

PROGRAM-AT-A-GLANCE

SATURDAY, 21 APRIL 2001

MR Spectroscopy: Clinical Applications and Research Frontiers– Day 1	Neuroimaging – Day 1	Cardiac MRI: Innovations and Advances	MR Imaging of Musculoskeletal Trauma	Clinical Bootcamp for Physicists and Engineers
08:00 to 17:00 Hall 1	08:00 to 17:00 Lomond	08:00 to 17:40 Hall 2	08:00 to 17:30 Hall 5	08:00 to 17:30 Forth
SMRT-BAMRR Technologist Program – Day 1 07:50 to 17:00 Argyll (Moat House)				

SUNDAY, 22 APRIL 2001

MR Spectroscopy: Clinical Applications and Research Frontiers – Day 2	Neuroimaging – Day 2	MR Physics for Physicists	Magnetic Resonance Angiography	Advanced Body MRI
08:00 to 15:00 Hall 1	08:00 to 15:00 Lomond	08:00 to 15:00 Forth	08:30 to 17:30 Hall 2	08:00 to 17:10 Hall 5
SMRT-BAMRR Technologist Program – Day 2 08:20 to 17:00 Argyll (Moat House)				
STUDY GROUPS				
Cardiac MR		White Matter Diseases		
15:30 to 17:30 Lomond		15:30 to 17:30 Hall 1		

SCIENTIFIC PROGRAM OVERALL OBJECTIVES

Monday, 23 April – Friday, 27 April

Educational Objectives:

Upon completion of the Scientific Meeting, participants should be able to:

- ~ Identify new findings in magnetic resonance imaging and spectroscopy most relevant to their own fields;
- ~ Explain the diagnostic and biomedical impact of newly developed methods in MRI and MRS;
- ~ Describe possible future trends and developments in MRI, MRS and MR contrast agents and evaluate the possible impact of these trends and developments on their own diagnostic, clinical, and scientific work in the future;
- ~ Assess the state of the art in MR image and spectra acquisition and interpretation;
- ~ Describe the clinical indications and imaging findings for applications of MRI in the brain, body, cardiovascular and musculoskeletal systems.

MONDAY, 23 APRIL 2001

07:45 **WELCOME and Medal Presentations**

Robert R. Edelman, President, ISMRM

Carlo Bartolozzi, President, ESMRMB

08:20 **FIFTH ANNUAL LAUTERBUR LECTURE:**

From the Genome to Molecular Imaging: Dream or Reality?, *George K. Radda*

PLENARY LECTURES: New Contrast Agents

09:00: Imaging Fluorescent Probes in Living Cells, Tissues, and Animals, *Stephen R. Adams*

09:25: Affinity Targeted Contrast Agents, *Samuel A. Wickline*

09:50: Seeing is Believing: Visualizing *In Vivo* Gene Expression and Secondary Messengers by MRI, *Thomas J. Meade*

Clyde Auditorium

10:15 - 11:00

COFFEE BREAK

11:00 - 13:00

ORAL SESSIONS AND CLINICAL CATEGORICAL

Image Re-construction Methods	RF Coil Design and Applications	<i>Clinical Categorical: Cardiac MR Imaging</i>	fMRI Data Analysis	MR Imaging of Articular Cartilage	Peripheral MR Angiography Techniques	New MR Contrast Agents and Applications
Clyde	Lomond	Hall 2	Hall 5	Hall 1	Forth	Alsh

13:00- 14:00

LUNCH – GOLD CORPORATE MEMBER LUNCHTIME SYMPOSIUM

Argyll (Moat House)

Nycomed Amersham

“Quantitative Perfusion Weighted MRI: Current Clinical Trends and Future Perspectives”

14:00- 16:00

POSTER SESSION, SYMPOSIUM, CLINICAL FOCUS SESSIONS, & BASIC SCIENCE FOCUS SESSIONS

Poster Session	<i>Clinical Focus Session: Peripheral MR Angiography</i>	<i>Basic Science Focus Session: Artifact Reduction</i>	<i>Basic Science Focus Session: GABA Measurements in Humans & Animals</i>	Hot Topics for Clinical Practice	<i>Clinical Focus Session: Cartilage and Other Musculoskeletal MR Imaging</i>	<i>Basic Science Focus Session: RF Coils and Analysis</i>	<i>Clinical Focus Session: Head & Neck and Brain Imaging</i>
Hall 4	Clyde	Lomond	Hall 2	Hall 5	Hall 1	Forth	Alsh

