



MR PULSE

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Letter From The President

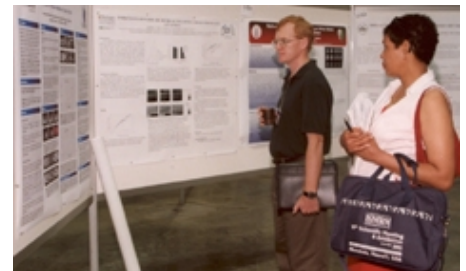
What is the ISMRM? Many people would answer that it is an important scientific and educational meeting, held yearly in various locations around the world. Of course, the ISMRM is much more than that; it is an international, nonprofit, scientific association dedicated to promoting "communication, research, development, and applications in the field of magnetic resonance in medicine and biology." Yet, the first response reminds us that organizing a successful annual scientific and educational meeting is probably the most important role of our Society.

By any standard, this is a huge undertaking. Advance arrangements and financial commitments must be made years in advance for each Annual Meeting. The budget for each of the Annual Meetings of our Society is now well in excess of one million US dollars. More than 12 months of detailed planning goes into the scientific, educational, technical, and social programs of each Annual Meeting. This work is done by dozens of members of the society in many committees and by the staff in the Central Office. During the meeting itself, literally hundreds of members of the Society serve to moderate and organize the scientific and educational activities, while the staff of the Central Office manage the myriad of operational details of the meeting.

The elected leadership of the Society takes its responsibility for the success of the Annual Meeting very seriously. The meeting is clearly the premier yearly international scientific gathering in our discipline. It is also a major financial undertaking. The sought-after goal in this regard is a break-even outcome, but every year the Society flirts with the possibility of a major financial loss.

We are all aware of the many repercussions of the events of September 2001. Major scientific meetings around the world were scaled back and in some cases even cancelled. Hence, in months leading up to the 2002 Annual Meeting of our Society in Honolulu, there was some legitimate concern for its fate.

As incoming President, I was thrilled to see that, by any metric, our 2002 meeting was one of the most successful in the history of the Society. As reported in the last issue of *MR Pulse*, there was an unprecedented number of abstract submissions for the meeting. Attendance at the meeting itself was also very strong, with a total



Honolulu meeting participants view posters and discuss scientific findings.

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registration of 3400 participants. Record numbers of parallel scientific sessions were held. The educational program at the beginning of the week was exceptionally well attended, with more than 1500 participants, a new record for the Society. The social events were also well attended and clearly enjoyed by the membership.



Chris Boesch

Many people deserve credit for this outcome. Dr. Chris Boesch, the outgoing President of the Society, carefully selected many of the key individuals who planned the meeting. He then supported them in their

work. In addition to fostering the success of the meeting, Dr. Boesch has worked effectively to emphasize the international character of the ISMRM and to enhance its ability to act strategically on behalf of its members.



Jeffrey Evelhoch

The Society also owes a debt of gratitude to Dr. Jeff Evelhoch, who served brilliantly as Scientific Program Chair for the Honolulu meeting. With Dr. Evelhoch's leadership, many significant challenges, such as the

last minute loss of the electronic abstract submission system, were overcome. Credit for the success of the meeting is also due to the Scientific Program Committee, other Committees of the ISMRM, the Board of Trustees, and the staff of the Central Office of the Society. I would especially like to acknowledge the highly-effective management of Jane Tiemann, the Executive Director of the Society, and the contributions of Roberta Kravitz, Director of Meetings. Thanks also go to the Corporate Members and Exhibitors. And of course, the most important people who ensured the vitality of the Annual Meeting this year were the members of our Society.

As we look forward to the 2003 Annual Meeting in Toronto, every element seems in place to repeat or perhaps even exceed the success of the 2002 meeting. The location provides us with a superb venue in one of the great cities of the world. Dr. David Lomas, the Scientific Program Chair for the 2003 Annual Meeting, has already been working for months with his Committee to develop a program that will combine the best science with fresh plenary material and outstanding educational programs. The Society intends to re-institute electronic submission of scientific abstracts for our next meeting. The trend to electronic presentation at our meetings will be emphasized. Planning is underway to provide registered attendees with wireless access points to the Internet and the ability to download program information to PDA's. These and other innovations indicate the determination of the Society to continue to improve our Annual Meeting.

Each year, the Society honors a number of individuals with awards at the opening session of the Annual Meeting. The Gold Medal of the ISMRM is awarded for major research contributions within the scope of the Society. The Silver Medal is awarded for outstanding contributions to the operation, effectiveness, or good reputation of the Society. In addition to those individuals who are awarded medals, the Society also confers the distinction of Fellow of the Society to recognize other individuals who have made substantial contributions to research in a field within the purpose of the Society or who have contributed in a significant way to the development of the Society. At this time, I would join Dr. Chris Boesch, Chair of the Awards Committee, in inviting members of the Society to nominate individuals who may be most meritorious for these awards. In order to make a nomination, please contact the Central Office of the Society (info@ismrm.org), providing the name and affiliation of the nominee, together with a few sentences describing the accomplishments of the individual and the type of award that would be merited.

2002 Gold Medal Winners



Alan P. Koretsky



Stephen J. Riederer

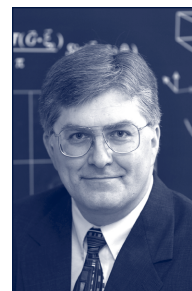
2002 Distinguished Service Medal



Gary D. Fullerton

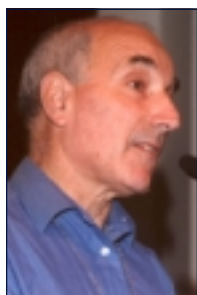
The recent creation of a new Institute at the NIH, devoted to Imaging and Biological Engineering, is a sign of the increasing recognition of the importance of the disciplines of our membership. The ISMRM is flourishing and expanding even in a time when current events and financial factors are causing other scientific organizations to cut back. Clearly, it is a momentous time for our Society.

— Richard L. Ehman,
ISMRM President



Report from the Chairman of the Young Investigator Awards Subcommittee

Every year at this time, a tempting notice appears in the journals: "YIA Applications Due." For the Committee and its Chairman, this causes barely a ripple, but in the top MR research groups around the world, it has an alarming fascination. After all, our Society is home for several thousand Young (and not so young) Investigators, all of whom are likely to make scientific history at some point in their careers. Why not now?



Brian David Ross

Well, the answer to that is responsible for the 'alarm.' ISMRM runs what must be the toughest program of any Society with which I have been associated. Work must be complete; a final manuscript must be ready, all within a few short weeks of an exhausting Annual Meeting, at which the same Young Investigators have emptied their hearts and minds of original thoughts, ready for a rest from MR! The manuscript must be all your own work, and your supervisor must say so; but of course as we all know, even the simplest MR experiment needs a help from a small army to be successful. So a little bit of diplomacy is required also. Then the manuscript needs to be copied 15 times and mailed before a deadline. Finally, the YIA Committee had better take notice as

anything between 15 and 35 such offerings thunder through their mail boxes and must be read, understood and evaluated. Like a PhD thesis, the Young Investigator is way ahead of his or her examiners at that point, and we can only do our best as we see the best work from a dozen different aspects of our ever-growing field.

We ask ourselves, is it new? is it pretty? is it true? before getting down to a line by line review. At this stage, even rather excellent work may not make the 'cut' into the semi-final round. However, if you are lucky enough to get there, then at least you can be assured of review by your peers and mentors with the right esoteric expertise, as Felix Wehrli or Leon Partain (Editors in Chief of ISMRM journals) select 3 or 4 reviewers for your life's work. Because, as you are well aware, the next hurdle for our Young Investigator is that the manuscript must be accepted for "publication." Only then does the YIA Committee settle down with cold-flannels, teleconferences, and sheer hard work, to pick up to six finalists (3 for each, the W.S. Moore and I.I. Rabi Award).

We all know the names of the Finalists (in fact, this year in Hawai'i, there were five— Messrs. Quick, Sehy, Sussman, Fautz, and Ward), but lost to 'history' are the names of those who endured all of the above process! We applaud them for their grit and determination.



Heidi A. Ward,
winner of the 2002
W.S. Moore Award.



Hans-Peter Fautz,
winner of 2002
I.I. Rabi Award.

Of the Finalists we get plenty of chance to hear more as they have prepared a longer than usual talk (a nerve-wracking experience for many), wait expectantly by their 'baby' (I mean poster), and then sit through the Award ceremony early one morning. We will undoubtedly hear much more of all five of these outstanding young scientists.

The winners are selected after some more discussions in smoke-filled rooms. Looking back, it seems so obvious who the ultimate winners are to be— but I can assure you this year, as every year, there was nothing but excellence all round. Congratulations to Dr. Fautz of the University of Freiburg, Germany and Dr. Ward of the Mayo Clinic, Rochester, Minnesota for an outstanding job. Your Young Investigator Award proves you have brains, stamina, and a great future.

