete	University of Bradford				

Those invited to speak, but not able to be with us include:

- Prof Yinghong Chen, Sichuan University
- Prof John Coulter, Lehigh University, USA
- Prof Furong Gao, HKUST, China
- Dr Stuart Green, Victrex Ltd, UK
- Dr Pete Hine, Leeds University, UK
- Prof Hiroshi Ito, Yamagata University, Japan
- Prof Musa Kamal, McGill University, Montreal, Canada
- Prof Canhui Liu, Sichuan University, China
- Prof Tom McLeish, York University, UK
- Prof Tony McNally, Warwick University, UK
- Dr Leigh Mulvaney-Johnson, Aflex Hose Ltd, UK
- Kevin Nichols, Eovations LLC, USA
- Prof Jinliang Qiao, Sinopec BRICI, Beijing, China
- Prof Dong Qiu, ICCAS, Beijing, China
- Prof Guiseppe Titomanlio, University of Salerno, Italy
- Dr Guido Tosello, Danish Technical University, Copenhagen, Denmark
- Prof Dujin Wang, ICCAS, Beijing, China
- Dr Steve Wong, Gluco Lt UK
- Prof Qi Wang, Sichuan University, China



International Awards

2015 Tian Fu Friendship Award, of the People's Government of Sichuan Province

This was the first ever awarded. It was presented by the Vice Governor of Sichuan Province in Mianyang, and acknowledged the warmth of collaboration between Prof Coates and Sichuan University, since 2006.



2016 Sichuan Science and Technology Progress Award: International Scientific Co-operation

This was the first ever awarded. Unfortunately Prof Coates could not attend the award ceremony in Sichuan. It acknowledged the excellent scientific cooperation between Prof Coates and Sichuan University colleagues (particularly led by Prof Qi Wang, Prof Guangxian Li and Prof Hesheng Xia), including the approval by MOST of the Joint International Laboratory.



2017 James L White Innovation Award

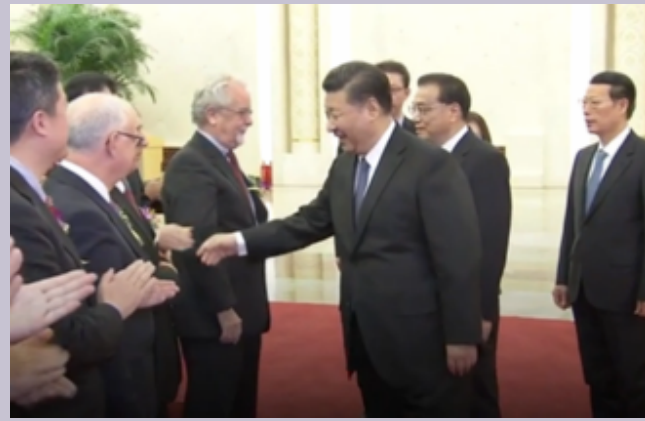
of the International Polymer Processing Society, the top award of the PPS for leading achievement in polymer innovation was given at PPS-33 to Phil Coates for the development of solid phase orientation processing routes which are exploited in the manufacture of products with greatly enhanced properties. Prof. Coates has exploited solid phase processing of polymers (at temperatures above T_g but below T_m), to attain stable, molecularly oriented structures with significant, controlled improvement in modulus, tensile strength, thermal conductivity, creep resistance, impact resistance, diffusion behaviour and drug elution. His work from the 1970s, when he invented the polymer die-drawing process, to the present has established the excellent team in the Polymer IRC at Bradford as the leaders in solid-phase polymer orientation with extensive journal publications, the research book in this area (PPS series), a range of patents with collaborators, and a large industrial (including BP Chemicals, Bridon International, Dow, Sinopec, Sabic, Smith & Nephew, Arterius) and government research contract portfolio. The Polymer IRC research led by Phil has been commercialised in macro to micro products, including highly stable building materials exploiting controlled cavitation with orientation (via a Dow spin out company in the USA, Eovations LLC); suitcases (CURVTM e.g. Samsonite); and high precision arterial stents (Arterius Ltd); with other products such as shape memory tissue fixations and drug-eluting implants in development. His research has developed fundamental understanding of the mechanics of solid-phase deformation behaviour of polymers, with new constitutive relationships and physical modelling used to achieve molecular-related understanding of deformation and feed computer modelling and control of structure. This has underpinned inventive steps in the design and implementation of batch and continuous processes, and these die-drawing process technologies have been transferred to industry at both large and small scales, and also to academy, the latter via Royal Society Newton support for in-situ x-ray beam line studies of die drawing structure development in a joint international research laboratory in Changchun, China.



