



Norman F. Ramsey presents the 2003 Lauterbur Lecture, "The Legacy of Isidor I. Rabi."



Roderic I. Pettigrew presents The Toronto Keynote Lecture, "Future Directions in Funded Biomedical Imaging Research."

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## Letter From The President

**W**e did it! Despite a World Health Organization advisory against travel to Toronto causing a postponement of our Annual Meeting from May to July, we held one of our best meetings ever. Organizing a successful annual scientific and educational meeting, the single biggest facet of our Society, depends on the energy of key people to whom the Society owes a huge debt of gratitude. Richard Ehman, the outgoing President of the Society, was an inspiration, keeping the focus of the postponed meeting on the science, and not the legal aspects of moving from Toronto in May.

The Scientific Program Chair, David Lomas, and the tireless Scientific Program Committee rebuilt the meeting at the last

minute, essentially re-planning an entire program during the two-month hiatus. The Education Committee and its Chair, Michal Neeman, retooled an entire two-day Education Course program. David and Michal were particularly active in creating and updating the crucial "Question and Answer" portion of our home page, helping calm members and providing rapid answers to very real questions regarding last-minute changes to travel and accommodations. I would especially like to acknowledge the guidance of Jane Tiemann, the Executive Director of the Society, and the contributions of everyone in the Central Office. Many thanks to our Corporate Members, Exhibitors, and finally, to all of our members who made strong commitments to travel with us in Toronto, despite the endless rumors and stories from many sources. As the incoming President, I want to say thank you to each and every one for making this meeting one of outstanding scientific and educational merit.

It was an amazing meeting by any measure and extraordinary given the circumstances. As reported in this issue of the *MR Pulse*, there was a new record number of abstract submissions (3515) for the meeting. Attendance at the meeting itself was also very strong, with a total registration of over 3800 participants. The educational program at the beginning of the week was again this year exceptionally well attended, with 1500 participants. We shared and discussed over 800 oral presentations in our nine parallel scientific sessions and 1700 posters. The opening social event in the Exhibition Hall and the closing ceremony high atop the CN Tower were extremely well attended and clearly enjoyed by the membership.



David J. Lomas



Michal Neeman

**Toronto meeting attendees visit the Technical Exhibition where over 50 companies displayed their latest technological developments and publications in the field of magnetic resonance.**



With Toronto behind us, it is time to plan for the future. Our Annual Meeting has expanded electronically with a further refined and nearly flawless electronic abstract submission process, a CD-only publication of those abstracts, and the hugely successful implementation of the "cyberpods" or wireless access points to the Internet. Our Society website is constantly expanding, becoming an invaluable portal "home page" for many. The Ad Hoc Committee for Electronic Media Chair, Greg Sorensen, is already planning what the 2013 ISMRM will look like (Greg's hint: streaming video multichannel simulcasts). Our committees and study groups now have unique listservers for more effective communication and idea-sharing. The 2003 Abstracts are also on-line for meeting registrants, and an expanded "Question and Answer" resource for all things ISMRM will soon be available. The "Q&A" build-out has been especially enjoyable; each committee and function within the Society will prepare and post several Q&A topics exploring how and why things work within our Society (Want to be more active in committee service? Want to plan a workshop? Who picks our award winners? See the upcoming Q&A!).

The Society has expanded globally as well. We have held a record number of workshops and educational meetings over the last year and are planning even more this year, including activities in the Eastern Mediterranean, Eastern Europe, and China. The Intersociety Advisory Committee (ISAC), headed by Past President, Chris Boesch, has added five new sister societies. The ISMRM has created an Associate Membership to enable those from specific developing countries to become a part of the ISMRM. New



study groups in molecular imaging, for example, are being formed. Our role as a Society, beyond planning our Annual Meeting, has become ever more important in present times. The Board of Trustees and the Safety Committee have become proactive in informing and organizing ISMRM responses to the recent past MR safety standard-settings proposed on national and international levels and now in the planned EU "Draft Directive" which could effectively cripple the use of MR within Europe. To become more informed and involved, visit the ISMRM Website "Spotlight on Safety" and voice your opinion.

Our growth and success have resulted in increases in services to members, to the extent that the annual membership dues no longer cover the cost of membership. If anything, the need for maintaining a firm financial reserve became readily apparent during the recent meeting crisis. To slow the erosion of our reserve, the Board of Trustees voted during the Toronto meeting to add a US\$30 increase in membership dues, to US\$225 per year, for regular members for 2004. This increase was necessary to cover cost of living accumulating from 1999, increases in student stipends, and support for our new associate members. The membership fees for our students and associate members will not change, however. The Treasurer's Report on page 5 also includes information on this topic.



Toronto meeting photographs by Henry Koro.

With our next Annual Meeting in Kyoto, Japan, a mere 10 months away, the incoming Scientific Program and Education Chairs, Jeff Duerk and Paul Finn, and Committees will be hard at work over the coming months. The Local Organizing Committee for Kyoto is already busy preparing what will be incredible opening and closing ceremonies, numerous daily cultural activities and events, and travel arrangements. One of Kyoto's biggest festivals of the year is being held just before our meeting, so plan now for the 12th Scientific Meeting of the ISMRM.

— Michael E. Moseley,  
ISMRM President



## 2003 SCIENTIFIC PROGRAM COMMITTEE REPORT

**I**t is a pleasure to be able to report to the membership that the 11<sup>th</sup> Annual Scientific Meeting did take place in Toronto between the 10<sup>th</sup> and 16<sup>th</sup> July this year. A combination of good management and good luck (you can decide how much of each!) resulted in a successful meeting, despite the obvious concerns related to the SARS epidemic.

Our routine program planning was of course complete by the time of the WHO advisory in April 2003, which led to the inevitable deferral of the meeting. The Executive Committee reacted swiftly to the deferral and was, remarkably, within a week able to arrange suitable new dates for the meeting (version 2.0). This allowed us a reasonable chance of actually holding a replanned 2003 Annual Meeting. (It became clear that if we could not hold the meeting in July, we would probably have to cancel the whole thing.) We kept the membership informed of the developments through updates on the Society Website Q&A combined with regular e-mail blasts, and the Central Office made every effort to help members with rescheduling travel and hotels.

Replanning the scientific program was a substantial effort, considering there were over 800 individual speakers and approximately 10% of these were unable to attend the new dates. Overall the Society responded strongly and positively to the challenge, with the Central Office and Committees working overtime to complete a new program for July. We were fortunate that the move to a CD-only distribution of the *Proceedings* meant that we could minimise our losses on material already prepared for the May meeting.

In the weeks prior to the July meeting, with the second peak of SARS (centered interestingly right on the dates for the original meeting in May), we received some cancellations by individual members but our sponsors overall were strongly supportive. This was reflected in the final attendance at the meeting where we had over 3,300 scientific delegates (more than Denver).

This represents roughly 90% of the originally expected attendance, although I suspect that in the absence of SARS it would almost certainly have been a record year. We did, however, receive record-breaking numbers of abstract submissions, provide a completely electronic submission and review process, introduce website-based reviewer self nomination, move to data projection only throughout the meeting, hold a record number of sessions, and introduce a new "Late-Breaking MR" category of submissions for the latest developments in MRI.

I particularly enjoyed the Lauterbur Lecture, a tremendous performance from Norman Ramsey describing Isidor Rabi's work on some of the earliest discoveries of magnetic resonance phenomena. He combined this with the sort of personal insights and reflections on the individuals involved that brought the excitement and serendipity of scientific discovery alive. During the week the early Morning Categorical Sessions, Plenary, and Scientific Sessions were well attended. There was a large turnout for the parallel imaging Categorical Course and some excellent sessions on fast imaging, cardiac, and fMRI to name just a few. Even in a big conference centre we always manage to get a few room size allocations wrong. This year we tested an overflow capability on a couple of occasions with a video relay into an adjacent room. This worked reasonably, although there were some image quality issues, which will be addressed at future meetings. In the background the numerous Society committees all functioned as usual and the venue itself proved to be as good as we hoped with its central location, compact and efficient layout and walking distances to hotels, restaurants, and shopping facilities.

A great success was wireless access for laptops, with many delegates enjoying the ability to browse and e-mail during the meeting without queuing for the PC terminal access points. This will allow future development for accessing program material

and other information during the meetings, perhaps even some of the sessions themselves or posters in some electronic-based format or other. I predict many more 802.11b enabled delegates next year!

Another enjoyable feature of the meeting was the Gala Closing Evening Reception in the CN Tower, made all the more entertaining by a thunderstorm. I have to admit that none of us quite believed that all the delegates would fit in the Tower and get there quickly enough to enjoy it – but judging by the deafening noise that swamped us leaving the elevator we were wrong. Perhaps only ISMRM members would not only look through the glass floor but jump up and down on it as well! Everyone I've spoken to has said how much they enjoyed the evening.

I'd like to thank the individual membership for supporting the meeting so strongly and making the effort in the face of many disincentives to attend. I think we are all fortunate to be members of a truly multi-disciplinary, international Society with strong leadership and a well-organised and professional infrastructure. There are too many people to thank individually for their exceptional work this year in pulling off the Annual Meeting under such difficult circumstances, but they and I know who they are. On behalf of the Scientific Program Committee and the membership, I would like to thank you all for your time and efforts supporting the Society. I look forward to seeing you in Kyoto next year for another great meeting.

— David J. Lomas  
Chair, 2003 Scientific Program Committee



# TREASURER'S ANNUAL REPORT

## 2003 a Challenge

Nearly one year has passed since I assumed the responsibilities of Treasurer of the Society, a year that has posed its own set of challenges for the Society. The World Health Organization advisory against travel to Toronto during the SARS outbreak led to the decision on the part of the Executive Committee to postpone the Annual Meeting. Thanks to prompt action on the part of our President, Richard Ehman, and the Central Office, the meeting was successfully rescheduled to July. The decision to reschedule the meeting was largely based on the scientific importance of holding an annual meeting. However, as Treasurer, I was aware of the potential financial consequences of the events.

Fortunately, the Society on the advice of its financial advisors, reached its target level of US\$1,500,000 in reserves (equal to one Annual Meeting) in 2000. The purpose of the reserves is to protect the integrity of the ISMRM in the event of a dramatic failure or cancellation of an Annual Meeting.

Prior to postponing the meeting, there were 3,500 pre-registered participants. The rescheduled meeting attracted over 3,300 scientific participants to the meeting and educational courses, only slightly below the target of 3,500 attendees on which the budget was formulated. While the complete financial statements will not be

available for approximately another month, the meeting itself was a scientific success.

Although the meeting this year will not generate revenue, the Society remains in good financial shape and able to carry on with its main goals, fostering MR research and education. The Society is healthy today in large part due to the stability offered by its financial reserves.

## Results of Audit for FY 2002

In FY 2002 (ended September 30th) the ISMRM had US\$3,523,914 Total Support and Revenue and US\$3,710,400 Total Expenses. The change in net assets over FY 2002 was a decrease of US\$186,486. The approved FY2002 budget allowed for an anticipated decrease in net assets of US\$258,895. The main differences between budgeted sums and actual sums arose from fewer expenditures than were budgeted for in the Strategic Programs portion of the budget. The US\$90,000 allocated to Web Based Programming/CME Education Programs was not spent. Of the US\$150,000 budgeted for Fast Track Programs, US\$32,677 was spent.