As Chairman, my task was a real delight, supported by energetic and knowledgeable YIA Committee members: Danielle Baleriaux, Peter A. Bandettini, J. Paul Finn, Hiroto Hatabu, Peter Reimer, J. Thomas Vaughan, and Markus von Kienlin to whom all thanks of the Society go out.

— Brian David Ross
Chair, 2002 Young Investigator Awards Committee



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

Editor's Note: For more information about the Young Investigator Awards and a YIA application check sheet, see page 16.

2002 SCIENTIFIC PROGRAM COMMITTEE REPORT

The 10th Annual Meeting of the ISMRM, held in Honolulu from May 18-24, 2002, was one of the most successful in our history. The outstanding meeting facilities at the Honolulu Convention Center, the first-rate audiovisual crew, and the incredible hospitality of the Hawaiian Islands provided an ideal setting for this year's meeting. The success of the meeting can be measured, in part, by the 8% increase over the record number of abstracts submitted for the Glasgow meeting, having nine parallel sessions for the first time, the more than 1700 posters that were presented and the total registration exceeding 3400. There were more educational courses for the weekend educational program in Honolulu, and the more than 1500 participants was also a record. Of course, since numbers cannot tell the whole story, the high quality of the science presented in Honolulu further substantiates the success of the meeting and the continued strength of the ISMRM. The quality of the sessions was evident not only by the feedback provided formally through written evaluations or informally, but also by the excellent attendance in the sessions throughout the week.

In the tradition of the opening Lauterbur Lecture combining the science and history of MR developments of unique importance to this field and in recognition of this as the 10th Annual Meeting of the ISMRM, which is now clearly established as the preeminent society in the field of magnetic resonance in medicine, we were extremely pleased and honored to have Professor Paul Lauterbur present the lecture named in his honor on "MRI - From Beginnings to Maybe."

Professor Lauterbur started the meeting off with an entertaining and informative lecture providing insight into the early days of MRI, including the significant obstacles faced in the initial development of MRI and the important contributions from several of our members. In the Monday plenary lectures, J. Thomas Vaughan, David G. Norris, and Julie W. Pan considered recent applications of *in vivo* imaging and spectroscopy at high field and the technical challenges to future progress at high field. On Tuesday, Christopher Bajzer, Norbert M. Wilke, and Michael Hennerici highlighted the role of embolization in arteriosclerotic vascular disease and the role of MR in evaluation of arteriosclerosis in the heart and brain. In Wednesday's Plenary Session, Winfried Denk's overview of the state of the art of multi-photon microscopy set the standard for microscopic imaging, and Russell E. Jacobs and G. Allan Johnson highlighted applications of MR in microscopy to study dynamic, structural and morphological processes. On Thursday, the societal dimension of MR in medicine were explored by Alan R. Price, Lee F. Rogers, and Judy M. Johncox, who focused on the scientific integrity issues involved in conducting

research, publishing research, and protecting intellectual property. Gary H. Glover opened the final Plenary Session of Friday with an overview of the history of medical image reconstruction, which set the stage for Peter Boernert and Andrew A. Maudsley to focus on current issues pertinent to imaging and spectroscopy.

The educational component of the Annual Meeting, both on the weekend and throughout the week, continued to provide clinicians and basic scientists with a detailed understanding of the principles and clinical applications of MR and to train clinicians in the recently developed applications that will form the basis for new clinical activity on their MR scanners. The weekend educational offerings in Honolulu included two-day courses on Neuroimaging, Spectroscopy, Advanced Body MR, and MR Physics for Physicists; one-day courses on Cardiac MR, MR Angiography, and Sports Medicine Imaging; and a half-day course on the Basics of Brain Function. Five categorical courses—Imaging in Sports Medicine, fMRI Data Analysis, Spectroscopy Beyond NAA, Emerging Body Applications of MRI, Advanced MRA Techniques, and Diffusion Tensor Imaging—were held each morning Tuesday through Friday. The well-attended Clinical Categorical Courses, held during the poster sessions Monday through Thursday, this year focused on such clinically significant topics as Neuroimaging, Bowel Imaging, Oncologic Imaging, and Cardiac Imaging. In addition, the always-popular courses designed to fulfill important educational needs of clinicians engaged in MR, "MR Physics and Techniques for Clinicians" and "Hot Topics for Practicing Radiologists," were once again a rousing success. In addition, although more entertainment than education, Harald Quick and Mark Ladd again organized a tremendous session in Honolulu, "Beyond Sounds & Visions of MR," which included live performances to accompany some of the MR audiovisual impressions.

Professor Paul Lauterbur



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2002-2003 ISMRM Officers and Board Members: (seated l. to r.) Michal Neeman, David J. Lomas, Georg Bongartz, Jeffrey L. Duerk, Richard L. Ehman, Jane E. Tiemann (ISMRM Executive Director), Michael E. Moseley, David H. Miller, Felix W. Wehrli, and Walter Kucharczyk (standing middle row l. to r.) Douglas C. Noll, Joseph V. Hajnal, John A. Koveleski (SMRT President), Jeffrey L. Evelhoch, C. Leon Partain, Chris Boesch, Linda Chang, James F.M. Meaney, and Donald M. Hadley (standing top row l. to r.) Peter S. Allen, Peter van Zijl, Peter Jezzard, Peter G. Morris, and Peter Bosiger. (not pictured: Douglas L. Arnold, James P Earls, J. Paul Finn, Thomas Kahn, Vivian S. Lee, Shoji Naruse, and June S. Taylor).

As has been the case for the past several years, this year we instituted a few changes in both the abstract submission process and the meeting organization itself. The inclusion of the 100-word synopsis, which was incorporated into the abstract this year, in the expanded program book provided more information regarding each presentation without having to carry around the complete set of abstracts. The changes in the proceedings submissions categories helped to provide sessions incorporating both imaging and spectroscopy contributions on related topics and helped to better define sessions for topics,

especially in the area of functional MRI. In Honolulu, we introduced a new tradition to the ISMRM Annual Scientific Meeting in order to recognize the outstanding job the Section for Magnetic Resonance Technologists (SMRT) are doing in educating their members and disseminating information regarding current and emerging technological advances to its members, the "SMRT Forum." This inaugural Forum, which focused on the topic of MR Safety, an area of considerable importance to us all and one in which the SMRT have been very active, was a tremendous success by all reports.

The Annual Meeting would not be possible without the hard work of many individuals. I would like to thank all of those who reviewed abstracts, served as moderators, organized the categorical courses, and especially Frank Korosec, Joseph McGowan, Thomas Grist, Anne Sawyer-Glover, Harald Quick, and Mark Ladd, who organized special sessions for this year's meeting. I will always be indebted to the ISMRM staff including Jane Tiemann, Robert Goldstein, Roberta Kravitz, and Sheryl Liebscher, who worked tirelessly to help plan, develop and run the meeting. I would like to thank our Past-President, Dr. Chris Boesch, the previous SPC Chair, Dr. Jörg Debatin, and the Executive Committee of the ISMRM for providing helpful guidance throughout the process. It was also a pleasure to work with Dr. David Lomas, SPC Vice-Chair, to provide continuity in the program planning process, and Dr. Douglas Noll, Chair of the Education Committee, to coordinate the educational courses offered during the weekend and



Sessions were well attended.

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TREASURER'S ANNUAL REPORT

It's hard to believe that my three-year tenure as Treasurer of the ISMRM has almost come to an end. The time has passed quickly and it has provided me an incredibly rewarding opportunity to serve you, the membership, of the Society. I'm pleased to inform you that Roxanne Deslauriers will take on my responsibilities on October 1, 2002 at the start of our 2003 fiscal year. She has already begun participating in the Executive Committee's monthly teleconference and receiving our monthly financial statements in order to ensure an orderly transition. I'm confident that her experience will be as satisfying as mine.

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weekdays. It is my genuine pleasure to thank the members of the Scientific and Education Program Committees, who dedicated their time and energy to create an outstanding program for the 10th Annual Meeting. On the SPC, David J. Lomas, Peter B. Barker, Peter Boesiger, Kim Butts, Linda Chang, Jörg F. Debatin, Jeffrey L. Duerk, Zahi A. Fayad, Garry E. Gold, John R. Griffiths, Atsuko Heshiki, Mathias Hoehn, Peter Jezzard, Thomas Kahn, Jonathan S. Lewin, Riccardo Manfredi, Michael E. Moseley, Michal Neeman, Douglas C. Noll, Pottumarthi V. Prasad, Martin R. Prince, Mark Schweitzer, Michael B. Smith, Daniel K. Sodickson, and Scott D. Swanson. On the Education Committee, Douglas C. Noll, Peter Van Zijl, Dorothee P. Auer, Heidi Berns, Russell C. Fritz, Peter Michael Jakob, Roland Kreis, Yukio Miki, Donald G. Mitchell, Peter G. Morris, Michael E. Moseley, Stefan Neubauer, William E. Palmer, Caroline Reinhold, Daniel M. Spielman, and Mark A. van Buchem.

