

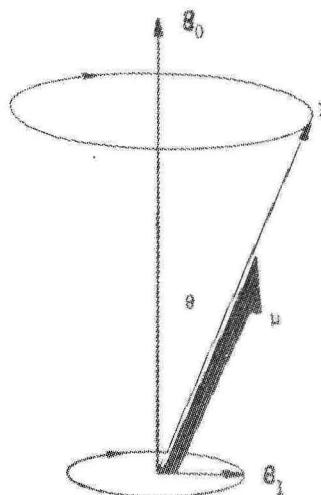


SOCIETY FOR MAGNETIC RESONANCE IMAGING

FIRST ANNUAL MEETING

February 14-18, 1983

The Broadmoor
Colorado Springs, Colorado



MEETING ORGANIZERS

Sharad R. Amtey, *Editor-in-Chief, MRI*
Richard J. Burk, Jr., *Executive Director*

CALL FOR PAPERS
REGISTRATION
APPLICATION FOR MEMBERSHIP

SCIENTIFIC PROGRAM COMMITTEE

Chairman: R. Nick Bryan, MD, PhD, Baylor College of Medicine, Houston, TX

Co-Chairmen: Sharad R. Amtey, PhD, LLB, UTMSH, Houston, TX
M. Robert Willcott, PhD, University of Houston, TX

Committee Members:

Paul Bottomley, PhD, General Electric Company, Schenectady, NY
Margaret A. Foster, PhD, University of Aberdeen-Aberdeen Royal
Infirmiry, Scotland

Carlton Hazlewood, PhD, Baylor College of Medicine, Houston, TX
Waylon V. House, PhD, Intermagnetics General Corporation,
Guilderland, NY

James Hutchison, PhD, University of Aberdeen-Aberdeen Royal
Infirmiry, Scotland

Edmund Kim, MD, UTMSH, Houston, TX

Lawrence A. Minkoff, PhD, FONAR Corporation, Melville, NY

Ray L. Nunnally, PhD, University of Texas Health Science
Center at Dallas, TX

Francis W. Smith, MB, ChB, Aberdeen Royal Infirmiry, Scotland

PARTIAL LISTING OF FACULTY

Sharad R. Amtey, PhD, UTMSH, Houston, TX

Paula T. Beall, PhD, Baylor College of Medicine, Houston, TX

Thomas H. Berquist, MD, Mayo Clinic, Rochester, MN

Paul Bottomley, PhD, General Electric Company, Schenectady, NY

R. Nick Bryan, MD, PhD, Baylor College of Medicine, Houston, TX

Robert Dixon, PhD, Bowman Gray School of Medicine, Wake Forest University,
Winston-Salem, NC

William A. Edelstein, PhD, General Electric R & D Center, Schenectady, NY

Margaret A. Foster, PhD, University of Aberdeen-Aberdeen Royal Infirmiry,
Scotland

Gary Fullerton, PhD, University of Texas Health Science Center, San Antonio, TX

John C. Gore, PhD, Yale University, New Haven, CT

Joel E. Gray, PhD, Mayo Clinic, Rochester, MN

Carlton Hazlewood, PhD, Baylor College of Medicine, Houston, TX

Waylon V. House, PhD, Intermagnetics General Corporation, Guilderland, NY

James Hutchison, PhD, University of Aberdeen-Aberdeen Royal Infirmiry, Scotland

S. R. Kasturi, PhD, Tata Institute of Fundamental Research, Bombay, India

Andrew L. Luiten, PhD, Philips Medical Systems Division, Eindhoven, The
Netherlands

Ray L. Nunnally, PhD, The University of Texas Health Science Center, Dallas, TX

F. David Rollo, PhD, MD, Vanderbilt University, Nashville, TN, and Humana,
Inc., Louisville, KY

Ronald J. Ross, MD, Diagnostic Imaging Associates, Mayfield Heights, OH

Katherine N. Scott, PhD, University of Florida, Gainesville, FL

Francis W. Smith, MB, ChB, Aberdeen Royal Infirmiry, Scotland

Luis E. Todd, MD, University of Nuevo Leon School of Medicine,
Monterrey, Nuevo Leon, Mexico

M. Robert Willcott, PhD, University of Houston, TX

PROGRAM CONTENT

The Society for Magnetic Resonance Imaging (SMRI) will hold its First Annual Meeting at the Broadmoor Hotel, Colorado Springs, Colorado, from the evening of February 14 through 12 Noon February 18, 1983.

The main emphasis of the meeting, as in the case of the last two Workshops in Houston, Texas, will be on education. The basic principles and clinical applications of NMR will be comprehensively taught. During the first part of the mornings, the lectures will be especially designed for physicians and will cover introductory basic science and clinical applications of NMR. In the afternoons, the lectures will be of intermediate to advanced level so that participants who have had an introduction to the subject of NMR Imaging may benefit further. On Tuesday and Thursday evenings informal small group discussions and demonstrations (Tutorials) will be held.