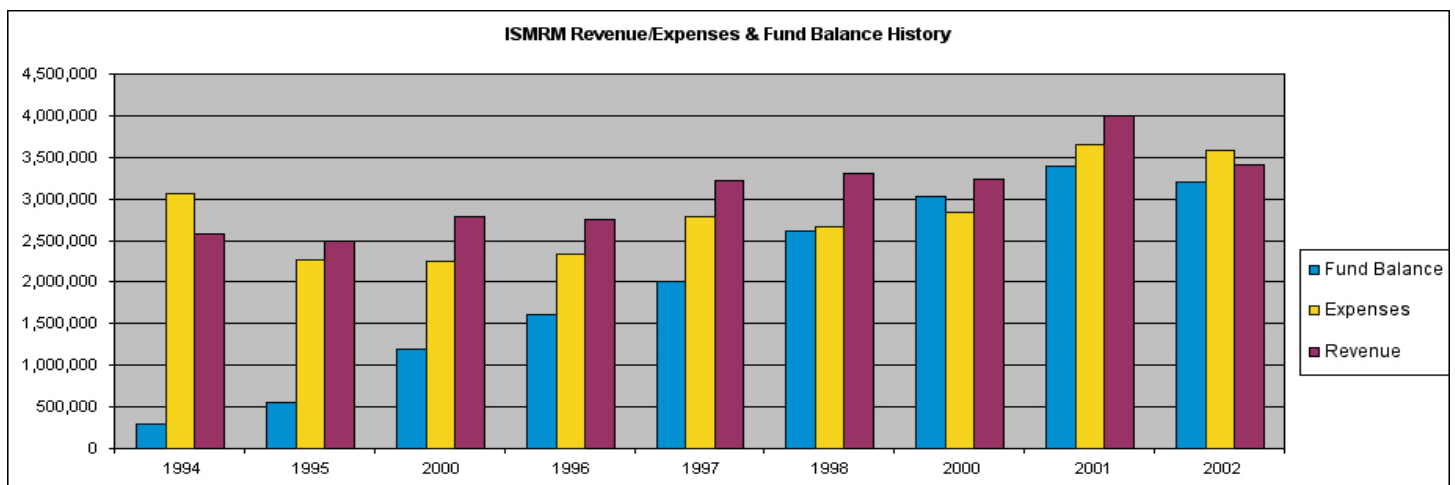
In response to a recommendation of the auditor of the ISMRM, a new budget format was adopted that breaks down budget items into Program Services (Meetings/Workshops, Membership Services, Strategic/Other Programs) and Supporting Services

(Administration). This will allow more effective monitoring of costs of Society activities.

## Looking forward to 2004

Our Society remains in a healthy financial position despite the challenges of 2003. Our security rests in large part on our ability to maintain a financial reserve equivalent to the cost of one annual meeting. Our continuing sources of support come from two main sources, our membership dues and the Annual Meeting. Starting in the mid 1990s, our Society built financial reserves based on the success of its annual meetings. Over the years our Society has grown and attendance at our meetings regularly exceeds 3,000. The scientific and educational programmes at the Annual Meeting have increased and we now regularly host our meetings in convention centers. This has led to an increase in the cost of the Annual Meeting. As a result, over the last couple of years, we have not made contributions to the financial and educational reserves of the Society. In fact, when all costs were taken into account (including indirect costs), even the very successful meeting in Hawai'i (2002) experienced a financial shortfall. As a result of the rising cost of even well attended annual meetings, the Board of Trustees voted an increase in meeting registration fees of US\$20 for members and US\$100 for non-members. These

See *Treasurer's Report* page 5



increases are intended to ensure that the meetings not draw on the financial reserves of the Society in normal, uneventful years.

Our membership dues are the second source of regular income for the Society. The Society now has over 5,000 members, including student and associate members. The Society can be proud of its record in attracting new student members and associate members, thus ensuring a strong and international society for years to come. Our student members now account for 27% of our total membership. With the exception of a journal subscription, student members share many of the benefits of regular members for a reduced membership fee of US\$25. As a consequence of this growth in membership and increases in services to members (e.g. study groups/chapters, listservers, internet services.), as well as increases in the cost of the Society journal and the general cost of living, the membership dues no longer cover the cost of membership. After careful assessment of these issues, the Board voted a US\$30 increase in membership dues, to US\$225 per year, for regular members for 2004. Of these fees, 50% is used to cover the cost of one journal subscription and 10% is required to cover the cost of internet services. The previous increase in membership fees, from US\$165 to US\$195, occurred in 1999. Because the Society values highly the participation of students and associate members in the Society and recognizes the financial burden of dues increases on these members in particular, the fees for these categories of members will not change. As a result of the increase in cost to the Society of its journals, the cost of a journal subscription for regular members wishing to purchase a second journal, and for students wishing to subscribe to a journal, will be US\$100 (an increase of US\$10).

My report in the next issue of *MR Pulse* will provide an overview of the financial outcome of the Toronto meeting.

— Roxanne Deslauriers  
ISMRM Treasurer

## ISMRM AWARDS COMMITTEE REPORT

**A**t the Toronto meeting, ISMRM honored outstanding scientists and clinicians for their contributions to the field of magnetic resonance and to the Society:

ISMRM has awarded the Gold Medal to **Ferenc A. Jolesz** for his enormous contributions to the field of MRI, with special note of his pioneering research in intraoperative, interventional, and minimally invasive MRI.

ISMRM has awarded the Gold Medal to **Hedvig Hricak** for her eminent contributions to MRI and MRS of the genitourinary systems, in particular for the detection and staging of malignancies.

ISMRM has awarded the Distinguished Service (Silver) Medal to **John R. Griffiths** for his outstanding support of the Society in leading functions, most of all for his service as Secretary from 1996 to 2002.

Fellows of ISMRM are recognized for their significant and substantial contribution to research in a field within the Society's purposes and/or to the development of the Society. The 2003 Fellows fulfill these criteria exceptionally and fostered the field of MR as well as the Society over many years: Jacques Bittoun, Jörg F. Debatin, Jeffrey L. Evelhoch, Robert J. Gillies, David B. Hackney, Atsuko Heshiki, Ferenc A. Jolesz, Stefan Neubauer, David G. Norris, and Roderic I. Pettigrew.

— Chris Boesch  
Chair, Awards Committee

### 2003 Gold Medal Winners



Ferenc A. Jolesz



Hedvig Hricak

### 2003 Distinguished Service Medal



John R. Griffiths

## Membership Survey in the Near Future

**T**he Publications Committee is considering the question of whether *MR Pulse* should be published in an electronic version only. An e-*MR Pulse* only will represent a production cost savings, allowing other strategic uses for the money, and will also expedite the delivery time. In a couple of months you will be able to express your opinion as part of a web-based Membership Survey. But if you'd like to contact us directly about this question please do so. We would particularly like to hear from any ISMRM members who do not have web access.

— Peter Jezzard, Chair, Publications Committee  
peterj@fmrib.ox.ac.uk

## 2003 Young Investigator Awards

This year, nineteen applications were received for the distinguished Young Investigator Awards Competition, which comprises two awards: the **Isidor I. Rabi Award** for basic science and the **William S. Moore Award** for clinical science. After a rigorous multi-step process, three finalists were chosen for each category. For the W.S. Moore Award these were Susan K. Hobbs, Marko Ivancevic, and Yoshiharu Ohno. For the I.I. Rabi Award, Hagit Dafni, Michael Markl, and Hisamoto Moriguchi were selected.

The finalists presented both a 15-minute talk and a poster. Committee members evaluated all presentations during the meeting, and the winners were announced Tuesday morning. Marko K. Ivancevic, M.Sc., of Geneva University Hospital, Geneva, Switzerland, received the W.S. Moore Award for his paper entitled "Correction of the Inflow Effect on Fast GRE MR Sequence for Perfusion Imaging." Michael Markl, Ph.D., of Stanford University, Stanford, California, USA, received the I.I. Rabi Award for his paper entitled "Flow Effects in Balanced Steady State Free Precession Imaging."

The entire Committee congratulates the winners and finalists on their outstanding research contributions, and we look forward to continued progress from these fine young scientists. We want to encourage all eligible applicants to participate in the coming year's competition. Details may be found on page 15.



Marko Ivancevic receives the W.S. Moore Award presented by ISMRM President, Michael Moseley.

Michael Markl receives the I.I. Rabi Award presented by ISMRM President, Michael Moseley.

## The International Society for Magnetic Resonance in Medicine (ISMRM) and Amersham Health are Pleased to Announce the 7th Annual MRI Fellowship Program

Radiology Residency Program Directors are invited to submit names of third-year residents as candidates for the **2004 ISMRM/Amersham Health MRI Fellowship** competition. Letters of nomination must include the resident's *curriculum vitae*, as well as his or her top three areas of interest in MRI (neuro, abdominal, breast, etc.). From the nominations received, the selected finalists will attend the 2004 ISMRM meeting in Kyoto, Japan, and subsequently submit a review article to ISMRM. The winner will receive US\$50,000 to fund a fellowship in MRI. The program is administered by Applied Radiology.

Nominations must be received by **31 January 2004**, and should be directed to:  
Jane E. Tiemann  
ISMRM Editorial Review Board  
International Society for Magnetic Resonance in Medicine  
2118 Milvia Street, Suite 201  
Berkeley, California 94704 USA

## Update from the 2004 Scientific Program Committee

The Scientific Program Committee (SPC) for the 2004 ISMRM Scientific Meeting in Kyoto, Japan, would like to thank the 2003 SPC for an outstanding job in putting together a stimulating and comprehensive program in Toronto. Their commitment to the program and their effort to adapt and reconfigure the meeting in light of the Toronto delay were nothing short of phenomenal. With 2/3 of the SPC Committee staying on for 2004, and the addition of 11 new members, we are confident that the delays imposed to the initiation of the Kyoto meeting planning will be resolved quickly since we can rely on our newly gained experience in rapid program design. We will ensure that we will provide another successful meeting, as is our tradition. In fact, we propose to build on and expand the offerings for 2004, as described below.

**First, Please Mark Your Calendar: The Abstract Submission Deadline will be 19 November 2003.** We will continue our all-electronic submission via the ISMRM Website. As before, no paper forms will be available, and any abstract submitted on paper will not be considered for review.

We will again retain the 100-word synopsis, which will appear in the printed Program Book. We plan to release the full program, including the 100-word synopsis, two weeks before the meeting. Scheduling issues prevented this for Toronto, but we are hopeful that it will be implemented for 2004. This early release will be combined with improved pre-meeting itinerary-building tools, and an improved CD format. Specifically we are developing a "Day-at-a-Glance" interface, which will permit day, time-slot, room, synopsis, and proceedings review for the CD, potentially allowing those with laptops, pocket PC's, and comparable devices to have little need to carry the Program Book altogether.

See '04 SPC Report page 7

We will re-explore the single-versus double-column format for abstract submission. Our electronic submission/review contractor can manage either format. While single column is more conducive to electronic review (both before the meeting and on-site), the double column format has a long history in the Society and enhanced readability on the printed page. Please pay attention to requests to reply to upcoming Society strategic planning surveys to assist in this decision. In either case, you will be able to compose your abstract in such a way that text wraps around figures and tables and may then be uploaded for submission.