We all wish David Lomas and the new SPC much success for the next meeting in Toronto, and we invite all of you to provide us, and the new SPC, with feedback on past meetings. Your views are essential in our efforts to try to improve the meeting.

On behalf of the Honolulu SPC,

— Jeffrey L. Evelhoch
Chair, 2002 Scientific Program Committee

The Society has grown considerably since I began my term, reached a number of important milestones, and begun a number of financial initiatives to reflect ideals identified in our Strategic Plan. For example, we reached our target level of US\$1,500,000 in reserves (equal to one Annual Meeting) in 2000. This reserve fund was established in consultation with financial advisors to non-profit organizations like ours and its role is to protect the integrity of the ISMRM in the event of a dramatic failure or cancellation of our annual meeting, or other unforeseen event.

Once our target reserve had been achieved, we enacted what is known as a "Fast Track" program to provide funding for emerging, time-critical initiatives of strategic importance brought to the attention of the Central Office, Executive Committee, Board, or ISMRM committees. Prior to this program, emerging programs with financial implications to the ISMRM would be reviewed by the Finance Committee, discussed at one of the two annual Board meetings, and oftentimes fail to be voted upon due to the need for additional information. I think all would agree that the process was not conducive to time-critical evaluation. Now, the Executive Committee has responsibility for approval of Fast Track program funds. The Treasurer and Central Office have the responsibility to gather sufficient information for discussion prior to evaluation and decision by the Executive Committee at their monthly teleconferences. Examples of uses of Fast Track fund include support for the Historical Archives program, the SMRT programs in Germany, and support for the workshop in Kazan.

The ISMRM has also established a Scientific and Educational Reserve Fund. In years in which our revenues exceed expenses, the Board can allocate up to 90% of the excess revenues to the reserve with the understanding that each allocation be spent on scientific or educational programs of strategic importance within a three-year period. This fund was used to provide a 50% increase in Student Stipend funds for the Honolulu meeting, almost a 100% increase for

the upcoming Toronto meeting, and support for an ISMRM workshop in Romania designed to serve financially less advantaged MR scientists and clinicians in Eastern Europe.

Overall, the ISMRM continues to stand on solid financial ground. Our 2002 fiscal budget includes US\$3.36 million in revenue, US\$3.85 million in expenses and about US\$130,000 in interest and dividends. Hence, in 2002, we budgeted for a loss of approximately US\$360,000. Our current projections suggest we will show a year-end loss closer to US\$100-150,000 due to availability of unused Fast Track funds and some donations due from the 2002 Annual Meeting. A detailed discussion of our yearly finances follows below.

Most of the ISMRM Revenue comes from two sources: membership and the Annual Meeting. This year, we will receive individual and corporate membership dues of approximately US\$1.34 million. Our membership has grown to near 5000 members and no dues increases have occurred since 1998. Journal royalties, overhead from the SMRT, abstract sales, chapter dues and other items add only US\$230,000. Revenue from the Annual Meeting comes from scientific and educational program registration fees and exhibition fees paid by the vendors. In 2002, over 3400 people attended the annual meeting, paying US\$375 for the Scientific Meeting and US\$525 for the combined Educational and Scientific meeting (a price that has been stable since 1995). The total revenue from the Annual Meeting is approximately equal to that related to membership: about US\$1.5 million. Workshops in 2002 will provide about US\$200K in revenue, but this is typically offset by an equal expense.

Expenses of the ISMRM can be divided into those associated with daily operations of Central Office, membership (journals, newsletters, study groups/chapters, etc.), stipends and awards (student/educational stipend, Young Investigator awards, Zavoisky stipends) and the Annual Meeting. The Central Office has 11.5

See Treasurer's Report page 7

full-time employees responsible for coordinating all our educational programs, organizing all meetings and workshops, accounting, fulfilling membership functions and overseeing operations of the Society. When combined with office space rental expenses, the ISMRM Central Office expense dedicated to general ISMRM activities approaches US\$1.0 million each year. Other legal, professional (audit, etc.), travel, depreciation and SMRT expenses add an additional US\$280,000. We will provide over US\$300,000 in stipends and awards in 2002; we have another US\$530,000 in expenses associated primarily with the journals and to a lesser extent the newsletter, study groups and chapters. Annual Meeting expenses include onsite expenses of US\$500,000, direct administrative expenses (i.e., bank charges for credit-card processing, insurance, telephone, postage, and shipping) of US\$160,000, US\$200,000 for production of educational syllabi, CD's, program books, etc., and contractual services of US\$160,000. When other travel costs, promotional costs and related expenses are included, the Annual Meeting accounts for approximately US\$1.4 million of our expenses. Other expenses of the ISMRM include the Fast Track programs identified earlier and increased web based programs and activities (total budget allocation: US\$250,000). Both revenue and expenses in the FY 2003 budget are within a few percent of those described here for FY 2002, with modest alterations.

I am confident that the ISMRM will continue to be in a financial position to continue the high level of service that you have come to expect. The Central Office staff, your new Treasurer and the Board continue to be dedicated to thoughtful discussion and evaluation of our financial picture. It has been a pleasure serving you and working with the many dedicated members of the Board and Central Office over the last three years, and I look with excitement to my next appointment as Scientific Program Committee Chairman for the 2004 meeting in Kyoto.

— Jeffrey L. Duerk
ISMRM Treasurer

News from the 2003 Scientific Program Committee

The Scientific Program Committee (SPC) for the 2003 ISMRM Meeting in Toronto, Ontario, Canada, would like to thank the 2002 SPC for an outstanding job in putting together a stimulating and comprehensive program in Honolulu. Taking their success as our model, we propose to build on and expand the offerings for 2003.

Mark your calendar: the abstract submission deadline will be **20 November 2002**. After careful consideration, the SPC has chosen to require that all abstracts be submitted electronically, via the ISMRM Website. No paper forms will be available, and any abstract submitted on an old paper form will not be considered for review.

The 100-word synopsis will be retained and printed in the Program Book. We plan to release the full program, including the 100 word synopsis, two weeks before the meeting.

The double-column format for abstract submission will cease, as this has proved difficult for electronic submission. We will use a single-column format instead. You will be able to compose your abstract in such a way that text wraps around figures and tables and then upload it for submission.

Electronic slides will be the normal media 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.

There will no longer be a paper version of the full *Proceedings*. They will be available on CD-ROM only. However, a paper version of the program, including the 100-word synopsis, will be provided.

While you are in the Toronto Convention Centre, you will be able to read your email and access the Internet through the wireless network we will provide. You will also be able to use computers provided by the Society for this purpose, as in the past.

To assist with identifying abstract reviewers, we will ask ISMRM members to propose themselves and their area of expertise. The SPC chair will then select appropriate reviewers. Please watch the ISMRM Web site for information on participating in this program.

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

Call for Abstract Reviewers

In an effort to improve the process by which thousands of abstracts are reviewed in preparation for the Annual Meeting, the Scientific Program Committee is seeking to broaden the base of reviewers who actually do this work. 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.

As those who have done this job in the past can attest, reviewing abstracts for ISMRM is no small job. It involves reading and scoring anywhere from 40 to 60 papers during a 14 day period. This year, reviewers will access their assigned abstracts online, and will have from 27 November to 11 December to score them. Scores will be submitted online, as well. Members who volunteer to review will be asked to specify their area(s) of expertise, in which they would like to review papers. The Program Committee will determine the topic areas of our greatest need and will then invite selected members in these areas to join the panel.

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 **4 September 2002** 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.

— David J. Lomas
Chair, 2003 Scientific Program Committee

2002 EDUCATIONAL STIPEND PROGRAM

The Society funded 442 students to attend the 10th Scientific Meeting in Honolulu. Their names and the countries from which they come are listed below.