2018 Society of Plastics Engineers International Award

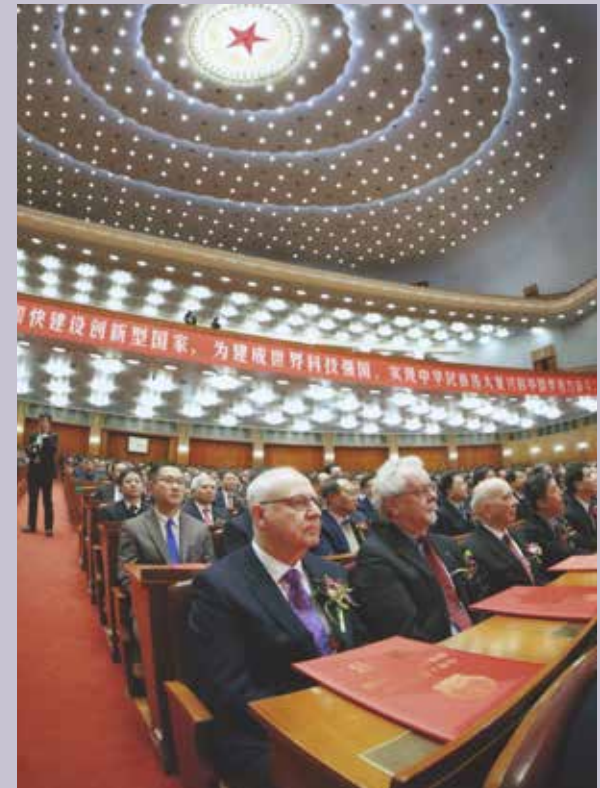
, the top award of the Society, for lifetime achievement in polymer engineering Phil Coates, a professor of the University of Bradford and director of the Interdisciplinary Research Centre in Polymer Science & Technology, received the Society of Plastics Engineers' International Award at Antec 2018, held May 7-10, in conjunction with NPE2018 in Orlando, Fla., at the Orange County Convention Center. SPE honored its award recipients during the Plastics Hall of Fame induction ceremony May 6. 'The SPE annually recognizes excellence in the plastics industry by rewarding the efforts of individuals who have made outstanding contributions or lifetime achievements in plastics. The SPE International Award is the highest honor bestowed by the Society. It recognizes lifetime achievements in the fields of polymer science or polymer/plastics engineering. Nominees should be recognised internationally by their peers for excellence in their fields.' The award is sponsored by SPE's Detroit Section and the Automotive division. Coates is a physics graduate of Imperial College in London. His PhD thesis was on solid phase deformation processing of polymers. At Antec, Coates will give the plenary speech on May 10, titled "Controlled Structuring of Polymers by Processing: Science, Technology and Applications. The Interdisciplinary Research Centre in Polymer Science & Technology internationally known. It links research at the universities of Leeds, Bradford, Durham and Sheffield, England. Coates is also director of the MeDe Innovation, the Centre of Innovative Manufacturing in Medical Devices under the UK's Engineering and Physical Research Council. He also directs a government-sponsored collaboration between the United Kingdom and China. He holds 12 patents, has published more than 300 papers in scientific journals and co-authored nine books.

2017 International Science & Technology Cooperation Award of the People's Republic of China, presented by President Xi Jinping, 8 January 2018



Awardees meet President Xi Jinping and the full leadership team of China prior to the Great Hall Ceremony

