

# UK Cartilage Club Meeting 3<sup>rd</sup>/4<sup>th</sup> November, 2012



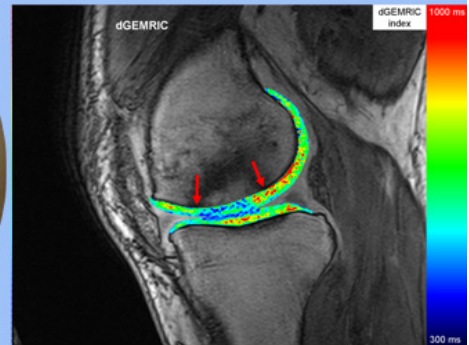
Canterbury Christ Church University,  
Chatham Maritime Campus, Kent, UK



**In Association with SK Research Foundation  
and Canterbury Christ Church University**  
**Chairmen: Professor Tim Briggs & Professor James Richardson**  
**Convenor: Professor A A Shetty**

# Course Programme

Basic Cartilage Biology and Physiology  
Aetiology and Cellular Basis of Chondral disease  
Classifying Chondral Disease and Scoring  
Mapping and Quantifying Chondral Damage with MRI Imaging  
Algorithms for treatment selection  
Matching patient profile to treatment modality  
Introduction to Tissue Engineering  
**Cartilage Repair Techniques**  
**Marrow Stimulation Techniques**  
**Acellular Scaffold Based Therapy**  
**Cell Based Therapy**  
Viscosupplementation  
Meniscal Repair, Meniscal Implant/Transplant  
Patellar Maltracking, Tibial Tubercle Transfer (TTT)  
High Tibial Osteotomy (HTO)  
PFJ Replacement  
Unicompartmental knee Replacement (UKR)  
Rehabilitation after Cartilage Repair Surgery



## International Faculty

Mr. Saif Ahmed (UK)  
Prof. George Bentley (UK)  
Dr. Praveen Bilagi (UK)  
Prof. Tim Briggs (UK)  
Prof. Mats Brittberg (Sweden)  
Prof. Christoph Erggelet (Switzerland)  
Mr. John Fleetcroft (UK)  
Dr. Karen Hambly (UK)  
Prof. James Hui (Singapore)  
Prof. Seok-Jung Kim (South Korea)

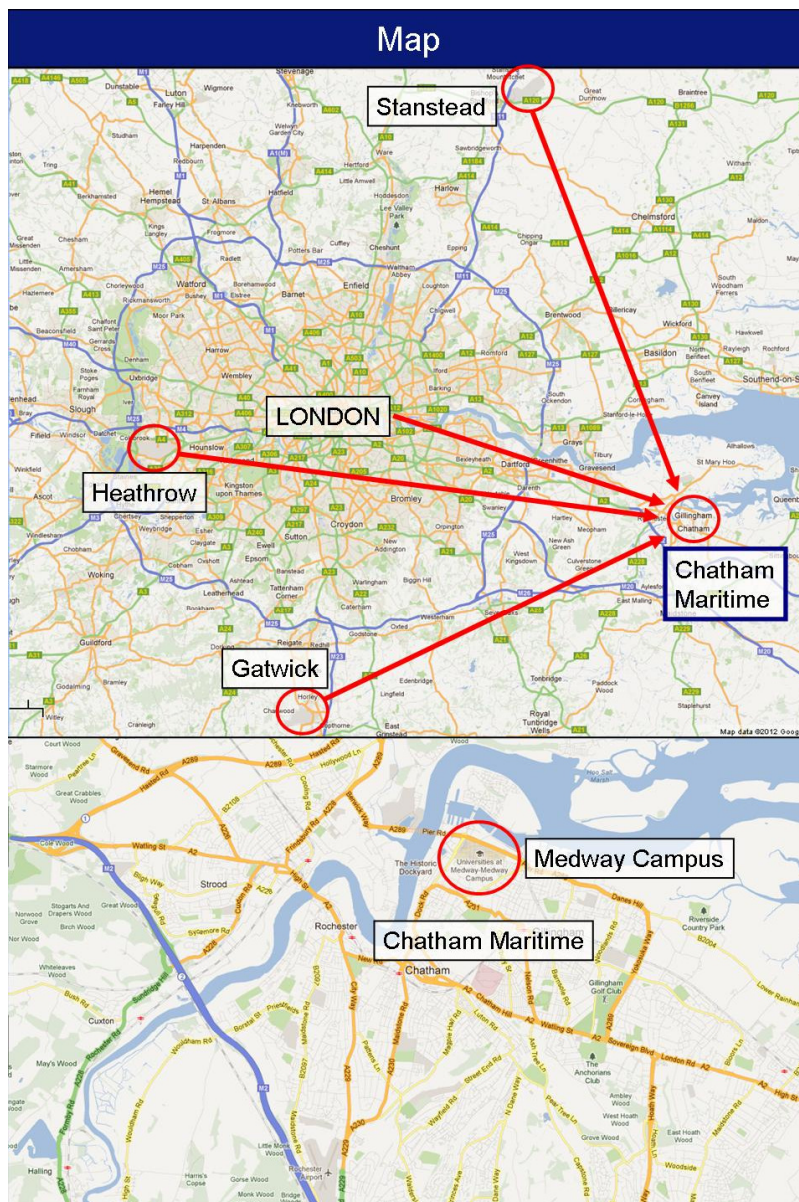
Prof. Elizaveta Kon (Italy)  
Prof. James Murray (UK)  
Prof. Norimasa Nakamura (Japan)  
Prof. Stefan Nehrer (Austria)  
Prof. James Richardson (UK)  
Prof. Daniel Saris (Netherlands)  
Prof. A A Shetty (UK)  
Mr. Martyn Snow (UK)  
Prof. Siegfried Trattnig (Austria )  
Dr. Raju Vaishya (India)

