

## RCUK Bradford Science Bridges China Research Workshop

# Advanced Materials for Healthcare

Chengdu, 19-21 April, 2012  
Shangri-la Hotel

**Co-chairs:**

**Professor Phil Coates** FREng

**Professor Qi Wang**

**Co-hosted by**

**RCUK Bradford Science Bridges China**

**and**

**State Key Laboratory for Polymer Materials Engineering**

**Sichuan University**

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## INTRODUCTION

As co-Chairs, we extend a warm welcome to this second RCUK Bradford Science Bridges China Research Workshop on Advanced Materials for Healthcare, which is co-hosted by Sichuan University. It follows a very successful first workshop held in Beijing in November 2011.

This Research Workshop brings together UK and Chinese academic experts in the exploitation of advanced materials, mainly polymer-related materials, for application in healthcare technologies. The Workshop will explore research interests and identify potential co-operations. It will encourage strategic UK-China collaborations, and develop high quality projects for the MOST and NSFC International Collaboration programmes. These need to be led by a Chinese partner, in association with one or more overseas partners. All will be 'badged' as being associated with Science Bridges China.

The RCUK Bradford Science Bridges China programme currently focuses on healthcare technologies, which is one of three strategic areas identified for co-operation between China and the UK. Fuller details on the Science Bridges China platform, and current projects, are provided in a later section of this booklet.

In addition, we announce the associated programme funded by EPSRC, Global Engagements programme which will allow us to develop further the Science Bridges China programme, with extended research projects, researcher exchanges, further Workshops, and joint research student supervision.

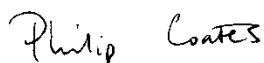
'Advanced Materials' includes:

- *nanomaterials/ nano-biomaterials*
- *biological scaffolds*
- *bone fixation*
- *dental materials*
- *drug delivery*
- *engineered surfaces/ interfaces*
- *medical devices (including surgical technologies, instruments, assistive technologies)*
- *medical packaging*
- *precision processing*
- *prostheses*
- *regenerative therapies*
- *soft tissue fixation*
- *smart (stimuli responsive) materials*
- *stents*
- *wound care*

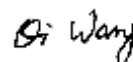
Outlines of research interests for delegates are also shown in this booklet. The presentations and these outlines, and associated posters, aim to help us introduce delegates to each other, to help develop top quality research projects. Many of the delegates have experience of working together with other groups, and across discipline boundaries. We believe that building such skills, trust and friendship between collaborators is of great value and importance for our groups and for our nations.

We look forward to working together with you, and to a very fruitful Workshop!

with warm regards



Professor Phil Coates FREng



Professor Qi Wang

Workshop Co-Chairs

**RCUK Bradford Science Bridges China Research Workshop** Chengdu, 19-21 April, 2012

**WORKSHOP VENUE:** Shangri-la Hotel, 9 Binjiang Dong Road, Chengdu,  
610021 China tel 86 28 8888 9999

**CONTACT IN CHENGDU:** Professor Hesheng Xia (xiahs@scu.edu.cn,13981805143)



**PROPOSED PROGRAMME**

	<b>Thursday 19 April</b>	
17.00pm	AMRI board meeting	Tian Fu boardroom, Shangri-la Hotel
18.00pm	Welcome Banquet	Lang Bridge Restaurant
	<b>Friday 20 April</b>	<b>The Auditorium, Shangri-la Hotel</b>
8.15 am	Registration & Coffee	
8.45 am	<b>Opening Ceremony and Strategic Issues</b>	
	Welcome/ Opening	Prof Guangxian Li/Prof Xi Xu, Prof Wang Qi & Prof Phil Coates
9.00 am	Outline & Aims of the Workshop Announcement of EPSRC 'Global Engagements' grant	Prof Phil Coates
9.15am	Launch of the UK-China Advanced Materials Research Institute	Prof Guangxian Li, Prof Phil Coates, + colleagues
		
9.30am	NSFC and its International Cooperation	Dr Rongkai Lu, Deputy Director, Bureau of International Cooperation, NSFC
9.40am	Chengdu Science and Technology Innovation & International Cooperation	Prof Xiaobin Ding, Deputy Director, Chengdu Science & Technology Bureau
9.50am	EUPIC introduction	Dr Yinling Dai, Director EUPIC
10.00am	UK research and innovation support: RCUK, SIN UKTI, KT & European funding	Dr Jiansheng Du, UKTI;
10.20am	Group Photographs	
10.30am	Tea/Coffee break	
11.00am	<b>Research Presentations</b>	
	Research presentations, [+Science Bridges progress reports (posters)]	UK & China researcher groups
12.30 pm	Lunch	
14.00pm	Research presentations, [+ Science Bridges progress reports (poster)]	UK & Chinese researcher groups
15.35pm	Tea/Coffee break	
15.55pm	Research presentations, [+ Science Bridges progress reports (poster)]	UK & Chinese researcher groups
17.25pm	Posters at Fu River foyer	
18.30pm	Banquet in Fu River	Shangri-La Hotel
	<b>Saturday 21 April</b>	<b>Fu River Room, Shangri-la Hotel</b>
9.00am	Introduction to activities	Prof Phil Coates & team
	<ul style="list-style-type: none"> <li>• Joint Call Project formulation discussions</li> <li>• Other project discussions for MOST/NSFC</li> </ul>	All researchers, in groups
10.30am	Coffee break	
11.00am	<ul style="list-style-type: none"> <li>• Joint Call Project formulation discussions</li> <li>• Other project discussions for MOST/NSFC</li> <li>• Commence discussions to agree researcher exchanges, Research studentships, etc</li> </ul>	All researchers, in groups – depending on projects;
12.40pm	Lunch	
14.00pm	Discussions to agree researcher exchanges, Research studentships, further Workshops (UK and China) etc	All researchers, in groups
15.30pm	Tea/Coffee break	
16.00pm	Closing Comments	All researchers
17.00pm	Close	

