

ORGANIZING BODIES

IOS 2000 is a joint meeting held by the British Institute of Radiology, the College of Radiographers and the Institute of Physics & Engineering in Medicine. The Congress is held in association with the British Medical Ultrasound Society, the British Nuclear Medicine Society, British Oncological Association, Computer Assisted Radiology and Surgery (CARS), the Institute of Healthcare Management, the Institute of Physics, the Institution of Electrical Engineers - Science, Education and Technology Division, the International Society of Radiographers & Radiological Technologists, the Irish Institute of Radiography, the Royal Society of Medicine - Radiology Section, the Scottish Radiological Society and the Society for Radiological Protection.

ORGANIZING COMMITTEES

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Dr P Cavanagh
Mrs J Henderson
Prof J Husband
Dr J Olliff
Mrs A Paterson
Dr D Sutton
Dr D Tait

Secretariat

Miss S E Nicholls *BIR Congress Co-ordinator*
Ms V Whitehead *BIR Conference and Events Manager*
Miss N C Taylor *BIR Events Assistant*
Ms K Kottasz *BIR Exhibitions Co-ordinator*

Finance Group

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Miss S E Nicholls *BIR Congress Co-ordinator*
Ms V Whitehead *BIR Conference & Events Manager*
Mr A Hudson *BIR General Secretary*
Mr R Neilson *IPEM General Secretary*
Mr S Evans *COR Chief Executive*
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infoRAD™ Exhibition

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Dr D J Harvey
Mr M Tatlow
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Scientific Poster Exhibition

Dr J Olliff

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Mr A Workman

ACKNOWLEDGMENTS

The President and Members of the Congress Committee for IOS 2000 would like to thank the following organizations for their generous support of the Congress:

ATL UK Ltd
Clinical MRI
IGE Medical Systems Ltd
Kodak Health Imaging Ltd
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Merck Pharmaceuticals - Imaging Division / Bracco
Marconi Medical Systems
MediOL.com
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Philips Medical Systems
RAD Magazine
Siemens Medical Engineering Plc
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Toshiba Medical Systems Ltd

IOS 2000 would like to thank particularly the representatives of industry who have served in the **Sponsors Group**

Mrs E Beckmann
Mr A Budge
Mr M Head
Ms A Littlechild
Mr C Medley
Mr D Piper
Mr A Quinn
Mr D Roberts
Mrs M Squires
Mr J Stoddart
Mr P Taylor
Mr D Waldron
Mr S Weeden

ACCREDITATION

The Royal College of Radiologists has awarded a maximum of 21 Continuing Medical Education (CME) credits.

The Institute of Physics & Engineering in Medicine has awarded 7 Continuing Professional Development (CPD) credits per day.

WELCOME FROM THE CONGRESS PRESIDENT

Dear Colleagues,

Once again I have the pleasant duty and privilege, on behalf of the partner societies, of welcoming you to this year's Congress of Radiology and its associated sciences.

As always, those of us involved in planning this meeting have tried to offer the best of past successes, combined with new initiatives. This year I am especially pleased to welcome our first Luminary Lecturer, Dr Nestor Muller, and I particularly draw your attention to our recognition of the increasing importance of informatics in all our specialities, in our first integrated programme in this area.



No meeting of this complexity happens without sustained effort from a large number of people; the committees, the secretariat, the officers of the three societies, our colleagues in industry and our speakers and chairmen. Of course everyone plays their part, from those who come in and assemble the show for us, to those who clear up after we have gone home, many of them invisible to the rest of us. I can only express profound gratitude on behalf of you, the delegate, to everyone who has worked to make this meeting a success.

As you may know, next year the Congress moves to a new venue with a new partnership. This is, I believe, a healthy sign of development; our specialities grow and mature, and the Congress must do so too. So I think we can look to the future confident of the Congress keeping pace as our work faces the innovations and challenges of the 21st century.

Today, as I look back over a decade's involvement, in one role or another, in this meeting, I am struck by the enormous development which has taken place in this time. Principally, though, I think mostly of people; of the warmth of collaborating positively with colleagues in the professions and in industry, of consolidating existing friendships and making new ones, and of admiring the scientific achievements of so many in our respective fields. This has strengthened my feeling that it is the human activity of a Congress which matters most; ultimately meetings are about meeting people.

I sincerely hope that you enjoy this year's Congress and find it valuable. If you do, those who have worked hard and long to prepare it will be well thanked.

Stephen Golding
Congress President

GENERAL INFORMATION

Congress Site

IOS 2000 takes place at the International Convention Centre (ICC) in Birmingham. The IOS 2000 Exhibition is situated a five minute walk away in the National Indoor Arena (NIA). The two sites are linked by a covered walkway. *Signage throughout the NIA & ICC is supported by Toshiba Medical Systems.*

Sessions will take place as shown on the timetable grid (see Programme pages 12 - 17). This year the Congress is occupying Halls 5, 6, 8, 11a, 11b in the ICC and the Olympian Suite in the NIA. A layout map of the ICC can be found on the inside back cover of this publication.

Registration

The Registration Area will be situated at the quayside entrance to the ICC mall, and will include a delegate seating area, literature point and delegate message boards. The Congress Secretariat office will be situated in this area. The Registration Area will be open at the following times:

IOS 2000 Opening Times	
Sunday 21 May	1500 - 1800
Monday 22 May	0730 - 1700
Tuesday 23 May	0730 - 1700
Wednesday 24 May	0730 - 1500

Upon registering you will be issued with a delegate badge, tickets for any social events booked and any relevant accreditation certificates. You will also receive a delegate bag, supported by *Philips Medical Systems*, containing important meeting information. This will include the Scientific Poster, *infoRAD™* and IOS 2000 exhibition guides.

Congress Badge

Your badge will be printed with your name and hospital/institution/company name and **must be worn at all times when attending the Congress**. This badge entitles you to admission on the days on which you are registered to all lectures at the IOS 2000 conference, informatics programme, scientific poster exhibition and entry to the IOS 2000 technical exhibition. Access to conference workshops will be by ticket only. Congress badges are not transferable.

Those badges that have ribbons attached indicate the following groups of people: Congress President, Invited Speakers, Chairpersons, Presidents of Sponsoring Organizations, Secretariat and AV Stewards.

Accreditation

Delegates who have indicated when registering that they are members of the RCR or the IPEM will be issued with accreditation certificates.

Certificate of Attendance

Certificates of attendance will be issued by the Congress Secretariat on request.

Messages

Messages for delegates will be posted on message display boards located in the Registration Area. The telephone number at the ICC registration area is 0121 335 8401. The main Convention Centre telephone number is 0121 200 2000.

Telephones

Pay telephones are available throughout the ICC and NIA.

Informatics and *infoRAD™*

For the first time the informatics activities at the Congress are fully integrated. In collaboration with CARS 2000 and MIUA, the invited lecturers, workshops, and exhibits will supplement the main themes to provide a broad coverage of informatics and computing. This year as a new venture we are able to offer the informatics programme as a daily package at the introductory price of £25.00 per day for exhibition visitors.

The Congress aims to bring developing technologies within the healthcare environment to the attention of the radiological community, in particular information technology applied to diagnosis, therapy and research. Technological reviews at IOS 2000 will cover PACS, digital radiography, image analysis and 3D Imaging.

The *infoRAD™* exhibition will demonstrate the practice of Healthcare Informatics - the use of computers to help in the management, application and analysis of health related information. Topics include Internet applications, computer aided diagnosis, radiological information systems and telemedicine.

The network, launched at *infoRAD™* 1998, will again demonstrate DICOM inter-vendor communication in practice. Visitors this year can make use of Internet access in the Cybercafé, a new feature, which is part of the technical exhibition in the NIA and is supported by *MediOL.com*.

Please see programme page 18 for a list of exhibits.

infoRAD™ is a trade name used by kind permission of the RSNA.

Scientific Poster Exhibition

Posters, forming a major part of the scientific programme, will be displayed in the NIA around the concourse area, with access via the lifts to the first floor or through the balcony refreshments area in the IOS 2000 exhibition. For a list of posters please see programme page . The Scientific Poster Exhibition Guide is in your delegate bag. The exhibition is supported by *IGE Medical Systems*.

IOS 2000 Exhibition <i>infoRAD™</i> Scientific Poster Exhibition Opening Times	
Monday 22 May	0900 - 1730
Tuesday 23 May	0900 - 1730
Wednesday 24 May	0900 - 1600

IOS 2000 Exhibition

Incorporating Radiology and MED X RAY®

*All you need to know about medical imaging
under one roof*

IOS exhibition is the UK's leading exhibition covering all aspects of medical imaging and oncology. Informed decision making for the purchase of radiological equipment is becoming increasingly important.

This, the foremost annual exhibition of its field in western Europe continues to present a comprehensive range of products and services to practitioners and managers involved in our technology driven sector of health care. Find out about the latest applications within radiology and healthcare informatics - the use of computers to help in the management, application and analysis of health related information.

For 2000 a Cybercafé will provide free internet access to all visitors.

Your congress badge will provide you with free access to visit the IOS exhibition. For further information regarding the IOS exhibition, please refer to the exhibition guide in your delegate bag.

Radiology in Developing Countries

The *Radiology in Developing Countries Exhibition* organised by the Röntgen-Museum in Remscheid, Germany will be situated in the Congress registration area. We are grateful to *Toshiba Medical Systems* for supporting the exhibition. This fascinating exhibition offers interesting insights in to the use of radiology in developing countries and explores the role of industry, education and private relief organisations.

Catering

Points dispensing **complimentary** tea and coffee will be open throughout the day in the IOS exhibition at the NIA. Lunch will be available on a cash basis within the balcony area of the NIA. There is also a coffee terrace in the ICC Mall.

Cloakrooms

Cloakrooms are available in the Mall at the ICC and in the foyer of the NIA.

Photography

A photographer has been contracted to take photographs during the Congress. Proofs will be displayed in the NIA on the exhibition floor during Congress hours where orders may be placed.

First Aid

A Medical Centre is located in the ICC and NIA and staffed during congress opening hours. The Medical Centre can be contacted by using the NIA or ICC house telephones and dialling 5155. In an emergency, dial 2222.

Facilities on Site

The Mall at the ICC offers the following facilities:

- Box Office for booking tickets for events in Symphony Hall, NIA and NEC
- ICC Shop and Post Box
- Forthcoming events information
- National Westminster Bank and Halifax (cash dispensing facilities)
- Freephone service for taxis (Taxi Owner' Association)
- Visitors' Services Centre providing - fax, photocopying, stamps and other business services as well as a local information and booking facility from the Birmingham Convention and Visitor Bureau
- Florist

Car Parking

There are 2600 car parking spaces available at the NIA which are available on a pay and display basis. Delegates for the Congress should go to the north car park.

Orientation

Please see the back of this publication for layout maps of the ICC.

Spouses/Partners

Accompanying spouses/partners of registered delegates will be entitled to visit, on production of a badge available at registration, the technical exhibition and the Eponymous lectures. Excursions and tours are available from Flights Conference Services Ltd, Birmingham, tel: +44 (0)121 322 2722.

Accommodation

A representative from *In Business Reservations* will be on-site (Congress Office) to assist with any accommodation requirements or queries or call direct on +44 (0)1332 285521.

PRIZES

The following prestigious prizes and awards will be awarded at IOS 2000 - Imaging, Oncology, Science:

BIR Nycomed Amersham Prize

This prize is open to all proffered papers on nuclear medicine. £100 is awarded through a generous donation by Nycomed Amersham plc.

BIR Clinical MRI Prize

A cheque for £50 and a commemorative statuette are awarded to the presenter (a BIR Member) of the best proffered paper on MRI. There is no age limit, but preference will be given to members early in their career. This prize is generously donated by Clinical Press Ltd.

BIR Leonard Levy Memorial Prize

This prize was established in 1992 by Mr Bennett-Levy and Levy Hill Laboratories in memory of the late Dr Leonard Levy. The prize takes the form of a book token or cheque up to the value of £125 and is open to members of the BIR under 40 years of age presenting the best paper at the Congress.

COR Beth Whittaker Memorial Poster Prize

A prize of £50 is awarded to the best poster presented at the Congress by a radiographer or a team of presenters headed by a radiographer.

COR Alan Nicholls Award

This award of £100 is awarded to the best proffered paper presented by a radiographer.

COR Forder Memorial Award (Students)

A prize of £50 is awarded to the best proffered paper by a student at the COR Annual Students' Conference.

RAD Magazine Best Poster Prize

This prize was established in 1992 by Kingsmoor Publications Ltd, publishers of RAD Magazine, to encourage and maintain a high standard of visual presentation for scientific posters. All posters will automatically be considered and prizes for 1st, 2nd and 3rd place are awarded.

IPEM President's Prize

This prize is awarded for the best oral presentation by a member of the IPEM aged under 35 years.

IPEM Physics Poster Prize

This prize is awarded to the best poster exhibit on a medical physics topic.

McKesson HBOC infoRAD™ Prize

A prize of £150 will be awarded to the best exhibit on the use of information technology within the health care environment. A highly commended award (certificate only) will also be presented.

IOS 2000 / Merck Imaging Annual Poster Quiz

A poster quiz will be held in the National Indoor Arena as part of the Scientific Poster Exhibition. There will be four cases each day, using cases from The Royal London Hospital and The London Radiology Club. The overall winner will receive a cash prize towards a visit to RSNA 2000. In addition there will be daily prizes of book tokens. The IOS 2000 Poster Quiz is being co-ordinated by Dr O Chan from the Royal London Hospital and supported by Merck Imaging.