The award certificate and medal



Award Ceremony in the Great Hall of the People



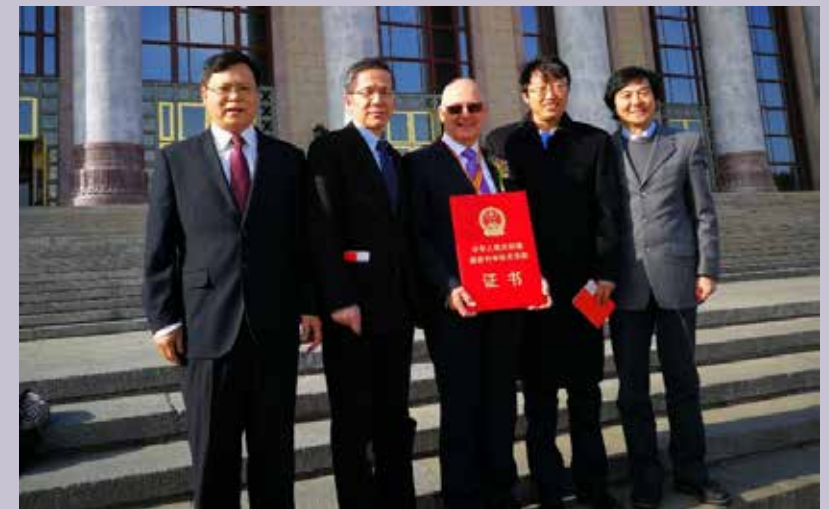
Medal presentation by Vice President, Madam Liu Yandong



Winners with Madam Liu in the Sichuan Room of the Great Hall of the People



Madam Liu Yandong, with Sunan Jiang, Minister Counsellor for Science of the Chinese Embassy UK, and Prof Hesheng Xia, Sichuan University



Outside the Great Hall - with great support from Chinese colleagues, Prof Hesheng Xia, Prof Guangxian Li, Prof Liqun Zhang and Prof Yongfeng Men

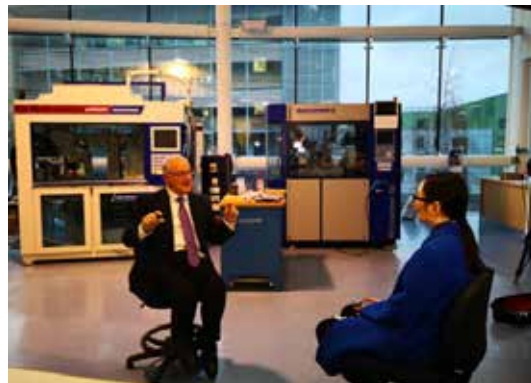


On 9 January 2018, Phil spoke at Beijing University of Chemical Technology, where he is an Honorary Professor, on "Promoting scientific and innovative development with international cooperation", meeting with Vice President Chen Jianfeng, International Exchange and Cooperation Office Ms Li Xinjun, Dean of School of Materials Science and Engineering, Zhang Liqun.



Meeting with Yanrong Li, President of Sichuan University (where Phil is an Honorary Professor), and other leaders, including Prof Qi Wang and Prof Guangxian Li, and the State Key Laboratory for Polymer Materials Engineering (SKLPME) colleagues, 10 Jan 2018

Phil Coates院士表示，中华人民共和国国际科学技术合作奖的设立和颁发展示了中国政府对科学技术和科学人才的高度重视。此次获奖既是中国政府对他本人工作的肯定，更是对他与川大合作的肯定。川大的高分子学科已经居于世界领先地位，希望借助此次契机，进一步加强与川大间的强强合作，共同为学科发展、人才培养、国际合作贡献力量。 This was followed by a lecture on Innovation and people bridges in the SKLPME



CCTV, broadcast on 29 January 2018

Other Personal Awards

Prof Phil Coates:

- 1986 Elected Fellow of the PRI (later Institute of Materials)
- 1989 Founder Member, Interdisciplinary Research Centre in Polymer Science & Technology
- 1990 Elected Fellow of the Institution of Mechanical Engineers
- 1995 Elected Fellow of the Royal Academy of Engineering
- 1999 Netlon Award (Gold Medal) for Innovation in Processing, Institute of Materials
- 2006 Plastics Industry - Award for Personal Contribution to the Sector
- 2008 IoM3 Swinburne Award & Gold Medal
- 2008 Honorary Professor Sichuan University
- 2008 Molecular Sciences Forum Professor, Chinese Academy of Sciences, Institute of Chemistry, Beijing
- 2009 Honorary Professor Beijing University of Chemical Technology
- 2010 Famous Overseas Scholar, Ministry of Education, China / Sichuan University
- 2010 High End Foreign Professor, Sichuan University
- 2011 Top Foreign Expert of the State Foreign Experts Bureau
- 2012 Changchun Institute of Applied Chemistry, Chinese Academy of Sciences honorary lecturer