Electronic slides (i.e., Powerpoint) will be the normal medium used at the meeting. If presenters wish to use 35mm slides, they will need to request this option, and only single projection will be available. Similarly, there will no longer be a paper version of the full *Proceedings*, which will be available on CD-ROM only. The Educational Course Syllabus will also be produced on CD-ROM. However, a paper version of the Program Book, including the 100-word synopsis, will be provided.

Increased wireless (and increased wired) internet access will be available, allowing you to read your e-mail and access the Internet while you are in the Kyoto International Conference Hall. A limited number of CAT-5 cable connections will be available for physical/wired connection for those without WI-FI capabilities. You will also be able to use computers provided by the Society for this purpose, as in the past.

Each year we are faced with the challenge of having sufficient coverage to ensure the desired level of review of the abstract submissions. To assist with identifying abstract reviewers, we will ask ISMRM members to nominate themselves and to identify their area of expertise. The SPC Chair will then select appropriate reviewers. Please watch the ISMRM Website for information on participating in this program. We will also be asking for self-nomination for reviewers for our newly

created Poster Awards. We will need poster reviewers in five separate areas (hardware, pulse sequences, spectroscopy, neuro-imaging, body-imaging). Again, please watch the ISMRM Website for this new opportunity to assist the ISMRM and SPC.

In addition to the creation of Poster Awards, we are also creating other new methods to enhance the profile of the submissions that are presented as posters. For example, we are working to create electronic posters (E-posters), which will enable on-line access to all of them throughout the meeting. We are exploring opportunities for authors to include AVI-files in E-posters. You will notice a new option for conventional poster or E-poster during the submission process. We are also exploring the feasibility to provide CD/DVD's of the posters as they appear at the meeting, since there are oftentimes dramatic and exciting advances that occur between the time of the abstract submission and the results that appear in the posters at the meeting. More information will be available on this initiative in the near future.

We have all encountered the problem of wanting to be in two talks that occur simultaneously at the Annual Meeting. In light of this chronic situation, we are exploring the feasibility of capturing the computer video and the author commentary for each talk, compressing this combined file and making it available for review via the Internet both immediately and for up to a month after the meeting. We would attempt this limited trial from one set of rooms: one dealing with clinical material, and the other basic science. The Electronic Media Committee, chaired by Greg Sorensen, and the SPC are working closely on this and other initiatives to fully utilize new technologies to improve scientific exchange and meeting efficiency.

With your help and participation, we look forward to an exciting Annual Meeting in Kyoto.

— Jeffrey L. Duerk  
Chair, 2004 Scientific Program Committee

## Call for Abstract Reviewers

The Scientific Program Committee is seeking to broaden the base of reviewers who evaluate the four thousand abstracts submitted for consideration for the Annual Meeting so we can improve the abstract review process. While the ISMRM membership is our first line of support in performing the reviews, surprisingly, many members have never participated. We would like to give these members an opportunity to apply for the review panel.

Those who have undertaken this job in the past can attest that reviewing abstracts for the ISMRM is no small job. It involves reading and scoring anywhere from 40 to 60 papers during a 14-day period. As done last year, reviewers will access their assigned abstracts online, and will have from **26 November to 10 December 2003** to consider the abstracts and submit their scores (also online). Members who volunteer to review will be asked to specify the area(s) of expertise in which they would like to review papers. The Program Committee will determine the topic areas in greatest need for an expanded pool of reviewers and will then invite selected members in these areas to join the panel.

Further, this year we will be giving awards for those abstracts that will be presented in poster format. We are seeking ISMRM members to assist in review of a limited set of posters, interact with the authors on-site in Kyoto in the first days of the meeting, and assist the SPC in selecting recipients of these awards.

If you are interested, please complete the special online form at <http://www.ismrm.org/membersonly.htm> (this will be accessible to members only).

Responses should be submitted by **8 September 2003** in order to be considered for the upcoming review process. Should you have any questions about reviewing abstracts, please contact either me or the ISMRM staff. Thank you for your consideration.

— Jeffrey L. Duerk  
Chair, 2004 Scientific Program Committee

## 2003 STIPEND PROGRAMS

The Society funded 362 participants to attend the 11th Scientific Meeting in Toronto. Their names and the countries from which they come are listed below.

## STUDENT STIPEND RECIPIENTS

Ajjaj, Waleed	Germany	Dale, Brian	USA	Hunold, Peter	Germany
Akella, Sarma	USA	Davies, Gerard	England, UK	Hutton, Chloe	England, UK
Albers, Mark	USA	de Bazelaire, Cedric	USA	Ith, Michael	Switzerland
Albornoz, Jose	Chile	De Celis Alonso, Benito	England, UK	Ivancevic, Marko	Switzerland
Alford, Sara	USA	de Win, Maartje	Netherlands	Jaermann, Thomas	Switzerland
Arnold, Sheeba	USA	Dechent, Peter	Germany	James, George	USA
Arunachalam, Arjun	USA	Deelchand, Dinesh	England, UK	Jardine, Victoria	England, UK
Arya, Rakesh	USA	Degaonkar, Mahaveer	USA	Johansen-Berg, Heidi	England, UK
Austin, Vivienne	England, UK	Delfino, Marina	Argentina	Jung Bernd,	Germany
Authier, Erica	USA	Dempsey, Mary	Scotland, UK	Just, Nathalie	England, UK
Avram, Liat	Israel	DeVito, Tim	Canada	Kavec, Martin	Finland
Bainbridge, Alan	England, UK	Dimitrov, Ivan	USA	Keinan-Adamsky, Keren	Israel
Bangerter, Neal	USA	Dresselaers, Tom	Belgium	Khubchandani, Manjula	India
Barrick, Thomas	England, UK	Du, Jiang	USA	Kim, Hyeonjin	Canada
Behrens, Timothy	England, UK	Dubois, Jessica	France	Kim, Daniel	USA
Benito, Marina	Spain	Duhamel, Guillaume	USA	Kim, Joong Hee	USA
Bennett, Kevin	USA	Eagan, Timothy	USA	Klarhöfer, Markus	France
Benneyworth, Brian	USA	Elgort, Daniel	USA	Ko, Cheng-Wen	Germany
Bergans, Niki	Belgium	El-Sharkawy, Abdel-Monem	USA	Kolipaka, Arunark	USA
Berman, Jeffrey	USA	Enriquez, Cathleen	USA	Kreher, Bjorn	Germany
Bertoldi, Didier	France	Feng, Ching-Mei	USA	Kufahl, Peter	USA
Bestmann, Sven	Germany	Fichele, Stan	England, UK	Kuo, Li-Wei	Taiwan
Bi, Xiaoming	USA	Filidoro, Lucianna	Germany	LaConte, Stephen	USA
Bidinosti, Chris	Canada	Flask, Chris	USA	Laird, Angela	USA
Bisschops, R.	Netherlands	Fulford, Jonathan	England, UK	Lauenstein, Thomas	Germany
Biton, Inbal	Israel	Galban, Craig	USA	Law, Christine	USA
Blyth, Rebecca	England, UK	Gao, Yun	USA	Lawrence, Jane	Canada
Bolan, Patrick	USA	Gardener, Alexander	England, UK	Lazovic-Stojkovic, Jelena	USA
Bonilla, Isidro	Canada	Gast, Klaus	Germany	Leach, Sean	England, UK
Bos, Clemens	France	Georgi, Jens-Christoph	Germany	Lee, Kuan	England, UK
Boyd, Roslyn	Australia	Geppert, Christian	Germany	Lee, Michael	USA
Brodsky, Ethan	USA	Gilson, Wesley	USA	Leggett, James	Australia
Brooks, Jonathan	England, UK	Giurgi, Marius	USA	Leite, Francisca	USA
Broom, Kerry	England, UK	Goetz, Pablo	England, UK	Lew, Calvin	USA
Brown, Robert	Canada	Goodman, James	USA	Ley, Sebastian	Germany
Brown, Ryan	USA	Goodrich, Kenneth	USA	Li, Xiaojuan	USA
Brushett, Christopher	USA	Green, Jordin	USA	Li, Geng	China
Bydder, Mark	England, UK	Greiser, Andreas	Germany	Lichy, Matthias	Germany
Carballido-Gamio, Julio	USA	Grinstead, John	USA	Lie, Chuh-Hyoun	Germany
Carew, John	USA	Gruber, Stephan	Austria	Lin, Alexander	USA
Cassidy, Paul	England, UK	Grzelak, Piotr	Poland	Lin, Ching-Po	Taiwan
Chan, Antoinette	USA	Gui, Dawei	USA	Lin, Yi-Ru	Taiwan
Chandrashekara, Raghavendra	England, UK	Guo, Hua	USA	Liu, Chia-Shang	USA
Charles-Edwards, Geoffrey	England, UK	Gutteridge, Sarah	England, UK	Liu, Wanzhan	USA
Chen, Junjie	USA	Hadley, J.	USA	Liu, Wei	USA
Chen, Albert	USA	Hansen, Michael	Denmark	Liu, Chunlei	USA
Chen, Jean	Canada	Hausler, Natasha	USA	Lori, Nicolas	France
Chen, Jing	USA	Hendrikse, Jeroen	Netherlands	Lowe, Andrew	England, UK
Cheng, Hai-Ling	Canada	Herborn, Christoph	Germany	Lowe, John	England, UK
Cheng, Christopher	USA	Heyn, Chris	Canada	Lu, Hanzhang	USA
Chin, Chih-Liang	USA	Hirsch, Jochen	Germany	Lu, Aiming	USA
Chu, Xu	China	Hobbs, Susan	USA	Ludwig, Ute	Germany
Chung, Hyun-Kyung	USA	Hoge, William	USA	Luo, Feng	USA
Ciccarelli, Olga	England, UK	Horovitz, Silvina	USA	Madhuranthakam, Ananth	USA
Clayton, David	USA	Hsu, Jung-Jiin	USA	Makela, Heidi	Finland
Cochlin, Lowri	England, UK	Huang, Ru-Jiuann	Taiwan	Mancini, Laura	England, UK
Cui, Weina	USA	Huang, Hao	USA	Markl, Michael	USA
Dadiani, Maya	Israel	Huang, Susie	USA	Marques, Jose	England, UK
Dafni, Hagit	Israel	Huang, Ambrose	USA	Martin, Melanie	USA
		Huber, Michael	Switzerland	Mayzel-Oreg, Orna	Israel