Student Stipend Recipients

Ablitt, Nicholas Akbar	England, UK	De Vita, Enrico	England, UK	Herold, Volker	Germany
Ahearn, Trevor	Scotland, UK	Dechent, Peter	Germany	Herzka, Daniel	USA
Akella, Sarma V.S.	USA	Deoni, Sean	Canada	Hobbs, Susan K.	USA
Amado, Luciano Costa	USA	Deshpande, Vibhas S.	USA	Hoge, William Scott	USA
An, Hongyu	USA	Dicarlo, Julie	USA	Hsu, Alex	USA
Andersen, Irene	Denmark	Draney, Mary	USA	Hu, Tom Chih-Chuang	USA
Arfanakis, Konstantinos	USA	Dresner, M. Alex	USA	Huang, Teng-Yi	Taiwan
Astrakas, Louis G.	USA	Dresselaers, Tom	Belgium	Huber, Michael	Switzerland
Auerbach, Edward	USA	Driscoll, Ira	USA	Hume, Peter M.	Australia
Auffermann, William F.	USA	Du, Jiang	USA	Hunjan, Sandeep	USA
Austin, Vivienne	England, UK	Du, Weiliang	USA	Hunold, Peter	Germany
Bainbridge, Alan	England, UK	Dubowitz, David	USA	Hwang, Ken-Pin	USA
Bammer, Roland	USA	Duhamel, Guillaume	USA	Isci, Senol	Turkey
Bangerter, Neal	USA	Dunn, Timothy	USA	Issever, Ahi Sema	USA
Bannister, Peter R.	England, UK	Dyke, Stephanie O. M.	England, UK	Ith, Michael	Switzerland
Barkauskas, Kestutis	USA	Eagan, Timothy P.	USA	Itskovich, Vitalii	USA
Barrick, Thomas	England, UK	Elgort, Daniel	USA	Ivancevic, Marko	Switzerland
Bartels, L.W.	The Netherlands	Fabel, J.C. Konstanze	USA	Jaermann, Thomas	Switzerland
Beckmann, Christian F.	England, UK	Fain, Sean S.	USA	James, George A.	USA
Behr, Volker C.	Germany	Faranesh, Anthony Z.	USA	Jansen, Jaap (Jacobus)	USA
Behrens, Tim	England, UK	Faris, Owen	USA	Jenkinson, Mark	England, UK
Beloueche, Mounia	England, UK	Fautz, Hans-Peter	Germany	Jensen, Eric	Canada
Bendlin, Barbara	USA	Feng, Ching-Mei Janet	USA	Jiang, Lan	USA
Bergans, Niki	Belgium	Fernandez-Seara, Maria	USA	Jochimsen, Thies	Germany
Berman, Jeffrey	USA	Fidelman, Nicholas	USA	Jung, Rex	USA
Bernheim, Kyle A.	USA	Fidler, Florian	Germany	Just, Nathalie	England, UK
Blaimer, Martin	Germany	Fiehler, Jens	Germany	Kalish, Heather	USA
Blemker, Silvia S.	USA	Fieno, David S.	USA	Kanaan, Richard	England, UK
Blazer, Erwin	The Netherlands	Figueiredo, Patricia	England, UK	Kannurpatti, Sridhar	USA
Bock, Nicholas A.	Canada	Flask, Chris	USA	Karolyi, Daniel	USA
Bolan, Patrick	USA	Foltz, Warren	Canada	Katz-Brull, Rachel	USA
Borthakur, Arijitt	USA	Forton, Daniel	England, UK	Kavec, Martin	Finland
Brass, Steven	Canada	Francois, Christopher	USA	Keilholz, Shella	USA
Brekken, Christian	Norway	Friman, Ola	Sweden	Keinan-Adamsky, Keren	Israel
Brodsky, Ethan	USA	Fulford, Jonathan	England, UK	Kettunen, Mikko	Finland
Brooks, Jonathan C.W.	England, UK	Garcia-Espinosa, Maria A.	Spain	Kholmovski, Eugene	USA
Brown, David G.	USA	Garcia-Martin, Maria L.	Spain	Khubchandani, Manjula	India
Burke, Michael	Germany	Gast, Klaus K.	Germany	Kilian, Wolfgang	Germany
Burock, Marc A.	USA	Gazdzinski, Carl	Canada	Kim, Daniel	USA
Bydder, Mark	England, UK	Geifman, Ilia	USA	Kim, Dong-Hyun	USA
Calhoun, Vince	USA	Geppert, Christian	Germany	Kim, Junhwan	USA
Callot, Virginie	USA	Ghugre, Nilesh R.	USA	Kim, Tae	USA
Carmichael, David	England, UK	Gibson, Andrew M.	England, UK	Klassen, L. Martyn	Canada
Charagundla, Sridhar	USA	Gilead, Assaf	Israel	Köhler, Sascha	Germany
Charles-Edwards, Geoffrey	England, UK	Gillard, Michael	Canada	Kolmogorov, Vladimir	USA
Chen, Aileen	Switzerland	Gilson, Wesley	USA	Konn, Daniel	England, UK
Chen, Hunter H.	USA	Gimi, Barjor	USA	Kotys, Melanie	USA
Chen, Jacqueline T.	Canada	Glaser, Kevin	USA	Krieger, Axel	USA
Chen, Junjie	USA	Glunde, Kristine	USA	Kroenke, Christopher	USA
Chen, Sara C.	USA	Goksel, Dilek	Turkey	Krssak, Martin	Austria
Chen, Yuteng	Canada	Gomberg, Byron	USA	Laird, Angela	USA
Chen, Zhiwei	China	Goncalvez-Periera, Miguel	Portugal	Langers, Dave	The Netherlands
Cheng, Hu	USA	Gopinath, Kaundinya S.	USA	Larson, Andrew	USA
Cherubini, Andrea	England, UK	Goyen, Mathias	Germany	Lauenstein, Thomas	Germany
Chin, Chih-Liang	USA	Green, Christopher G.	USA	Laule, Cornelia	Canada
Chiou, Jr-Yuan	USA	Green, Daniel	England, UK	Law, Christine	USA
Chopra, Rajiv	Canada	Green, Jordin	USA	Lazar, Mariana	USA
Clayton, David	USA	Greiser, Andreas	Germany	Lazovic-Stojkovic, Jelena	USA
Cloak, Christine C.	USA	Grinstead, John W.	USA	Leawoods, Jason	USA
Coen, Steven J.	England, UK	Griswold, Mark	Germany	Lee, Gregory	USA
Cohen, Eric R.	USA	Gross, Shimon	Israel	Lee, Jin Hyung	USA
Corbin, Ian	Canada	Gu, Hong	USA	Lee, John J.	USA
Costouros, Nick G.	USA	Gu, Tianliang	USA	Lee, Kuan	England, UK
Crowe, Lindsey	England, UK	Guccione, Samira	USA	Lee, Sangwoo	USA
Cui, Weina	USA	Guimond, Alexandre	USA	Lee, Yueh	USA
Cullen, Sarah	England, UK	Gutierrez, Luis F.	USA	Leggett, James	England, UK
Cunningham, Charles	Canada	Gutteridge, Sarah	England, UK	Leite, Francisca	USA
Curtis, Clayton E.	USA	Haddad, Daniel	Germany	Lekx, Katie	Canada
Dafni, Hagit	Israel	Haley, Andrea P.	USA	Leupold, Jochen	Germany
Dale, Brian M.	USA	Halliday, Jane	England, UK	Levensque, Ives	Canada
Damon, Bruce	USA	Haroon, Hamied A.	England, UK	Levin, Yakir	USA
Davies, Gerard	England, UK	Hartkens, Thomas	England, UK	Lew, Calvin	USA
Davies, Rhodri H.	England, UK	Hasan, Khader	USA	Li, Geng	Hong Kong, China
De Haan, J. H.	The Netherlands	Heberlein, Keith	USA	Li, Lihong	USA
De Luca, Marilena	England, UK	Hendrikse, Jeroen	The Netherlands	Li, Xiaojuan	USA
		Herborn, Christoph U.	Germany	Liess, Carsten	Germany