Science Bridges China team awards

- 2008 RCUK Bradford Science Bridges China top ranked bid
- 2008 UKTI/Y&H China Business Award – Best Education
- 2011 Interdisciplinary Working Award, Bradford University
- 2014 Vice Chancellor's Award for Outstanding Achievement, University of Bradford



the initial Polymer IRC Board, 1989; first Director Prof Ian Ward FRS in centre front



Plastics Industry Award, 2006



Honorary Professor, Sichuan University 2008



High End Foreign Teacher Award, 2010 (first ever) with President Xie of Sichuan University



Elected Fellow of the Royal Academy of Engineering, 1995; Prince Philip in centre front



1999 Netlon Award for Innovation in Processing presented by Dr Bruce Farmer, President of the Institute of Materials



2008 Swinburne Award & Medal of the Institute of Materials, Minerals & Mining, presented by Prof Ian Ward FRS



Honorary Professor, Beijing University of Chemical Technology 2009 with Vice President Li

Polymer Engineering International

an international network of leading polymer engineering researchers

Welcome!

What is Polymer Engineering International?

We are a relatively informal consortium of leading polymer-related research groups around the world. Initially these groups have been associated with UK Polymer IRC collaborations, where we have a connections between the leaders and research teams, but we aim to reach beyond that.

The aim is **mutual benefit**, to promote collaborative activities, **with practical outcomes** for all who participate actively – in particular with researcher exchanges and other early career researcher opportunities. Our experience in the Polymer IRC of such interactions with leading Chinese groups over the past decade has been so positive, we feel that it is timely to develop this further. It would also feed positively into the other structures (such as the PPS and professional institutions) to which we are committed. It is not intended to compete against any of these, but provide additional benefit.

What value is Polymer Engineering International to you and your laboratory?

- We aim to assist **collaborations** across different groups and discipline boundaries to meet needs in modern day polymer engineering topics – products are reflecting convergence of technologies and functionality, so increasingly there is need for **cross-group collaborations**.
- We aim to develop **Research Exchanges** (e.g. one month duration), especially early career researchers – we have found this to be a most successful route to develop collaborations; shorter inter-laboratory visits for awareness could also be arranged.
- We aim for dialogues which open up opportunities for:
 - new joint bids for research funding, or for
 - formation of teams for UK or international bids, and perhaps in due course,
 - setting up joint laboratories for targeted areas.

Which groups can be members?

We aim initially to have leading polymer-related research groups (not individuals) join the consortium to help develop its value and credibility.
We start with invited members from the UK and abroad.

What is the cost of membership?

There is no cost to be a member.

However:

It could take some of your/ your team's time, to help us develop representative information and collaborative activities.

If, in due course, requirements for some resources become apparent then we would have to consider how members could help with this.

Launched at P70, Polymer Engineering International aims to build on our Science Bridges China success, with a global network of leading research laboratories.

For more information see www.polyenginternational.com

What are members expected to do?

All members will need to complete a simple template, which will give basic information about your group for inclusion on this dedicated web site.

Members will share information with each other to help promote collaborations, including identifying specific areas in which you would like to find research collaboration partners.

When a Research Exchange is agreed between two laboratories, the partners will need to fund the Exchange costs (travel, subsistence, materials etc) in an agreed share of costs. (We have a lot of experience of this with Chinese partners)

Inter-laboratory short visits could be arranged e.g. for early career researchers - this has proven to be very helpful to develop co-operations.

Who operates this venture?

Initially this network will be co-ordinated from the Polymer IRC at Bradford.

We will then aim to have a representative group of leaders from the membership to develop the venture, but avoid building structures requiring heavy administration.

How will this relate to existing activities?

We aim to be complementary to and fully supportive of existing, excellent international societies such as the Polymer Processing Society, SPE, the IoMMM Polymer Society, EPF - certainly not attempting to duplicate their functions (such as the international annual meetings or regional meetings of the PPS). Such Societies have personal membership. We aim for Laboratories/ Groups to be members and to generate activities which are not promoted in practise via PPS and other societies – namely Research Exchanges, forming teams for bids, setting up Joint Laboratories, etc.

*Professor Phil Coates FEng
Director, Polymer IRC*

September 2018

It all starts with People:

Phil Coates – Who am I?

- Born in Leeds, Yorkshire 1948, in a working-class family
- 1 younger brother (d.1970, age 14)
- Married Jane, 3 July 1971
- 4 children:
 - Emma
 - Charlotte (d.2014, age 36)
 - Laura
 - John
- + now Sam



Life is not simple; we are complex beings & need to understand each other better.... People matter most!