Mazurkewitz, Peter	Germany	Shen, Qiang	USA	Zaporozhan, Julia	Germany
McConville, Patrick	USA	Sheriff, Sulaiman	USA	Zavodni, Anna	USA
McDougall, Mary	USA	Shmueli, Karin	England, UK	Zhang, Nanyin	USA
McKinstry, Erin	USA	Shu, Yunhong	USA	Zhang, Zhenghui	USA
McMillan, Kathryn	USA	Sica, Christopher	USA	Zhang, Honglei	USA
Meisamy, Sina	USA	Sidaros, Karam	Denmark	Zhang, Haosen	USA
Menezes, Nina	USA	Siegler, Peter	Germany	Zhao, Lin	USA
Michelich, Charles	USA	Singh, Saryu	Canada	Zhu, Mingwang	USA
Milkevitch, Matthew	USA	Snoussi, Karim	Sweden	Zhu, Hongmei	Canada
Milman, Rebecca	USA	Soltysik, David	USA	Zhuo, Jiachen	USA
Mir, Roberto	Chile	Sreekumar, Y. Uma	India	Zimmermann, Hendrik	Germany
Mitsouras, Dimitris	USA	Stanberry, Larissa	USA	Zuehlsdorff, Sven	Germany
Moriguchi, Hisamoto	USA	Stegmann, Mikkel	Denmark		
Morse, David	USA	Stengel, Astrid	Germany		
Nairismägi, Jaak	Finland	Su, Fan-chi	Taiwan	<b>CLINICAL RESIDENT STIPEND RECIPIENTS</b>	
Nandy, Rajesh	USA	Sun, Shu-Wei	USA	Benzinger, Tammie	USA
Naumova, Anna	USA	Sundaram, Tessa	USA	Dixon, Michael	USA
Neufeld, Arnon	Israel	Susil, Robert	USA	Le, Tuong Huu	USA
Nevo, Uri	Israel	Swingen, Cory	USA	McCormac, John	USA
Newton, Jennifer	England, UK	Tamer, Gregory	USA	Poon, Colin	USA
Nguyen, Thanh	USA	Techawiboonwong, Aranee	USA	Swain, James	USA
Niellas-Vallespin, Sonia	Germany	Tenney, Jeffrey	USA	Young, Robert	USA
Nossin-Manor, Revital	Israel	Tian, Jinfeng	USA	Zaharchuk, Greg	USA
Nuval, Anthony	USA	Tournier, Jaques-Donald	England, UK		
Olman, Cheryl	USA	Tozer, Daniel	England, UK	<b>NEW ENTRANT STIPEND RECIPIENTS</b>	
Opstad, Kirstie	England, UK	Trampel, Robert	Germany	Alia-Klein, Nelly	USA
Orchard, Jeff	Canada	Triantafyllou, Christina	USA	Aron Badin, Romina	England, UK
Öz, Gülin	USA	Tsai, Shang-Yueh	Taiwan	Beatty, Philip	USA
Ozarslan, Evren	USA	Turner, Gregory	USA	Cai Jing,	USA
Ozus, Bahadır	USA	Valonen, Piia	Finland	Chou, Ming-Chong	Taiwan
Park, Jaeseok	USA	Venook, Ross	USA	Chuang, Tzu-Chao	Taiwan
Parra-Robles, Juan	Canada	Vidarsson, Logi	USA	Dunn, Elizabeth	Canada
Pathak, Arvind	USA	Volz, Steffen	USA	Fasol, Ulrike	Germany
Peeters, Ronald	Belgium	von Elverfeldt, Dominik	Germany	Hu, Peng	USA
Pell, Gaby	Australia	Vorisek, Ivan	Czech Republic	Humara, Rafael	Mexico
Pelled, Galit	Israel	Wachowicz, Keith	Canada	Jones, Nicholas	England, UK
Peng, Hsu-Hsia	Taiwan	Wang, Danli	USA	Lee, Jongho	USA
Perthen, Joanna	England, UK	Weber, Thomas	Germany	Lentz, Margaret	USA
Philippens, Mariëlle	Netherlands	Weigel, Matthias	Germany	Liu, Christina	USA
Plaks, Vicki	Israel	Weiland, Elisabeth	Germany	Marjanska, Malgorzata	USA
Pucar, Darko	USA	Weiskopf, Nikolaus	Germany	Rangwala, Novena	USA
Quarles, Christopher	USA	Wen, Zhifei	USA	Ratai, Eva-Maria	USA
Quick, Harald	Germany	Weng, Jun-Cheng	Taiwan	Romanzetti, Sandro	Germany
Rakow, Rebecca	USA	Wheaton, Andrew	USA	Sastre-Garriga, Jaume	England, UK
Rashid, Waqar	England, UK	Whitaker, Chastity	USA	Sodja, Eveline	Slovenia
Ratiney, Helene	France	Wilke, Marko	Germany	Zauscher, Blanca	USA
Rauscher, Alexander	Austria	Williams, Lori-Anne	Canada		
Regatte, Ravinder	USA	Willson, Morgan	Canada	<b>E.K. ZAVOISKY STIPEND RECIPIENTS</b>	
Reinsberg, Stefan	England, UK	Wilton, Benjamin	England, UK	Barrios, Fernando	Mexico
Rieke, Viola	USA	Woodhouse, Neil	England, UK	Cai, Jianming	China
Rogers, Baxter	USA	Workie, Dagnachew	USA	Capizzano, Aristides	Argentina
Rossiter, Harry	USA	Wu, Wen-Chau	Taiwan	Dobrovolskiene, Laima	Lithuania
Roy, Anirban	USA	Wu, Ming-Long	Taiwan	Golovina, Irina	Ukraine
Sabati, Mohammad	Canada	Wu, Sheng-ping	Denmark	Kozic, Dusko	Serbia
Saekho, Suwit	USA	Wu, Chang-Wei	Taiwan	Ma, Lin	China
Sala, Evis	England, UK	Wu, Yu-chien	USA	Marga, Semion	Moldova
Salomir, Rares	France	Xu, Duan	USA	Petkov, Simeon	Bulgaria
Scheurer, Eva	Switzerland	Xu, Guofan	USA	Rodríguez-González, Alfredo	Mexico
Schmieder, Anne	USA	Yahya, Atiyah	Canada	Rosenblitt, Matias	Chile
Seppenwoolde, Jan-Henry	Netherlands	Yee, Seong-Hwan	USA	Semnic, Robert	Yugoslavia
Sharma, Puneet	USA	Yen, Cecil	USA	Starcuk, Zenon	Czech Republic
Shaw, Marnie	Australia	Yu, Huanzhou	USA	Starcukova, Jana	Czech Republic
Shea, Steven	USA	Yu, Xin	USA	Ye, Huiyi	China

## ISMRM NEW BOARD MEMBER BIOS

### VICE PRESIDENT:

**Chrit T. Moonen, Ph.D.**, has long been involved in the ISMRM organisation. He was chair of the Scientific Program Committee for the Denver 2000 Annual Meeting, member of the Board of Trustees from 1998-2001, served on several other ISMRM committees and helped organize courses (such as the MR Physics for Physicists course) and workshops (such as the Workshop on Molecular and Cellular Imaging in June 2003 in Bordeaux). He is an enthusiastic supporter of the multidisciplinary character of our Society, and of its combined educational and scientific responsibilities worldwide. He is Director of Research at the French National Center for Scientific Research, and heads a newly created laboratory on "Molecular and Functional Imaging: From Physiology to Therapy," integrating radiologists, physicists, image processing experts, and biologists.

Originally from the Netherlands, he did part of his Master studies in Molecular Sciences with Nobel laureate Kurt Wüthrich in Zürich, Switzerland, and obtained his Ph.D. from the University of Wageningen, the Netherlands, in 1983 in protein NMR. He then spent a postdoctoral year in George Radda's laboratory at the University of Oxford in England, returned to the University of Wageningen as a junior faculty member before joining the University of California at Davis in 1986. In 1987 he became head of the In Vivo NMR Research Center at the NIH, Bethesda, Maryland, USA, where he stayed until 1996 before moving to Bordeaux. He published extensively on MR methods for studying perfusion, diffusion, brain activation and metabolism, and is member of the editorial board of *Journal of Magnetic Resonance Imaging* and *JMR*. His current research activities are in molecular imaging, fMRI and MR-guided thermal therapies.

### BOARD OF TRUSTEES:

**Margaret A. Hall-Craggs, M.B. B.S., M.R.C.P., F.R.C.R., M.D.**, is currently consultant radiologist and Head of MRI at The Middlesex Hospital, UCLH. She was previously a research fellow in MR at the Great Ormond Street Hospital for Children, culminating in a doctorate in MR imaging of solid abdominal tumours in children. Dr. Hall-Craggs worked for 5 years on MR imaging and spectroscopy on the neurological complications of HIV infection. Currently her main areas of work include breast MR, interventional breast MR, ablation therapy and imaging of bone and soft tissue sarcomas and interventional MR. She has published and lectured extensively and is the coauthor of > 90 papers and 12 book chapters. Dr. Hall-Craggs has been a faculty member of several European meetings and courses (ECR, ICIS, MR Mammography Jena), an organizer of the 'Breast MR' course for the British Institute Radiology, an active member of the British Chapter of the ISMRM (Committee member from 1997 onwards, Secretary since 1999), and an abstract reviewer for ISMRM. She is Assistant Editor of *Hospital Medicine* and *British Journal of Radiology*, as well as Head of Training in Radiology at UCLH and a faculty member for several MSc Courses. Dr. Hall-Craggs would welcome the opportunity to help continue the integration of MR science with clinical medicine and education as a member of the ISMRM Board of Trustees.

**Martin R. Prince, M.D., Ph.D.**, is currently Professor of Radiology at Columbia and Cornell Universities in New York City and chief of MRI at New York Hospital, with his time allocated 50% for clinical MR and 50% for MR research. He received his medical degree from Harvard University and a doctoral degree in medical physics from Massachusetts Institute of Technology. After completing an internal medicine internship at the University of California San Francisco, he undertook an angiography research fellowship at Massachusetts General Hospital and then stayed on at MGH to complete a radiology residency and an MRI fellowship. Dr. Prince is known for developing contrast-enhanced MR Angiography. He has also been an Associate Editor of *Radiology* and an enthusiastic teacher and promoter of MRI to radiologists

and other physicians. He is active in the national efforts to establish standards for accrediting MRI facilities and for securing reimbursement for MR Examinations. At ISMRM Dr. Prince has been an active member of both the Publications Committee and the Scientific Program Committee, and he believes that on-going research and intensive education of radiologists, technologists and MR scientists is paramount to the continued success of MRI. He co-directs the annual ISMRM educational and categorical MRA courses.

**A. Gregory Sorensen, M.D.**, is an Associate Professor in Radiology at Harvard Medical School, the Associate Director of the A.A. Martinos Center for Biomedical Imaging, and a neuroradiologist with an active interest in using novel MRI technologies to improve diagnosis of human neurologic disorders. He received his Bachelor's degree from the California Institute of Technology, an M.S. degree from Brigham Young University, and earned his M.D. from a combined program between Harvard Medical School and the Massachusetts Institute of Technology. His residency and fellowship training was at Massachusetts General Hospital. His research has focused on the development and use of novel MRI techniques such as diffusion- and perfusion-weighted MRI in the diagnosis of acute ischemic stroke, and he also has interest in applying these novel tools to other illnesses such as migraine, glioma, and schizophrenia. He has served on advisory boards for the FDA and pharmaceutical companies regarding the use of imaging in drug development and clinical trials. He also serves as Medical Director of EPIX Medical, a development-stage pharmaceutical company focused on MRI contrast agent development.