Stipends

from page 8

Liffers, Anja	Germany	Regatte, Ravinder Reddy	USA	Welch, Edward Brian	USA
Lim, Adrian	England, UK	Renema, Klass Jan	The Netherlands	Wellen, Jeremy	USA
Lin, Ching-Po	Taiwan	Rijpkema, Mark	The Netherlands	Wen, Zhifei	USA
Lin, Fa-Hsuan	USA	Roberts, John	USA	West, Daniel A.	England, UK
Liu, Chunlei	USA	Rogers, Baxter	USA	Wiert, Marlene	USA/France
Liu, Wanzhan	USA	Roopchansingh, Vinai	USA	Wieben, Oliver	USA
Liu, Wei	USA	Rossmiller, Sarah	USA	Wieckowska, Marguerite	Canada
Liu, Yawu	Finland	Rowland, Laura	USA	Wiesinger, Florian	Switzerland
Lori, Nicolas	France	Ryf, Salome	Switzerland	Wilbur, Benjamin	USA
Lowe, Andrew	England, UK	Sabat Vicuña, Sebastian	Chile	Wilson, James Lawrence	England, UK
Lu, Aiming	USA	Sabati, Mohammad	Canada	Windischberger, Christian	Austria
Lu, Hanzhang	USA	Sakkas, Giorgos	USA	Wise, Richard G.	England, UK
Lu, Hong	Canada	Salerno, Michael	USA	Wong, Eddy	USA
Lund, Torben	Denmark	Santos, Juan	USA	Wu, Gaohong	USA
Luo, Feng	USA	Sathasivam, Nalayini	Australia	Wu, Ona	USA
Luo, Ying	USA	Schaffer, Robert	USA	Wu, Sheng-Ping	Denmark
Mackay, Clare	England, UK	Scheenen, Tom	The Netherlands	Wu, Wen-Chau	Taiwan
Maderwald, Stephen	Germany	Schepers, Janneke	The Netherlands	Wu, Yijing	USA
Maintz, David	Germany	Schmidt, Conny	Switzerland	Wu, Ying-Hui	Taiwan
Makela, Heidi	USA	Schmitt, Melanie	Germany	Xu, Duan	USA
Mancini, Laura	England, UK	Schroeder, Tobias	Germany	Xue, Rong	USA
Maril, Nimrod	Israel	Schulte, Anja-Carina	Germany	Yang, Ming	USA
Markl, Michael	USA	Sehy, Jonathan	USA	Yang, Phyllis	USA
Marques, José	England, UK	Seppenwoolde, Jan Henry	The Netherlands	Yankeelov, Thomas E.	USA
Marxen, Michael	Canada	Sharma, Puneet	USA	Yee, Seong-Hwan	USA
Masood, Sharmeen	England, UK	Shea, Steven	USA	Yeh, Ernest	USA
Matter, Nathaniel	USA	Shepard, Timothy	USA	Yeung, Christopher	USA
Mazaheri, Yousef	USA	Shmuel, Amir	USA	Yu, Hon	USA
Mccracken, Paul	USA	Shors, Stephanie	USA	Yue, Kenneth	USA
Mcdannold, Nathan	USA	Sidaros, Karam	Denmark	Yung, Andrew	USA
Mcleish, Kate	England, UK	Siegler, Peter	Germany	Zaman, Arshad	England, UK
Merrifield, Robert	England, UK	Silvennoinen, Johanna	Finland	Zaporozhan, Julia	Germany
Michelich, Charles	USA	Skinner, Matthew	Canada	Zehnder, Monica	Switzerland
Miller, Fiona	England, UK	Sommers, Mathieu	The Netherlands	Zhan, Wang	USA
Miller, Karla	USA	Sorger, Jonathan	USA	Zhang, Beibei	Canada
Miller, Michael	USA	Stafford, R. Jason	USA	Zhang, Jiangyang	USA
Miller, Steven	USA	Steens, S.	The Netherlands	Zhang, Nanyin	USA
Mitchell, Todd	USA	Stefanovic, Bojana	Canada	Zhang, Xiaoliang	USA
Mitsouras, Dimitrios	USA	Steger, Theodore	USA	Zhong, Kai	USA
Modo, Mike	England, UK	Streif, Jörg	Germany	Zhu, Fang	USA
Moffat, Bradford	USA	Sun, Shu-Wei	Taiwan	Zhu, Hongmei	Canada
Moriguchi, Hisamoto	USA	Sun, Yanping	USA	Zhuang, Jiancheng	USA
Morse, David	USA	Sun, Ying	USA	Ziyan, Das	USA
Mueggler, Thomas	Switzerland	Susil, Robert	USA	Zou, Ping	USA
Muruganandham, Manickam	USA	Sutton, Bradley	USA	Zühlsdorff, Sven	Germany
Nairismägi, Jaak	Finland	Svensson, Jonas	Sweden	Zwanenburg, Jaco	The Netherlands
Nandy, Rajesh	USA	Swingen, Cory	USA	Zwingmann, Claudia	Germany
Narayanan, Sridar	Canada	Ten Hove, Michiel	The Netherlands		
Neufeld, Arnon	Israel	Thali, Michael	USA	Clinical Resident Stipend Recipients	
Niekisch, Miriam	Germany	Theberge, Jean	Canada	Horwich, Perry Jay	USA
Nieminen, Miika	Finland	Theilmann, Rebecca	USA	Podberesky, Daniel	USA
Norgaard, Minna	Denmark	Thomas, David	England, UK	Vaidhyanath, Ram	England, UK
Ohliger, Michael	USA	Thompson, Kerry	Canada		
Olman, Cheryl	USA	Thornhill, Rebecca	Canada	E.K. Zavoisky Recipients	
Opstad, Kirstie	England, UK	Tournier, Jacques-Donald	England, UK	Barrios, Fernando A.	Mexico
Osterbauer, Robert	England, UK	Trampel, Robert	Germany	Blicharska, Barbara	Poland
Overall, William	USA	Tremblay, Marleine	Canada	Caramanos, Zografos	Canada
Öz, Gülin	USA	Tropres, Irene	France	Diklic, Vera	Yugoslavia
Ozarslan, Evren	USA	Troy, Helen	England, UK	Huang, Ming Qiang	USA
Park, Jong	USA	Truong, Thuy	USA	Jayasundar, R.	India
Parkes, Laura	The Netherlands	Tuunanen, Pasi	Finland	Jurkiewicz, Elzbieta	Poland
Pautler, Robia	USA	Uematsu, Hidemasa	USA	Kadah, Yasser M.	Egypt
Peck, Kyung	USA	Uffmann, Kai	Germany	Kang, Xiaojian	USA
Pedersen, Michael	Denmark	Ulmer, Stephan	Germany	Ma, Lin	China
Pednekar, Amol	USA	Ungersma, Sharon	USA	Marga, Simion	Moldova
Pelled, Galit	Israel	Valonen, Piia	Finland	Ni, Hongyan	China
Perthen, Joanna	England, UK	Van Bemmel, Cornelis	The Netherlands	Qiu, Bensheng	USA
Peshkovsky, Alexey	USA	Van De Moortele, Pierre-Francois	USA	Rakotonirainy, Olivier	Sweden
Pessanha, Breno	USA	Van Der Flier, Wiesje	The Netherlands	Rana, Mahesh Dhirajlal	South Africa
Philippens, Marielle	The Netherlands	Van Eijdsen	The Netherlands	Ratnikov, Vyacheslav A.	Russia
Pluim, Josien	The Netherlands	Van Laarhoven	The Netherlands	Rizea, Ileana-Olguta	Romania
Poonawalla, Aziz	USA	Van Osch, Matthias	The Netherlands	Rodriguez, Alfredo O.	Mexico
Pschierer, Christian	Germany	Veldhuis, Wouter	The Netherlands	Semnic, Robert	Yugoslavia
Puderbach, Michael	Germany	Venook, Ross	USA	Sharov, Vyacheslav	Russia
Pulkkinen, Juhani	Finland	Vigen, Karl	USA	Starcuk, Zenon	Czech Republic
Purushotham, Archana	USA	Vogt, Florian	Germany	Vejschapipat, Paisarn	Thailand
Quarles, Chad	USA	Vonken, Evert-Jan	The Netherlands	Yang, Dewen	USA
Quick, Harald	Germany	Vorisek, Ivan	Czech Republic	Yarnykh, Vasily	USA
Quigley, Mark	USA	Wachowicz, Keith	Canada	Ye, Hui Yi	China
Raja, Mohan	Canada	Wang, Fu-Nien	Taiwan	Zhang, Shanrong	USA
Rashid, Waqar	England, UK	Wang, Jian-Li	USA	Zhu, Ming Wang	China
Rausch, Patricia	USA	Wang, Jinghua	USA		
Raymer, Graydon	Canada	Wang, Tungte	Germany		
Reeder, Scott	USA	Wang, Yi	China		

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VICE PRESIDENT:



Walter Kucharczyk, M.D., FRCP(C), is Professor and Chair of the Department of Medical Imaging and Professor of Surgery at the University of Toronto, Ontario, Canada. He graduated from the

Faculty of Medicine at the University of Toronto in 1979 and then completed a residency in Radiology at the same institution in 1983. He went on to further subspecialty training in neuroradiology and MRI at UCSF in 1984 and 1985. He returned to Toronto in 1986 and was appointed Director of the Toronto Tri-Hospital MRI Center the same year. Dr. Kucharczyk has authored approximately 100 original scientific articles, most of them on topics related to MRI of the central nervous system. He has been a member and active participant in the ISMRM and its predecessor societies since 1985. He has served on the Program, Education, and Finance Committees and on the Board of Trustees, completing a three-year term in 1999. He has lectured regularly at the ISMRM Annual Meeting and was one of the principal organizers of the popular and ongoing "MR Physics for Clinicians" lecture series. Dr. Kucharczyk recognizes the ISMRM as a unique scientific society in the imaging sciences. It is the only organization that promotes and provides a full and diverse spectrum of applied and basic sciences in a cohesive format in its Annual Meeting, workshops, and journals and does so with a truly international flavor. He would like the Society to continue to develop as the leading forum in MRI research, while he would like it to increase its efforts to promote the active participation of clinical imaging specialists. He feels the strength of the ISMRM is its mix of scientists and clinicians and that this strength should be fostered and should continue to grow.