RADIOLOGY 1999 PRIZE WINNER DETAILS

Prizes awarded at Radiology 1999 - Imaging, Science & Oncology 17 - 19 May:

BIR Amersham Prize

Joint Winners

J Dyer, City Hospital NHS Trust, Birmingham
J M McAllister, Royal Hospitals Trust, Belfast

BIR Leonard Levy

V W K Ng, Institute of Psychiatry, London

BIR Clinical MRI Prize

E H Whitby, University of Sheffield, Sheffield

COR Beth Whittaker

E A Storey, University of Bradford, Bradford

Memorial Poster Prize

COR Alan Nichols Award

G C Weatherburn, Brunel University, Uxbridge

COR Forder Memorial Award

D Walls, University of Ulster at Jordanstown

IPEM President's Prize

A Montgomery, Western Infirmary, Glasgow

IPEM Physics Poster Prize

L Richley, University Hospital Birmingham, Birmingham

RAD Magazine Poster Prize

WINNER

W A Bhatti, University Hospital Aintree, Liverpool

Joint 2nd Prize

A J P Goddard, Leeds General Infirmary, Leeds
I Vilas, Hospital de la Marina Baja Villajoyosa, Benidorm, Spain

HBO & Co. infoRAD™ Prize

P Torrie, Royal Berkshire Hospital, Reading

Radiology 1999/Merck Imaging

Annual Poster Quiz

Monday's Joint Winners

A Yong, Dr J Harris, St Mary's Hospital, London

Tuesday's Winner

C Roche, Royal Liverpool Hospital, Liverpool

Wednesday's Winner

J Miller, Western General Hospital, Edinburgh

Overall Joint Winners

A Yong, Dr J Harris, St Mary's Hospital, London

SOCIAL ACTIVITIES

An exciting and varied social programme has been arranged to give delegates the chance to meet with old friends and new. The following programme of events, which includes the popular golf and fishing competitions, will ensure delegates have plenty of opportunity for enjoyment and relaxation.

Monday 22 May 2000

Evening at the Jam House

1930 - 0000 hrs

Delegates are invited to Birmingham's unique rhythm and blues experience in a stylish but informal atmosphere. The Jam House provides two lively bars and a mix of imaginative international food. There is also a live band and dancing until midnight.

Cost: £20.00 to include two course evening meal, live band and VAT.

Disco at Bobby Brown's

2100 - 0100 hrs

Now a regular event at the Congress, delegates will have the exclusive use of Bobby Brown's. A former canal side warehouse, it has been converted into the most original nightclub in town.

Cost £7.50 to include admission and VAT only.

Tuesday 23 May 2000

Congress Dinner and Dance

The Birmingham Botanical Gardens

1930 - 0100 hrs

Set amongst 15 acres of manicured gardens and impressive glasshouses, this Victorian paradise creates a unique and enchanting setting for a dinner dance. Guests will have access to the magnificent Tropical House and Terrace Glasshouses. Drinks reception on arrival followed by formal dinner and dancing. (Black Tie/dark suit)

Cost £39.50 to include coach transport, dinner, dance, wine and VAT.

SPORTING COMPETITIONS

Sunday 21 May 2000

IOS 2000 - Fishing Outing

A fly-fishing outing will take place on Sunday 21 May 2000, on the Derbyshire Wye near Bakewell. This event is likely to coincide with the start of the Mayfly hatch. A limited number of rods are permitted on this famous beat, which offers dry fly fishing in idyllic surroundings.

If you are interested in taking part, please contact Dr N Cozens, Derbyshire Royal Infirmary, London Road, Derby DE1 2QY. Telephone +44 (0)1332 347 141 ext. 2351 or Fax No. +44 (0)1332 254 750.

Monday 22 May 2000

IOS 2000 Golf Competition

The competition is organized on behalf of the Radiology Golfing Society by Dr David Rickards. The competition will be held at Little Aston Golf Club in Birmingham. It is an all day event with a snack lunch and dinner with prize-giving in the evening. The cost is about £55 per person which includes all golf, lunch and a dinner and VAT.

For further details and to book, contact Dr David Rickards, 136 Harley Street, London W1N 1AH, telephone: +44 (0)20 7580 1772.

Admission for the Social Events is by ticket only

It may be possible to obtain tickets for some of these events from the IOS Secretariat Office in the Congress registration area.

ACCOMPANYING PERSONS

The Birmingham Convention & Visitor Bureau (BCVB) can provide delegates with a host of information to make your visit to the area more enjoyable. They have details of events happening during your stay, on places to visit, night spots, theatre information and different places to eat.

Contact them at their office in the ICC Mall or call on 0121 780 4321.

IOS LUMINARY LECTURES

Dr N Müller of The University of British Columbia, one of the world's foremost specialists in thoracic imaging, gives a series of advanced presentations. All of the presentations will be held in Hall 5.

Monday 22 May 2000

Luminary Lecture 1: High resolution CT in the immunocompromised host: differential diagnosis at high resolution CT 1245 - 1330

Luminary Lecture 2: Acute pulmonary embolism: state-of-the-art imaging 1700 - 1745

Tuesday 23 May 2000

Luminary Lecture 3: High resolution CT in the differential diagnosis of chronic infiltrative lung disease 1215 - 1300

Luminary Lecture 4: High resolution CT in the assessment of obstructive lung disease 1430 - 1515

Wednesday 24 May 2000

Luminary Lecture 5: CT and MRI in the diagnosis and staging of lung cancer 0830 - 0915



Dr Müller did his initial medical training at the Federal University of Rio Grande do Sul in Brazil. His initial Residency was in paediatrics with speciality work experience in respiratory physiology following. He followed this with a PhD in Medical Sciences at the University of Toronto and obtained his FRCPC in Radiology from the University of British Columbia in 1984. He has been Professor of Radiology at the University of British Columbia since 1992.

Dr Müller has over 250 refereed publications and has authored four leading text books on chest imaging.

EPONYMOUS LECTURERS

FINZI LECTURE

Dr J D Howell: A century of radiology in the US and the UK Monday 22 May 2000 1100 - 1145



Dr Joel Howell obtained his MD from the University of Chicago and his PhD in the History and Sociology of Science from the University of Pennsylvania. He is currently at the University of Michigan, where he is a Professor in the Departments of Internal Medicine, History and Health Management and Policy.

Dr Howell is a practising internist whose primary research interest is in the history of medical technology. He has published widely on the topic in both the clinical and the historical literature; his most recent book is *Technology in the Hospital: Transforming Patient Care in the Early Twentieth Century*.

KODAK MAYNEORD MEMORIAL LECTURE Monday 22 May 2000 1345 - 1430

Professor W R Lees: Is there any science in radiology?



Whilst working as a clinical physiologist, in 1974 Professor Lees founded the Ultrasound Department at the Middlesex Hospital, and in 1977 commenced training in radiology, transforming the Ultrasound Department into the Radiology Department. He was appointed Consultant Radiologist to the Middlesex Hospital in 1981 with his main clinical interests in the areas of body imaging and intervention, and has since expanded his work into body MRI and interventional MRI with the installation of the dedicated .2 Tesla Open Interventional MRI system.

Professor Lees also has a strong interest in the physics and mathematics of radiology and

has for many years worked with an imaging physics group developing 3-D and image analysis techniques in ultrasound, CT and MRI.

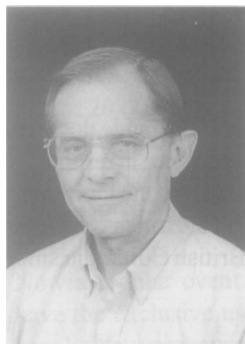
In the last 10 years his major research activity has been developing methods of tumour ablation using laser, radiofrequency and photodynamic therapy techniques, treating over 500 patients with liver, breast, lung, pancreas and prostate and bone tumours.

DOUGLAS LEA LECTURE

Tuesday 23 May 2000 1200 - 1245

Professor D Goodhead: On the track to DNA damage and effects of low-level ionization radiation

Professor Goodhead is Director of the MRC Radiation and Genome Stability Unit.



He gained his D Phil at the University of Oxford in 1965 in particle physics and then went on to academic positions at the Universities of California, London (St Bartholomew's) and Natal. He joined the MRC Radiobiology Unit at Harwell in 1974.

Professor Goodhead has served on a variety of national and international committees on evaluation of radiation risks. These have included the Committee on Medical Aspects of Radiation in the Environment (COMARE) in the UK, the BEIR VI radon-risk assessment in the USA and consultancies to UNSCEAR and IAEA.

His own research has been mainly on the biophysics of radiation effects with particular emphasis on microscopic features of radiation track structure.

SILVANUS THOMPSON MEMORIAL LECTURE

Tuesday 23 May 2000 1315 - 1400

Dr G ter Haar: Cancer treatment for a new century - non-invasive focused ultrasound ablation of tumours

Gail ter Haar received an MA in Physics at Oxford University. She then did an MSc in Medical Physics at Aberdeen University, followed by a PhD in Physics from the University of London in 1979. Her research for this degree was on the biological effects of ultrasound, which she undertook in the Physics Department of Guy's Hospital Medical School. In 1998, the University of Oxford awarded Gail a DSc in Clinical Medicine for her work on the safety of ultrasonic imaging and her research into the therapeutic applications of ultrasound.



Gail ter Haar is currently Head of Therapeutic Ultrasound at the Institute of Cancer Research, Sutton. Her interests are mainly in the development of therapeutic applications of ultrasound for use in the treatment of cancer, investigation of the potential of ultrasound for creating vascular occlusion for therapeutic benefit and the safety of diagnostic ultrasound techniques.

She has published 105 papers and written 18 book chapters. She is a member of the safety committee of the World Federation for Ultrasound in Medicine and Biology and of the Radiation Protection Committee of the British Institute of Radiology. Until recently she was Chairman of the European Committee for Ultrasound Radiation Safety. She is an Honorary Fellow of the American Institute for Ultrasound in Medicine. She is also on the Editorial Boards of Ultrasound in Medicine and Biology and the European Journal of Ultrasound.

WILLIAM STRIPP MEMORIAL LECTURE

Wednesday 24 May 2000 1045 - 1130

Ms L Batty-Smith: You've been framed - The Ilizarov way



Lindsay qualified in diagnostic radiography in St. George's Hospital, Hyde Park Corner in 1978. She progressed professionally in several London hospitals before gaining a senior position at The London Clinic. Having a passion for music and performance she took a career break. Recession in the early nineties brought her back to dental radiography at King's after which she moved to main X-Ray.

She has a certificate of mammography, specialises in accident and emergency radiography and paediatrics, and she is a member of the Trauma Imaging Group. She enjoys teaching and is studying for a master's degree. When not being a radiographer she composes music for film and media.

MACKENZIE DAVIDSON MEMORIAL LECTURE

Wednesday 24 May 2000 1300 - 1345

Professor R F Dondelinger: Radiological management of abdominal trauma



Professor R F Dondelinger is a full Professor of Radiology at the University of Liège and Chief of the Medical Imaging department. His main field of interest is interventional radiology, vascular and visceral applications.

He was Founding President of ESTI (European Society of Gastrointestinal and Abdominal Radiology) and a founding member and Secretary General of CIRSE (Cardiovascular and Interventional Radiological Society of Europe). He is currently President of the Royal Belgian Society of Radiology and was President of the Royal Belgian Society of Gastroenterology in 1999

He has co-authored and co-edited six books, 46 book chapters and 199 papers, mainly on interventional radiology and he is also an Editorial Consultant Board Member of 14 Scientific Journals.

WELBECK MEMORIAL LECTURE

Wednesday 24 May 2000 1345 - 1430

Miss P Kimber: Imaging that "dark continent"



Pamela Kimber commenced her career in Oxford at the Radcliffe Infirmary and after a year's secondment to Minneapolis she began her work in the field of neuroradiography, which in 1956 was a very different speciality from that of today. Over the span of her career she has been involved in many unique changes: from wet film processing of ventriculograms and handpull-changing angiography to CT and functional MRI. Neuroradiographers and neuroradiologists during the last four decades have had to accept, adapt and learn the application of these new investigations.

The majority of Pamela's career was spent as Superintendent Neuroradiographer at the Wessex Neurological Centre, Southampton. She also has been involved with the College of Radiographers, the International Society of Radiographers and Radiological Technicians and at the British Institute of Radiology. She was a member of the Radiographer's Board for eight years and its Chairman for four years. She has also been fortunate enough to have been invited to teach and lecture at many radiographer meetings in the UK and in many parts of the world.