**Risto A. Kauppinen, M.D., Ph.D.**, has been Chair of Neuroscience at the University of Manchester, UK, since 2002. He received his M.D. in 1980 and his Ph.D. in 1984, both at the University of Oulu, Finland. Dr. Kauppinen held the post of Associate Professor of Biochemistry at the University of Kuopio, Finland, from 1990-1995 and of Professor of Biomedical NMR from 1995-2002. He was President of the

*See Board Bios page 11*



**2003-2004 ISMRM Officers and Board Members:** (front l. to r.) Chrit T. Moonen, Peter Bosiger, A Gregory Sorensen, Martin R. Prince, David H. Miller, Michael E. Moseley, Jane E. Tiemann (ISMRM Executive Director), Linda Chang, Richard L. Ehman, Michal Neeman, Maureen Ainslie (SMRT President), Roxanne Deslauriers (standing middle row l. to r.) Peter S. Allen, James F.M. Meaney, Roland Kreis David J. Lomas, Patrick Stroman, Margaret A. Hall-Craggs, Risto A Kauppinen, Felix W. Wehrli, Joseph V. Hajnal (standing top row l. to r.) Donald M. Hadley, Peter Jezzard, Walter Kucharczyk, Jeffrey L. Duerk, and Peter van Zijl (not pictured: C. Leon Partain, Shoji Naruse, and Michael B. Smith).

Brain Research Society of Finland from 1997-2000. Dr. Kauppinen's research interests include physiology and biophysics of BOLD, modeling of spin lock contrast, and diffusion MRS. His research projects include quantification of cerebral hemodynamics by MRI, assignment of tissue outcome in acute ischemic stroke, gene therapy of brain tumors, and tissue microenvironments probed by NMR.

**Roland Kreis, Ph.D.**, is currently a faculty member (Privatdozent) of the Department of Clinical Research at the University of Berne, Switzerland. He studied chemistry at the Federal Institute of Technology in Zurich and obtained his Ph.D. under the direction of Richard Ernst for work in solid state NMR in 1989. He was a joint fellow at CalTech and HMRI in Pasadena for two years, where he worked with Brian D. Ross on methods and first clinical applications of  $^1\text{H}$ -MR spectroscopy. In 1992 he returned to Switzerland, where he joined the group of Chris Boesch. Dr. Kreis's present research interests center around MR spectroscopy and diffusion tensor imaging. His activities have mainly focused on methodology and clinical applications of MRS, where he has contributed substantially to the development of absolute quantitation and data processing, aiming at improved robustness and automation of routine clinical MRS. He has been involved in pioneering applications of MRS in hepatic encephalopathy, diabetes, hypoxia, phenylketonuria,

neonatal brain development, and  $^1\text{H}$ -MRS of skeletal muscle. His scientific work has resulted in approximately 50 original papers and 20 invited articles, as well as some 150 proffered contributions at international congresses. He was awarded the Young Investigator Award of the (I)SMRM in 1993 and gave a plenary lecture on MRS quantitation in 1994. Dr. Kreis is presently a member of the Education Committee of ISMRM, has contributed to the teaching sessions and co-organized MRS educational and categorical courses at the Annual Meeting, and has been a member of the governing committee of the Dynamic NMR Spectroscopy Study Group. He is a reviewer for most major MR journals and ISMRM. He was a council member of the European Society for MR in Medicine and Biology (ESMRMB) from 1998 to 2003, has served as Chair of its Education and Workshop Committee, as a member of its steering committee for the School of MRI, and as a member of its scientific program committee. Dr. Kreis enjoys interdisciplinary work in close collaboration with clinicians and believes that the ISMRM does provide and should continue to provide the ideal international stage to keep up to date with, learn new facets of, and contribute one's own aspects to the interdisciplinary knowledge needed to apply state-of-the-art MR techniques effectively and fruitfully in the clinic and in research.

**Michael B. Smith, Ph.D.**, began his research in magnetic resonance in 1974 at the University of Arkansas, subsequently completing postdoctoral fellowships at the University of Wisconsin, and at Oxford University under Sir George Radda. Dr. Smith joined the faculty at Henry Ford Hospital in Detroit in 1984, subsequently moving to Penn State University in 1988, where he established the Penn State Center for NMR Research. His research career has covered a variety of areas including proton and phosphorus spectroscopy, brain metabolism, fast imaging, improving the measurement of free magnesium, radio frequency coil design, DANTE tagging, magnetic susceptibility correction, functional imaging, and magnetic field simulation. He has been a pioneer in the development of ultra-high field MR imaging, establishing novel approaches for simulation of static and radiofrequency magnetic fields in the human body. Dr. Smith organized the first Gordon Research Conference on *in vivo* Magnetic Resonance in July 2000. Dr. Smith became a member of the Society for Magnetic Resonance in Medicine in 1983 and has been an active member in the International Society for Magnetic Resonance in Medicine, having served on the Program Committee, Workshop Committee, Study Group Review Committee, and Safety Committee. Dr. Smith is the current Chair of the High-Field Study Group and serves as Deputy-Editor of *Magnetic Resonance in Medicine* and as a member of its Editorial Board.

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## Call for Nominations

**T**he Nominating Committee of the International Society for Magnetic Resonance in Medicine invites members of the Society to submit suggested nominations for the office of Vice President and for the six members of the Board of Trustees to be elected in 2004. These suggestions must be received by noon local time on **7 November 2003**, at the Society's Central Office. After this deadline the Nominating Committee shall compile a list of not more than three nominees for each position on the ballot, including any nominees suggested by the Nominating Committee itself. The nominees for the vacant positions will further be chosen to ensure the general balance in representation on the Board of Trustees of discipline and geographical distribution. This year the nominees for the Office of Vice President must be clinical scientists.

Nominations by members independently of the Nominating Committee shall require a petition of fifty (50) Full Members in good standing of the Society and must be received by midnight local time on **31 December 2003**, and shall include the written agreement of the proposed candidate for his/her nomination, state the office for which such candidate is nominated, and a brief biography (single paragraph).

The nomination, and subsequent selection, of appropriate individuals who are willing to commit time and energy to the ongoing management of the Society is critical to its future health. The general membership is encouraged to help in this task.

Suggested nominations should be submitted to:

Peter van Zijl, Ph.D.  
Chair, Nominating Committee  
International Society for Magnetic Resonance in Medicine  
2118 Milvia Street, Suite 201  
Berkeley, California 94704, USA  
Tel: +1 510 841 1899  
Fax: +1 510 841 2340  
E-mail: info@ismrm.org

## Awards Nominations

**T**he Awards Committee of the International Society for Magnetic Resonance in Medicine invites members of the Society to submit the names of potential nominees for the awards of the Society. Based on these proposals from the membership and its own suggestions, in case an insufficient number of proposals is submitted by the membership, the Awards Committee will recommend the names of the Award winners to the Board of Trustees. Awards will be bestowed at the 2004 Scientific Meeting of ISMRM.

### Gold Medal

This medal is awarded for major research contribution to the field of magnetic resonance within the scope of the Society. Proposals must include a nominating letter detailing the 5 to 10 most significant and most cited publications of which the nominee is an author, two seconding letters, and the *curriculum vitae* of the candidate.

### Silver Medal

This medal is awarded for outstanding contributions to the operation, effectiveness, or good reputation of the society. Proposals must include a nominating letter detailing specific contributions of the nominee, two seconding letters, and the *curriculum vitae* of the candidate.

### Fellow of the Society

This distinction is conferred on those who have made a significant and substantial contribution to research in a field within the Society's purpose or who have contributed in a significant manner to the development of the society and/or any of the Predecessor Societies. Proposals must include a nominating letter detailing specific contributions of the nominee, two seconding letters, and the *curriculum vitae* of the candidate. Fellows may also be nominated by a petition of no fewer than five (5) existing Fellows submitted to the Society Central Office by the submission deadline.

All awards proposals must be received in the Society's Central Office by **5 September 2003**. Send completed material to:

Richard L. Ehman, M.D.  
Chair, Awards Committee  
International Society for Magnetic Resonance in Medicine  
2118 Milvia Street, Suite 201  
Berkeley, California 94704, USA

**OFFICERS**

<i>President</i>	Michael E. Moseley, Ph.D.*
<i>President-Elect</i>	Walter Kucharczyk, M.D., F.R.C.P.(C)*
<i>Vice President</i>	Chrit Moonen, Ph.D.*
<i>Past President</i>	Richard L. Ehman, M.D.*
<i>Treasurer</i>	Roxanne Deslauriers, Ph.D.*
<i>Secretary</i>	David H. Miller, M.D.*

**BOARD OF TRUSTEES**

Peter S. Allen, Ph.D.  
 Peter Boesiger, Ph.D.  
 Linda Chang, M.D.  
 Jeffrey L. Duerk, Ph.D. (*ex officio*)\*  
 J. Paul Finn, M.D.  
 Donald M. Hadley, M.B.Ch.B., Ph.D.  
 Joseph V. Hajnal, Ph.D.  
 Margaret A. Hall-Craggs, M.D.  
 Peter Jezzard, Ph.D.  
 Risto A. Kauppinen, M.D., Ph.D.  
 Roland Kreis, Ph.D.  
 Vivian S. Lee, M.D., Ph.D.  
 David J. Lomas, M.D. (*ex officio*)  
 James F. M. Meaney  
 Shoji Naruse, M.D., Ph.D.  
 Michal Neeman, Ph.D.  
 C. Leon Partain, M.D., Ph.D. (*ex officio*)  
 Martin R. Prince, M.D., Ph.D.  
 Michael B. Smith, Ph.D.  
 A. Gregory Sorensen, M.D.  
 Patrick Stroman, Ph.D. (*ex officio*)  
 Peter Van Zijl, Ph.D.  
 Felix W. Wehrli, Ph.D. (*ex officio*)

\**Executive Committee*

**BOARD MOTIONS, JULY 2003**

It was moved, seconded and carried to approve the 31 initial applicants for Associate Membership.

It was moved, seconded and carried that the Executive Committee be required to authorize the opening and closing of all Society bank accounts.

It was moved, seconded and carried to approve the proposal for a Workshop on MR in Drug Development: From Discovery to Clinical Therapeutic Trials.

It was moved, seconded and carried to adopt the Study Group Web Activity Guidelines.

It was moved, seconded and carried that Drs. Allen and Hall-Craggs be elected to the Study Group Review Committee.

It was moved, seconded and carried that ESMRMB, the Korean Society for Magnetic Resonance in Medicine, and the Australian and New Zealand Society of Neuroradiology become members of ISAC.

It was moved, seconded and carried that Drs. Van Zijl (Chair), Jezzard, Hennig, Griffiths, and Le Bihan be elected to the Nominating Committee.

It was moved, seconded and carried to allocate US\$150,000 from the Scientific and Educational Reserve to support student stipends.

It was moved, seconded and carried to approve the draft budget.

It was moved, seconded and carried to increase membership dues for full members by US\$30 starting in 2004.

It was moved, seconded and carried that the cost of journals be increased from US\$90 to US\$100 for student members who choose to subscribe to a journal and for full members who subscribe to a second journal.

It was moved, seconded and carried to endorse the Workshop on Flow and Motion – Developing Roles of Magnetic Resonance.

It was moved, seconded and carried to hold the 2008 Annual Meeting in Toronto.

It was moved, seconded and carried to approve the revised Standard Operating Procedure for the Scientific Program Committee.

It was moved, seconded and carried to approve the revised Standard Operating Procedure for the Education Committee.

It was moved, seconded and carried to approve the applications for membership of ISAC received from the Polish Medical Society for MR and JSMRM.