Professor P D Coates

BSc ARCS MSc PhD FEng FIMechE FIMMM
CEng

Professor Philip David Coates is a Physics graduate (Imperial College), London. His PhD research was on solid phase deformation processing of polymers (Leeds University). Prof Coates was elected a Fellow of the Royal Academy of Engineering in 1995. He was Pro Vice Chancellor for Research & Knowledge Transfer at Bradford for 7 years (2004-11), and is Professor of Polymer Engineering, at the University of Bradford. Phil is Director of the internationally recognised Polymer Interdisciplinary Research Centre (IRC, across the Universities of Leeds, Bradford, Durham and Sheffield), with some 50 researchers at Bradford involved at the leading edge of in-process measurements for process monitoring, analysis and control, and computer modelling in a 4500 m² laboratory. The research targets high value polymer products for a range of sectors – healthcare technology (including bioresorbable polymers for orthopaedic applications), pharmaceuticals processing, optical, automotive and advanced materials developments, including nanocomposites and reactive grafting, all with pioneering in-process measurement and modelling. He is a director of MeDe Innovation, the £5.7m EPSRC Centre of Innovative Manufacturing in Medical Devices, founded in 2013 across Leeds, Bradford, Newcastle, Nottingham and Sheffield Universities. His research has substantial support (over £55 million total grants and contracts) from UK Government sources and industry, with over 150 companies collaborating in the research programmes from the USA, Europe, the Middle East, China, Australia and Japan. Similarly, the research involves strong international cooperation in the UK, Europe, N America, India, Japan and particularly China.

He directs the RCUK Bradford Science Bridges China/ EPSRC Global Engagements programme – a government sponsored collaboration (which has achieved over £15m total UK and China support to date) with over 20 Chinese Universities focussed on advanced materials for healthcare technologies. He leads the UK-China Advanced Materials Research Institute (UK-China AMRI). He is an Honorary Professor of Sichuan University and Beijing University

of Chemical Technology, and a Molecular Sciences Forum Professor at the Institute of Chemistry, Chinese Academy of Sciences, Beijing and CIACAS Changchun, and has high quality joint publications with these groups. He has three joint laboratories with leading Chinese groups: (1) The first formed in 2010 with Sichuan University State Key Laboratory of Polymer Materials Engineering, on Polymer Microprocessing – this is a nationally approved (by MOST) international laboratory, and we have a range of joint international grants from MOST, NSFC and MoE in China; (2) The second formed in 2015 with Changchun Institute of Applied Chemistry Chinese Academy of Sciences, in Polymer Process Physics. We have joint grants (Royal Academy of Engineering Fellowship (2014-5) and a Royal Society Newton Advanced Fellowship (Prof Y Men, 2015-18), plus joint high level publications and research exchanges; (3) the third in Dec 2016 with Beijing University of Chemical Technology on Soft Matter Technologies. He is also a Famous Overseas Scholar and member of the National Bureau of Foreign Experts of China. He was the first recipient of the Tianfu Friendship Award in 2015, and received the first International Science Cooperation award from Sichuan in 2016. He co-founded (with Prof Li Guangxian, senior Vice President of Sichuan University) the UK-China Advanced Materials Research Institute (www.ukchina-amri.com) in 2012, mapping onto our continuing Science Bridges China platform, which continues to thrive with researcher exchanges. He was honoured with the Chinese National Science & Technology Award for International Cooperation (2017), presented by President Xi Jinping and other Chinese leaders in January 2018.

He runs research workshops (12 to date, at 1 or 2 per annum in the UK and China) with Chinese and UK academic partners (Leeds, Sheffield, Durham, Nottingham and Newcastle in particular), linking also with the EPSRC CIM in Medical Devices (MeDe). In addition, Prof Coates is involved with research in India, particularly in the leading Institute for Chemical Technology, Mumbai and the CSIR National Chemical Laboratory, Pune. He was a director of Medilink (Y&H) Ltd (2004-18), and is