PERSONAL PLANNER

MONDAY 22 MAY

Morning

Afternoon

Evening

<i>Hall</i>	<i>Morning</i>	<i>Afternoon</i>
Hall 5	Techniques in the Chest The Issue of Colon Cancer Screening Luminary Lecture 1	<i>Eponymous Lecture:</i> BIR Kodak Mayneord Memorial Paediatric Radiology - Clinical Practice Tips Luminary Lecture 2
Hall 6	<i>WIP:</i> Radiography Education Studies in Paediatric Imaging Studies in Gastrointestinal MRI	Studies in Chest Imaging Studies in Musculoskeletal Imaging
Hall 8	Quality Management The NHS Breast Screening Programme - Planning for the Future <i>AGM:</i> Society of Radiographers	The Barium Enema Revisited The Role of Imaging in Cancer Diagnosis
Hall 11a	<i>WIP:</i> New Studies in Neuroimaging <i>WIP:</i> Advances in High Technology & Body Imaging Chernobyl update for the 21st Century	How to Cope with IR(ME)R 2000 Ultrasound Safety Radiation Protection
Hall 11b	Radiological History in Motion <i>Eponymous Lecture:</i> RSM Finzi Lecture Studies in Management & Audit	MR Angiography - Is it worth it? <i>WIP:</i> Role & Career Development in Radiography
Olympian Suite	Web Publishing How To - Beginner Image Analysis	Studies in Image Analysis

WORKSHOPS

Executive Room 2	Time Management	1000 - 1200	
Executive Room 1	Understanding the Patient	1000 - 1200	
Executive Room 7	Creating Computer Presentations	1000 - 1230	Creating Computer Presentations 1400 - 1630
Executive Room 8	Ultrasound (Small Parts, Breast & Vascular Imaging)	1000 - 1200	Ultrasound (Small Parts, Breast & Vascular Imaging) 1400 - 1600

SOCIAL EVENTS

Evening at the Jam House
1930 - 0000

Disco at Bobby Brown's - The Club
2100 - 0100

PERSONAL PLANNER

TUESDAY 23 MAY

Morning	Afternoon	Evening

<i>Hall</i>	<i>Morning</i>	<i>Afternoon</i>
Hall 5	Advanced Imaging of the Lumbar Spine Understanding & Recognising Artefacts in MR Imaging Luminary Lecture 3	<i>Eponymous Lecture:</i> BIR Silvanus Thompson Memorial Luminary Lecture 4 Update on Head & Neck for the General Radiologist
Hall 6	Studies in Interventional Techniques Studies in Vascular Radiology Studies in GI Imaging	Studies in MRI Studies in MR Technology
Hall 8	Calman-Hine in Cancer Care - How far have we got? Moving to the 24-hour Department Radiographic Reporting	COR Presidential Address College of Radiographers: Student Radiographer Conference
Hall 11a	How to Shield an X-Ray Room The Challenge of Communicating Radiation Risk to the Patient <i>Eponymous Lecture:</i> IPEM Douglas Lea Lecture	Multislice CT - on to the new plateau? What you should be doing about Clinical Governance
Hall 11b	New Approaches to Imaging in GI Malignancy: Staging BIR Presidential Address	<i>WIP:</i> Studies in Oncology New Approaches to Imaging in GI Malignancy: Tumour & Normal Tissue Effects Studies in Radiotherapy Physics
Olympian Suite	Web Publishing How To - Intermediate 3D Imaging 1	3D Imaging 2 CR/DR Digitisation

WORKSHOPS			
Executive Room 2	Time Management	1000 - 1200	Time Management 1400 - 1600
Executive Room 1	Understanding the Patient	1000 - 1200	
Executive Room 7	Creating Computer Presentations	1000 - 1230	Creating Computer Presentations 1400 - 1630
Executive Room 8	Ultrasound (General Abdominal & Lower Limbs)	1000 - 1200	Ultrasound (General Abdominal & Lower Limbs) 1400 - 1600

SOCIAL EVENTS
Congress Dinner & Dance at the Birmingham Botanical Gardens 1930 - 0100

PERSONAL PLANNER

WEDNESDAY 24 MAY

Morning

Afternoon

Evening

<i>Hall</i>	<i>Morning</i>	<i>Afternoon</i>
Hall 5	Luminary Lecture 5 Embolotherapy Venous & GI Intervention	<i>Eponymous Lecture:</i> BIR MacKenzie Davidson Memorial Lecture Magnetic Resonance
Hall 6	Studies in Oncological Imaging Studies in Breast Imaging	Studies in the Face, Neck & Cranium Studies in Genitourinary Radiology
Hall 8	Imaging in Orthopaedic Surgery <i>Eponymous Lecture:</i> COR William Stripp Memorial Lecture Imaging the Lumbar Spine	<i>Eponymous Lecture:</i> COR Welbeck Memorial Lecture Radiographic Professional Development in Practice Congress Awards Ceremony
Hall 11a	<i>AGM:</i> British Institute of Radiology Spiral CT CT Physics Mammography Physics & Technology	Interventional Radiology Controversies in Interventional Radiology
Hall 11b	Role Developments in Radiotherapy Thoracic Irridation 1	Thoracic Irridation 2 Intensity Modulated Radiotherapy
Olympian Suite	Web Publishing How To - Advanced EURORAD PACS 1	PACS 2

WORKSHOPS

Executive Room 2	Time Management	1000 - 1200
Executive Room 7	Creating computer presentations	1000 - 1230
Executive Room 8	Ultrasound (Musculoskeletal & Sports injury imaging)	1000 - 1200

LIST OF EXHIBITORS FOR IOS 2000

The following companies are exhibiting at the IOS 2000 exhibition. A visit to this technical exhibition provides the ideal opportunity to view the very latest in equipment and services to the whole industry and to meet the leading manufacturers. Please see your IOS exhibition Guide (distributed at the Congress) for further information.

(For opening times please see programme page 5).

Company name

A.L.I. Europe B.V	Kodak Ltd
Acuson Ltd	Konica (UK) Ltd
Adac Laboratories	Landauer Inc
Advanced Technology Laboratories UK Ltd	Lanmark
Agfa-Gevaert Ltd	Laser Lines Ltd
Alliance Medical	Lister Bestcare Ltd
Amber Diagnostics Europe	Lodestone Patient Care Ltd
Amersham Medical Systems Ltd	Mallinckrodt (UK) Ltd
Aura Ltd	Mangar International Ltd
British Institute of Radiology	Marconi Medical
BT Health	MAS Medical Ltd
Calumet Coach Company Ltd	Medical Connections
Champion Photochemistry International Ltd	Medical Devices Agency
College of Radiographers	Medical Imaging Systems Ltd
Computerized Medical Systems	Metafix UK Ltd
Cook (UK) Ltd	Mining & Chemical Products Ltd
Corinth Medical Services Ltd	Mobile Medical Technologies
CSC (Specialised Vehicles) Ltd	Mobile Osteoporosis Services Ltd
Data General Ltd	MXD Ltd
Defence Evaluation Research Agency - DERA	National Radiological Protection Board
Diagnostic Sonar	Northern Physics Services
Duncan Hynd Associates	Nucletron UK Ltd
E-Z-EM Ltd	Nycomed Amersham
E.C. De Witt & Company	Philips Medical Systems
EMD Services Ltd	Photosol Ltd
Esaote Biomedica UK Ltd	Planmed
European Congress of Radiology	Primal Pictures Ltd
Eurosite Human Resources Ltd	Qados
Fergusson Wild & Co. Ltd	RAD TEC Products Ltd
Fuji Photo Film (UK) Ltd	Radiation Consultancy Services
Gammex RMI Ltd	Radiological History & Heritage Charitable Trust
GE Ultrasound Europe	Radiological Protection Centre
Glosrad	Radiological Research Trust
Grahame Gardner Ltd	Radiological Society of North America
Granta Book Exhibitions	Richardson Electronics (Europe) Ltd
Graytech Ltd	Royal College of Radiologists
GXR Systems Ltd	Schering Health Care
Health South (UK) plc	Shimadzu UK
Helax UK Ltd	Siel Imaging Ltd
Helix Recruitment	Siemens Medical Engineering
Hospital Engineering Ltd	Sigmacon (UK) Ltd
ICN Biomedicals	Southern Scientific/Knight Imaging
IGC - Medical Advances Inc.	Sunquest Information Systems
IGE Medical Systems	Tetenal Limited
ImageStore	Toshiba Medical Systems Ltd
Impex Imaging Systems Ltd	Tricorder Technology Plc
Institute of Physics in Medicine and Engineering	Varian Medical Systems UK Ltd
Integrated Radiological Services Ltd	Vertec Scientific Ltd
International Medical Multimedia (IMM) Ltd	Wardray Premise Ltd
ISRRT	Wolverson X-Ray Ltd
Jennie Reeves Radiographers Agency	X-Ograph Imaging Systems Ltd
Keymed	X-Rite Ltd
Kimal Plc	Zenith Medical Systems

List of exhibitors correct as of 13.3.00

SCIENTIFIC POSTER EXHIBITION

Supported by IGE Medical Systems Ltd

Scientific posters will be displayed on the concourse area of the National Indoor Arena within the IOS 2000 exhibition.

For opening times please see Programme page 5.

Topic	Poster Nos.	Page Nos.
Audit	0101 - 0102	63
Breast	0201 - 0217	63 - 66
Cardiovascular & Interventional radiology	0301 - 0311	66 - 68
Chest	0401 - 0406	68 - 69
Gastrointestinal	0501 - 0509	69 - 70
Genitourinary	0601 - 0608	70 - 72
Head & Neck	0701 - 0703	72
Hepatobiliary	0801 - 0806	72 - 73
Multisystem	0901 - 0905	73 - 74
Management	1001 - 1002	74 - 75
Musculoskeletal	1101 - 1116	75 - 77
Neuroradiology	1201 - 1210	77 - 79
Obstetrics	1301 - 1303	79
Paediatrics	1401 - 1403	79 - 80
Physics	1501 - 1503	80
Radiation Protection	1601 - 1609	80 - 82
Radiotherapy & Oncology	1701 - 1703	82 - 83
Miscellaneous	1801	83

Work in Progress Posters

Audit	0103	94
Breast	0218 - 0219	94
Gastrointestinal	0510	94
Head & Neck	0704	94 - 95
Multisystem	0906	95
Musculoskeletal	1117	95
Neuroradiology	1211 - 1212	95 - 96
Paediatrics	1404 - 1405	96
Physics	1504 - 1505	96
Radiation Protection	1610	96
Radiotherapy & Oncology	1704 - 1705	97
Miscellaneous	1802 - 1803	97

Student Posters	1901 - 1905	102 - 103
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infoRAD™ - NATIONAL INDOOR ARENA

The *infoRAD™* event demonstrates the use of Healthcare Informatics—the use of computers to help in the management, application and analysis of health related information. This year *infoRAD™* is held in association with Computer Assisted Radiology & Surgery and is situated within the IOS technical exhibition in the National Indoor Arena. A significant element of *infoRAD™* is a network demonstrating DICOM interconnectivity between exhibits, which will be extended into the IOS exhibition.

Exhibits cover topics such as computer aided education and training, computer aided diagnosis and therapy, radiological information systems, telemedicine and literature searching. Authors will be on hand each day between 1200 -1400 to assist with demonstrations and answer your questions. A separate *infoRAD™* exhibition guide is included in the delegate bags.

infoRAD™ is a trade name used by kind permission of the RSNA

<i>Booth Number</i>		<i>Booth Number</i>	
01	EMERALD image database and multimedia for medical physics training S D Tabakov, King's College, London	05	tbc D Hawkes, Guy's Hospital, London
02	The double contrast barium enema: an interactive guide for radiographers A H Chapman, St James's Hospital, Leeds	06	Mammographic image processing R P Highnam, OXIVA, Oxford
03	Use of handheld technologies to support students in the clinical workplace M P Tatlow, South Bank University, London	07	Computer-aided detection for mammography A Hessen, R2 Technology Inc, Boxtel, THE NETHERLANDS
04	Quantitative medical imaging: some applications A Todd-Pokropek, University College London, London	08	Lung volume estimation from chest radiographs F N Hatfield, University of Nottingham & Queens Medical Centre, Nottingham

DATES FOR YOUR DIARY

UKRC 2001

The UK Radiological Congress and Medical Technical Exhibition

Joint Congress between BIR, COR, IPEM & RCR

21- 23 May 2001

at Wembley Conference and Exhibition Centre, London

ABSTRACT DEADLINES

Proffered Papers: 20 November 2000

Work in Progress Papers: 19 February 2001

Student Work Papers: 19 February 2001

Contact: UKRC Secretariat, PO Box 2895, London, W1A 5RS

Email: ukrc@dial.pipex.com website: www.ukrc.org.uk

IOS LUMINARY LECTURES

Dr Nestor Müller of the University of British Columbia, one of the world's foremost specialists in thoracic imaging, gives a series of advanced presentations.