It was moved, seconded and carried to alter the SOP on the Purpose of ISAC from “to facilitate the implementation of structures that allow closer cooperation of the regional organizations with ISMRM in future” to “to facilitate the implementation of structures that allow closer cooperation between ISAC members in future.”

It was moved, seconded and carried that Scott Pereles, MD, be appointed to the position of Associate Editor of *MR Pulse*.

It was moved, seconded and carried to support in principle having ISMRM members on the Board of the ABMP providing that the Society can withdraw if the accreditation process or other aspects of the arrangement are considered to be unsatisfactory.

## From The SMRT President

The SMRT held its 12th Annual Meeting in conjunction with the ISMRM Annual Meeting in Toronto, Ontario, Canada, on 8-10 July 2003. The meeting, "Excellence through World-Class Education," was attended by 255 technologists and MR professionals. Ten proffered papers and thirty-one Posters were presented during the meeting. Many thanks to the SMRT Program Committee, and its Chair, Laurian Rohoman, for their time and effort in preparing for this meeting and handling the rescheduling process with determination and grace. Thanks also to the SMRT Education Committee, and Chair, Julie Lowe, for their support for the meeting. The SMRT Forum, entitled "MR Purchase Decisions," was held during the 11th ISMRM Annual Meeting on Saturday, 12 July 2003. Executive member Nanette Keck served as Chair of the Forum, which provided radiologists and technologists with information relating to the types of MR systems available today and the advantages and disadvantages of each. Speaker Clair Sims provided a roadmap for those looking to purchase and site a MR system with her presentation "Analytic Approach to Equipment, Finances, Compatibility, Site Preparation, PAC System, and Delivery." This was followed by James Stuppino, who reviewed "Dedicated vs. Whole Body Scanning" followed by "1.0/1.5 T vs. Low-Field." The final speaker, Gary Glover, provided insight on "1.5T vs. 3T."

The SMRT membership has reached 1500 members and continues to grow. The Regional Committee has six Regional Seminars scheduled throughout North America with additional Regionals in the planning stages for 2004 worldwide. Cindy Comeau continues to serve as the SMRT Regional Committee Chair. Our focus this year is increasing SMRT membership and educational opportunities for technologists worldwide. Towards this end, we have instituted a campaign

to reach out to technologists around the globe and publicize the educational opportunities the SMRT provides. Todd Richards, our new Membership Committee Chair, is leading these efforts.

Plans for the SMRT Annual Meeting in Kyoto, May 2004, are underway. James Stuppino, the 2004 SMRT Program Chair, has met with members of the Japanese Society of Radiographic Technologists and the ISMRM Scientific Program Committee to design a program that will serve a global audience. Executive member John Christopher, along with members of the SMRT/ISMRM Forum Subcommittee, have selected "Artifacts and Corrections" as the topic for the SMRT Forum traditionally held on Monday afternoon at the ISMRM Annual Meeting.

The External Relations Committee, chaired by Maureen Hood, continues to interact and build relationships with other healthcare organizations. The SMRT, as part of the Associated Sciences Consortium of the Radiological Society of North America, works to produce educational seminars of interest to technologists and other medical science areas of diagnostic imaging for the Radiological Society of North America annual meeting each year. The SMRT is also involved with groups interested in promoting professionalism and opportunities for healthcare professions such as the Alliance for Quality Medical Imaging and Radiation Therapy, and the Health Professions Network. Both of these organizations are working to promote quality education for allied health professionals while at the same time addressing the current workforce shortages in certain healthcare fields.

The SMRT is committed to promoting education and professional values globally and has expanded its efforts to reach out to groups around the world through the establishment of the SMRT Global Relations Subcommittee, chaired by Muriel Cockburn. Two additional

SMRT Local Chapters, Central Virginia and Central Georgia have been formed, bringing the total to ten. Local Chapters meet periodically throughout the year, offering additional educational opportunities for MR technologists in their area.

A new opportunity for MR technology students to present an abstract or learning experience for review and posting on the SMRT Website is rolling out in September under the direction of Denise Davis, Student Scope Subcommittee Chair. We anticipate this program will provide SMRT exposure to MR technologists entering our field. Along these lines, the MR technologist list serve, which has grown to 800 members world wide, has proven to be a positive association as list members have greater exposure to SMRT-sponsored activities. The SMRT Educational Seminars "Home Study" program continues to be a success. These self-study articles provide Category A continuing education credits for technologists and an opportunity to enhance their technical proficiency and broaden their knowledge on a variety of topics.

The SMRT looks forward to an exciting year. The Policy Board and Executive Committee are dedicated to our goal of providing quality MR educational opportunities and promoting MR professionalism around the world. I look forward to working with this experienced team of qualified individuals and encourage all ISMRM members to support the SMRT by promoting membership for technologists within your workplace.

— Maureen Ainslie  
SMRT President

## 2004 Young Investigator Awards

The International Society for Magnetic Resonance in Medicine announces the competition for the Young Investigator Awards for the Twelfth ISMRM Meeting in Kyoto, Japan, in May 2004. Two awards will be given, the W.S. Moore Award in Clinical Science and the I.I. Rabi Award in Basic Science.

The **W.S. Moore Award** is given for original **clinical** research in magnetic resonance. This includes studies of applications of established MR methodologies, using either human or animal subjects. Examples include manuscripts reporting new applications of MR contrast agents, optimization of scanning protocols, new clinical applications of MRI, or results of clinical trials.

The **I.I. Rabi Award** is given for original **basic** research in magnetic resonance, such as reports of new MR methodologies.

The competition is open to clinical and basic scientists at the undergraduate, graduate, postgraduate, resident, and fellow levels working in MR research in academia, industry, or research institutions. Applicants must have had no more than the equivalent of five years' full-time postdoctoral or post-residency research, as documented by a curriculum vitae and letter of confirmation from their supervisor, mentor, or department head.

To be considered for either award, the applicant must submit a single manuscript describing original work in the field of MR in medicine, as well as a one-page abstract of the work via the ISMRM electronic submission website. The applicant must be the sole or primary author of this work. The manuscript may not have been submitted elsewhere prior to the submission deadline, with the exception of manuscripts submitted to one of the Society's journals (*JMRI* or *MRM*). Manuscripts previously submitted to either Society journal, but not yet published, are eligible for consideration. (This may result in a delay in publication, since YIA finalists and winning papers will be published after the Society's meeting in May 2004.)

The Young Investigator Awards Committee will select up to three finalists for each award. The finalists' manuscripts will be submitted to *JMRI* or *MRM* for journal review for publication. The remaining manuscripts will be returned to the authors. All abstracts will automatically be considered for the ISMRM Twelfth Scientific Meeting in Kyoto. The finalists will make both oral and poster presentations at the Twelfth Scientific Meeting. The winners will be selected on the basis of the scientific quality and originality of their abstracts, manuscripts, and presentations and will be named before the close of the Meeting.

### HOW TO APPLY:

#### Applications must include the following:

- Complete original manuscript, **with electronic version in pdf format**, typewritten and double-spaced throughout (including tables, footnotes, references, and figure captions), prepared on one side of 8.5 x 11 in. or A4 white paper, with 1-in. or 2.5-cm margins on all sides. All pages should be numbered consecutively, including references, tables, and figure legends. Three sets of original images and an electronic version of images in eps format must accompany the manuscript;
- A *curriculum vitae*;
- A printout of the electronically submitted abstract, with an electronic version in pdf format;
- A statement, with an electronic version in pdf format, from the applicant's mentor, supervisor, or department head certifying the originality and independence of the work and that the applicant meets all the criteria for the competition. The statements should discuss the candidate's specific contribution to the work with an estimate of the percentage of the contribution made by the candidate (which should be substantial).

(**Note:** The YIA Competition is completely separate from the Student Stipend Program. Any YIA applicant interested in the Student Stipend Program must apply to that program separately.)

### DEADLINE:

Applications must be received no later than **Wednesday, 15 October 2003**.

## Young Investigator Awards Check Sheet

### Send completed Checksheet and all materials to:

Denis Le Bihan, M.D., Ph.D., *Chair*  
Young Investigator Awards Committee  
International Society for Magnetic Resonance in Medicine  
2118 Milvia Street, Suite 201  
Berkeley, CA 94704 USA

Degree/Degree Track

Honorific (circle): Dr. Prof. Mr. Ms. Mrs.

M.D.  Ph.D.

Applicant Name \_\_\_\_\_  
Family Name First Middle

Institution \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

City \_\_\_\_\_

State/Province \_\_\_\_\_

Country \_\_\_\_\_

Postal Code/Zip+4 \_\_\_\_\_

Contact Phone Number \_\_\_\_\_

Home Phone Number \_\_\_\_\_

E-mail Address \_\_\_\_\_

Supervisor \_\_\_\_\_

I am entering the (check one)

W.S. Moore Award Competition

I.I. Rabi Award Competition

I would like my manuscript reviewed for publication in (check one)

*Magnetic Resonance in Medicine*

*Journal of Magnetic Resonance Imaging*

### ENCLOSED:

Original Manuscript and an electronic version in pdf format

*Curriculum Vitae*

Abstract and an electronic version in pdf format

Supervisor's Letter and an electronic version in pdf format

### PLEASE CHECK!

Yes. I have indicated both the Award for which I am competing and the Journal for which I wish my manuscript to be reviewed on my manuscript's title page.

If I am not selected as a finalist, consider my abstract for the ISMRM Twelfth Scientific Meeting and Exhibition.

Yes  No

FOR OFFICE USE ONLY

NO.

DATE RECEIVED

ISMRM Workshop on

# Dynamic Spectroscopy and Measurements of Physiology, Metabolism and Function

6-8 September 2003 Orlando, Florida, USA

The purpose of this workshop is to bring together basic scientists and clinicians to discuss recent advances in *in vivo* spectroscopy elucidating the relationship between metabolism and function. The workshop will present sessions devoted to current frontiers of MR spectroscopy in physiology, metabolism, and function in the brain, liver, skeletal muscle, and heart. Specific areas include: 1) the relationship between functional activity and neurotransmitter metabolism and physiology, 2) the relationship between lipids and glycogen and the development of diabetes and obesity, and 3) bioenergetics and function in ischemic heart disease. Invited talks will be combined with proffered papers, and there will be ample time for discussion.

### PRELIMINARY LIST OF SESSIONS

- Brain Metabolism: Neuronal/Glial Coupling and Neurotransmission.
- The Coupling Between Brain Function, Physiology and Metabolism.
- Liver and Skeletal Muscle Metabolism: Methods and Basic Mechanisms.
- Liver and Skeletal Muscle Metabolism: Applications to Diabetes and Obesity.
- Metabolism and Function in the Heart: *In Vivo* Detection of Ischemia.

### EDUCATIONAL OBJECTIVES

- Upon completion of this workshop, participants should be able to:
- Identify the biochemical assumptions, metabolic modeling and MR spectroscopic methods utilized to measure neurotransmitter metabolism and the metabolic coupling between neuronal and glial cells;
  - Discuss the relationship between neuronal activity, cerebral blood flow, oxidative metabolism, BOLD fMRI and electrical activity in the brain and how they can be measured using MR spectroscopy and imaging;
  - Discuss how MR spectroscopy can be used to quantify the flux through major metabolic pathways in the liver, and their relationship to diabetes;
  - Describe the methodology and assumptions underlying MR measurements of intra-myocellular and intra-hepatic lipids and their role in the development of obesity and diabetes.
  - Describe how MR spectroscopy and imaging can be used to identify ischemic heart disease.