LOCATION

The Broadmoor is a grand resort hotel reminiscent of the finest European traditions. It has received the coveted Mobil 5-Star rating for every year since 1960, and has a reputation as an elder statesman of grand resort hotels.

There are five unique world-famous restaurants in the three differently styled and decorated hotel buildings (Main, South and West). There are also snack bars, lounges and the Golden Bee, an authentic English Pub.

In addition to the dining possibilities at the Broadmoor, there is golf, tennis, swimming (including scuba lessons), skiing, squash, skeet and trap, bicycle and boat rentals, ice skating and a theater.

A block of rooms has been reserved at the Broadmoor at special convention rates. When your registration is received by the SMRI Secretariat a hotel reservation packet will be sent to you. Please make your reservation directly. Please note that deadline for reservations is January 14, 1983, a one night's room rental deposit will be required, and that the hotel does not accept ANY credit cards. Personal checks, however, will be accepted.

REGISTRATION

Early registration is strongly recommended to enroll in the desired Tutorials. The fee, as shown below, includes tuition, coffee breaks, social events, syllabus and complete course notes.

REGISTRATION FEES:	<u>BY 12/31/82</u>	<u>AFTER 12/31/82</u>
Full Member of SMRI	\$260.00	\$310.00
Student & Technologist Members of SMRI	\$130.00	\$150.00
Non-Members, Professionals	\$310.00	\$360.00
Non-Members, Students & Technologists	\$150.00	\$170.00

REFUNDS

A fee of \$30.00 will be charged on ALL CANCELLATIONS. Any cancellation and request for refund must be submitted in writing and received BY THE BETHESDA SECRETARIAT of SMRI by February 4, 1983. No refunds will be made if the cancellation is received after February 4, 1983.

CALL FOR PAPERS & SCIENTIFIC POSTER EXHIBITS

Papers on the subject of applications of NMR and ESR in medicine and biology are invited for twelve minute presentations during the contributed paper sections. The topics of special interest include *site planning for NMR imagers, NMR instrumentation, clinical applications of NMR imaging, NMR image quality and evaluation, in-vitro NMR studies, bio-hazards of NMR, comparative studies, flow measurements, spectroscopy, computer applications, etc.*

The deadline for submission of abstracts is December 31, 1982. Accepted abstracts will be published in the Journal of Magnetic Resonance Imaging. Judges will determine the best contributed paper on the basis of its content and presentation. A single award of one thousand (\$1,000) for research support will be given to the author(s) of the best judged paper.

Scientific poster exhibits on the same subjects are also invited. These will also be judged by a committee and a single award of one thousand dollars (\$1,000) for research support will be given to the author(s) of the best poster exhibit. The area for these poster exhibits will be available at no cost to the authors. You must request space and submit an abstract by the December 31, 1982 deadline. The poster exhibit must be put up and taken down by the author(s).

All abstracts -- those for the contributed paper sections as well as for the scientific poster exhibits -- must follow the following format:

TYPING INSTRUCTIONS FOR ALL ABSTRACTS

1. Use an electric typewriter with a black poly carbon ribbon.
2. Use the Letter Gothic typeface if possible.
3. Use special blueline typing sheets available from the SMRI Secretariat (4720 Montgomery Lane, Suite 506, Bethesda, MD 20814 - 301-654-3080), or follow directions exactly as described below:

Typing area is 9 $\frac{1}{4}$ " wide by 6-7/8" deep. Do not exceed these dimensions. The width is 93 pica (10 pitch) characters or 111 elite (12 pitch) characters. The depth is 42 lines.
5. All typing must be within the blue lines or the dimensions noted above.
6. Begin typing the Abstract title FLUSH LEFT at the top in ALL CAPITAL LETTERS. Double space to (#7)...
7. Type Author Name(s) using Capital and lowercase letters. Double space to (#8)...
8. Type affiliations for all authors. Double space to (#9)...
9. Begin the abstract FLUSH LEFT and continue up to the right margin, but not going over it. Edit your abstract to fit a maximum of 42 lines overall. Indent 5 spaces without double space for any new paragraph.
10. To make corrections: (a) use self-correcting typewriter, provided it results in a clean correction; (b) use white correction tape, being sure to align properly and not type over the edges; or (c) use white correction fluid, but only if neatly applied and not flaky. Major corrections should be entirely retyped for neatness.

THE TITLE OF YOUR ABSTRACT SHOULD BEGIN HERE, AND SHOULD BE IN ALL CAPITAL LETTERS - PLEASE READ THIS ENTIRE SAMPLE ABSTRACT FORM.

C. F. Hazlewood, W. S. Yamanashi, R. A. Rangel, and L. E. Todd

Department of Physiology, Baylor College of Medicine, Houston, TX 77030, USA, and Metabolic & NMR Unit, University of Nuevo Leon School of Medicine, Monterrey, Nuevo Leon, Mexico

The first paragraph of your abstract should begin flush left and should go as close to the right margin as possible without going over the line.

Additional paragraphs should be indented five spaces without double spacing between paragraphs. Again, each line of your abstract should come as close as possible to the right margin to enable you to fit the maximum number of words in your abstract.