16:00 - 16:30

COFFEE BREAK

16:30 - 18:30

ORAL SESSIONS AND EDUCATIONAL COURSE

Perfusion Methodology	Fast Cardiac Imaging	MR Physics and Techniques for Clinicians	Image Processing: Brain	Functional MRI of Spine and Muscle	Tumor Response Assessment	MR Imaging of Multiple Sclerosis
Clyde	Lomond	Hall 2	Hall 5	Hall 1	Forth	Alsh

18:30 - 20:00

BRONZE CORPORATE MEMBER SYMPOSIA

Bracco <i>“Toward Improved Contrast Enhancement in MR Imaging of the CNS”</i>	Bruker Medical, Inc. <i>“High Field MRI Studies of Brain Injury”</i>	Schering AG <i>“Challenges in MRI”</i>
Hall 5	Lomond	Hall 2

19:30 - 21:30

STUDY GROUPS

Dynamic NMR Spectroscopy	MR Engineering	MR of Cancer	MR Imaging Efficacy and Effectiveness
Alsh	Forth	Hall 1	Boisdale

WEDNESDAY, 25 APRIL 2001

07:00 - 08:00 Morning Categorical Courses:							
<p align="center">Emerging Body MRI Applications, Hall 1 High Field Imaging, Spectroscopy, and fMRI, Hall 2 fMRI: What Can We Measure?, Hall 5 Imaging in Sports Medicine, Lomond Image Reconstruction, Forth</p>							
PLENARY LECTURES: MR and Aging							
08:15: The Aging Population – A Challenge to MRI?, <i>Adrian Dixon</i>							
08:40: The Aging Brain, <i>Nicholas C. Fox</i>							
09:05: The Aging Body, <i>Robert J. Herfkens</i>							
Clyde Auditorium							
09:30 - 10:30 ESMRMB BUSINESS MEETING							
09:30 - 10:30 COFFEE BREAK							
10:30 - 12:30 ORAL SESSIONS AND CLINICAL CATEGORICALS							
fMRI: Noise Processes and Signal Recovery	Animal Brain MRI: New Tricks of the Trade	<i>Clinical Categorical:</i> Cardiac MR Imaging	<i>Clinical Categorical:</i> Marrow MR Imaging	Renal and Prostate MR Imaging	Flow Quantification	MR Spectroscopy in Neuropsychiatric Disorders	
Clyde	Lomond	Hall 2	Hall 5	Hall 1	Forth	Alsh	
12:30 - 13:30 LUNCH – GOLD CORPORATE MEMBER LUNCHTIME SYMPOSIUM							
Argyll (Moat House) Siemens Medical Systems, Inc. "High Performance MRI"							
13:30 - 15:30 POSTER SESSION, CLINICAL FOCUS SESSIONS, & BASIC SCIENCE FOCUS SESSIONS							
Poster Session	<i>Basic Science Focus Session:</i> Spectral Quantification	<i>Clinical Focus Session:</i> Clinical MR Angiography	<i>Basic Science Focus Session:</i> Data Processing Issues in fMRI	<i>Clinical Focus Session:</i> Pediatric Neuro MR Imaging	<i>Clinical Focus Session:</i> Body MR Imaging: MRCP	<i>Basic Science Focus Session:</i> MRI Safety and Bioeffects	<i>Clinical Focus Session:</i> Imaging in Psychiatry
Hall 4	Clyde	Lomond	Hall 2	Hall 5	Hall 1	Forth	Alsh
15:30 - 16:00 COFFEE BREAK							
16:00 - 18:00 ORAL SESSIONS AND EDUCATIONAL COURSE							
Rapid Imaging	Myocardial Tagging and Hemodynamics	MR Physics and Techniques for Clinicians	Animal Brain MR Imaging: Ischemia and Infarction	MRS of White Matter and Degenerative Diseases	Tumor Anti-Vascular Therapy	MR Spectroscopy of Animal Brain	
Clyde	Lomond	Hall 2	Hall 5	Hall 1	Forth	Alsh	
18:15 - 19:15 Hall 2 ISMRM BUSINESS MEETING							
19:30 - 21:30 STUDY GROUPS							
MR Flow and Motion Quantitation	MR in Drug Research	Interventional MR	Hyperpolarized Noble Gas MR				
Hall 5	Alsh	Hall 1	Forth				