### AUDIENCE DESCRIPTION

This meeting is designed to appeal to:

- Basic scientists who use MR spectroscopy and imaging to measure metabolism in the brain, liver, and heart;
- Clinicians who are interested in using non-invasive methodologies that can measure metabolism in the brain, heart, and liver, and
- MR physicists interested in the development and application of dynamic spectroscopy methods.

### CREDIT HOURS AVAILABLE

The International Society for Magnetic Resonance in Medicine designates this educational activity for up to 18 **category 1 credits** towards the Physician's Recognition Award of the American Medical Association. Each physician should claim only those credits actually spent in the activity.

### VENUE AND ACCOMMODATIONS

The workshop will take place at The Westin Grand Bohemian, Orlando, Florida, USA.

### FOR MORE INFORMATION OR A BROCHURE, PLEASE CONTACT:

ISMRM, 2118 Milvia Street, Suite 201, Berkeley, California 94704 USA  
Tel: +1 510 841 1899 Fax: +1 510 841 2340 E-mail: [info@ismrm.org](mailto:info@ismrm.org)

Visit the ISMRM website at <http://www.ismrm.org>

### WORKSHOP ORGANIZING COMMITTEE

- Hoby Hetherington, Ph.D., Albert Einstein College of Medicine, The Bronx, New York, USA
- A. Dean Sherry, Ph.D., University of Texas at Dallas, Dallas, Texas, USA
- Jan den Hollander, Ph.D., University of Alabama at Birmingham, Birmingham, Alabama, USA

### WORKSHOP SPEAKERS\*

- Kevin L. Behar, Ph.D., Yale University School of Medicine, New Haven, Connecticut, USA
- James A. Balschi, Ph.D., Brigham and Women's Hospital, Boston, Massachusetts, USA
- Steven D. Buchthal, Ph.D., University of Alabama at Birmingham, Birmingham, Alabama, USA
- Wei Chen, Ph.D., University of Minnesota, Minneapolis, Minnesota, USA
- Jan A. den Hollander, Ph.D., University of Alabama at Birmingham, Birmingham, Alabama, USA
- Rolf Gruetter, Ph.D., University of Minnesota, Minneapolis, Minnesota, USA
- Hoby P. Hetherington, Ph.D., Albert Einstein College of Medicine, The Bronx, New York, USA
- Jong-Hee Hwang, Ph.D., Albert Einstein College of Medicine, The Bronx, New York, USA
- Fahmeed Hyder, Ph.D., Yale University School of Medicine, New Haven, Connecticut, USA
- Richard P. Kennan, Ph.D., Albert Einstein College of Medicine, The Bronx, New York, USA
- Seong-Gi Kim, Ph.D., University of Pittsburgh, Pittsburgh, Pennsylvania, USA
- Jullie W. Pan, M.D., Ph.D., Albert Einstein College of Medicine, The Bronx, New York, USA
- Gianluca Perseghin, M.D., Scientific Institute H. San Raffaele University, Milan, Italy
- Kitt M.F. Petersen, M.D., Yale University School of Medicine, New Haven, Connecticut, USA
- Michael Roden, M.D., University of Vienna, Vienna, Austria
- Brian Davis Ross, M.D., Ph.D., Huntington Medical Research Institute, Pasadena, California, USA
- Douglas L. Rothman, Ph.D., Yale University School of Medicine, New Haven, Connecticut, USA
- A. Dean Sherry, Ph.D., University of Texas at Dallas, Richardson, Texas, USA
- Gerald I. Shulman, M.D., Ph.D., Yale University School of Medicine, New Haven, Connecticut, USA
- Harold M. Swartz, M.D., Ph.D., Dartmouth Medical School, Hanover, New Hampshire, USA
- Peter Vermathen, Ph.D., Inselspital and University, Bern, Switzerland
- Han Wen, Ph.D., National Institutes of Health, Bethesda, Maryland, USA

\*Partial List





## ISMRM Workshop on

MR Technology to Assess MS Pathology *In Vivo*

9-11 October 2003, San Servolo, Venice, Italy



The aim of this workshop is to bring together MR physicists, radiologists and neurologists to discuss the MR correlates of the various pathological substrates of MS, ranging from inflammation to cortical plasticity. The relevance of conventional MRI, structural MR-based techniques (i.e., magnetization transfer, diffusion-weighted and MR spectroscopy) and functional MRI will be discussed. The relationship between inflammation and neurodegeneration will be extensively addressed in a separate session, given its relevance for the development of new therapeutic strategies targeted against the more disabling substrates of the disease. Finally, MR imaging of MS-related diseases will be the subject of a plenary session, with particular emphasis on the aspects of differential diagnosis.

**PRELIMINARY LIST OF SESSIONS**

Understanding *in-vivo* the various pathological substrates of MS using MR technology

- Blood-brain barrier increased permeability
- Acute inflammation
- 'Low-burning/grade' inflammation
- Demyelination/remyelination and astrogliosis
- Axonal dysfunction/loss
- Cortical plasticity

From inflammation to 'neurodegeneration'

- Can we agree on definitions?
- Mechanisms
- Clinical aspects importance and measures
- MRI aspects

MR imaging of MS related diseases

**PLUS**

Workshops continuing on all three days:

- MRI and inflammation
- MRI and demyelination
- MRI and axonal loss/dysfunction
- MRI study protocols for other WM disorders

**EDUCATIONAL OBJECTIVES**

Upon completion of this workshop, participants should be able to:

- Identify the MR correlates of the various pathological substrates of MS;
- Apply and interpret structural and functional MR-based techniques to study the characteristics and evolution of MS-related damage;
- Describe the "state-of-the-art" knowledge as regards the relationship between inflammation and neurodegeneration in MS;
- Describe MR imaging findings in MS-related diseases;
- Diagnose MS vs. other demyelinating diseases by combining clinical, laboratory and MR-derived information.
- Design appropriate MR protocols to help in the differential diagnosis of MS vs. other demyelinating diseases.

**CREDIT HOURS AVAILABLE**

The International Society for Magnetic Resonance in Medicine designates this educational activity for up to **21 category 1 credits** towards the Physician's Recognition Award of the American Medical Association. Each physician should claim only those credits actually spent in the activity.

**FOR MORE INFORMATION OR A BROCHURE, PLEASE CONTACT:**

ISMRM, 2118 Milvia Street, Suite 201, Berkeley, California 94704 USA  
Tel: +1 510 841 1899 Fax: +1 510 841 2340 E-mail: info@ismrm.org

**AUDIENCE DESCRIPTION**

- MDs involved in neurology, neuroradiology, and radiology with a special interest in MS and other demyelinating diseases (both specialists with a past experience in the field and residents in these three medical disciplines).
- PhDs involved in the development and clinical implementation of MR-based techniques.
- MDs from adjacent disciplines (immunology, pathology, biochemistry), potentially interested in increasing their knowledge about *in vivo* markers of the disease pathological substrates.

**WORKSHOP ORGANIZING COMMITTEE**

- Massimo Filippi, M.D., Scientific Institute H. San Raffaele, Milan, Italy
- Andrea Falini, M.D., Scientific Institute H. San Raffaele, Milan, Italy
- Giancarlo Comi, M.D., Scientific Institute H. San Raffaele, Milan, Italy
- Marco Rovaris, M.D., Scientific Institute H. San Raffaele, Milan, Italy
- Giuseppe Scotti, M.D., Scientific Institute H. San Raffaele, Milan, Italy

**WORKSHOP SPEAKERS\***

- Douglas L. Arnold M.D., Montreal Neurological Institute, Montréal, Québec, Canada
- Frederik Barkhof, M.D., Ph.D., VU Medical Centre, Amsterdam, The Netherlands
- Isabelle Berry, M.D., Ph.D., Hôpital Rangueil, Toulouse, France
- Alberto Bizzi, M.D., Istituto Nazionale Neurologico 'C. Besta', Milan, Italy
- Bruno Brochet, M.D., CHU Pellegrin, Bordeaux, France
- Giancarlo Comi, M.D., Scientific Institute H. San Raffaele, Milan, Italy
- Pierre O. Couraud, Ph.D., Institut Cochin de Genetique Moleculaire, Université Paris V, Paris, France
- Vincent Dousset, M.D., CHU Pellegrin, Bordeaux, France
- Andrea Falini, M.D., San Raffaele Hospital, Milan, Italy
- Franz Fazekas, M.D., Karl-Franzens University, Graz, Austria
- Massimo Filippi, M.D., Scientific Institute H. San Raffaele, Milan, Italy
- Richard S.J. Frackowiak, F.R.C.P., Institute of Neurology-UCL, London, England, UK
- Robert I. Grossman, M.D., NYU School of Medicine, New York, New York, USA
- Hans P. Hartung, M.D., Heinrich-Heine-Universität, Düsseldorf, Germany
- Clive P. Hawkins, M.D., Stoke-on-Trent, England, UK
- Reinhard Hohlfeld, M.D., Klinikum Grosshadern, Munich, Germany
- Matilde Ingles, M.D., NYU School of Medicine, New York, New York, USA
- Catherine Lubetzki, M.D., Hôpital de la Salpêtrière, Paris, France
- Fred D. Lublin, M.D., Mount Sinai School of Medicine, New York, New York, USA
- Samuel W. Ludwin, M.D., Queen's University, Kingston, Ontario, Canada
- Geert J. Lycklama a' Nijeholt, M.D., Polikliniek VU Hospital, Amsterdam, The Netherlands
- Gianvito Martino, M.D., Scientific Institute H. San Raffaele, Milan, Italy
- Mario Mascalchi, M.D., Università di Firenze, Florence, Italy
- Xavier Montalban, M.D., Vall d'Hebron Hospital, Barcelona, Spain
- Waqar Rashid, M.D., Institute of Neurology-UCL, London, England, UK
- Peter Rieckmann, M.D., Neurologische Klinik und Poliklinik, Universität Würzburg, Würzburg, Germany
- Maria A. Rocca, M.D., Scientific Institute H. San Raffaele, Milan, Italy
- Marco Rovaris, M.D., Scientific Institute H. San Raffaele, Milan, Italy
- Mario Savaioardo, M.D., Istituto Nazionale Neurologico 'C. Besta', Milano, Italy
- Neil J. Scolding, M.D., Frenchay Hospital, Bristol, England, UK
- Giuseppe Scotti, M.D., Scientific Institute H. San Raffaele, Milan, Italy
- Jack H. Simon, M.D., Ph.D., University of Colorado Health Science Center, Denver, Colorado, USA
- Alan J. Thompson, M.D., Institute of Neurology-UCL, London, England, UK
- Bruce D. Trapp, M.D., The Cleveland Clinic, Cleveland, Ohio, USA
- Fabio Triulzi, M.D., Ospedale dei Bambini V. Buzzi, Milan, Italy
- Jerry S. Wolinsky, M.D., University of Texas Health Sciences Center, Houston, Texas, USA

\*Partial List

Visit the ISMRM website at <http://www.ismrm.org>



*ISMRM Workshop on*  
**MR in Drug Development:  
From Discovery to Clinical Therapeutic Trials**

**18-20 March 2004**

**Hilton McLean Tysons Corner, McLean, Virginia, USA**

This workshop is seen as a major step forward in bringing together the various players who will help MR technologies approach their potential for beneficial impact on the drug development process. We believe that this will ultimately lead to the development of more efficacious therapies which will enhance public health and safety worldwide.