BOARD OF TRUSTEES:



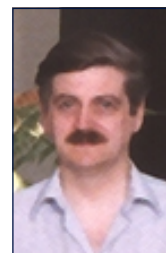
Peter Allen, Ph.D., received his PhD in physics. He obtained his first academic appointment in the Department of Physics at the University of Nottingham in 1963. For the following 14 years he

used NMR to investigate the quantum mechanical tunneling of symmetric molecular groups at very low temperatures, before switching, in the late seventies, to the application of NMR *in vivo*. At the end of 1982 he founded and then directed the In-Vivo NMR Centre in the Department of Biomedical Engineering at the University of Alberta, Canada. Initially appointed as a Heritage Medical Scientist, he became chairman of Biomedical Engineering in 1990 and has served in that capacity to the present. Dr. Allen's research interests have been concentrated mainly, though not exclusively, in the area of brain metabolite quantification by means of proton MRS. To exploit this methodology, he has maintained a high field presence at the Centre, changing from 1.5 T to 3.0 T in 1993. More recently, the Centre has expanded to three whole body MR systems totally dedicated to research, operating respectively at 1.5T, 3.0T and most recently 4.7T. Dr. Allen holds operating grants from the Canadian Institutes of Health Research and the National Science and Engineering Research Council of Canada and has 137 publications in peer-reviewed journals. He has also served several terms on the grant review committees of each of these federal agencies. He joined the earliest form of the Society in its first year and has been a full member since that time, serving on the Editorial Board of *Magnetic Resonance in Medicine* since 1990.



Peter Boesiger, Ph.D., graduated in 1977 from University of Zurich, Switzerland, in the field of NMR solid state physics. In 1979 he joined the Institute of Biomedical Engineering (IBTZ) of the University of Zurich and of the Swiss Federal Institute of Technology (ETH) in Zurich. After

research fellowships at Philips Medical Systems in Best, The Netherlands, and at Emory University in Atlanta, Georgia, USA, he became lecturer and senior research associate in biomedical engineering. Since 1991 he has been a Professor for Biomedical Engineering and the head of the Division of Biophysics at IBTZ; since 2001 he has been the chairman of the international Competence Center for MRI Methodology of ETH Zurich. With his team he develops new MRI and MRS procedures for the assessment of functions of the cardiovascular and the digestive system and of the brain. In local and international collaboration with clinicians the new procedures are applied in medical research projects. Latest developments are the parallel imaging technique SENSE (sensitivity encoding), techniques for accurate flow quantification in moving structures such as heart valves or coronaries, and new methods for spectroscopic editing of GABA, glutathione, and taurine in the human brain. Dr. Boesiger is a member of the editorial boards of the journals *Magnetic Resonance in Medicine*, *Acta Neurologica Scandinavica*, *Computerized Medical Imaging and Graphics*, and *Biomedical Engineering*; presently he is a Scientific Program Committee member of ISMRM and ESMRMB. In 1977 he received the Award of the Faculty of Natural Philosophy of the University of Zurich; in 1988 the Georg Friedrich Götze Award, University of Zurich; in 1989 the Thermology Commendation Award, American Academy of Thermology; and in 2001 the Günther-Laukien-Award.



Donald M. Hadley, M.B., Ch.B., Ph.D., F.R.C.R., is Professor of Radiology at Glasgow University and Consultant Neuroradiologist at the Institute of Neurological Sciences in Glasgow, Scotland, UK. He graduated from

Aberdeen University Medical School in 1974 and after 18 months of research in the Antarctic returned to Aberdeen, where he was introduced to NMR by Professor John Mallard. After obtaining the Fellowship of the Royal College of Radiologists, he was appointed Senior Radiological Research Fellow to the UK Medical Research Council's MR Evaluation Project at Glasgow University in 1984. In 1989 he received a tenured appointment at the Institute of

Neurological Sciences, where he has also served as Clinical Director of Neuroradiology and Neuropathology and as Chairman of Neuroradiology. His research has involved a range of investigations into the theme of central nervous system injury: its causes, repair mechanisms, and outcome; how they might be visualized and measured objectively by MR at each state, particularly in relation to their response to therapy. His investigations using MRI and MRS have resulted in over 120 papers in peer-reviewed journals, 21 book chapters, and over 200 presentations at teaching and research meetings. He is on the Editorial Boards of *Clinical Radiology*, *Neuroradiology*, and *European Radiology*. Dr. Hadley is a founding member of the Executive Committee of the British Chapter of the ISMRM and the ISMRM representative and a founding member of the Consortium for MR accreditation in the UK. Currently Chair of the ISMRM Global Development Committee, he was co-opted to the Board of Trustees while Chair of the Local Organizing Committee of the ISMRM-ESMRMB Joint Annual Meeting in Glasgow in 2001. He is committed to fostering the multidisciplinary potential of MR techniques by strengthening the links between research scientists and clinicians while encouraging closer international cooperation through collaborative research and educational programs.



Peter Jezzard, Ph.D., trained at Cambridge University, where he began his work on NMR and MRI. His PhD research centred on developing magnetic resonance methods for the study of polymer and polymer composite manufacture. In 1991, he took up a post-doctoral position at the US National Institutes of Health and began his career in biomedical research. Working initially with Bob Turner and Robert Balaban, Dr. Jezzard was involved in many of the early studies using blood oxygenation contrast (functional) imaging, including both human and animal studies, and at a wide range of field strengths. He has also collaborated closely with clinical and neuroscience colleagues, particularly in his capacity as head of the MR Physics Unit at the National Institute of Mental

Health (1995-1997), where he worked in the laboratory of Leslie Ungerleider. In 1998, he joined Oxford University's Centre for Functional Magnetic Resonance Imaging of the Brain as their Head of MR Physics. Here he has established a physics group dedicated to the development, characterisation, and validation of MR physiological measurements in the human brain. Dr. Jezzard has always enjoyed the multidisciplinary environment of MR research and believes this to be important in the wider context of the ISMRM. He also believes strongly in the educational role of the ISMRM Annual Meeting, and has organised several educational series. He has served on the Scientific Program Committee for the Denver, Glasgow, and Hawai'i meetings, and is presently serving on the Executive Committee of the British Chapter ISMRM, and is secretary of the High Field Systems and Applications Study Group. He has published widely (50+ scientific papers, several book chapters). He recently co-edited an Oxford University Press book on functional MRI.



Vivian S. Lee, M.D., Ph.D., is Associate Professor of Radiology in the Department of Radiology at New York University Medical Center. Dr. Lee earned her medical degree with honors at Harvard Medical School after receiving a PhD in medical engineering at Oxford University, UK. She completed her residency in diagnostic radiology at Duke University, where she served as Chief Resident, and her fellowship in body MRI and thoracic imaging at NYU. Her primary areas of interest are in functional MR imaging in the body, particularly using MR to measure blood flow and function in the kidneys and in cardiovascular disease. She has been an active and enthusiastic member of the ISMRM and has served as a lecturer in the body MR weekend and categorical courses and as an abstract reviewer for several years.



James F.M. Meaney, M.D., is a consultant radiologist at St. James's Hospital, Ireland. He received his MD in 1985 from University College, Galway, Ireland. Upon completion of residency training in internal

medicine he embarked on a career in radiology, taking his residency in Liverpool, England. After completion of residency training he was an MRI fellow at the University of Michigan. Whilst working at the University of Michigan, Dr. Meaney and his co-workers published several seminal papers on contrast-enhanced MRA, and he was a co-inventor of the "floating-table" approach for contrast-enhanced MRA of the peripheral arteries. He also received fellowship training in thoracic radiology. Dr. Meaney then spent four years as a cross-sectional imager in Leeds, UK, where, amongst others, he spearheaded the development of CE-MRA for clinical indications. Currently, he divides his time at St. James's, the largest hospital in Ireland, between a busy clinical practice, ongoing education of radiology trainees and MR technologists, and clinical research. His main clinical goal of introducing CE-MRA into the clinical realm has already been realized. Other goals include the integration of MRI with other cross-sectional imaging modalities, especially CT, into clinical practice, and the development of cost-effective imaging algorithms, particularly for thoraco-abdominal and cardiovascular indications. During his career, he has participated in many clinical trials and publications that have contributed to the evolution of MRI from investigational procedure to clinical tool. Dr. Meaney is an active member of the MR Angio club. He is a reviewer for several journals, a fellow of the Royal College of Radiologists and an active member of the European Congress of Radiology. He is a widely experienced presenter and participates in the educational programs at many prestigious meeting including ISMRM. Dr. Meaney believes that huge progress can be achieved by further strengthening links between clinicians and scientists, in an effort to deliver robust clinical protocols that will enhance patient care. He believes that intensive education of radiologists, technologists and MR scientists is paramount to the continued success of MRI.

