MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA

Introduction to the Course

W. 11 (5 Oct.) Dr D. Bainbridge, Dr D. Chivers, Mr M. Herriage (Veterinary Students) Biffen Lecture Theatre
W. 12 (5 Oct.) Dr D. Wood and Dr D. MacDonald (Medical Students) Anatomy Lecture Theatre
Th. 2 (6 Oct.) Dr D. MacDonald (All students) Babbage Lecture Theatre

CELL BIOLOGY

Course Organiser: Dr B. Dunmore (email: bjd28@cam.ac.uk)

Further information may be obtained from the Faculty Website at http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html

This is an introductory course in Cell Biology for students who do not have A-level Biology.

FUNCTIONAL ARCHITECTURE OF THE BODY

(Medical Students)

Course Organiser: Dr I. G. Parkin (email: igp20@mole.bio.cam.ac.uk)

Further information may be obtained from the Faculty Web site at http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html

At the Anatomy School unless otherwise stated

Lectures. W. F. 9

Anatomy Lecture Theatre

DR I. G. PARKIN [Lec 6]
Principles of the Nervous System. (One lecture, 26 Oct.)

DR I. G. PARKIN [Lec 1]
Course Aims/General Principles, Learning. (One lecture, 7 Oct.)

DR J. G. PARKIN [Lec 2]
Overview of Bones, Joints and Muscles. (One lecture, 12 Oct.)

DR P. SCHOFIELD [Lecs 10 & 11]
Embryology: Organisation of Body Plan, Segmentation, Development of Spinal Column. (Two lectures, 16, 18 Nov.)

DR I. G. PARKIN [Lec 4]
Principles of the Cardiovascular System. (One lecture, 19 Oct.)

DR M. N. S. HUNT [Lec 3]
Ethics, Attitudes and Communication. (One lecture, 19 Oct.)

DR R. H. WHITAKER [Lec 7]
Autonomic Nervous System. (One lecture, 28 Oct.)

DR I. G. PARKIN and DR R. H. WHITAKER [In between Lecs 5 & 10]
Formative Mid Term Anatomy MCQ. (11 Nov.)

PROF. D. RICHES [Lec 5]
Posture and Locomotion. (One lecture, 4 Nov.)

DR I. G. PARKIN [Lec 5]
Principles of Lymphatic Drainage and Breast. (One lecture, 21 Oct.)

DR I. G. PARKIN [Lec 12]
Nerve Injuries. (One lecture, 23 Nov.)

DR I. G. PARKIN [Lec 8]
Principles of Fascia. (One lecture, 2 Nov.)

Special Periods

Clinical Demonstration. (2 Dec., 10–12) William Harvey Lecture Theatre, Addenbrooke's

Practical Work

Dissection and Prosections*. Times according to Options Allocation of Cadavers and Introduction to Anatomy. (5 Oct., 9)

Dissection and Prosection M. 10–12 and F. 2–4 or Tu, 10–12 and Th. 10–12.

Anatomy of Procedures: W. 10–12 or 2–4 (fortnightly).

Lectures. W. F. 9

Anatomy Lecture Theatre

DR R. H. WHITAKER
Principles of Cranial Nerves. (Three lectures, 20, 25, 27 Jan.)

DR C. BAKER
Embryology: Craniofacial Development. (One lecture, 1 Feb.)

DR R. H. WHITAKER
The Ear. (One lecture, 3 Feb.)

DR R. H. WHITAKER
The Larynx. (One lecture, 8 Feb.)

DR S. BRAY
Embryology: Development of Body Cavities, Lungs, Diaphragm, Cardiovascular and G.I.T (Three lectures, 15, 22, Feb., 3 Mar.)

PROF. A. DIXON
Imaging. (One lecture, 24 Feb.)

DR R. H. WHITAKER
Nerve Supply in Abdomen. Peritoneal Development. (One lecture, 1 Mar.)