THURSDAY, 26 APRIL 2001

07:00 - 08:00 Morning Categorical Courses:						
<p align="center">Emerging Body MRI Applications, Hall 1 High Field Imaging, Spectroscopy, and fMRI, Hall 2 fMRI: What Can We Measure?, Hall 5 Imaging in Sports Medicine, Lomond Image Reconstruction, Forth</p>						
PLENARY LECTURES: Multinuclear MR						
08:15: High Field Multinuclear MRS: The Challenge is Paying Off, <i>Michael Garwood</i>						
08:40: Multinuclear Studies on Metabolism in Disease, <i>Douglas L. Rothman</i>						
09:05: Hyperpolarized Gas Methods in the Clinic, <i>Hans-Ulrich Kauczor</i>						
Clyde Auditorium						
09:30 - 10:30 COFFEE BREAK						
10:30 - 12:30 ORAL SESSIONS AND CLINICAL CATEGORICALS						
Diffusion Analysis Methods	Myocardial Perfusion and Coronary MR Angiography	<i>Clinical Categorical:</i> Breast MR Imaging	<i>Clinical Categorical:</i> Brain MR Spectroscopy	Relaxometry and Contrast Mechanisms	fMRI: Clinical Aspects	Vascular Intervention and Device Tracking
Clyde	Lomond	Hall 2	Hall 5	Hall 1	Forth	Alsh
12:30 - 13:30 LUNCH – GOLD CORPORATE MEMBER LUNCHTIME SYMPOSIUM						
Argyll (Moat House) GE Medical Systems						
13:30 - 15:30 POSTER SESSION, CLINICAL FOCUS SESSIONS, & BASIC SCIENCE FOCUS SESSIONS						
Poster Session	<i>Basic Science Focus Session:</i> Rapid Imaging	<i>Clinical Focus Session:</i> MRS in Neurologic and Psychiatric Diseases	<i>Clinical Focus Session:</i> Breast MR Imaging	<i>Clinical Focus Session:</i> Pediatric MR Spectroscopy	<i>Clinical Focus Session:</i> MR Imaging of Female Pelvis	<i>Basic Science Focus Session:</i> Intraoperative and Miscellaneous Interventional MR Imaging
Hall 4	Clyde	Lomond	Hall 2	Hall 5	Hall 1	Forth
15:30 - 16:00 COFFEE BREAK						
16:00 - 18:00 ORAL SESSIONS AND EDUCATIONAL COURSE						
Imaging Processing: Cardiac and Vascular	Magnets, Gradients, and Shims	MR Physics and Techniques for Clinicians	Spectroscopy Localization and Methodology	Tumor Perfusion and Oxygenation	Vessel Wall MR Imaging	fMRI: Animal Models
Clyde	Lomond	Hall 2	Hall 5	Hall 1	Forth	Alsh
18:15 - 20:00 RECEPTION						

FRIDAY, 27 APRIL 2001

07:00 - 08:00 Morning Categorical Courses:						
<p align="right"> Emerging Body MRI Applications, Hall 1 High Field Imaging, Spectroscopy, and fMRI, Hall 2 fMRI: What Can We Measure?, Hall 5 Imaging in Sports Medicine, Lomond Image Reconstruction, Forth </p>						
PLENARY LECTURES: Current and Future Roles for fMRI						
08:15: Mapping Task-Induced Changes in Cerebral Oxygen Metabolism, <i>Richard Hoge</i>						
08:40: Clinical Applications of fMRI: Bold Claim or Reality?, <i>Keith R. Thulborn</i>						
09:05: Advancing Our Knowledge of Brain Function and Structure, <i>Karl Zilles Clyde</i>						
09:30 - 10:30 COFFEE BREAK						
10:30 - 12:30 ORAL SESSIONS						
fMRI: Neuro-physiology and Cognitive Science	Animal Brain: A Potpourri	Other MR Imaging Sequences	RF Methods and Modeling	Body MR Imaging: <i>Ex Vivo</i> and Animal Models	Cardiac MR Spectroscopy: Preclinical and Clinical	The Tumor Micro-environment
Clyde	Lomond	Hall 2	Hall 5	Hall 1	Forth	Alsh
12:30 ADJOURNMENT						