Awards Nominations

The 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 2003 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 **6 September 2002**. Send completed material to:

Chris Boesch, M.D., Ph.D.
Chair, Awards Committee
International Society for Magnetic Resonance in Medicine
2118 Milvia Street, Suite 201
Berkeley, CA 94704, USA

Call for Nominations

The 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 2003. These suggestions must be received by noon local time on **7 November 2002**, 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 will be basic 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 2002**, 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:

J. Paul Finn, M.D.
Chair, Nominating Committee
International Society for Magnetic Resonance in Medicine
2118 Milvia Street, Suite 201
Berkeley, CA 94704, USA
Tel: +1 510 841 1899
Fax: +1 510 841 2340
E-mail: info@ismrm.org

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 Joseph V. Hajnal, Ph.D.
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 Thomas Kahn, M.D.
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 David J. Lomas, M.D.*
 James F. M. Meaney, M.D.
 Peter G. Morris, M.A., Ph.D.
 Shoji Naruse, M.D., Ph.D.
 Michal Neeman, Ph.D.
 Douglas C. Noll, Ph.D.
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 Felix W. Wehrli, Ph.D., (*ex officio*)

*Executive Committee

BOARD MOTIONS, MAY 2002

It was moved, seconded, and carried that the Board recommends that 90% of the FY2001 increase in unrestricted net assets should be moved to the Scientific and Educational Reserve.

It was moved, seconded, and carried that the Board will consider a change in the dues structure when the core activities of the Society were not funded by the members' revenues.

It was moved, seconded, and carried to hire a part-time consultant to serve as Financial Manager.

It was moved, seconded, and carried that Dr. David Miller should be the next Secretary of the Society.

It was moved, seconded, and carried that Dr. Roxanne Deslauriers should be the next Treasurer of the Society.

It was moved, seconded, and carried that the Executive Committee should develop a proposal for a regular annual survey of the membership's needs and opinions.

It was moved, seconded, and carried to increase the SMRT membership fee from US\$70 to US\$75.

It was moved, seconded, and carried to adopt the revised Bylaws for the Awards Committee.

It was moved, seconded, and carried that no member could serve on the Young Investigator Awards Committee if he or she was closely connected with an applicant whose work was being considered by the committee.

It was moved, seconded, and carried to appoint Dr. Joseph Hajnal as Web Editor.

It was moved, seconded, and carried to encourage the Safety Committee to issue appropriate advice on safety issues in print or on Web sites.

It was moved, seconded, and carried to elect the following to the Nominating Committee: J. Paul Finn (Chair), Chris Boesch, Thomas Grist, Dwight Nishimura, Roger Ordidge, and Peter van Zijl.

It was moved, seconded, and carried to endorse the Stanford CME Course "Current Concepts of MRI", Monterey, California, USA, October 2002.

It was moved, seconded, and carried to endorse the proposed Gordon Research Conference providing there is access for ISMRM members while space is available.

It was moved, seconded, and carried to approve a new Study Group "Psychiatric MR Spectroscopy and Imaging."

It was moved, seconded, and carried that the Board agrees the Publication Committee should proceed to negotiate the new contract with Wiley.

It was moved, seconded, and carried to use US\$150,000 from strategic funds for travel stipends for basic scientists and clinicians in training.

It was moved, seconded, and carried that the budget be approved.

It was moved, seconded, and carried that, in accordance with notice given at the last meeting, the following resolution be adopted as a special rule of order: "Resolved that the Board of Trustees establish a consent calendar. When matters on the consent calendar are called up, they are considered for approval in gross, without debate or amendment."

From The SMRT President

The Section for Magnetic Resonance Technologists (SMRT) of the International Society for Magnetic Resonance in Medicine (ISMRM) held its 11th Annual Meeting on May 18th and 19th, 2002. This meeting was held in conjunction with the ISMRM's meeting at the Hawai'i Convention Center in Honolulu, Oahu, Hawai'i, USA.

Kulia I ka nu'u (Strive for the Summit) was the motto for this year's meeting and almost 200 technologists attended. Gina Greenwood, Program Chair, did an excellent job of choosing a great mix of topics and speakers. Topics included spectroscopy, cardiac imaging, diffusion/perfusion imaging, body MRA, musculoskeletal MRI, preventive imaging without radiation, fMRI, 3T imaging, acute stroke imaging, CTA vs. MRA, and body imaging. Also new this year was a motivational speaker, the first time that we've included a non-technical speaker. Overall, attendees were able to earn fourteen continuing education credits.

The meeting kicked off with a poster exhibit and walking tour on Friday evening, May 17th, 2002. Special thanks go out to Mallinckrodt, Inc., for sponsoring this gala event. With 13 countries represented, 53 abstracts were submitted and 41 were presented as posters. Authors of the posters were in attendance and offered the opportunity for technologists to ask questions regarding their work. Friday night's reception also served as a way for colleagues from around the world to network with their peers.

Saturday's lunch program included the traditional SMRT business meeting in which the attendees were encouraged to see the inner workings of the SMRT and meet the Executive Committee and Policy Board members. Sunday's lunch program was an interactive Safety Forum and was very well received.

A very special thank you goes out to Gina Greenwood, Program Chair and Cindy Hipps, Education Chair, for organizing such an outstanding program.

Feedback from the attendees in Glasgow was used in the construction of the Hawai'i meeting. Feedback from the Hawai'i meeting will be used when we convene in Toronto, Ontario, Canada next May.

The SMRT was honored that the ISMRM invited them to hold a first (of hopefully many more to come) SMRT Forum during the ISMRM meeting during the week. Anne Sawyer-Glover did an excellent job organizing this first-time event and a Safety Forum with discussion was held on Monday.

I was excited about the interest generated from the attendees during the SMRT meeting. We're always looking for individuals to get involved. This can be accomplished by being a member of one of our committees or possibly by running for Policy Board. New faces and fresh ideas are a way that we can grow professionally.

The SMRT currently has about 1200 members throughout the world. Benefits of SMRT membership include educational materials through our home studies, which offer CE for the technologists. Reduced fees for SMRT meetings and seminars are another perk of membership. We have grown internationally in the past few years and I hope we can do so further by pursuing areas of the world in which we lack members.

As SMRT President, I encourage all ISMRM members to invite their technologists to join the SMRT, the world's premier MR technologist society.

I truly appreciate the opportunity to address the ISMRM membership and give them this update on our

Annual Meeting. I look forward to working with Dr. Ehman and the ISMRM membership in the next year.

In the next issue of *MR Pulse*, I'll detail the workings of the SMRT including our committees and the goals that we hope to accomplish during my term as President.

— John A. Koveleski, SMRT President

Report on the SMRT Forum at the 10th Scientific Meeting of the ISMRM

The International Society for Magnetic Resonance in Medicine, our parent society, invited the SMRT to organize and conduct a forum during the recent Annual Meeting of the ISMRM held in Hawai'i. The topic selected for discussion this year was MR Safety. The forum took place during the mid-day session, on Monday, 20 May 2002. The agenda included four speakers and four panel members to address questions from the audience. Approximately two hundred people were in attendance.

Bill Faulkner, a well-known MR educator, started the session off with a very complete and inspired review of "*MR Screening Policies and Procedures*," which included the use and format of screening forms; the mechanics of screening visually and verbally; controlling areas for staff and patients; required ongoing training of MR technologists, physicians, and staff; significant contraindications; and facilitating support from the MR radiologists.

Frank Shellock followed with a thorough examination of "*MRI Safety and Compatibility for Implants and Devices: Update 2002*." Frank's illuminating talk included discussions about neurostimulation devices, aneurysm clips, spinal fusion stimulators, drug infusion pumps, intravascular stents,

See SMRT Forum page 15

filters, and coils, and many other biomedical implants and devices. Frank also discussed the variance in effects by different types of magnets including field strength and design including extremity systems.

Michael Kean gave an enlightening presentation, combining "The Prevention of RF Burns and Heating in the MR Environment" and "Pediatric MR Safety Issues." Michael's comprehensive review provided a very personal look at the risks involved, the challenges we face on a daily basis, the ongoing training and education necessary to maintain a safe MR facility, and the many complex issues that arise in the imaging of infants and children.