a founder member of the Leeds City Region Local Enterprise Partnership Business, Innovation and Growth Panel (for 8 years, part as chairman), and continues to promote the international links. He was honoured by the award of the Institute of Materials (IOM) Netlon Gold Medal for Innovation in Polymer Processing (1999); the Plastics Industry Award for personal contribution to the industry (2006); the IOM3 Swinburne Award (2008); the Tianfu Friendship Award of Sichuan Province (2015); the Sichuan International Cooperation Award (2106); the JL White International Innovation Award of the international Polymer Processing Society (2017); the International Award 2018 of the Society of Plastics Engineers, their top award, in addition to the National Science & Technology Award for International Cooperation of the People's Republic of China (2017) – China's highest honour for foreign scientists. He is a member of the International Polymer Processing Society committee, and has organised a wide range of international conferences, regularly giving invited, keynote and plenary lectures. He has published extensively – over 300 papers in scientific journals and has co-authored 9 books, and edited 7 books. He holds 15 patents. He is Chief Editor of the IoM3 international journal, Plastics, Rubber and Composites: Macromolecular Engineering. Phil is married to Jane (over 47 years), with four children and four grandchildren; in addition to family, his chief interests are in music, his church, and computers.



Phil Coates P70 celebration event

Please add your comments, upload photos and more to help us celebrate this special birthday and event. Still building bridges... see www.polyeng.com/phil7

Anonymous 20d

70th Birthday Wishes

Many Many Happy Returns of the Day Prof Phil...



Add comment

Anonymous 12d

Happy Birthday !

Wishing you a happy birthday and another year of fantastic opportunities and achievements.
Best Wishes,
Nejat

Add comment

Anonymous 13d

Dear Phil, sorry I was unable to join your event due to an overloaded schedule. But all the best also from me and many happy returns so that we can celebrate the future ones together (75th, 80th, 85th... :-)). Then I will be more free. Petr Saha, TBU in Zlin



Add comment

Anonymous 20d

Many Many Happy Returns of the Day Prof Phil !!!

Wish You A Very Happy 70th Birthday



Add comment

Anonymous 14d

Looking forward to P80, P90, P100 ...

What a wonderful event, I made many new friends and connected with old ones ... and learnt about new technology.

Happy 70th Birthday Phil :-)
Russ Speight, Autodesk.



Anonymous 20d

Wish you a very happy birthday Professor Phil



Add comment

Anonymous 18d

Dear Phil,
Today is your 70th birthday, my best wishes to you: Happy Birthday!
Thank you very much for your great efforts to initiate and strengthen the fruitful cooperation between Bradford University and Sichuan University, between UK and China!
Heartfelt appreciation with your great contributions and achievements to polymer processing science and engineering worldwide!
Qi Wang
Sichuan University
China

Add comment

Anonymous 20d

Happy Birthday Phil from Salerno - Italy



Add comment

Anonymous 19d

Congratulations

Sincere congratulations and a very happy 70th Birthday to a true gentleman and scholar!
Kind regards,
Tony Herbert

Add comment

polymeric 2m

Dear Phil, Happy Birthday! Thank you for your friendship with young fellows like us and for showing a good example to follow as a good Christian professor - productive but not arrogant, humble and showing down-to-earth attitude, very family oriented, exemplary about how to handle the (family) tragedy, and so on. This picture shows one of our frequent prayer meetings at ANTEC and PPS. I enjoyed our moments together.
Chul Park



Add comment

Anonymous 20d

Wittmann Battenfeld

We wish you a happy 70th Birthday and we are looking forward to P70

Add comment

Anonymous 20d

Happy Birthday !

From UGENT CPMT Team!
See you at P70 event!

Add comment

Anonymous 15d

Happy Birthday and Congratulations!

Dear Phil,
CIAC team wants to express our best wishes to your 70th Birthday and congratulations to the kick off of the new initiative of Polymer Engineering International!
You are a really nice person to all of us, always taking care of everyone! We feel very much encouraged and touched every time visiting Bradford, always nice memories!
You showed also excellent example of doing research of great value. We learnt a lot from you and your team! We certainly look forward to working together with Bradford team in the future!
Cheers,
Qiang, Quan, Yongfeng & Yubin

Add comment

Some of the 'padlet' comments received

Polymer IRC Laboratories



UNIVERSITY of
BRADFORD



Web sites: www.polyeng.com = the gateway web site to Prof Coates' laboratories at Bradford; www.polymerirc.org is the general Polymer IRC website; www.ukchina-amri.com and www.sciencebridgeschina.com are the UK-China programmes; www.polyeng.com/ukieri the UK-India programmes; www.ceforplastics.uk reflects our involvement in the circular economy for polymers; www.polyenginternational.com - the newly launched Polymer Engineering International network.

P70

Polymer Engineering International

