Module 4

Biomechanics of Musculoskeletal Soft Tissues: Tendon, Ligaments, Meniscus and Cartilage

Date: 17 & 18 Nov 2000 (Friday & Saturday)
Time: Day 1 - 1230 to 1710 h
Day 2 - 0830 to 1400 h
Venue: Seminar Room #03-01A, Level 3, Orthopaedic Biomechanics Laboratory, #B1-04, Level B1, CRC Building, Faculty of Medicine, National University of Singapore

Organised By
Departments of Orthopaedic Surgery of National University of Singapore & Singapore General Hospital
School of Mechanical & Production Engineering, Nanyang Technological University

Organising Secretariat
SGH Postgraduate Medical Institute
Blk 6 Level 1, Outram Road
Singapore 169608

Tel: 326 6682  Fax: 223 9789
Email: gteekc@sgh.com.sg
Attn: Ms Angie Enge

Supported by
Specialist Training Committee (Orthopaedics) Singapore Orthopaedic Association Biomedical Engineering Society

For enquiries, please contact:
SGH Postgraduate Medical Institute
Singapore General Hospital
Blk 6 Level 1, Outram Road
Singapore 169608

Tel: 326 6682  Fax: 223 9789
Email: gteekc@sgh.com.sg
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Teaching Faculty

James Goh
Dept of Orthopaedic Surgery
National University of Singapore

Patrick Goh
Sports Medicine & Fitness Division
Singapore Sports Council

Peter Lee
Biomedical Engineering Society

Looi Kok Poh
Dept of Hand and Reconstructive Microsurgery
National University of Singapore

Barry Pereira
Dept of Orthopaedic Surgery
National University of Singapore

Alastair Ritchie
School of Mechanical and Production Engineering
Nanyang Technological University

Ashvin Thambiah
Dept of Orthopaedic Surgery
National University of Singapore

P Thiagarajan
Mt Elizabeth Medical Centre

Tho Kam San
Dept of Orthopaedic Surgery
Alexandra Hospital

Chairman
A/Prof James Goh
Tel: 772 4424  Fax: 774 4082
E-mail: dosgohj@nus.edu.sg

Course Outline (Modules & Tentative Schedule)

Module 1 (Completed)
Analysis of Muscle and Joint Loads
(17 & 18 September 1999)

Module 2 (Completed)
Musculoskeletal Dynamics, Locomotion and Clinical Applications
(25 & 26 February 2000)

Module 3 (Completed)
Bone Mechanics: Assessing Failure Risk and Understanding Fracture Fixation
(30 June-1 July 2000)

Module 4
Biomechanics of Musculoskeletal Soft Tissues: Tendon, Ligaments, Meniscus and Cartilage
(17 & 18 November 2000)

Module 5
Biomechanics of Diarthrodial Joints and Joint Replacements I: Upper Limb
(Feb 2001)

Module 6
Biomechanics of Diarthrodial Joints and Joint Replacements II: Lower Limb
(May 2001)

Module 7
Biomechanics of the Spine and Spinal Implants and Instrumentations
(Aug 2001)

Module 8
Prosthetics and Orthotics — Principles and Applications
(Nov 2001)
**Module 4: Biomechanics of Musculoskeletal Soft Tissues: Tendon, Ligaments, Meniscus and Cartilage**

**Friday, 17 November 2000 (Day 1: 1230 - 1710 hours)**

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<tr>
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<th>Session</th>
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<tr>
<td>1230</td>
<td>REGISTRATION</td>
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<tr>
<td>1300</td>
<td>PRE-COURSE ASSESSMENT</td>
</tr>
<tr>
<td>1330</td>
<td>MECHANICAL PROPERTIES OF MATERIALS B Pereira</td>
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<tr>
<td>1350</td>
<td>QUESTIONS AND ANSWERS</td>
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<tr>
<td>1400</td>
<td>VISCOELASTIC MATERIAL PROPERTIES B Pereira</td>
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<tr>
<td>1420</td>
<td>QUESTIONS AND ANSWERS</td>
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<tr>
<td>1430</td>
<td>FORM AND FUNCTION OF TENDONS AND LIGAMENT J Goh</td>
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<tr>
<td>1450</td>
<td>BIOMECHANICS OF TENDON AND LIGAMENT A Thambyah</td>
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<td>1510</td>
<td>WORK EXAMPLES</td>
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**Saturday, 18 November 2000 (Day 2: 0830 - 1400 hours)**

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<tr>
<td>0830</td>
<td>BIOMECHANICAL PERSPECTIVES OF REPAIR AND REGENERATION OF ARTICULAR CARTILAGE P Thiagarajan</td>
</tr>
<tr>
<td>0850</td>
<td>BIOMECHANICAL EVALUATION OF SOFT TISSUES P Lee</td>
</tr>
<tr>
<td>0910</td>
<td>BIOMECHANICS OF ARTICULAR CARTILAGE A Ritchie</td>
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<tr>
<td>0930</td>
<td>WORK EXAMPLES</td>
</tr>
<tr>
<td>0950</td>
<td>TEA BREAK</td>
</tr>
<tr>
<td>1010</td>
<td>BIOMECHANICAL FUNCTION OF MENISCUS A Ritchie</td>
</tr>
<tr>
<td>1030</td>
<td>BIOMECHANICAL CONSIDERATION IN MENISCAL REPAIR AND REHABILITATION KST ho</td>
</tr>
<tr>
<td>1050</td>
<td>THEORETICAL TOOLS AND TECHNIQUES IN BIOMECHANICAL TESTING OF SOFT TISSUES P Lee</td>
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<tr>
<td>1110</td>
<td>VIDEO DEMONSTRATION OF BIOMECHANICAL TESTING OF SOFT TISSUES A Thambyah</td>
</tr>
<tr>
<td>1230</td>
<td>PRACTICAL WORKSHOP ON SOFT TISSUE TESTINGS A Thambyah, B Pereira, P Lee, J Goh</td>
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<tr>
<td>1400</td>
<td>END OF PROGRAMME</td>
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</tbody>
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**Venue:** Orthopaedic Biomechanics Laboratory

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**REGISTRATION**

**Orthopaedic Biomechanics Course**

**Module 4**

Biomechanics of Musculoskeletal Soft Tissues: Tendon, Ligaments, Meniscus and Cartilage

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<th>Name:</th>
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Please indicate interest:

- [ ] I would like to register for Module 4. The registration fee is S$309/- (includes GST).
- [ ] I would like to purchase the reference text entitled: "Basic Orthopaedic Biomechanics" @ S$210.00 per copy (not included in the registration fee). (The cost of the book includes courier delivery charges. Due to the specialised nature of the book, there may be a possible waiting period of up to 6 weeks to process the orders.)

Please enclose cheque made payable to Nanyang Technological University and mail together with this registration form to:

SGH Postgraduate Medical Institute
Singapore General Hospital
Blk 6 Level 1, Outram Road
Singapore 169608