Monday 22 May 2000

LUMINARY LECTURE 1

Hall 5 1245-1330

Chairman: Dr F Gleeson

1245 High resolution CT in the immunocompromised host: differential diagnosis at high resolution CT

LUMINARY LECTURE 2

Hall 5 1700-1745

Chairman: Dr S Padley

1700 Acute pulmonary embolism: state-of-the-art imaging

Tuesday 23 May 2000

LUMINARY LECTURE 3

Hall 5 1215-1300

Chairman: Prof I McCall

1215 High resolution CT in the differential diagnosis of chronic infiltrative lung disease

LUMINARY LECTURE 4

Hall 5 1430-1515

Chairman: Dr J Reynolds

1430 High resolution CT of obstructive lung disease

Wednesday 24 May 2000

LUMINARY LECTURE 5

Hall 5 0830-0915

Chairman: Prof P Armstrong

0830 CT and MRI in the diagnosis and staging of lung cancer

EPONYMOUS LECTURES

Monday 22 May 2000

ROYAL SOCIETY OF MEDICINE FINZI LECTURE

Hall 11b 1100-1145

Chairman: Dr A Thomas

1100 A century of radiology in the US and the UK
Dr J D Howell, University of Michigan, Ann Arbor, USA

BRITISH INSTITUTE OF RADIOLOGY KODAK MAYNEORD MEMORIAL LECTURE

Hall 5 1345-1430

Chairman: Dr P Griffiths

1345 Is there any science in radiology? Prof W R Lees, The Middlesex Hospital, London

Tuesday 23 May 2000

INSTITUTE OF PHYSICS AND ENGINEERING IN MEDICINE DOUGLAS LEA LECTURE

Hall 11a 1200-1245

Chairman: Prof A Beddoe

1200 On the track to DNA damage and effects of low level ionizing radiation Prof D T Goodhead, Medical Research Council, Didcot

BRITISH INSTITUTE OF RADIOLOGY SILVANUS THOMPSON MEMORIAL LECTURE

Hall 5 1315-1400

Chairman: Dr P Griffiths

1315 Cancer treatment for a new century—non-invasive focused ultrasound ablation of tumours
Dr G ter Haar, Royal Marsden Hospital, Sutton

Wednesday 24 May 2000

COLLEGE OF RADIOGRAPHERS WILLIAM STRIPP MEMORIAL LECTURE

Hall 8 1045-1130

Chairman: Miss J Reid

1045 You've been framed—the Ilizarov way Ms L Batty-Smith, King's College Hospital, London

BRITISH INSTITUTE OF RADIOLOGY MACKENZIE DAVIDSON MEMORIAL LECTURE

Hall 5 1300-1345

Chairman: Dr P Griffiths

1300 Radiological management of abdominal trauma
Prof R F Dondelinger, Centre Hospitalier Universitaire de Liège, Liège, BELGIUM

COLLEGE OF RADIOGRAPHERS WELBECK MEMORIAL LECTURE

Hall 8 1345-1430

Chairman: Miss J Reid

1345 Imaging that "dark continent" Miss P M Kimber, Southampton

RADIOLOGY CPD

Monday 22 May 2000

TECHNIQUES IN THE CHEST

Hall 5 0900-1030

Chairman: Dr F Gleeson

0900 Thoracic intervention (non-vascular) Dr S P G Padley, Chelsea & Westminster Hospital, London
0925 Thoracic ultrasound Dr F Gleeson, The Churchill Hospital, Oxford
0950 The radiology of pleural malignancy Dr S R Desai, King's College Hospital, London
1015 Discussion

THE ISSUE OF COLON CANCER SCREENING

Hall 5 1045-1230

Chairman: Dr A Grundy

1045 Genetics and colorectal cancer screening Dr V A Murday, St George's Hospital, London
1115 Colorectal cancer screening Mr D G Morton, Queen Elizabeth Hospital, Birmingham
1145 Overview of the UK pilot centre Prof C Bartram, St Mark's Hospital, Harrow
1215 Discussion

PAEDIATRIC RADIOLOGY—CLINICAL PRACTICE TIPS

Hall 5 1445-1645

Chairman: Dr A Sprigg

1445 Imaging of childhood epilepsy Dr W K Chong, Great Ormond St Hospital for Children, London

LECTURES

- 1510 Postnatal management of antenatal hydronephrosis **Dr J J Fairhurst, Southampton General Hospital, Southampton**
- 1535 Ultrasound in diagnosis and management of developmental dysplasia of the infant hip (DDH, formerly CDH) **Dr S T Scott, Dorset County Hospital, Dorchester**
- 1600 Secrets of a paediatric radiologist—tips on how to make a difficult examination easy! **Dr A Sprigg, Sheffield Children's Hospital, Sheffield**
- 1625 Discussion

Tuesday 23 May 2000

ADVANCED IMAGING OF THE LUMBAR SPINE
Hall 5 0830–1030

Chairman: Dr A M Davies

- 0830 Spinal stenosis **Prof I McCall, RJAH Orthopaedic Hospital, Oswestry**
- 0855 Disc disease **Dr J P R Jenkins, Manchester Royal Infirmary, Manchester**
- 0920 Spondylolysis and spondylolisthesis **Dr B J Preston, Queens Medical Centre, Nottingham**
- 0945 Spinal dysraphism **Dr N Evans, Royal Orthopaedic Hospital, Birmingham**
- 1010 Discussion

UNDERSTANDING & RECOGNIZING ARTEFACTS IN MR IMAGING
Hall 5 1045–1200

Chairman: Dr S Keevil

- 1045 Why do we get them and where do they come from? **Mr A P Jones, Christie Hospital, Manchester**
- 1120 Artefact or pathology: clinical pitfalls of MR image artefacts **Dr J P R Jenkins, Manchester Royal Infirmary, Manchester**
- 1155 Discussion

UPDATE ON THE HEAD & NECK FOR THE GENERAL RADIOLOGIST
Hall 5 1530–1730

Chairman: Dr T Beale

- 1530 Sinonasal tumours and their staging **Dr J E Kabala, Bristol Royal Infirmary, Bristol**
- 1555 Inflammatory sinus disease **Dr P Anslow, Radcliffe Infirmary, Oxford**
- 1620 The larynx and hypopharynx **Dr J F C Olliff, Queen Elizabeth Hospital, Birmingham**
- 1645 A modern approach to salivary disease **Dr S J Golding, University of Oxford, Oxford**
- 1710 Discussion

Wednesday 24 May 2000

EMBOLOTHERAPY
Hall 5 0930–1100

Chairman: Prof T Buckenham

- 0930 Uterine artery embolization for fibroid disease **Dr J F Reidy, Guy's Hospital, London**
- 1000 Varicocoele embolization **Dr N Hacking, Southampton General Hospital, Southampton**
- 1030 Treatment of gastrointestinal bleeding **Dr A A Nicholson, Hull Royal Infirmary, Hull**

VENOUS & GI INTERVENTION
Hall 5 1115–1245

Chairman: Dr G Plant

- 1115 Gastrointestinal stents **Dr A Watkinson, Royal Free Hospital, London**
- 1145 IVC filters **Dr G Plant, The North Hampshire Hospital, Basingstoke**
- 1215 Biliary strictures **Dr D F Martin, Withington Hospital, Manchester**

MAGNETIC RESONANCE
Hall 5 1400–1700

Chairman: Dr P Goddard

- 1400 Imaging of oropharyngeal and oral cavity cancer **Prof R Sigal, Institut Gustave Roussy, Villejuif Cedex, FRANCE**
- 1430 MRI of pelvic cancer **Dr N M deSouza, Imperial College School of Medicine, London**
- 1450 Spinal MRI **Dr R W Kerslake, Queens Medical Centre, Nottingham**
- 1510 Discussion
- 1530 Introductory body MR angiography **Dr C N Ludman, University Hospital, Nottingham**
- 1550 MRI in the district general hospital **Dr A Troughton, Princess Margaret Hospital, Swindon**
- 1610 MRI of the knee **Dr C Wakeley, Bristol Royal Infirmary, Bristol**
- 1630 MRI of the shoulder **Dr S C P Blease, Med-Tel UK, London**
- 1650 Discussion

NEW DEVELOPMENTS

Monday 22 May 2000

CHERNOBYL UPDATE FOR THE 21ST CENTURY
Hall 11a 1230–1315

Chairman: Mr B Wall

- 1230 Chernobyl accident update for the 21st century **Dr R F Mould, Croydon**

HOW TO COPE WITH IR(ME)R 2000
Hall 11a 1330–1530

Chairman: Mr R Cannon

- 1330 IR(ME) Regulations 2000—a view from the department **Mr S Ebdon-Jackson, Department of Health, London**
- 1355 The 4 roles and who does what in imaging departments **Mr A J Scally, University of Bradford, Bradford**
- 1420 IRMER—the medical directorates role **Dr P Cavanagh, Taunton & Somerset NHS Trust, Taunton**
- 1445 Issues from a radiographic manager's perspective **Mr A S Whitley, Victoria Hospital Blackpool, Blackpool**
- 1510 Discussion

MR ANGIOGRAPHY—IS IT WORTH IT?
Hall 11b 1430–1600

Chairman: Prof I R Young

- 1430 MR angiography of the peripheral arteries: is it worth it? **Dr J F M Meaney, Leeds General Infirmary, Leeds**

- 1500 MR angiography of the abdomen **Dr G Bongartz, Kantonsspital Basel, Basel, SWITZERLAND**
- 1530 MR angiography in the chest **Dr M J Lipton, The University of Chicago, Chicago, USA**

ULTRASOUND SAFETY
Hall 11a 1545–1615

Chairman: Dr A Evans

- 1545 Safety issues in diagnostic and therapeutic ultrasound **Dr G ter Haar, Royal Marsden Hospital, Sutton**

RADIATION PROTECTION
Hall 11a 1630–1745

Chairman: Dr R Corbett

- 1630 Experimental simulation of A-bomb electron/gamma spectra in the hospital laboratory for radiobiological benchmarking **Prof A H Beddoe, Queen Elizabeth Hospital, Birmingham**
- 1640 Scatter fraction and quality in diagnostic radiology: variation with angle **Dr D G Sutton, Ninewells Hospital, Dundee**
- 1650 The impact of local reference dose levels at Nottingham City Hospital **Mr A T Rogers, Nottingham City Hospital, Nottingham**
- 1700 Dose improvements by optimization and automatic exposure control harmonization in computed radiography and film/screen radiography **Mrs J J Poveda, Nottingham City Hospital, Nottingham**
- 1710 The use of ionizing radiation in paediatric intensive care and neonatal units **Ms C Proctor, St Georges Hospital, London**
- 1720 Patient dose optimization in CT scanography **Mr K O'Neil, North Tyneside General Hospital, North Shields**
- 1730 Extremity doses in nuclear medicine: demonstrating compliance with the skin dose limit? **Dr C J Martin, North Glasgow Hospitals University NHS Trust, Glasgow**
- 1740 Discussion

Tuesday 23 May 2000

HOW TO SHIELD AN X-RAY ROOM
Hall 11a 0830–0930

Chairman: Dr D Sutton

- 0830 Concepts and methods for shielding design **Dr D G Sutton, Ninewells Hospital and Medical School, Dundee**
- 0845 How to shield an X-ray room: materials, transmission and assessment **Dr C J Martin, Health Physics, Glasgow**
- 0900 X-ray shielding—putting methods into practice **Mr J R Williams, Western General Hospital, Edinburgh**
- 0915 Discussion

THE CHALLENGE OF COMMUNICATING RADIATION RISK TO THE PATIENT
Hall 11a 0945–1145

Chairman: Mr D Rawlings

- 0945 Communicating radiation risk: a radiologist's perspective **Dr R F Bury, Leeds General Infirmary, Leeds**

- 1010 Communicating radiation risk: a radiographer's perspective **Mrs J A Shrimpton, Radcliffe Infirmary, Oxford**
- 1030 Communicating risk: a view from the social sciences **Prof A Irwin, Brunel University, Uxbridge**
- 1055 A leaflet for patients on diagnostic X-rays **Mr B F Wall, National Radiological Protection Board, Didcot**
- 1120 Discussion

MULTISLICE CT—ON TO THE NEW PLATEAU?
Hall 11a 1300–1430

Chairman: Prof A Dixon

- 1300 Principles and applications of multislice CT **Dr T Flohr, Siemens Medical Engineering, Forcherrime, GERMANY**
- 1320 Multirow CT in the chest: is the hype justified? **Dr R A Coulden, Papworth Hospital, Cambridge**
- 1340 Abdominal multislice CT **Dr N R Moore, The John Radcliffe, Oxford**
- 1400 Increasing repertoire? Pros and cons **Prof A K Dixon, University of Cambridge, Cambridge**
- 1415 Discussion

WHAT YOU SHOULD BE DOING ABOUT CLINICAL GOVERNANCE
Hall 11a 1445–1700

Chairman: Mr S Ebdon-Jackson

- 1445 What is clinical governance? **Dr R A Nakielny, Royal Hallamshire Hospital, Sheffield**
- 1505 Clinical governance: the RCR view **Prof P Armstrong, St Bartholomew's Hospital, London**
- 1525 Clinical governance **Ms A Hackett, Department of Health, London**
- 1545 A medical director's perspective **Dr B Ayers, St Thomas's Hospital, London**
- 1605 Clinical governance: a clinical director's view **Dr G J de Lacey, Northwick Park & St Mark's Hospitals, Harrow**
- 1625 Clinical governance—the patient's perspective **Mr D Videlo, Farnham**
- 1645 Discussion

Wednesday 24 May 2000

SPIRAL CT
Hall 11a 0915–1045

Chairman: Prof I Isherwood

- 0915 The use of spiral CT for major cardiovascular problems **Dr M J Lipton, The University of Chicago, Chicago, USA**
- 0940 Spiral CT: applications and techniques in the abdomen **Prof A K Dixon, University of Cambridge, Cambridge**
- 1005 Multiphasic helical CT for detection and characterization of hepatocellular carcinoma **Prof J H Lim, Samsung Medical Centre, Kangnam-Ku, KOREA**
- 1030 Discussion

CT PHYSICS
Hall 11a 1100–1200

Chairman: Dr D Sutton

- 1100 A comparison of the design features of multislice CT scanner models **Ms A L Hill, ImPACT Group, St George's Hospital, London**

LECTURES

- 1110 Development of new phantoms for the physical assessment of multislice CT scanners *Dr S A Sassi, St George's Hospital, London*
- 1120 Can multislice helical CT achieve a better noise-dose relationship than single slice? *Ms J F Carden, ImPACT Group, St George's Hospital, London*
- 1130 Biopsy time and operator dose using CT fluoroscopic guidance *Dr S J Higgins, Charing Cross Hospital, London*
- 1140 A comparison of methods for measuring the limiting spatial resolution of a CT scanner *Mr B Warr, St George's Hospital, London*
- 1150 Discussion