While there has never been any doubt that MR technologies could have a significant impact on drug development, the issue has been a lack of understanding of the problems and obstacles involved in achieving this. This meeting will provide an opportunity for scientists, clinicians, regulators and industry representatives to study the issues that are being encountered or will need to be addressed in order to advance the incorporation of MR technologies into drug development. The workshop will cover aspects of the drug development process, technology considerations, and logistics regarding preclinical and clinical studies that will provide the attendees with a broad perspective of the complex issues with which they must deal.

While attempts have been made previously to bring together representatives from various sections of the scientific community to deal with imaging and drug development, few of them have defined the most critical issues which need to be addressed. This is the first meeting of its type, and over two days it will identify the obstacles to incorporating MR technologies as a routine tool in drug development, and offer directions for overcoming these obstacles. Experts will provide a perspective on the basic metabolic processes of ischemia, and there will be representation from both North America and Europe.

**SESSION TOPICS**

- Drug Chemistry: Preclinical Disease Models
- Preclinical Safety Models: Translational Research
- Overview of Drug Development
- Phase II/III Regulatory Experiences
- Panel Discussion on Future Directions

**WORKSHOP ORGANIZING COMMITTEE**

- David S. Lester, Ph.D., Chair
- Jeffrey L. Evelhoch, Ph.D.
- John R. Griffiths, M.B.B.S., D.Phil.
- Nakissa Sadrieh
- Liqun Wang, Ph.D.
- John C. Waterton, Ph.D.
- Steve C. R. Williams, Ph.D.
- Andy Van Bruggen

**FOR FURTHER INFORMATION,  
PLEASE CONTACT ISMRM**

Phone: +1 510 841 1899  
FAX: +1 510 841 2340  
E-mail: [info@ismrm.org](mailto:info@ismrm.org)  
Website: <http://www.ismrm.org>



**Endorsed by ISMRM**

**2004 International Workshop on  
Magnetic Resonance Imaging  
of Flow and Motion:  
Developments and Applications  
in Measurement and Modelling**

**MARCH 2004**

**USZ - ETH Campus, Zurich Switzerland**

Contact: *Dr. Paul Summers, Chair, ISMRM Flow and Motion Study Group*  
Tel: +41 1255 5643  
Fax: +41 1255 4504  
E-mail: [paul.summers@usz.ch](mailto:paul.summers@usz.ch)  
Website: <http://www.mr.ethz.ch/flowmotion04/>



2003

SEPTEMBER

**Meeting:** ISMRM Workshop on Dynamic Spectroscopy and Measurements of Physiology, Metabolism and Function  
**Date:** 6-8 September 2003  
**Where:** Orlando, Florida, USA  
**Contact:** International Society for Magnetic Resonance in Medicine  
 2118 Milvia Street, Suite #201, Berkeley, California 94704 USA  
**Phone:** +1 510 841 1899  
**Fax:** +1 510 841 2340  
**E-mail:** info@ismrm.org  
**Website:** http://www.ismrm.org

**Meeting:** 4th International Conference on Noninvasive Functional Source Imaging  
**Date:** 10-13 September 2003  
**Where:** Chieti, Italy  
**Contact:** ITAB- Institute of Advanced Biomedical Technologies, University "G. d'Annunzio", Via dei Vestini, 33, 66013, Chieti, Italy  
**Tel:** +39 0871 3556901-2  
**Fax:** +39 0871 3556030  
**E-mail:** nfsi2003@itab.unich.it  
**Website:** http://www.itab.unich.it/nfsi2003

**Meeting:** Radiology in Scotland  
**Date:** 14-20 September 2003  
**Where:** St. Andrews and Edinburgh, Scotland, UK  
**Contact:** Medical College of Wisconsin and the Scottish Radiological Society, Radiology International Inc.,  
 22 South Ellsworth Road, Sharon, Connecticut, USA  
**Tel:** +1 860 364 5020  
**Fax:** +1 860 364 5040  
**E-mail:** info@radiologyintl.com  
**Website:** http://www.radiologyintl.com

**Meeting:** ESMRMB 20th Annual Meeting  
 European Multidisciplinarity  
**Date:** 18-21 September 2003  
**Where:** Rotterdam, The Netherlands  
**Contact:** ESMRMB Office, Neutorgasse 9/2a, AT-1010 Vienna, Austria  
**Tel:** +43 1 535 13 06  
**Fax:** +43 1 535 70 41  
**E-mail:** office@esmrb.org  
**Website:** http://www.esmrb.org

**Meeting:** XV Annual International Workshop  
**Date:** 24-26 September 2003  
**Where:** O'Reilly Conference Centre, Dublin, Ireland  
**Contact:** The International MR Angio Club,  
**Tel:** +353 1 4733 788  
**Fax:** +353 1 4733 777  
**E-mail:** jmeaney@leap.ie  
**Website:** http://www.MRclub2003.com

OCTOBER

**Meeting:** ISMRM Workshop on MR Technology to Assess MS Pathology In Vivo  
**Date:** 9-11 October 2003  
**Where:** San Servolo, Venice, Italy  
**Contact:** International Society for Magnetic Resonance in Medicine  
 2118 Milvia Street, Suite #201, Berkeley, California 94704 USA  
**Phone:** +1 510 841 1899  
**Fax:** +1 510 841 2340  
**E-mail:** info@ismrm.org  
**Website:** http://www.ismrm.org

**Meeting:** 2003 Minnesota Workshops  
 High Field MR Imaging and Spectroscopy,  
 and Magnetic Resonance Imaging of Brain Function  
**Date:** 17-20 October 2003  
**Hands On fMRI Training Course**  
**Date:** 21-22 October 2003  
**Where:** Radisson Hotel Metrodome at the University of Minnesota,  
 Minneapolis, Minnesota, USA  
**Contact:** Center for Magnetic Resonance Research,  
 Department of Radiology, University of Minnesota  
 2021 6th Street SE, Minneapolis, Minnesota USA  
**Tel:** +1 612 626 2001  
**Fax:** +1 612 626 2004  
**E-mail:** deb@cmrr.umn.edu  
**Website:** http://www.cmrr.umn.edu

**Meeting:** A Training Course in Magnetic Resonance Imaging and Spectroscopy  
**Date:** 20-22 October 2003  
**Where:** Sutton, Surrey, UK  
**Contact:** Royal Marsden NHS Trust/The Institute of Cancer Research and The Institute of Physics and Engineering in Medicine  
**Tel:** +44 0 20 8661 3711  
**Fax:** +44 0 20 8661 0846  
**E-mail:** gsp@icr.ac.uk  
**Website:** http://www.icr.ac.uk/cmages/courses.html

NOVEMBER

**Meeting:** California Dreamin'  
 Clinical MR Spectroscopy Course  
 Catch the MRS Wave!  
**Date:** 7-10 November 2003  
**Where:** Pasadena, California, USA  
**Contact:** Huntington Medical Research Institutes, MR Spectroscopy Unit,  
 660 S. Fair Oaks Avenue, Pasadena, California 91105 USA  
**Tel:** +1 626 397 5840  
**Fax:** +1 626 397 5846  
**E-mail:** mrs@hmri.org  
**Website:** http://www.mrs-hmri.org

2004

MARCH

**Meeting:** ISMRM Workshop on MR in Drug Development: From Discovery to Clinical Therapeutic Trials  
**Date:** 18-20 March 2004  
**Where:** Hilton McLean Tysons Corner, McLean, Virginia, USA  
**Contact:** International Society for Magnetic Resonance in Medicine  
 2118 Milvia Street, Suite #201, Berkeley, California 94704 USA  
**Phone:** +1 510 841 1899  
**Fax:** +1 510 841 2340  
**E-mail:** info@ismrm.org  
**Website:** http://www.ismrm.org

**Meeting:** 2004 International Workshop on Magnetic Resonance Imaging of Flow and Motion: Developments and Applications in Measurement and Modelling Endorsed by ISMRM  
**Date:** March 2004  
**Where:** USZ - ETH Campus, Zurich Switzerland  
**Contact:** Dr. Paul Summers, Chair, ISMRM Flow and Motion Study Group  
**Tel:** +41 1255 5643  
**Fax:** +41 1255 4504  
**E-mail:** paul.summers@usz.ch  
**Website:** http://www.mr.ethz.ch/flowmotion04/



Mark Your  
Calendar!

## ISMIRM IMPORTANT DATES AND DEADLINES

### 5 SEPTEMBER 2003

Deadline for receipt of nominations for Gold Medal, Silver Medal, and Fellow of the Society.

### 6-8 SEPTEMBER 2003

ISMIRM Workshop on Dynamic Spectroscopy and Measurements of Physiology, Metabolism and Function  
Orlando, Florida, USA

### 15 OCTOBER 2003

Deadline for receipt of entries for the Young Investigator Awards competition.

### 9-11 OCTOBER 2003

ISMIRM Workshop on MR Technology to Assess MS Pathology *In Vivo*  
San Servolo, Venice, Italy

### 7 NOVEMBER 2003

Deadline for receipt of nominations for Vice President, and for six members of the Board of Trustees of the Society.

### 19 NOVEMBER 2003

Deadline for receipt of Abstract submissions.

### 19 NOVEMBER 2003

Deadline for receipt of Educational Stipend Applications.

### 19 NOVEMBER 2003

Deadline for receipt of Clinical Resident Stipend Applications.

### 19 NOVEMBER 2003

Deadline for receipt of New Entrant Stipend Applications.

### 19 NOVEMBER 2003

Deadline for receipt of E.K. Zavoisky Stipend Program Applications.

### 24 JANUARY 2004

Deadline for receipt of Proffered Papers for the SMRT 13th Annual Meeting.

### 31 JANUARY 2004

Deadline for receipt of Applications for the 2004 ISMRM/Amersham Health MRI Fellowship Competition.

### 18-20 MARCH 2004

ISMIRM Workshop on MR in Drug Development: From Discovery to Clinical Therapeutic Trials  
McLean Hilton, Virginia, USA

### 2 APRIL 2004

Deadline for Advance Registration for the ISMRM Twelfth Scientific Meeting & Exhibition.

### 15-21 MAY 2004

ISMIRM Twelfth Scientific Meeting & Exhibition.



### Bill Negendank Award Fund

In memory of William George Negendank, M.D., his colleagues in the ISMRM MR of Cancer Study Group have established the **Bill Negendank Award Fund** to recognize outstanding young investigators in the field of Cancer MR (see *MR Pulse*, Vol. 3, No. 3, page 6). To make your tax-deductible contribution, please send your check made payable to the ISMRM or submit your Visa, MasterCard, American Express, or Eurocard number, expiration date, and amount you wish to donate to the following address:

Bill Negendank Award Fund  
International Society for  
Magnetic Resonance in Medicine  
2118 Milvia Street, Suite 201  
Berkeley, CA 94704, USA

*International Society for  
Magnetic Resonance in Medicine*  
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