

Welcome to the 1st Conference of the ACCIS Doctoral Training Centre

Introduction and Update on ACCIS DTC Activities

*Professor Paul Weaver
(DTC Director)*

Overview of the ACCIS DTC

‘Developing composite specialists to lead on the development of next generation composite materials and structures’

- Four-year PhD programme
- Integrated taught component
- Interdisciplinary
- Strong industrial links
- Funded by EPSRC

Introducing our Student Cohorts



- Students selected from a wide range of academic disciplines
- First Class/High 2:1 Graduates

- Engineering (Aerospace, Mechanical, Manufacturing, Materials, Textile), Biochemistry, Chemistry, Physics and Mathematics



- Interdisciplinary and international!
- UK, Spain, Italy, France, Germany, Netherlands, Bulgaria, Australia, America, Egypt, Zimbabwe

DTC Staff and Management Committee

	DTC Chair Prof. Michael Wisnom			DTC Director Prof. Paul Weaver	
	Head of Department, Aerospace Engineering Prof. Ian Bond			DTC Lecturer Dr Jacopo Ciambella	
	Teaching Co-ordinator Dr Ian Farrow			DTC Lecturer Dr Dmitry Ivanov	
	DTC Lecturer Dr Sameer Rahatekar			Research Co-ordinator Dr Richard Trask	
Project Manager Mr Jean Vogel-Gourgand		DTC Manager Ms Jo Brooks	Dtc09 Reps J Mills-Brown N Buckney	DTC10 Reps B Coburn J Trevarthen	DTC11 Reps I Qamar E Eckstein

Collaboration with Industry & Academia

‘Combining cutting-edge fundamental science with strong academic and industrial links for exploitation and technology transfer’

- **Extended Research Projects**

- Duration: 6 months (June to December)
- Co-supervised by ACCIS and collaborator(s)
- Significant piece of work/in-depth exploration of a subject
- Can develop in to PhD project
- Fully funded by the ACCIS DTC

Call for project proposals (Deadline: 27 April 2012)

Collaboration with Industry & Academia

- **PhD Projects**

- Academic Collaborations

- School of Chemistry, UoB
 - Department of Mechanical Engineering, UoB
 - Imperial College
 - University of Nottingham

- Case Awards made by industry in support of projects

- 2010/11: Airbus, DSTL, Formula One Company, GE-Aviation, Haydale, Rolls-Royce, Vestas
 - 2011/12: Airbus, Rolls-Royce

- **Next Project Call: September 2012**

Achievements To Date

- **Publications**

Advanced Functional Materials, Composites Science and Technology, Composite Structures, Experimental Mechanics, International Journal of Solids and Structures, Journal of Sound and Vibration, Wind Energy

- **Patents** - Shark Tooth Joint (UoB/Vestas)

- **Conference Contributions**

- Int'l Conference on Composite Materials, South Korea, 2011
- Int'l Conference on Self-Healing Materials, Bath, 2011
- Int'l Conference on Comp. Modelling of Fracture & Failure, Spain, 2011
- European Congress on Advanced Materials & Processes, France, 2011
- Bio-inspired Materials Conference, Germany, 2012
- European Solid Mechanics Conference, Austria, 2012

- **Posters**

- Natural Systems and Processes, UoB, 2012
- SET for Britain Poster Presentation, House of Commons, 2011

- **Awards** - La Caixa, EOARD, UoB Overseas Scholarship

Looking Ahead

- Student Recruitment
 - year on year increase in applications
- Continued Funding Secured
 - strong support from EPSRC (Mid-term Review, 2011)
- Staff Recruitment
 - four DTC lecturers now in post
- Ongoing Programme Development
 - Integrated skills training, 'Masters Plus' extended research project (bridge to PhD)
- New Opportunities for Engagement and Collaboration with Industry and Academia
 - e.g. career development workshop, industry-led discussion panel

Conference Programme

- Research Project Presentations
 - PhD Projects
 - Extended Research Projects
- Posters and Networking Lunch
- Lab Tour and Demo
 - Design, Build and Test of a composite structure
'Box Spar for a Wind Turbine Blade'