# Welcome

Welcome to the UK Cartilage Club Meeting 2012. Cartilage repair surgery while still in its infancy has advanced considerably over the recent years. Now we are expanding the frontiers of this technology. As the understanding and innovations continue to help us meet our patients' demands of pain free mobility and biological repair of joints, clinicians have to the keep pace with this emerging technology. Our course aims to expand the knowledge of recent developments of cartilage repair surgery necessary to obtain the best possible outcome in challenging clinical conditions.

## Venue

Canterbury Christ Church University  
Medway Rowan Williams Court  
30 Pembroke Court  
Chatham Maritime, Kent, ME4 4UF  
United Kingdom



## **Faculty**

Mr. Saif Ahmed (UK)	Prof. Elizaveta Kon (Italy)
Prof. George Bentley (UK)	Prof. James Murray (UK)
Dr. Praveen Bilagi (UK)	Prof. Norimasa Nakamura (Japan)
Prof. Tim Briggs (UK)	Prof. Stefan Nehrer (Austria)
Prof. Mats Brittberg (Sweden)	Prof. James Richardson (UK)
Prof. Christoph Erggelet (Switzerland)	Prof. Daniel Saris (Netherlands)
Mr. John Fleetcroft (UK)	Prof. A A Shetty (UK)
Dr. Karen Hambly (UK)	Mr. Martyn Snow (UK)
Prof. James Hui (Singapore)	Prof. Siegfried Trattnig (Austria )
Prof. Seok-Jung Kim (South Korea)	Dr. Raju Vaishya (India)

## **Organising Committee:**

### **Chairmen**

**Professor Tim Briggs, Professor James Richardson**

### **Convenor**

**Professor A.A. Shetty**

### **Academic Programme**

Mr Saif Ahmad  
Mr James Murray  
Mr Ashvin Pimpalnerkar

### **Faculty Co-ordinators:**

Dr. Praveen Bilagi  
Dr David Stelzeneder

### **Canterbury Christ Church University**

Dr Peter Milburn

### **CME**

Mr Yateen Morar

**Course Co-ordinator:** Mr Shaun Watkins

**Course Secretary:** Mrs Christine Horne

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# Day 1

November 3

## Podium Session 1: Basic Sciences

Chair: Professor Daniel Saris

Time	Title	Description	Presenter
09:00	Introduction	Welcome and Housekeeping	Anan Shetty
09:10	Structure and function	Basic Cartilage Biology and Physiology	James Murray
09:25	Chondroses	Current Concept of Cartilage Healing and Classification of Lesions	Mats Brittberg
09:40	Imaging	Imaging techniques: Logical algorithms for decision making	Praveen Bilagi
09:55		Advanced morphological and compositional (biochemical) MR of Cartilage in disease and repair	Siegfried Trattnig
10:10	History Of Management	From Hunter to present day; History of the development of surgery of articular cartilage defects	John Fleetcroft