MAMMOGRAPHY PHYSICS & TECHNOLOGY Hall 11a 1215-1315

Chairman: Mr A Workman

- 1215 Breast cancer diagnosis using scattered X-rays. A non-invasive biopsy tool? *Dr R A Lewis, Daresbury Laboratory, Warrington*
- 1225 Full-field digital mammography—a phantom (RMI) study before clinical use *Dr R Schulz-Wendtland, Institut für Diagnostische Radiologie, Erlangen, GERMANY*
- 1235 Objective imaging characteristics of small field digital mammography systems *Mr D Evans, King's College Hospital, London*
- 1245 Full field 3D digital mammography using an amorphous silicon array *Dr J A Horrocks, St Bartholomews Hospital, London*
- 1255 Generating realistic spiculated lesions in digital mammograms *Mr S J Caulkin, University of Manchester, Manchester*
- 1305 Discussion

INTERVENTIONAL RADIOLOGY Hall 11a 1400-1600

Chairman: Dr G Plant

- 1400 Non-vascular interventional radiological procedures of the thorax *Prof R F Dondelinger, Centre Hospitalier Universitaire de Liège, Liège, BELGIUM*
- 1430 Interventional magnetic resonance *Dr W W Gedroyc, St Mary's Hospital, London*
- 1500 Carotid angioplasty and stenting *Prof T Buckenham, Royal Infirmary of Edinburgh, Edinburgh*
- 1530 Aortic stenting *Dr A M Belli, St George's Hospital, London*

CONTROVERSIES IN INTERVENTIONAL RADIOLOGY—PANEL DISCUSSION Hall 11a 1615-1715

Chairs: Dr A Watkinson & Dr G Plant

- Dr A M Belli, St George's Hospital, London*
- Dr J Reidy, Guy's Hospital, London*
- Dr A A Nicholson, Hull Royal Infirmary, Hull*
- Prof T Buckenham, Royal Infirmary of Edinburgh, Edinburgh*

RADIOGRAPHY: NEW DEVELOPMENTS AND CONTINUING EDUCATION

Monday 22 May 2000

QUALITY MANAGEMENT Hall 8 0830-0915

Chairman: Ms V Gregory

- 0830 Achieving recognition of the title and role of the radiographer in Irish legislation *Mr L Murray, Irish Institute of Radiography, Dublin, IRELAND*
- 0840 Quality management in diagnostic imaging and radiotherapy *Mr K R Batty, University of Portsmouth, Portsmouth*
- 0850 Effect of a "rolling audit" on radiographic standards of plain radiograph examinations *Dr E A O'Grady, University Aintree, Liverpool*
- 0900 How do you check yours? *Mrs D Anderson, University of Portsmouth, Portsmouth*
- 0910 Discussion

WORK IN PROGRESS RADIOGRAPHY EDUCATION Hall 6 0900-1030

Chairman: Prof A Moore

- 0900 Supporting supervising radiographers: improving the student learning experience *Ms S Ward, Sheffield Hallam University, Sheffield*
- 0910 Changes in the learning styles of radiography students: a longitudinal study *Miss P S Fowler, South Bank University, London*
- 0920 An ongoing evaluation of interprofessional education: 5 years experience of shared learning *Ms K Booth, Sheffield Hallam University, Sheffield*
- 0930 Managing the challenges of diversity in interprofessional education *Ms H A Best, Sheffield Hallam University, Sheffield*
- 0940 Education and training experiences of health care students from Black and minority ethnic communities *Ms R Klem, University of Central England, Birmingham*
- 0950 Development of a clinical assessment scheme to demonstrate progression commensurate with successive levels of learning for diagnostic radiography students *Ms J Tonks, University of the West of England, Bristol*
- 1000 Development of a clinical assessment scheme to demonstrate progression commensurate with successive levels of learning for radiotherapy students *Ms J Chianese, University of the West of England*
- 1010 Interactive assessment of diagnostic student radiographers on the World Wide Web *Mrs R Chester, University of Derby, Derby*
- 1020 Discussion

THE NHS BREAST SCREENING PROGRAMME—PLANNING FOR THE FUTURE Hall 8 0945-1130

Chairman: Ms M Lovegrove

- 0945 Clinical and service considerations *Dr C Rogers, Breast Test Wales, Cardiff*

- 1010 Radiation protection and technological development **Mr C P Lawinski, Kings College Hospital, London**
- 1035 An educational perspective **Ms L K Lee, City Hospital, Nottingham**

ANNUAL GENERAL MEETING

Hall 8 1145–1315
SOCIETY OF RADIOGRAPHERS

THE BARIUM ENEMA REVISITED

Hall 8 1330–1530

Chairman: *Ms N Thompson*

- 1330 The role of barium enema in cancer detection **Dr H McRitchie, Borders General Hospital, Melrose**
- 1400 Bowel preparation for double contrast barium enemas **Mrs A M Booth, York District Hospital, York**
- 1430 Diagnostic fluoroscopy—will it become the province of the radiographer? **Mr R L Law, Frenchay Hospital, Bristol**
- 1500 Quality assurance—radiographer-performed barium enema examinations **Ms F A Hawke, Borders General Hospital, Melrose**
- 1510 Comparison of radiographers' and radiologists' reports on radiographer-conducted barium enemas **Dr M Murphy, Macclesfield District General Hospital, Macclesfield**
- 1520 Discussion

THE ROLE OF IMAGING IN CANCER DIAGNOSIS

Hall 8 1545–1745

Chairman: *Mrs J Henderson*

- 1545 Role of imaging in cancer diagnosis **Dr J A Lawrence, Christie Hospital, Manchester**
- 1630 Imaging of bony metastases—nuclear medicine and other modalities **Mr P Facey, University Hospital of Wales, Cardiff**
- 1655 Imaging chest metastatic disease **Ms V A Fone, Royal Brompton Hospital, London**
- 1720 Metastases in the abdominal organs **Dr P I Ignotus, Pembury Hospital, Tunbridge Wells**

WORK IN PROGRESS
ROLE & CAREER DEVELOPMENT IN
RADIOGRAPHY

Hall 11b 1615–1730

Chairman: *Ms A Finch*

- 1615 The history of technological change and the role of the diagnostic radiographer in gastrointestinal fluoroscopy in the UK **Dr S B Le Masurier, University of Hertfordshire, Hatfield**
- 1625 Implementation of a Radiographic Reporting Service for skeletal trauma examinations: final analysis of accuracy **Mrs A M Paterson, Canterbury Christchurch University College, Canterbury**

- 1635 Implementation and development of radiographic reporting at a range of sites **Mr I Henderson, South Bank University, London**
- 1645 Radiographer-performed intravenous cannulation for pump-injected contrast enhanced CT **Mrs J E Lay, Royal Hallamshire Hospital, Sheffield**
- 1655 A sociological enquiry into career progression pathways in radiography: a grounded theory approach **Ms S M Henwood, South Bank University, London**
- 1705 Attitudes towards personal and professional development: a survey of radiographers employed in the South West Region **Ms M Gilchrist, University of the West of England, Bristol**
- 1715 Promoting academic and personal development using a multidisciplinary portfolio **Ms K Booth, Sheffield Hallam University, Sheffield**
- 1725 Discussion

Tuesday 23 May 2000

CALMAN HINE IN CANCER CARE—HOW FAR
HAVE WE GOT?

Hall 8 0830–1000

Chairman: *Mrs C Beardmore*

- 0830 The good, the bad and the ugly: an oncology manager's view **Miss M Jackson, Christie Hospital, Manchester**
- 0850 Oncologist to address the issues **Dr G Ross, Royal Marsden Hospital, London**
- 0910 Expert lay person's view **Ms J Brodie, CancerBacup, London**
- 0930 Discussion

MOVING TO THE 24 HOUR DEPARTMENT

Hall 8 1015–1215

Chairman: *Dr P Cavanagh*

- 1015 The Torbay experience **Dr R Seymour, Torbay Hospital, Torquay**
- 1030 Review of out of hours systems in relation to the working time directive **Mrs J Collingwood, Stoke Mandeville Hospital, Aylesbury**
- 1045 Moving to the 24 h department: the business manager's perspective **Ms P A Williams, Kent and Canterbury Hospital, Canterbury**
- 1100 Delivering the opinion of the Medical Director **Dr M Rimmer, The Queen Elizabeth Hospital, Kings Lynn**
- 1115 Moving to the 24 h department—US opinion **Dr M J Lipton, The University of Chicago, Chicago, USA**
- 1130 Discussion

RADIOGRAPHIC REPORTING

Hall 8 1230–1430

Chairs: *Ms B Snaith & Mrs A Paterson*

- 1230 Radiographic reporting—a radiologist's perspective **Prof P J Robinson, St James University Hospital, Leeds**
- 1250 Radiographic reporting—a radiographer's perspective **Mrs A M Paterson, Canterbury Christ Church University College, Canterbury**
- 1310 Discussion

LECTURES

- 1330 The accuracy of the red dot: will it improve training? *Mrs J S Hargreaves, Macclesfield District General Hospital, Macclesfield*
- 1340 Has radiography outgrown the red dot? *Ms B A Snaith, Doncaster Royal Infirmary, Doncaster*
- 1350 The role of preliminary interpretation of surgical chest radiographs by radiographers in a cardiothoracic centre *Dr A D Tasker, Papworth Hospital, Cambridge*
- 1400 Bone age estimation—another application for radiographer skill mix? *Dr J Ramessar, Princess Margaret Hospital, Swindon*
- 1410 Evaluation of a technical reporting course for technologists *Mr K G Holmes, University of the West of England*
- 1420 Plain radiograph reporting: is performance improved when radiologists are shown their errors? *Dr G R Tudor, Leicester Royal Infirmary*

COLLEGE OF RADIOGRAPHERS

PRESIDENTIAL ADDRESS

Hall 8 1445–1515

Chairman: Ms C Beardmore

- 1445 Interesting times *Miss J Reid, Ysbyty Gwynned Hospital, Bangor*

COLLEGE OF RADIOGRAPHERS STUDENT RADIOGRAPHER CONFERENCE

Hall 8 1515–1800

Chairman: Mr R Cannon

- 1515 Chairman's Address *Mr R Cannon, Kings College Hospital, London*
- 1520 Discomfort experienced by women during screening mammography *Miss C A Doyle, University College Dublin, Dublin, IRELAND*
- 1530 Plain film radiography of paediatric cervical spine trauma *Miss C L Alves, City University, London*
- 1540 Knowing the differences and similarities between non-accidental injury and osteogenesis imperfecta *Miss R T Mason, City University, London*
- 1550 Ultrasound imaging of the premature neonatal brain *Miss J Sqaunce, University of Ulster, Newtownabbey*
- 1600 Is there an infection control risk when using moving and handling equipment *Miss C I Kelly, University of Wales, Bangor*
- 1610 A pilot study to evaluate the decontamination method used in a radiotherapy department *Ms M Farolfi, Kingston University & St Georges Hospital Medical School, London*
- 1620 Lymphoscintigraphy for sentinel node detection and removal *Miss C Sleator, University of Derby, Derby*
- 1630 The evolution and future role of extracorporeal shock wave therapy *Ms B Twohig, University of Ulster at Jordanstown, Jordanstown, IRELAND*

- 1640 A comparison between CT angiography and conventional cerebral angiography in diagnosis of intercranial aneurysms *Ms S Finnerty, University of Derby, Derby*
- 1650 Imaging of mechanodegenerative pathology of the lumbar spine: comparison of MRI and plain radiography *Ms E J Jackson, Canterbury Christ Church University College, Canterbury*
- 1700 The use of self-expanding metallic stents to relieve acute bowel obstruction *Miss C Humberstone, Canterbury Christ Church University College, Canterbury*
- 1710 The establishment of diagnostic reference levels for barium enemas and barium meals *Miss E Carroll, University College Dublin, Dublin, IRELAND*
- 1720 From the horse's mouth? Communication with horses and its application to the human environment *Miss H Gatenby, University of Derby, Derby*
- 1730 Presidential Address *Miss J Reid, Ysbyty Gwynned Hospital, Bangor*
- 1740 Debate with the President

Wednesday 24 May 2000

IMAGING IN ORTHOPAEDIC SURGERY

Hall 8 0930–1030

Chairman: Mr R Cannon

- 0930 Satisfying the surgeon, protecting the patient, respecting the radiographer *Mr C D Jeffery, Canterbury Christ Church University College, Canterbury*
- 1000 Orthopaedic surgery: challenges to practice *Mr M J Woodford, Salisbury District Hospital, Salisbury*

IMAGING THE LUMBAR SPINE

Hall 8 1145–1330

Chairman: Mr M Woodford

- 1145 Imaging of the lumbar spine. Is there a role for the plain film examination today? *Dr M J Warren, Luton and Dunstable Hospital, Luton*
- 1205 CT scanning of the lumbar spine *Ms R Steele, Guy's Hospital NHS Trust, London*
- 1225 MRI—the technique of choice *Mrs K L Gillmore, Queen Elizabeth the Queen Mother Hospital, Whitstable*
- 1245 Imaging of the lumbar spine: ultrasound—a useful modality? *Dr D Chapman-Jones, Canterbury Christ Church University College, Canterbury*
- 1305 Discussion

RADIOGRAPHIC PROFESSIONAL DEVELOPMENT IN PRACTICE

Hall 8 1445–1615

Chairman: Ms J Boardman

- 1445 Find and deliver: research and practice in therapeutic radiography *Mrs R L Harris, The Plymouth Oncology Centre, Plymouth*
- 1455 An investigation of radiographers' attitudes towards evidence-based practice, and their knowledge of the research process *Ms C Gee, Chesterfield & North Derbyshire Royal Hospital, Chesterfield*

- 1505 Role change, identity and CPD in radiography: dialogues, discourses, directions *Dr C R Boyes, St James's Hospital, Leeds*
- 1515 The impact of high technology radiology equipment on patients and radiographers *Mr F J Murphy, University of Wales, Bangor*
- 1525 Implementation of a programme of continuing professional development using action research to enable local management of the change *Ms N Wilson, Queen Margaret University College, Edinburgh*
- 1535 Personal and professional development: a survey of radiographers employed in the Southwest region *Mr T W Palarm, University of the West of England, Bristol*
- 1545 Continuing professional development and clinical reporting *Dr A M Thomas, Bromley Hospital, Bromley*
- 1555 Maximizing staff potential: practical staff development strategies to enhance practice *Ms S M Henwood, City University, London*
- 1605 Image interpretation skills for undergraduate diagnostic radiographers *Mr P C Milburn, Canterbury Christ Church University College, Canterbury*

CONGRESS AWARDS CEREMONY

Wednesday 24 May 2000

Hall 8 1630–1730

Prizes of the BIR, COR and IPEM will be awarded along with *infoRAD*TM and poster prizes.