DR P. SCHOFIELD
Embryology: Development of Male and Female Genital Organs. (One lecture, 10 May)

DR I. G. PARKIN
Anatomy Changing with Age. (One lecture, 12 May)

Clinical Demonstration (16 Mar., 2–4) William Harvey Lecture Theatre, Addenbrooke's

Dissections and Prosections*

Dissections and Prosections
<table>
<thead>
<tr>
<th>Medical and Veterinary Sciences Tripos, Part IA (continued)</th>
<th>MICHAELMAS 2005</th>
<th>LENT 2006</th>
<th>EASTER 2006</th>
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<tr>
<td><strong>HISTOLOGY</strong></td>
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<tr>
<td>Course Organiser: Dr R. C. Thomas (email: <a href="mailto:rct@iarc.fr">rct@iarc.fr</a>)</td>
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<tr>
<td>Further information may be obtained from the Faculty Website at <a href="http://www.bio.cam.ac.uk/sbs/facbiol/mvst/html">http://www.bio.cam.ac.uk/sbs/facbiol/mvst/html</a></td>
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Students will be notified of the time at which they should attend each of the classes.

### Practical Work: Department of Physiology

1. **Introduction to Microscopy and Cell Structure.**
   - M. 10–12 or 2–4 (7 Oct.); or M. 10–12 or 2–4 (10 Oct.); or W. 2–4 (12 Oct.); or F. 2–4 (14 Oct.); or W. 2–4 (19 Oct.)

2. **Connective Tissue, Nerve and Neuromuscular Function.**
   - F. 2–4 (21 Oct.); or M. 10–12 or 2–4 (24 Oct.); or W. 2–4 (26 Oct.); or F. 2–4 (28 Oct.); or W. 2–4 (2 Nov.)

3. **Striated, Cardiac and Smooth Muscle.**
   - F. 2–4 (4 Nov.); or M. 10–12 or 2–4 (7 Nov.); or W. 2–4 (9 Nov.); or F. 2–4 (11 Nov.); or W. 2–4 (16 Nov.)

4. **Vascular System and Blood.**
   - F. 2–4 (18 Nov.); or M. 10–12 or 2–4 (21 Nov.); or W. 2–4 (23 Nov.); or F. 2–4 (25 Nov.); or W. 2–4 (30 Nov.)

5. **Epithelia and Skin.**
   - F. 2–4 (20 Jan.); or M. 10–12 or 2–4 (24 Jan.); or W. 2–4 (26 Jan.); or F. 2–4 (28 Jan.); or W. 2–4 (2 Feb.)

6. **Respiratory System.**
   - F. 2–4 (3 Feb.); or M. 10–12 or 2–4 (6 Feb.); or W. 2–4 (8 Feb.); or F. 2–4 (10 Feb.); or W. 2–4 (15 Feb.)

7. **Urinary System and Adrenal Gland.**
   - F. 2–4 (17 Feb.); or M. 10–12 or 2–4 (20 Feb.); or W. 2–4 (22 Feb.); or F. 2–4 (24 Feb.); or W. 2–4 (1 Mar.)

8. **Alimentary System.**
   - F. 2–4 (3 Mar.); or M. 10–12 or 2–4 (6 Mar.); or W. 2–4 (8 Mar.); or F. 2–4 (10 Mar.); or W. 2–4 (15 Mar.)

### Practical Work: Department of Physiology

1. **Introduction.**
   - Seven lectures, 14–28 Oct.

2. **Integumentary System.**
   - Seven lectures, 29 Oct.–8 Nov.

3. **Connective and Supporting Tissues.**
   - Seven lectures, 9–18 Nov.

4. **Muscle, Nerve and Nervous System.**
   - Seven lectures, 19–28 Nov.

5. **Endocrine and Exocrine Glands.**
   - Seven lectures, 29 Nov.–7 Dec.

### Homeostasis

Course Organiser: Dr C. Schwiening (email: cjs30@cam.ac.uk)

Further information may be obtained from the Faculty Website at http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html

All lectures take place in the Babbage Lecture Theatre at Tu. Th. F. 12, unless otherwise stated.

**MOLECULES IN MEDICAL SCIENCE**

Course Organiser: Dr P. H. Rubery (email: phr2@cam.ac.uk)

Further information may be obtained from the Faculty Website at http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html

All lectures take place in the Babbage Lecture Theatre, New Museums Site at M. 12, Tu. Th. 9.

**Introduction**

- Dr. P. H. Rubery

- Introduction to the Course. (One lecture, 10 Oct.)

**Metabolism in health and disease**

- Dr. R. C. Thomas and Dr. C. Schwiening

- Introduction; Cellular Electrophysiology and Nerve. (Seven lectures, 14–28 Oct.)