## Friday 20 April – Research Presentations (Theme M= Biomaterials, P = Processing & technology)

talk no	time	Theme				
1	11.00	M	Prof	Laurence	Patterson	Institute of Cancer Therapeutics, University of Bradford, UK
2	11.10	M	Prof	Hongjuan	Cui	Southwest University, Third Military Medical University, China
3	11.20	M	Dr	Klaus	Pors	Institute of Cancer Therapeutics, University of Bradford, UK
4a	11.30	M	Dr	Zhongyu	Liu	Anal-Colorectal Surgery Institute, No. 150 Central Hospital of People's Liberation Army(PLA), Luoyang
4b		M	Dr	Donghai	Shen	Anal-Colorectal Surgery Institute, No. 150 Central Hospital of People's Liberation Army(PLA), Luoyang
5a	11.40	M	Prof	Jiwen	Zhang	Shanghai Institute of Materia Medica, Chinese Academy of Sciences
5b		M	Mr	Xianzhen	Yin	Shanghai Institute of Materia Medica, Chinese Academy of Sciences
6	11.50	M	Prof	Steve	Rimmer	University of Sheffield, UK
7	12.00	M	Prof	Lijuan	Chen	Sichuan University Huaxi Hospital, China
8	12.10	M	Dr	Aileen	Crawford	University of Sheffield, UK
9	12.20	M	Prof	Dong	Qiu	Institute of Chemistry, Chinese Academy of Science, China
<b>LUNCH</b>						
<b>12.30</b>						
10	14.00	M	Prof	Xianzheng	Zhang	Wuhan University, China
11	14.10	M	Prof	Zhihua	Gan	Institute of Chemistry, Chinese Academy of Science, China
12	14.20	M	Prof	Anant	Paradkar	University of Bradford, UK
13	14.30	M	Dr	Pete	Twigg	University of Bradford, UK
14	14.40	P	Dr	Junjie	Wu	University of Durham, UK
15a	14.50	P	Prof	Dujin	Wang	Institute of Chemistry, Chinese Academy of Science, China
15b		P	Dr	Yunlan	Su	Institute of Chemistry, Chinese Academy of Science, China
16a	15.00	P	Prof	Yongfeng	Men	Changchun Institute of Applied Chemistry, Chinese Academy of Science, China
16b		P	Dr	Shi	Qiang	Changchun Institute of Applied Chemistry, Chinese Academy of Science, China
17	15.15	P	Prof	Phil	Coates	University of Bradford, UK
18	15.25	P	Dr	Ben	Whiteside	University of Bradford, UK
<b>TEA</b>						
<b>15.35</b>						
19	16.00	P	Prof	Qi	Wang	Sichuan University, China
20		P	Prof	Guangxian	Li	Sichuan University, China
21	16.10	P	Prof	Hesheng	Xia	Sichuan University, China
22	16.20	P	Dr	Fin	Caton-Rose	University of Bradford, UK
23a	16.30	P	Prof	Yajun	Zhang	Beijing University of Chemical Technology, China
23b		P	Prof	Daming	Wu	Beijing University of Chemical Technology, China
23c		P	Prof	Dongyun	Ren	Beijing University of Chemical Technology, China
23d		P	Prof	Liqun	Zhang	Beijing University of Chemical Technology, China
24	17.00	P	Prof	Shaoyun	Guo	Sichuan University, China
<b>17.20</b>						
To posters (Fu River Foyer)						

## POSTER SESSION

17.25 to 18.20

Theme

P	Prof	Guangxian	Li	Sichuan University, China
P	Prof	Qi	Wang	Sichuan University, China
P	Prof	Qi	Yang	Sichuan University, China
P	Dr	Hong	Wu	Sichuan University, China
P	Dr	Ning	Chen	Sichuan University, China
P	Dr	Xiaowen	Zhao	Sichuan University, China
P	Dr	Guoxia	Fei	Sichuan University, China
P	Dr	Li	Li	Sichuan University, China
P	Prof	Yinghong	Chen	Sichuan University, China
M	Prof	Yu	Nie	Sichuan University, China
P	Prof	Yongfeng	Men (3)	Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China
P	Prof	Dongyun	Ren	Beijing University of Chemical Technology, China
P	Prof	Liqun	Zhang	Beijing University of Chemical Technology, China
M	Prof	Zhihua	Gan	Institute of Chemistry, Chinese Academy of Sciences
M	Prof	Jiwen	Zhang	Shanghai Institute of Materia Medica, Chinese Academy of Sciences, China
M	Dr	Pete	Twigg	University of Bradford, UK
P	Prof	Phil	Coates (2)	University of Bradford, UK
M	Dr	Aileen	Crawford	University of Sheffield, UK
M	Prof	Paul	Hatton	University of Sheffield, UK
M	Dr	Dalal	Alotaibi	University of Sheffield, UK
M	Dr	Kaida	Xiao	University of Sheffield, UK