ONCOLOGY

Tuesday 23 May 2000

NEW APPROACHES TO IMAGING IN GI MALIGNANCY: STAGING

Hall 11b 0900–1100

Chairman: *tbc*

- 0900 The role of MRI in the local staging of rectal cancer *Dr G Brown, The Royal Marsden Hospital, Sutton*
- 0920 The role of oesophagogastric endoscopic ultrasound *Dr A M McLean, St Bartholomew's Hospital, London*
- 0940 The assessment of liver metastases *Dr J B Karani, Kings College Hospital, London*
- 1000 Pancreatic cancer: imaging–surgical correlation *Dr Z Amin, Chelsea & Westminster Hospital, London*
- 1020 PET in gastrointestinal malignancy *Dr G J R Cook, Guy's & St Thomas' Hospital Trust, London*
- 1040 Discussion

BRITISH INSTITUTE OF RADIOLOGY

PRESIDENTIAL ADDRESS

Hall 11b 1200–1230

Chairman: *Prof M Maisey*

- 1200 The growing impact of nuclear medicine on clinical oncology *Dr P A Griffiths, County Hospital, Lincoln*

WORK IN PROGRESS STUDIES IN ONCOLOGY

Hall 11b 1245–1345

Chairman: *Dr A McKenzie*

- 1245 Improving efficiency of intensity modulated radiotherapy: an algorithm for optimization of beam orientation *Dr C Nutting, Royal Marsden NHS Trust, London*
- 1255 A unidimensional dose measurement probe based on plastic scintillating fibres *Prof A Ikhlef, University of Moncton, Moncton, CANADA*
- 1305 An evaluation of the availability of dietetic services for cancer patients undergoing radiotherapy *Ms L Ward, University of Hertfordshire, Hatfield*
- 1315 Cervix brachytherapy—placement under ultrasound guidance: a useful new technique *Dr M R Buckley, Belvoir Park Hospital, Belfast*
- 1325 Simulator verification in treatment planning: an important step in delivering high quality radiotherapy *Miss J S Harpham, Addenbrooke's Hospital, Cambridge*
- 1335 Discussion

NEW APPROACHES TO IMAGING IN GI MALIGNANCY: TUMOUR & NORMAL TISSUE EFFECTS

Hall 11b 1400–1600

Chairman: *Prof P Robinson*

- 1400 Imaging the pelvis and abdomen following treatment of cancer *Dr R J Johnson, The Christie Hospital, Manchester*
- 1425 Late effects of radiotherapy on bowel: the clinical picture *Dr D M Tait, The Royal Marsden NHS Trust, Sutton*
- 1450 The role of MR in functional studies of cancer *Dr A S K Dzik-Jurasz, The Royal Marsden Hospital, Sutton*
- 1515 The role of CT in the acute complications of gastrointestinal malignancy *Dr J A Spencer, St James's University Hospital, Leeds*
- 1540 Discussion

STUDIES IN RADIOTHERAPY PHYSICS

Hall 11b 1615–1745

Chairman: *Dr P Williams*

- 1615 The widths of error margins in radiotherapy treatment planning depend on beam configuration *Dr A L McKenzie, Bristol Oncology Centre, Bristol*
- 1625 Radiotherapy for oesophageal cancer: a comparison of 3D conformal and intensity modulated techniques *Dr C M Nutting, Royal Marsden NHS Trust, Sutton*

- 1635 Production of moulded Cerrobend Ellis-type compensating filters for IMRT *Miss C M Coldham, Princess Royal Hospital, Hull*
- 1645 Practical intensity modulated radiotherapy for improving dose homogeneity in tangent breast irradiation *Dr K A Langmack, Addenbrooke's NHS Trust, Cambridge*
- 1655 Limitations of intensity modulation for radiotherapy of the prostate *Mr J Meyer, Coventry University, Coventry*
- 1705 Reduction of pelvic small bowel irradiation using an optimized intensity modulated pelvic radiotherapy technique *Dr C M Nutting, Royal Marsden NHS Trust, Sutton*
- 1715 Radiation therapy to inhibit coronary artery restenosis at the Cleveland Clinic *Dr D A Wilkinson, Cleveland Clinic, Cleveland, USA*
- 1725 Interdisciplinary collaboration to develop a multimodal verification system and its subsequent implications to clinical practice *Ms B Thompson & Mrs J Stratford, Christie Hospital, Manchester*
- 1735 Discussion

Wednesday 24 May 2000

ROLE DEVELOPMENTS IN RADIOTHERAPY
Hall 11b 0830-1030

Chairman: Ms B Cassidy

- 0830 Radiographer-led treatment review clinics *Mrs L M Thorpe, Royal Cornwall Hospitals (Treliske), Truro*
- 0855 Update on START breast trial *Ms E A Winfield, Mount Vernon Hospital, Northwood*
- 0920 Information provision for radiotherapy patients *Mr S Edwards, Leeds*
- 0945 Extending the role of the radiographer *Ms H McNair, Royal Marsden Hospital, London*
- 1010 Discussion

THORACIC IRRADIATION 1
Hall 11b 1100-1200

Chairman: Dr D Tait

- 1100 The new generation of radiosensitizers in non-small cell lung cancer *Prof A Price, Western General Hospital, Edinburgh*
- 1130 Thoracic radiotherapy—do we worry too much about myelitis? *Dr F Macbeth, Velindre NHS Trust, Cardiff*

THORACIC IRRADIATION 2
Hall 11b 1300-1430

Chairman: Dr R Stout

- 1300 The role of stenting for palliation of SVCO *Dr R A Morgan, St George's Hospital, London*
- 1330 Mesothelioma: is radiotherapy effective? *Dr N P Rowell, The Royal Marsden NHS Trust, Sutton*
- 1400 Pulmonary radiation toxicity: radiation pneumonitis and changes in lung function *Dr J Lebesque, The Netherlands Cancer Institute, Amsterdam, THE NETHERLANDS*

INTENSITY MODULATED RADIOTHERAPY
Hall 11b 1515-1615

Chairman: Prof A Beddoe

- 1515 Intensity modulated radiotherapy—the physics view *Dr P C Williams, Christie Hospital NHS Trust, Manchester*

- 1540 The clinical justification *Dr M Robinson, Weston Park Hospital, Sheffield*
- 1605 Discussion

ANNUAL GENERAL MEETING

Wednesday 24 May 2000
Hall 11a 0800-0900

BRITISH INSTITUTE OF RADIOLOGY

RADIOLOGICAL HISTORY

Monday 22 May 2000

RADIOLOGICAL HISTORY IN MOTION
Hall 11b 0915-1100

Chairman: Miss M Frank

- 0915 Radiology in developing countries *Mr U Busch, Deutsches Röntgen-Museum, Remscheid, GERMANY*
- 0945 The work of Professor Sir Howard Middlemiss, CMG, MD, FRCP, FRCR *Prof H Baddeley, Northwood*
- 1015 The influence of UK radiology on developing Greek and military radiology *Mr G Livadas, A & L Medical Supplies Ltd, Athens, GREECE*
- 1045 Status, space and safety: challenges for the British radiologist *Dr J M Guy, West Suffolk Hospital, Bury St Edmunds*
- 1055 Discussion

INFORMATICS AND COMPUTING IN HEALTH

Monday 22 May 2000

WEB PUBLISHING HOW TO—BEGINNER
Olympian Suite 0930-1030

Chairman: Mr M Tatlow

- 0930 *Mr M Tatlow, South Bank University, London*

IMAGE ANALYSIS
Olympian Suite 1045-1245

Chairman: Dr E Berry

- 1045 Medical image registration *Prof D Hawkes, Guy's Hospital, London*
- 1115 Quantification of medical images *Prof A Todd-Pokropek, University College, London*
- 1145 Breast imaging: a principled approach to image processing *Prof M Brady, Oxford University, Oxford*
- 1215 Virtual reality and surgery *Dr A Linney, University College, London*

STUDIES IN IMAGE ANALYSIS
Olympian Suite 1400-1515

Chairman: Dr D Harvey

- 1400 Improved osteoporotic fracture risk analysis from plain radiographic films *Dr J N Ridyard, Lanmark, Beaconsfield*
- 1410 An evaluation of two methods of true 3D display in surface-rendered 3D CT *Mr C van Tulleken, University of Oxford, Oxford*

- 1420 3D CT volumetric assessment of lung volume and emphysema in silicosis *Dr G C Ooi, Queen Mary Hospital, HONG KONG*
- 1430 CT virtual cystoscopy *Dr L Bartella, St Bartholomew's Hospital, London*
- 1440 Correlative imaging of renal neoplasms using ultrasound including colour Doppler flow imaging and CT *Dr A Kapoor, All India Institute of Medical Sciences, New Delhi, INDIA*
- 1450 An automated method for measuring the volume of extraocular muscles from MR images *Dr M J Firbank, Royal Victoria Infirmary, Newcastle upon Tyne*
- 1500 Rapid estimation of intracranial CSF volume with single shot half-Fourier RARE *Dr R R Sood, Addenbrookes Hospital, Cambridge*
- 1510 Discussion

Tuesday 23 May 2000

**WEB PUBLISHING HOW TO—INTERMEDIATE
Olympian Suite 0900–1000**

Chairman: Mr M Tatlow

- 0900 **Mr M Tatlow, South Bank University, London**

**3D IMAGING 1
Olympian Suite 1030–1230**

Chairman: Prof D Hawkes

- 1030 New ideas in 3D ultrasound **Prof W R Lees, The Middlesex Hospital, London**
- 1055 Critical issues facing post-processing in the era of high performance MRI and multislice CT **Dr S J Golding, University of Oxford, Oxford**
- 1120 Discussion
- 1130 Virtual endoscopy of aortic stenting: a pictorial review *Dr Z H Sun, University of Ulster, Belfast*
- 1140 The evaluation of a prototype MR compatible flexible bronchoscope for diagnostic and therapeutic use *Dr M A Ederies, Bristol Royal Infirmary, Bristol*
- 1150 MR-guided laser thermoablation of inoperable renal tumours in an interventional MR scanner *Dr R Joarder, St Mary's Hospital, London*
- 1200 A performance intercomparison of 5 surgical gamma probe systems *Mr A Maxwell, Bradford Royal Infirmary, Bradford*
- 1210 Application of parallel processing in three-dimensional reconstruction of CT images *Mr C K Tong, Pamela Youde Nethersole Eastern Hospital, HONG KONG*
- 1220 Discussion

**3D IMAGING 2
Olympian Suite 1400–1500**

Chairman: Prof W Lees

- 1400 Clinical applications of 3D CT in relation to surgical support **Mr S Watt-Smith, The John Radcliffe Hospital, Oxford**
- 1425 Post-processing and 3D models in staging pancreatic carcinoma with CT and MRI. Presentation of research, clinical work and technology **Dr J T Geitung, Ullevaal University Hospital, Oslo, NORWAY**
- 1450 Discussion

**CR/DR DIGITIZATION
Olympian Suite 1515–1630**

Chairman: Mr C Bull

- 1515 What benefits can we expect from a hospital-wide PACS? **Mrs G C Weatherburn, Brunel University, Uxbridge**
- 1540 Digital imaging technology. Promises unfulfilled? **Mr P Ryan, London Council, Didcot**
- 1605 Phantom based clinical evaluation of multiple networked Computed Radiography systems *Mr N Tomlinson, NHS Estates, Tunbridge Wells*
- 1615 Discussion

Wednesday 24 May 2000

**WEB PUBLISHING HOW TO—ADVANCED
Olympian Suite 0900–1000**

Chairman: Mr M Tatlow

- 0900 Computer assisted learning in nuclear medicine technology *Mr K G Holmes, University of the West of England, Bristol*
- 0915 PRISM 21 *Dr A Waldman & Dr N Hollings, National Hospital for Neurology and Neurosurgery & University College Hospital, London*
- 0925 Multimedia radiology school transplanted on site by Intranet: Intra-X *Mr S Ginocchio, Franconville, FRANCE*
- 0935 **Mr M Tatlow, South Bank University, London**