- Prof. C. J. Hu

- Muscle. (Five lectures, 1–10 Nov.)

- Dr. R. J. Barnes

- Heart and Circulation. (Nine lectures, 11 Nov. – 1 Dec.)

**Experimental Physiology**

- M. 10–12 or 2–4 or W. 10–12

- Dr. P. H. Rubery

- The same continued.

**Respiration.**

- (Nine lectures, 19 Jan.–7 Feb.)

- Dr. S. O. Sage

- Fluids and Electrolytes. (Ten lectures, 9 Feb.–2 Mar.)

- Dr. M. P. Mahaut-Smith

- Temperature Control. (Two lectures, 5, 9 May)

**Digestion, Absorption and Storage.**

- (Six lectures, 3–16 Mar.)

- Dr. N. J. Gay

- Protein Structure and Enzyme Catalysis. (Five lectures, 17–25 Oct.)

- Dr. P. H. Rubery

- Bioenergetics and Metabolism. (Eight lectures, 27 Oct. – 14 Nov.)

- Dr. M. O’Connell

- Nutrition. (Two lectures, 15–17 Nov.)

- Prof. R. F. Irvine

- Membrane Dynamics and Function; Signalling by Hormones. (Five lectures, 21–29 Nov.)

- Prof. K. R. Siddle

- Epilogue. (One lecture, 1 Dec.)

**Transcription, Translation and Control.**

- (Five lectures, 28 Feb. – 7 Mar.)

- Dr. M. O’Connell

- Genomes. (Five lectures, 24 Jan. – 2 Feb.)

- Dr. P. R. E. Mühlethaler

- Cells. (Three lectures, 27 Apr.–2 May)

**Prologue. Cancer as a Molecular Disease.**

- (Two lectures, 19–23 Jan.)

- Dr. S. B. Bell

- Organisation, Replication and Repair of Genomes. (Five lectures, 24 Jan. – 2 Feb.)

- Dr. N. M. Standart

- Transcription, Translation and Control. (Five lectures, 6–14 Feb.)

- Dr. N. J. Gay

- Proteins in Action: Structure and Function. (Two lectures, 16–20 Feb.)

- Prof. A. H. Wyllie

- Control of Proliferation and Death in Cancer Cells. (Three lectures, 21–27 Feb.)

- Prof. D. R. Macdonald

- Genetics in Human and Animal Medicine. (Five lectures, 28 Feb. – 7 Mar. and W. 12 (8 Mar.))

- Prof. A. H. Wyllie

- Mesologics: Cancer Therapy. (One lecture, 13 Mar.)

**Epilogue.**

- (One lecture, 1 Dec.)

**Energy Balance and Growth.**

- (Four lectures, 27 Apr.–4 May)

- Dr. M. R. Schonwetter

- Temperature Control. (Two lectures, 5, 9 May)

- Dr. P. R. E. Mühlethaler

- Temperature Control. (Two lectures, 5, 9 May)

**Control of Proliferation and Death in Cancer Cells.**

- (Two lectures, 19–23 Jan.)

- Dr. S. B. Bell

- Organisation, Replication and Repair of Genomes. (Five lectures, 24 Jan. – 2 Feb.)

- Dr. N. M. Standart

- Transcription, Translation and Control. (Five lectures, 6–14 Feb.)

- Dr. N. J. Gay

- Proteins in Action: Structure and Function. (Two lectures, 16–20 Feb.)

- Prof. A. H. Wyllie

- Control of Proliferation and Death in Cancer Cells. (Three lectures, 21–27 Feb.)

- Dr. D. R. Macdonald

- Genetics in Human and Animal Medicine. (Five lectures, 28 Feb. – 7 Mar. and W. 12 (8 Mar.))

- Prof. A. H. Wyllie

- Mesologics: Cancer Therapy. (One lecture, 13 Mar.)

**Partial notes continued.**

**Digestion, Absorption and Storage.**

- (Six lectures, 3–16 Mar.)

- Dr. N. J. Gay

- Protein Structure and Enzyme Catalysis. (Five lectures, 17–25 Oct.)

- Dr. P. H. Rubery

- Digestion, Absorption and Storage. (Six lectures, 3–16 Mar.)