## 10:25 Inauguration & Welcome: Vice-Chancellor Robin Baker

## 10:40 Coffee

## Video Session 1

11:00-11:40

Chair: Professor James Richardson

Microfracture: Daniel Saris

MCIC: David Stelzener, A A Shetty

## Podium Session 2: Chondral Stimulation, Conduction and Substitution

Chair: Professor Christoph Erggelet

Time	Title	Description	Presenter
11:45	Algorithms	Matching patient profile to treatment modality	Daniel Saris
12:00	Acellular biological scaffolds	Biphasic scaffolds for osseous and chondral conduction.	Christoph Erggelet
12:15	ACIC	Autologous Collagen Induced Chondrogenesis	A A Shetty
12:30	Biomimetic constructs	Synthetic 3d Biomimetic construct; cartilage, tide-mark, sub-chondral bone in one	Elizaveta Kon

## 13:00 Lunch

### Podium Session 3: Chondral and Osteochondral Transplantation

Chair: Professor Tim Briggs

Time	Title	Description	Presenter
14:00	Osteochondral Allografts	Discussion of indications, techniques, safety	Elizaveta Kon
14:20	Implant arthroplasty	Unicompartmental Knee Replacement	Raju Vaisha
14:40	Meniscus	Meniscus biology and meniscus repair techniques, and the Collagen Meniscal Transplant	Stefan Nehrer
15:00	Fibrin	Platelet Rich Plasma for chondro conduction	Seok Jung Kim

### Video Session 2

15:15-16:00

Chair: Professor George Bentley

ACIC: A A Shetty

MACI: Tim Briggs

## 16:00 Coffee

### Podium Session 4: Neochondrogenesis

Chair: Professor Mats Brittberg

Time	Title	Description	Presenter
16:30	History	The path towards Autologous Chondrocyte Implantation	Mats Brittberg
16:45	ACI	Autologous Chondrocyte Implantation: Evolution of a technique	James Richardson
17:00	Characterised ACI	5 yr follow up of cartilage cell therapy using CCI a true ATMP	Daniel Saris
17:15	Osteoblasts	Treatment using cultured autologous osteoblasts	Seok-Jung Kim
17:30	Stem Cells	Stem cells culture and potential for neochondrogenesis	Norimasa Nakamura
17:45	Viscosupplementation	Its role in cartilage repair	A A Shetty Seok-Jung Kim

# Day 2

November 4

## Video Session 3

9:00-10:00

Chair: Professor Seok-Jung Kim

ACI: James Richardson

Gel ACI: Seok-Jung Kim

## 10:00 Coffee

## Podium Session 5: Augmented Neochondrogenesis

Chair: Professor James Hui

Time	Title	Description	Presenter
10:30	Introduction to Tissue Engineering	Cells + Matrix = Engineered Tissue	George Bentley
10:45	Membrane augmentation	Matrix augmented chondrocyte implantation: MACI and CACI	Tim Briggs
11:00	Stem cells + HA (MCIC)	Articular Cartilage Regeneration with Stem Cells	A A Shetty
11:15	Cultured stem cells	The Singapore technique	James Hui
11:30	Stem cells	The Japanese technique	Norimasa Nakamura

## 11:45 Coffee

## Podium Session 6: Chondroprotection and Miscellaneous

Chair: Professor Norimasa Nakamura

Time	Title	Description	Presenter
12:15	Rehabilitation	Early vs late weight bearing	Karen Hambly
12:30	HTO, TTT	High Tibial Osteotomy, Tibial Tubercle Transfer	James Hui
12:45	Biochemical protection	Viscosupplementation	Christoph Erggelet
13:00	Mathematical Modelling	Stochastic Modelling of Cartilage Repair	Saif Ahmed
13:15	Closing Talk	Gazing into the Crystal Ball for Cartilage Repair. The next 50 years.	Stefan Nehrer

**13:30 Vote of Thanks and Closing Remarks**

**A A Shetty**

**14:00 END**