**EURORAD
Olympian Suite 1015–1115**

Chairman: Dr D Harvey

- 1015 EuroRAD: the imaging database of the European Association of Radiology **Prof R Sigal, Institut Gustave Roussy, Villejuif Cedex, FRANCE**

**PACS 1
Olympian Suite 1130–1230**

Chairman: Mrs E Beckmann

- 1130 Integrating DICOM into the healthcare environment **Mr C Parisot, GE Medical Systems, Buc, FRANCE**

**PACS 2
Olympian Suite 1400–1530**

Chairman: Dr B Bury

- 1400 The request for proposal for PACS and evaluation **Prof H U Lemke, CARS 2000, Berlin, GERMANY**
- 1430 The impact of PACS on workflow: experience at Hammersmith Hospital **Dr N Strickland, Hammersmith Hospital, London**
- 1500 A DICOM-based regional teleradiology service *Dr T K Blanchard, Addenbrookes Hospital, Cambridge*
- 1510 Teleradiology in a DGH setting: pleasures, pitfalls and practical pointers *Dr J Ramessar, Princess Margaret Hospital, Swindon*
- 1520 Discussion

NEW STUDIES

Monday 22 May 2000

WORK IN PROGRESS
NEW STUDIES IN NEUROIMAGING
Hall 11a 0900–1000

Chairman: *tba*

- 0900 Assessment of aortic arch and carotid bifurcation using a neurovascular coil *Dr N Hoggard, Royal Hallamshire Hospital, Sheffield*
- 0910 Short-term cerebral haemodynamic effects of carotid artery stenting monitored by MR perfusion *Dr I D Wilkinson, University of Sheffield, Sheffield*
- 0920 Multimodality MR in subarachnoid haemorrhage *Prof P D Griffiths, University of Sheffield, Sheffield*
- 0930 Rapid acquisition projectional MR angiography for the assessment of cerebral arteriovenous malformation *Mr D J Warren, University of Sheffield, Sheffield*
- 0940 Cerebral proton MR spectroscopy in children with neurofibromatosis type-1 *Dr I D Wilkinson, University of Sheffield, Sheffield*
- 0950 MR spectroscopic features of cortical tubers in adults with tuberous sclerosis *Dr W Mukonoweshuro, Royal Hallamshire Hospital, Sheffield*

WORK IN PROGRESS
ADVANCES IN HIGH TECHNOLOGY & BODY
IMAGING

Hall 11a 1030–1200

Chairman: *Dr C Wakeley*

- 1030 Functional imaging of neuroendocrine tumours: which agent? *Dr K S El-Haddad, Royal Free Hospital, London*
- 1040 Patterns of spread of nasopharyngeal carcinoma *Dr R Padmanabhan, Peter MacCallum Cancer Institute, Melbourne, AUSTRALIA*
- 1050 CT measurement of perfusion within lung masses: correlation with tumour stage and FDG-PET *Prof K A Miles, Wesley Research Institute and Southern X-Ray Clinics, Brisbane, AUSTRALIA*
- 1100 Washout characteristics of adrenal masses on contrast enhanced CT: definitive lesion characterization *Dr G W Boland, Massachusetts General Hospital, Boston, USA*
- 1110 Dose reduction to the testes during CT scanning of the abdomen using a gonad shield *Dr C R Peebles, Southampton General Hospital, Southampton*
- 1120 Diagnostic management of suspected colon obstruction: spiral CT vs water soluble enema *Dr L Twohig, Royal Hallamshire Hospital, Sheffield*
- 1130 Carpal tunnel syndrome: ultrasound observations in patients and normal volunteers *Dr S Chhaya, UCL Hospitals, London*

- 1140 The use of bone scintigraphy in the detection of significant complications after total knee joint replacement *Dr S L Smith, Queens Medical Centre, Nottingham*

1150 Discussion

STUDIES IN PAEDIATRIC IMAGING
Hall 6 1045–1215

Chairman: *Mr S Clapperton*

- 1045 Imaging in neonatal intensive therapy units **Ms F C Rodger, Great Ormond St Hospital for Children, London**
- 1115 MRI in the management of growth plate abnormalities in children *Dr M Balogun, Birmingham Children's Hospital, Birmingham*
- 1125 National survey of the use of steroid prophylaxis for intravenous paediatric contrast procedures *Dr A Evans, University Hospital of Wales, Cardiff*
- 1135 Should asymptomatic neonates with heart murmurs be irradiated? *Dr R S Oeppen, Southampton General Hospital, Southampton*
- 1145 Unenhanced CT scans of the paediatric abdomen: radiation exposure vs diagnostic benefit *Dr C G Taylor, Great Ormond Street Hospital for Sick Children, London*
- 1155 The role of the nephrostogram following pelvi-ureteric junction surgery in children *Dr S Ramachandran, Royal Manchester Children's Hospital, Manchester*
- 1205 Routine Doppler ultrasound in the immediate post-operative period following liver transplantation *Miss L Pearson, Birmingham Children's Hospital, Birmingham*

STUDIES IN MANAGEMENT & AUDIT
Hall 11b 1200–1400

Chairman: *Dr J P Owen*

- 1200 Clinical commissioning of diagnostic X-ray equipment? *Mr N S Wells, KCARE Kings College Hospital, Dulwich*
- 1210 Factors influencing access to MRI services *Prof A K Dixon, Addenbrooke's Hospital and the University of Cambridge*
- 1220 An audit of medical emergency admission chest radiographs *Dr R Bagree, St Woolos Hospital, Newport*
- 1230 Emergency cranial CT: discrepancies of radiology trainee reports and final interpretations, and management relevance *Dr R Bhatt, Leicester Royal Infirmary NHS Trust*
- 1240 Reduction in inappropriate use of radiographic investigations amongst GPs by an education initiative *Dr J Makowska-Webb, Aintree Hospital NHS Trust, Liverpool*
- 1250 Repeat plain film requests by general practitioners—are they indicated? *Dr A T Lee, Leicester Royal Infirmary, Leicester*
- 1300 Audit of in-patient ultrasound requests *Dr E A WIP Dick, Whittington Hospital, London*
- 1310 NHS Estates (DoH) new contribution to the design and planning of diagnostic imaging facilities *Mr J Britton, NHS Estates, Tunbridge Wells*

- 1320 Determination of the potential for the development of occupational standards in imaging and oncology *Miss F Mellor, University of Hertfordshire, Hatfield*
- 1330 Minerva revisited *Dr E A Dick, Royal Free Hospital, London*
- 1340 Discussion

STUDIES IN GASTROINTESTINAL MRI
Hall 6 1230–1330

Chairman: *tbc*

- 1230 MR colography with carbon dioxide *Dr D J Lomas, Addenbrookes Hospital, Cambridge*
- 1240 Review of MR cholangiopancreatography techniques *Mrs H Wilson, University of Cambridge, Cambridge*
- 1250 Detection of choledocholithiasis: diagnostic accuracy of ultrasonography, CT, magnetic resonance cholangiopancreatography and endoscopic retrograde cholangiopancreatography *Dr D Pickuth, Martin-Luther-Universität, Halle, GERMANY*
- 1300 Prospective comparison of breath-hold MRCP and ERCP *Dr D J Lomas, Addenbrookes Hospital, Cambridge*
- 1310 MR small bowel follow through—choice of bowel contrast agent using HASTE sequence *Dr A K Lim, Charing Cross Hospital, London*
- 1320 MR small bowel enteroclysis with a combined half-Fourier RARE technique *Dr R R Sood, Addenbrookes Hospital, Cambridge*

STUDIES IN CHEST IMAGING
Hall 6 1400–1530

Chairman: *Dr F Gleeson*

- 1400 Clinical validity of normal angiography in suspected pulmonary embolism—a meta-analysis *Dr E J R van Beek, Royal Hallamshire Hospital, Sheffield*
- 1410 A comparative analysis of gadolinium enhanced magnetic resonance angiography with pulmonary angiography for diagnosis of pulmonary embolism *Dr E J R van Beek, Royal Hallamshire Hospital, Sheffield*
- 1420 Ultrafine needle aspiration in suspected thoracic malignancy *Dr A M Beale, Princess Margaret Hospital, Swindon*
- 1430 Success of image-guided pleural cutting needle biopsy in the presence of a suspected malignant effusion *Dr R F Adams, Churchill Hospital, Oxford*
- 1440 Lung volume reduction surgery for pulmonary emphysema: imaging assessment and clinical outcome *Dr A Rajesh, Glenfield Hospital NHS Trust, Leicester*
- 1450 The relationships between the extents of CT abnormalities and pulmonary function impairment in asbestos-exposed subjects *Dr S J Copley, Royal Brompton Hospital, London*
- 1500 The discriminatory value of high resolution CT in obstructive lung disease *Dr S J Copley, Royal Brompton Hospital, London*

- 1510 CT appearances in acute respiratory distress syndrome: comparison of direct and indirect pulmonary injury *Dr S R Desai, Royal Brompton Hospital, London*
- 1520 Non-specific interstitial pneumonitis vs usual interstitial pneumonitis: structural–functional relationships *Dr S R Desai, Royal Brompton Hospital, London*

STUDIES IN MUSCULOSKELETAL IMAGING
Hall 6 1545–1800

Chairman: *Dr J P R Jenkins*

- 1545 Diagnostic contribution of the frontal lumbar view in community referred low back pain—1000 patients *Dr L A Khoo, St George's Hospital, London*
- 1555 Lumbosacral MRI signs in low back pain: a review of asymptomatic subjects *Dr J H Henson, Princess Margaret Hospital, Swindon*
- 1605 The discrepancy between MRI and CT myelography in the investigation of cervical degenerative disease *Dr R J Bartlett, Hull Royal Infirmary, Hull*
- 1615 The importance of 24 h follow-up in discography *Dr P S Rajan, Hinchingsbrooke Health Care NHS Trust, Huntingdon*
- 1625 Incidence of degenerative hip disease in patients referred with “chronic groin strain” *Dr R K Verma, Leicester Royal Infirmary NHS Trust, Leicester*
- 1635 *In vivo* quantification of response to therapy in active synovitis using dynamic MRI *Dr R G Lambert, University of Alberta Hospital, Alberta, CANADA*
- 1645 Activity of ischaemic necrosis of hip, perfusion studies by dynamic enhanced MRI and bone scan *Mr C F Tan, Chang Gung Memorial Hospital, Taoyuan, TAIWAN*
- 1655 MR arthrography in glenohumeral instability *Dr J P R Jenkins, Manchester Royal Infirmary, Manchester*
- 1705 MRI of knee in children with osteochondral lesions—stable or unstable? *Dr M Palaniappan, Royal Liverpool Children's Hospital, Liverpool*
- 1715 CT scanning in spinal trauma—no need to remove patients from a scoop stretcher prior to imaging *Dr P Fielding, University Hospital of Wales, Cardiff*
- 1725 Scaphoid radiography for injury—is a routine second radiograph always necessary? *Dr K Chatoor, Kidderminster General Hospital, Kidderminster*
- 1735 When is tenderness in the anatomical snuff box not a scaphoid fracture? *Dr A Page, Birmingham Children's Hospital, Birmingham*
- 1745 MRI in the management of scaphoid injuries in skeletally immature patients *Dr K Johnson, Birmingham Children's Hospital, Birmingham*
- 1755 Discussion

Tuesday 23 May 2000

**STUDIES IN INTERVENTIONAL TECHNIQUES
Hall 6 0830–0945**

Chairman: Prof T Buckenham

- 0830 Survey of the use of sedation and analgesia during percutaneous nephrostomy insertion *Dr L M Freeman, South Manchester University Hospitals NHS Trust, Manchester*
- 0840 Percutaneous fluoroscopic gastrojejunostomy with single puncture and single anchor gastropexy *Dr K Choji, Southampton General Hospital, Southampton*
- 0850 Tumour seeding—an inevitable or avoidable legacy of biopsy of colorectal liver metastases? *Dr G R Plant, North Hampshire Hospital, Basingstoke*
- 0900 Radiology day case ultrasound-guided liver biopsy unit—an initial experience *Dr R T Dhawan, King's College Hospital, London*
- 0910 Improving glandular coverage in prostate biopsy—results of a 33 mm core length needle *Dr G N Ubhayakar, St George's Hospital, London*
- 0920 Ultrasound-guided cutting needle biopsy in thyroid nodules: complementary to fine needle aspiration cytology *Dr N J Screaton, Addenbrooke's Hospital, Cambridge*
- 0930 Direct puncture ethanol embolization in the management of superficial vascular malformations *Dr J J Bhattacharya, Southern General Hospital, Glasgow*
- 0940 Discussion

**STUDIES IN VASCULAR RADIOLOGY
Hall 6 1000–1200**

Chairman: Dr A K Banerjee

- 1000 Translumbar aortography—a 10 year review *Dr G J Robinson, St Michael's Hospital, Toronto, CANADA*
- 1010 Transradial arteriography—a case for its routine use *Dr R A Carver, Bromley Hospitals NHS Trust, Bromley*
- 1020 Toxic erythema following administration of iodixanol (Visipaque) for arteriography *Dr A A McCafferty, Victoria Infirmary, Glasgow*
- 1030 Treatment of iatrogenic pseudoaneurysm with percutaneous ultrasound-guided thrombin injection *Dr T Sabharwal, Hammersmith Hospital, London*
- 1040 Endovascular stent-graft management of complex thoracic aortic disease *Dr T Sabharwal, Guy's Hospital, London*
- 1050 “Push and park”: an alternative strategy for management of arterial embolism *Dr A P Higginson, Leicester Royal Infirmary, Leicester*
- 1100 Experience and follow-up of aortic side branch embolization in abdominal aortic aneurysm endovascular repair *Dr A Anbarasu, Royal Liverpool University Hospital, Liverpool*
- 1110 The role of chest radiography following subclavian vein catheter insertion for ambulatory chemotherapy *Dr P R Burn, Chelsea & Westminster Hospital, London*