- Dr. M. P. Mahaut-Smith

- Temperature Control. (Two lectures, 5, 9 May)

**Genes and Systems.**

- (Five lectures, 28 Feb. – 7 Mar.)

- Dr. M. O’Connell

- Membrane Dynamics and Function; Signalling by Hormones. (Five lectures, 21–29 Nov.)

- Prof. K. R. Siddle

- Epilogue. (One lecture, 1 Dec.)
### MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

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<thead>
<tr>
<th>MICHAELMAS 2005</th>
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<tbody>
<tr>
<td><strong>Experimental work and discussion; problem-based learning exercise</strong>&lt;br&gt;Department of Biochemistry, Downing Site&lt;br&gt;Detailed scheme in course handbook</td>
<td><strong>Experimental work and discussion; problem-based learning exercise</strong>&lt;br&gt;Department of Biochemistry, Downing Site&lt;br&gt;The same continued</td>
<td><strong>Experimental work and discussion; bioinformatics exercise</strong>&lt;br&gt;Department of Biochemistry, Downing Site&lt;br&gt;The same continued</td>
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#### VETERINARY ANATOMY AND PHYSIOLOGY
(Veterinary Students)

Further information may be obtained from the Faculty Website at [http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html](http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html)

All lectures take place in the **Biffen Lecture Theatre, Department of Genetics** at M. W. F. 9

- **DR D. R. J. BAINBRIDGE AND DR D. J. CHIVERS**
  - Introduction. (Three lectures, 7, 10, 12 Oct.)
  - The Locomotor System. (Thirteen lectures, 14 Oct.–23 Nov.)
  - The Nervous System. (Two lectures, 28, 30 Nov.)

- **DR J. M. HOLMES**
  - The Nervous System (continued). (Two lectures, 20, 23 Jan.)
  - The Cardiovascular System. (Five lectures, 24, 25, 30 Jan., 1, 6 Feb.)
  - The Respiratory System. (Two lectures, 8, 13 Feb.)
  - The Digestive System. (Nine lectures, 15, 20, 22, 27 Feb., 1, 6, 8, 13, 15 Mar.)

- **DR J. H. BRACKENBURY AND DR D. R. J. BAINBRIDGE**
  - The Respiratory System. (Two lectures, 8, 13 Feb.)
  - The Digestive System. (Nine lectures, 15, 20, 22, 27 Feb., 1, 6, 8, 13, 15 Mar.)

- **DR D. J. CHIVERS AND DR A. N. OTHER**
  - The Digestive System (continued). (Two lectures, 28 Apr., 1 May)
  - Urinary System. (Three lectures, 3, 10, 12 May)
  - Integumentary System. (One lecture, 15 May)

**Practical Work**
Dissection of the domestic animals, examination of live animals, fresh viscera, radiographs, laboratory work and other activities. (Tu. and Th. 10–12 and F. 10–12 or 2-4 and occasionally Tu. or Th. 2–4.)

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### INTRODUCTION TO THE SCIENTIFIC BASIS OF MEDICINE
(All students: SECOND M.B. & SECOND VET M.B. EXAMINATION)

Further information may be obtained from the Faculty Website at [http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html](http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html)

All lectures will be held in the **Babbage Lecture Theatre** at W. 12

- **DR J. M. HOLMES**
  - Epidemiology, Risk, Methods, Screening, Inference and Causation. (Five lectures, 19 Oct.–23 Nov.)

- **DR M. HOLMES**
  - Epidemiology. (One lecture, 16 Nov.)

- **DR C. PALMER**
  - Biostatistics; Estimating Population Measures. (One lecture, 30 Nov.)

- **DR C. PALMER**
  - Biostatistics (continued); Testing Hypotheses, Comparing Groups, Interpreting Research. (Three lectures, 25 Jan., 1, 8 Feb.)

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### MEDICAL SOCIOLOGY
(Medical students: SECOND M.B. EXAMINATION)

Further information may be obtained from the Faculty Website at [http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html](http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html)

All lectures will be held in the **Anatomy Lecture Theatre** at M. 9

- **DR T. MUNCEY, DR J. ADAMS AND PROF. M. RICHARDS**
  - Medical Sociology. (Six lectures 10, 24, 31 Oct.; 7, 21, 28 Nov.)