If you do not request a blue line form and wish to make your own, it would perhaps be best to make a box of the appropriate dimensions on a piece of paper which you use as a backing sheet for the piece of bond paper on which the abstract will actually be typed. AS ABSTRACTS ARE PHOTOREPRODUCED, THEY CANNOT BE TYPED WITHIN A BOX MADE OF BLACK LINES.

NOTE: THIS SAMPLE ABSTRACT
IS INTENDED TO SHOW
FORMAT, NOT SIZE.

PROGRAM

1st ANNUAL MEETING - SOCIETY FOR MAGNETIC RESONANCE IMAGING

Monday, February 14, 1983

4:00 - 11:00 pm

Registration

6:30 - 8:00 pm

Meet the Faculty Social

Tuesday, February 15, 1983

8:00 - 10:30 am

Introductory Lectures

I-1. Introduction to Clinical NMR

I-2. Basic NMR Physics

I-3. Principles of NMR Imaging

11:00 am - 12:30 pm

Contributed Papers Session

2:00 - 4:00 pm

Advanced Lectures

A-1. Magnetic Relaxation in Tissue

A-2. Nuclear Magnetism Pertinent to Imaging

8:00 - 9:00 pm

Tutorials

T-1. Physics

T-2. Instrumentation

T-3. Measurement of Relaxation Times

T-4. Hazards in the Use of NMR

T-5. Clinical Applications

Wednesday, February 16, 1983

8:00 - 10:30 am

Introductory Lectures

I-4. Comparison of Imaging Techniques

I-5. Clinical Studies - Head - Part I

I-6. Clinical Studies - Head - Part II

11:00 am - 12:30 pm

Contributed Papers Session

2:00 - 4:00 pm

Advanced Lectures

A-3. Signal to Noise in NMR Imaging

A-4. Hardware Considerations in NMR Imaging

4:00 pm

Business Meeting

7:00 pm

Social Mixer and Banquet

The Program for Thursday and Friday morning on the following page...

PROGRAM, continued

Thursday, February 17, 1983

8:00 - 10:30 am

Introductory Lectures

I-7. In-Vitro NMR

I-8. Clinical Studies - Body

I-9. Topical Magnetic Resonance

11:00 am - 12:30 pm

Contributed Papers Session

12:45 - 2:30 pm

AWARDS LUNCHEON

3:00 - 5:00 pm

Advanced Lectures

A-5. Conceptual Problems in NMR Imaging

A-6. Clinical NMR Spectroscopy

8:00 - 9:00 pm

Tutorials

T-6. Teaching NMR Principles to Physicians

T-7. Measurement of Relaxation Times

T-8. Handling of Biological Samples

T-9. Phantoms and Quality Control

T-10. Clinical Applications

Friday, February 18, 1983

8:00 - 10:30 am

Introductory Lectures

I-10. Site Planning and Regulatory Issues

I-11. Clinical Results - Heart

I-12. Clinical Results - Summary

11:00 am - 12:00 Noon

Panel Discussion

TOPIC: Place of NMR in Diagnostic Imaging

12:00 Noon

Adjournment

THE SOCIETY FOR MAGNETIC RESONANCE IMAGING

Application for CHARTER MEMBERSHIP

The Society for Magnetic Resonance Imaging is an organization whose purpose is to:

- ° Provide an opportunity to physicians and basic scientists, on an equal basis, to contribute to the development of this new modality.
- ° Provide an international multidisciplinary forum for the advancement of magnetic resonance imaging.
- ° Promote the applications of magnetic resonance techniques to medicine and biology, with special emphasis on imaging.
- ° Prepare and disseminate technical and product information related to research techniques, equipment and clinical applications of magnetic resonance.
- ° Develop education and training material and methods for the application of magnetic resonance to medicine and biology.

All individuals involved directly or indirectly in the field of magnetic resonance imaging are invited to join the Society. The Full, Associate and Corporate membership rates include a subscription to the quarterly journal, MAGNETIC RESONANCE IMAGING. Those applying for membership categories of Technologist and Student may obtain a subscription to the journal by remitting an additional \$40.

The classifications of membership are defined as follows:

- FULL: A person who shares the stated purpose of the Society, who is involved directly or indirectly in the field of magnetic resonance imaging, and who has completed postgraduate studies in any subject or work of significant merit in the area of magnetic resonance.
- TECHNOLOGIST: A person who shares the stated purpose of the Society and who has technical or professional background in the area of magnetic resonance imaging or an allied field.
- STUDENT: A person who shares the stated purpose of the Society and who is engaged in full-time study, graduate or undergraduate.
- CORPORATE: A person or corporation who shares the stated purpose of the Society and who by demonstrated and substantial acts benefits the Society and its stated purposes.
- ASSOCIATE: A Hospital, Clinic, or Medical Office which shares the stated purpose of the Society and who by demonstrated and substantial acts benefits the Society and its stated purposes.

In order to be considered for CHARTER MEMBERSHIP, please provide the information requested on the reverse side. A complete resume of your education, employment and publications MUST accompany this application.