- 1120 Tunnelled central venous catheters: correlation between line tip position and complications *Dr A E Mills, The Royal Bolton Hospital, Bolton*
- 1130 An audit of the D-Dimer test in the investigation of deep venous thrombosis *Dr W A Munro, Eastbourne District General Hospital, Eastbourne*
- 1140 Single-scan instant access DVT imaging with ultrasound *Dr T Hall, St Georges Hospital, London*
- 1150 Discussion

**STUDIES IN GASTROINTESTINAL IMAGING
Hall 6 1215–1345**

Chairman: Dr A Grundy

- 1215 Optimization of scanning parameter for spiral CT pneumocolon *Dr N Power, The Royal London Hospital, London*
- 1225 The therapeutic impact of abdominal ultrasound in patients with acute abdominal symptoms *Dr S Dhillon, Northwick Park & St Mark's Hospitals, Harrow*
- 1235 Small intestine blood flow in man: the effects of age and caloric loading *Dr P A Spencer, Rotherham District General Hospital, Rotherham*
- 1245 The therapeutic impact of CT in patients with acute abdominal symptoms *Dr V J Goh, Northwick Park & St Marks NHS Trust, Harrow*
- 1255 Ileoscopy marches on! Is it time the barium radiologist found something better to do? *Dr G T Rottenberg, St Thomas's Hospital, London*
- 1305 A new technique for diagnosing upper gastrointestinal anastomotic leaks *Dr J Cox, Royal Victoria Infirmary, Newcastle Upon Tyne*
- 1315 How reliable are measurements taken during defaecating proctography? *Dr S H Lee, Manchester Royal Infirmary, Manchester*
- 1325 Contrast media for radiological evaluation of perforation from the gastrointestinal tract: an experimental and clinical study *Dr A Z Ginai, University Hospital Dijkzigt and Erasmus University, Rotterdam, THE NETHERLANDS*
- 1335 Discussion

**STUDIES IN MRI
Hall 6 1400–1500**

Chairman: Dr S C P Bleas

- 1400 Calculating diagnostic performance from categorical data: observations from a systematic review of MR angiography *Dr M E Westwood, University of Leeds, Leeds*
- 1410 A prospective study of CT angiography and MR angiography vs DSA in the detection of intracranial aneurysms *Dr P M White, Western General Hospital, Edinburgh*
- 1420 High resolution *in vivo* MRI of carotid atheroma *Mr M J Graves, Addenbrookes Hospital, Cambridge*
- 1430 Evaluation of the safety and efficacy of gadobenate dimeglumine in MRI of CNS metastatic disease *Prof G Cherryman, University of Leicester at Leicester Royal Infirmary, Leicester*

1440 Observations on the interaction between paramagnetic contrast media and the myometrium *Mr A van Tulleken, University of Oxford, Oxford*

1450 Breath-hold MRI diagnosis of arrhythmogenic right ventricular dysplasia *Miss I Joubert, Addenbrookes Hospital, Cambridge*

STUDIES IN MR TECHNOLOGY

Hall 6 1515-1645

Chairman: *Prof I R Young*

1515 Development of a combined functional MRI and optical imaging system *Dr M N Paley, University of Sheffield, Sheffield*

1525 An MR compatible endoscope with interchangeable inductively coupled receiver coil and tip tracking facility *Dr D J Gilderdale, Robert Steiner Resonance Unit, London*

1535 An array that exploits phase for SENSE imaging *Prof J V Hajnal, Robert Steiner Resonance Unit, London*

1545 Increasing temporal resolution in dynamic gadolinium enhanced breast imaging using SENSE *Dr D J Larkman, Robert Steiner Resonance Unit, London*

1555 A prototype open breast coil and intervention device for MRI *Dr G P Liney, Hull Royal Infirmary, Hull*

1605 Development of an RF model for evaluating hazards during interventional MRI *Prof I R Young, Robert Steiner Resonance Unit, London*

1615 The use of echo planar imaging to obtain apparent diffusion coefficients for different tissues within the prostate *Mr D J Tozer, University of Hull at Hull Royal Infirmary, Hull*

1625 Inner volume 2D blood-suppressed cardiac MRI *Mr M J Graves, University of Cambridge, Cambridge*

1635 Discussion

Wednesday 24 May 2000

STUDIES IN ONCOLOGICAL IMAGING

Hall 6 0830-1015

Chairman: *Dr B M Carrington*

0830 Setting standards of oncological radiology in the North West of England *Dr B M Carrington, Christie Hospital NHS Trust, Manchester*

0840 CT and oncology—a cause for concern? *Mrs L M Clarkson, St James University Hospital, Leeds*

0850 FDG PET in the evaluation of treatment response of oesophageal cancer *Dr A Hassan, Harefield Hospital, Uxbridge*

0900 Experience with laparoscopic ultrasound for defining resectability of pancreatic head and periampullary carcinoma *Dr A M Taylor, University Hospital Wales, Cardiff*

0910 Reduced dose SPIO for the detection of colorectal liver metastases *Mrs J Ward, St James University Hospital, Leeds*

0920 The detection of small focal liver lesions using helical CT: the value of overlapping slices *Mr P M Arnold, St James University Hospital, Leeds*

0930 MRI in advanced cervical carcinoma: correlation of stage, tumour size and lymph node distribution *Dr M B Taylor, Christie Hospital NHS Trust, Manchester*

0940 The role of MRI in the follow-up of brachial plexopathy in patients with malignancy *Dr P L Scott-Mackie, The Royal Marsden NHS Trust Hospital, Sutton*

0950 MRI of malignant mesothelioma: preliminary results *Dr F Alaeddin, Glenfield Hospital, Leicester*

1000 Effect of osteosarcoma on systemic blood flow *Dr J F Griffith, Prince of Wales Hospital, Shatin, HONG KONG*

1010 Discussion

STUDIES IN BREAST IMAGING

Hall 6 1030-1245

Chairman: *Dr C Boggis*

1030 The contribution played by imaging in the diagnosis of breast cancer *Ms J Patton, North Tees General Hospital, Stockton-on-Tees*

1040 Digital, computer-assisted stereotactic biopsy, a newly developed holder for vacuum biopsy (Mammotome) at the Mammomat 3000 *Dr U Aichinger, Institut für Diagnostische Radiologie, Erlangen, GERMANY*

1050 Can radiographer film readers contribute effectively in double reading screening mammograms? *Mrs S M Naylor, Nottingham City Hospital, Nottingham*

1100 Observer variability in detecting cancers with 1 and 2 views during incident screening *Dr R M Given-Wilson, South West London Breast Screening Service, London*

1110 UK survey of 4th and 5th year specialist registrars' attitudes to careers in breast radiology *Dr P J Cantrell, Taunton & Somerset NHS Trust, Taunton*

1120 Evaluation of mammography in males by BI-RADS *Dr K Bock, Philipps-University, Marburg, GERMANY*

1130 The role of ultrasound-guided core biopsy in the cytology-led one-stop breast clinic *Dr V J Goh, Northwick Park & St Marks NHS Trust, Harrow*

1140 Beware of sensitive articles. An audit of popular magazines in the Breast Care Unit waiting room *Dr N T Ridley, Princess Margaret Hospital, Swindon*

1150 Radioguided occult lesion localization (ROLL)—a new method for locating impalpable breast lesions at surgery *Dr M J C Bagnall, Nottingham City Hospital, Nottingham*

1200 Combined use of isotope and methylene blue dye in sentinel lymph node mapping *Dr A Connors, Cork University Hospital, Wilton, Ireland*

1210 Upright digital stereotactic vacuum-assisted mamotomy using the lateral approach *Dr A R Wilson, Breast Unit, Nottingham City Hospital, Nottingham*

1220 Excision of breast fibroadenomas using ultrasound-guided vacuum-assisted mamotomy—initial experience *Dr A R Wilson, Breast Unit, Nottingham City Hospital, Nottingham*

- 1230 Comparative technical evaluation and its influence on the purchase of ultrasound equipment for breast screening centres *Ms A J Watson, Ultrasound Equipment Evaluation Project, Glasgow*
- 1240 Discussion

STUDIES IN THE FACE, NECK & CRANIUM
Hall 6 1345-1515

Chairman: Dr J Olliff

- 1345 MRI as a first line investigation of salivary disease in primary care *Dr S J Golding, University of Oxford, Oxford*
- 1355 High resolution CT in patients with vertigo following stapes surgery *Dr D Pickuth, Martin-Luther-Universität, Halle, GERMANY*
- 1405 Parathyroid adenomas: ⁹⁹Tc^m sestamibi dual phase SPECT imaging concordance with ultrasound *Dr I S Francis, Royal Free Hospital, London*
- 1415 Spiral CT prior to and after cricothyroid approximation *Dr D Pickuth, Martin-Luther-Universität, Halle, GERMANY*
- 1425 Cavernous sinus thrombosis—which radiological test should we choose? *Dr V K Jayakrishnan, Southern General Hospital, Glasgow*
- 1435 Endovascular treatment of indirect carotico-cavernous fistulae *Dr D J Annesley-Williams, Newcastle General Hospital, Newcastle upon Tyne*
- 1445 Coil vs clip: does this influence delayed ischaemic neurological deficit following subarachnoid haemorrhage? *Dr P P Raju, Newcastle General Hospital, Newcastle*
- 1455 Cerebral perfusion studies in cerebral venous sinus thrombosis *Dr S C Jenkins, Institute of Neurological Sciences, Glasgow*
- 1505 Ultrafast MRI of the fetal central nervous system *Dr E H Whitby, Royal Hallamshire Hospital, Sheffield*

STUDIES IN GENITOURINARY RADIOLOGY
Hall 6 1530-1700

Chairman: Dr M Kellett

- 1530 Diagnosing renal artery stenosis by use of MRI—a meta-analysis *Dr K T Tan, Royal Hallamshire Hospital, Sheffield*
- 1540 Prospective comparative assessment of non-invasive screening modalities for renal artery stenosis *Dr C S Boyd, Royal Victoria Hospital, Belfast*
- 1550 Investigation of live renal transplant donors: a comparison of gadolinium enhanced MRA/MRU with DSA/IVU *Dr S A Cooper, The Royal Orthopaedic Hospital, Birmingham*
- 1600 Comparison of unenhanced low dose helical CT and intravenous urography in suspected renal colic *Dr D J Connolly, Stoke Mandeville Hospital, Aylesbury*
- 1610 Hysterosalpingography in infertility: an analysis of 1056 consecutive cases *Prof A P Hemingway, Hammersmith Hospitals NHS Trust, London*
- 1620 Uterine arterial embolization for leiomyomas: monitoring immediate and late volume and perfusion changes with MRI *Dr N M deSouza, Robert Steiner Magnetic Resonance Unit, London*

- 1630 Embolization of residual uterine vascular malformations in patients with gestational trophoblastic disease *Dr A K Lim, Charing Cross Hospital, London*
- 1640 MR assessment of dynamic contrast uptake characteristics of normal ovaries using a 2-compartment pharmacokinetic model *Dr G H Hall, Hull Royal Infirmary, Hull*
- 1650 Giant adnexal tumours: CT features, correlation with surgical pathology and patient outcome *Dr J Foster, St James University Hospital, Leeds*

WORKSHOPS

UNDERSTANDING THE CANCER PATIENT: HOW THE PATIENT PERCEIVES YOU AND THE DEPARTMENT

Ms S Crowe, Oxon

Ms M Griffiths and Ms G Woods, Cancer Support

Monday 22 May 2000

1000-1200

Tuesday 23 May 2000

1000-1200

TIME MANAGEMENT—HOW TO SURVIVE THE INCREASE IN PRESSURE

Mr J McIlree, Merck

Monday 22 May 2000

1000-1200

Tuesday 23 May 2000

1000-1200/1400-1600

Wednesday 24 May 2000

1000-1200

ATL HANDS ON ULTRASOUND ESSENTIAL SKILLS WORKSHOP

Monday 22 May 2000

Small Parts, Breast & Vascular Imaging Dr K Dewbury,

Southampton General Infirmary, Southampton

1000-1200/1400-1600

Tuesday 23 May 2000

General Abdominal & Lower Limbs Dr G Baxter,

Western Infirmary, Glasgow

1000-1200/1400-1600

Wednesday 24 May 2000

Musculoskeletal & Sports Injury Imaging Prof W

Gibbon, Leeds General Infirmary, Leeds

1000-1200

CREATING COMPUTER PRESENTATIONS

Mrs C Westbrook, Health South (UK) plc., Witney

Mr J Talbot, Oxford MRI Centre, Oxford

Dr R Whitehouse, Manchester Royal Infirmary,

Manchester

Mr M Tatlow, South Bank University, London

Monday 22 May 2000

1000-1230/1400-1630

Tuesday 23 May 2000

1000-1230/1400-1630

Wednesday 24 May 2000

1000-1230

Separate registration is obligatory. Admission to these workshops is by ticket only.

It may be possible to obtain tickets for some of these workshops from the IOS Secretariat Office in the Congress registration area.