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*continued >*
### PREPARING FOR PATIENTS A (First Year Strand)

(Medical Students: SECOND M.B. EXAMINATION)

Course Organiser: Dr J. Silverman (email: js355@medschl.cam.ac.uk)

Further information may be obtained from the Faculty Website at [http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html](http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html)

There are four strands to this course, which run over the three pre-clinical years of study

<table>
<thead>
<tr>
<th>DR J. LOMAS AND DR J. SILVERMAN</th>
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<tbody>
<tr>
<td><strong>Briefings.</strong> (18 or 25 Oct., or 1 or 8 Nov.)</td>
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<tr>
<td><strong>Tu. 2 Anatomy Lecture Theatre.</strong></td>
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<tr>
<td><strong>General Practitioner visits.</strong> (25 Oct. or 3 or 8 or 15 or 17 or 22 or 24 or 29 Nov.) 2–5</td>
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<tr>
<th>DR M. HUNT AND DR J. SILVERMAN</th>
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<tr>
<td><strong>Review Sessions.</strong> (31 Jan., or 13 or 14 or 20 or 21 or 27 or 28 Feb., or 5 Mar.) 2–4 Mill Lane Lecture Room</td>
</tr>
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</table>

### FARM ANIMAL HUSBANDRY

(Veterinary students: SECOND VET M.B. EXAMINATION)

Course Organiser: Dr J. S. Gibson (email: jsg1001@cam.ac.uk)

Further information may be obtained from the Faculty Website at [http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html](http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html)

All lectures will be held in the **Biffen Lecture Theatre**

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<tr>
<th>DR J. GIBSON AND OTHERS</th>
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<tr>
<td>(Six lectures, 21 Oct. – 25 Nov.) F. 9</td>
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<th>Practical Work.</th>
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<tr>
<td>(15 Nov.) Tu. 2–4 Biffen Lecture Theatre</td>
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<td>(20 Oct. or 27 Oct., 3 Nov or 10 Nov., 17 Nov. or 24 Nov) Th. 2–4</td>
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<tr>
<th>Small Animal Handling.</th>
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<tbody>
<tr>
<td>(20 Oct. or 27 Oct., 3 Nov. or 10 Nov., 17 Nov. or 24 Nov.) Th. 2–4 Department of Veterinary Medicine</td>
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</table>

Students will be advised which sessions to attend.

<table>
<thead>
<tr>
<th>DR M. HOLMES, PROF. D. M. BROOK AND OTHERS</th>
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<tr>
<td><strong>Practical Work.</strong></td>
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<tr>
<td>(18, 25 Oct., 1, 8 Nov.)</td>
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### PREPARING FOR THE VETERINARY PROFESSION (First Year Strand)

(Veterinary students: SECOND VET M.B. EXAMINATION)

Course Organisers: Dr J. S. Gibson (email: jsg1000@cam.ac.uk) and Mrs C. Latham (email: cel29@cam.ac.uk)

Further information may be obtained from the Faculty Website at [http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html](http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html)

All lectures will be held in the **Biffen Lecture Theatre, New Museums Site** at Tu. 2

<table>
<thead>
<tr>
<th>DR J. GIBSON AND OTHERS</th>
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<tbody>
<tr>
<td>(Eleven lectures, 27 Jan., 3, 10, 17, 21, 24, 28; Feb., 3, 9, 10, 14 Mar.) F. 9, Tu. 2, Th. 9</td>
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<tr>
<td>(7 Feb.) Tu. 2–4 Department of Veterinary Medicine</td>
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</table>

| (14 Mar.) Tu. 2–4 Biffen Lecture Theatre  |

### FARM ANIMAL HUSBANDRY

(Veterinary students: SECOND VET M.B. EXAMINATION)

Course Organiser: Dr J. S. Gibson (email: jsg1001@cam.ac.uk)

Further information may be obtained from the Faculty Website at [http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html](http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html)

All lectures will be held in the **Biffen Lecture Theatre**

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<td>(Six lectures, 21 Oct. – 25 Nov.) F. 9</td>
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<td>Th. 1.45–4.15 Two sessions out of 20 Oct., 3 Nov., 17 Nov. or 27 Oct., 10 Nov. or 24 Nov.</td>
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<tr>
<td>Th. 1.45–4.15 Two sessions of 26 Jan., or 16 Feb. or 23 Feb.</td>
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