Emanuel Kanal completed the presentations with his detailed report regarding the recently published white paper from the American College of Radiology: ACR Recommendations for MR Safety. Manny's very motivated talk covered the guidelines as recommended by the ACR, including the establishment, implementation and maintenance of MR safety policies and procedures for each facility; limitation of site access to different areas ("zones") within the MR facility by patients, staff, MR technologists, physicians, and others; consider-

ations for pregnant patients and staff; time varying gradient magnetic field related issues (induced voltages and auditory considerations); time varying radiofrequency magnetic field related issues (thermal); cryogen related issues; sedation and anesthesia; use of contrast agents; and, biomedical implants and devices.

Time was included at the end of the presentations for questions from the audience and discussion with the panel members and speakers. The panel members included Cindy Hipps, Maureen Hood, Julia Lowe, and Laurian Rohoman, all members of SMRT. There were many questions from the audience and lively discussion followed. Some safety issues continue to cause concern for MR facilities such as whether to image in the presence of, for example, retained pacemaker wires, tattooed eyeliner, and brachytherapy implants. More current issues were voiced concerning the safety of clinical scanning on MR scanners at 3.0 Tesla, especially when biomedical implants and devices are present. Engaging discussions continued well after the end of the two-hour session.

A complete syllabus, compiled with abstracts, presentations, journal articles and information from all of the speakers

and panel members, was distributed to the attendees, as well as other safety documentation from the SMRT. The purpose of the syllabus is to aid facilities in developing and maintaining their MR safety policies and procedures and to provide additional educational material.

The SMRT would like to thank the speakers and panel members for sharing their MR safety knowledge and contributing their MR safety documentation as well as their extremely valuable time during this very busy meeting. Thank you also to the ISMRM Program Committee and Executive Committee for inviting the SMRT to actively participate in the Annual Meeting.

This extraordinary opportunity will, we hope, be the start of a new tradition for the SMRT to contribute directly to the ISMRM Annual Meeting, bringing value to those attendees including clinicians, scientists, and technologists. This is one more way in which we support our commitment to provide education, promote communication and disseminate information in the field of magnetic resonance.

— Anne Sawyer-Glover,
Organizer and Moderator, SMRT Safety Forum
Treasurer, SMRT
Member, ISMRM Safety Committee



2002-2003 SMRT Board Members: (seated l. to r.) Anne M. Sawyer-Glover, Heidi Berns, John A. Koveleski, William Faulkner, Nanette Keck, (standing l. to r.) Maureen N. Hood, Marcia Gervin, Laurian Rohoman, Bobbie Burrow, Cindy Hipps, James Stuppino, Michael Kean, John Christopher, Julie Strandt-Peay, Robin Greene-Avison, Kelly Baron, Scott Kurdilla, Silke Bosk, Carolyn Roth, Gina Greenwood, Cindy Comeau, and Maureen Ainslie (not pictured: Carolyn Brown, Muriel Cockburn, Raymond Cruz, Julia Lowe, and John Posh).

2003 Young Investigator Awards

The International Society for Magnetic Resonance in Medicine announces the competition for the Young Investigator Awards for the Eleventh ISMRM Meeting in Toronto, Ontario, Canada, in May 2003. 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 reports of 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 postresidency 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 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 2003.)

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 Eleventh Scientific Meeting in Toronto. The finalists will make both oral and poster presentations at the Eleventh 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 fifteen additional copies**, 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 thirteen sets of photocopied images are required;
- A curriculum vitae;
- A printout of the electronically submitted abstract, with fifteen additional copies;
- A statement, with 15 additional copies, 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, 16 October 2002.**

Young Investigator Awards Check Sheet

Send completed Checksheet and all materials to:

Robert S. Balaban, Ph.D., Chair
Young Investigator Awards Committee
International Society for Magnetic Resonance in Medicine
2118 Milvia Street, Suite 201
Berkeley, CA 94704 USA

Applicant Name _____

Institution _____

Address _____

City _____

State/Province _____

Country/Postal Code _____

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 15 copies
 Curriculum Vitae
 Abstract and 15 copies
 Supervisor's Letter and 15 copies

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 Eleventh Scientific Meeting and Exhibition.

- Yes No

FOR OFFICE USE ONLY

NO.

DATE RECEIVED

ISMRM Workshop on MR of Childhood White Matter Disorders

11-13 September 2002

Rötterdam, The Netherlands

This workshop will focus on childhood white matter disorders. These constitute a vast group of diseases that pose challenges in terms of interpretation and diagnosis, while offering a unique model to improve our understanding of how histopathological alterations determine physical MR properties.

DESCRIPTION AND SESSION FORMAT

The aim of the workshop is to bring together MR researchers, physicists, radiologists, and pediatric neurologists to discuss findings in normal development and a variety of white matter disorders, including metabolic and acquired disorders, and the relevance of both conventional MR techniques, as well as advanced MR techniques, including MR spectroscopy, diffusion-weighted imaging, and magnetization transfer. The topics to be covered are:

- Normal white matter in neonates, infants, and children,
- Inflammatory white matter disorders in children,
- Hypoxic-ischemic white matter damage,
- Hereditary childhood leukoencephalopathies.

The workshop includes six sessions, three with plenary lectures, two with parallel workshops, and one with proffered paper presentations.

EDUCATIONAL OBJECTIVES

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

- Describe and explain normal brain development as seen by MR imaging;
- Apply and interpret MR spectroscopy to probe metabolic changes in CWMD;
- Design an appropriate MR imaging protocol to routinely detect CWMD;
- Apply advanced MR techniques to differentiate CWMD;
- Recognize CWMD and interpret MR images to provide a (differential) diagnosis;
- Select and evaluate techniques to monitor evolution and treatment of CWMD.

CREDIT HOURS AVAILABLE

The International Society for Magnetic Resonance in Medicine designates this continuing medical education activity for up to 18 hours in Category 1 of the Physician's Recognition Award of the American Medical Association. Each physician should claim only those hours of credit actually spent in the educational 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

WORKSHOP ORGANIZING COMMITTEE

- Frederik Barkhof, M.D., Ph.D., VU Medical Centre, Department of Radiology, Amsterdam, The Netherlands
- Marjo S. van der Knaap, M.D., Ph.D., VU Medical Centre, Department of Child Neurology, Amsterdam, The Netherlands
- Petra Pouwels, Ph.D., VU Medical Centre, Department of Clinical Physics, Amsterdam, The Netherlands
- Jacob Valk, M.D., Ph.D., VU Medical Centre, Department of Radiology, Amsterdam, The Netherlands

WORKSHOP SPEAKERS*

- Douglas L. Arnold, M.D., Montreal Neurological Institute, Montreal, Quebec, Canada
- Jeff W. M. Bulte, Ph.D., Johns Hopkins University, Department of Radiology, Baltimore, Maryland, USA
- Volker Engelbrecht, M.D., Ph.D., Heinrich-Heine-University, Department of Diagnostic Radiology, Dusseldorf, Germany
- Ali Fatemi, M.D., Neurogenetics Research Center, Kennedy Krieger Institute, Johns Hopkins Medical School, Baltimore, Maryland, USA
- Massimo Filippi, M.D., Scientific Institute HSR, Department of Neuroscience, Milan, Italy
- Folker Hanefeld, M.D., Georg-August-Universität, Kinderklinik & Poliklinik, Göttingen, Germany
- Ernst Martin, M.D., University Children's Hospital, Neuroradiology & Magnetic Resonance, Zürich, Switzerland
- Jean-Jacques Martin, M.D., Ph.D., Universitaire Instelling Antwerpen, Antwerp, Belgium
- Jane E. McGowan, M.D., Johns Hopkins School of Medicine, Division of Neonatology, Baltimore, Maryland, USA
- Joseph C. McGowan, Ph.D., United States Naval Academy, Electrical Engineering, Annapolis, Maryland, USA
- David H. Miller, M.D., Institute of Neurology, NMR Research Unit, London, England, UK
- Klaas Nicolay, Ph.D., Eindhoven University of Technology, Department of Biomedical Engineering, Eindhoven, The Netherlands
- Charles A. Raybaud, M.D., Ph.D., Neuroradiologie, CHU Timone, Marseille, France
- Mark A. van Buchem, M.D., Ph.D., Leiden University Medical Center, Department of Radiology, Leiden, The Netherlands
- Patrick Van der Voorn, M.D., VU University Medical Center, Department of Pathology, Amsterdam, The Netherlands
- Peter Van Zijl, Ph.D., Johns Hopkins University Medical School, Department of Radiology, Baltimore, Maryland, USA
- Marie T. Vanier, M.D., Ph.D., Laboratoire Fondation Gillet-Merieux, Centre Hospitalier Lyon-Sud, Pierre Benite, France
- Bernard Zalc, M.D., Ph.D., Hôpital de la Salpêtrière, Paris, France

*Partial List

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



ISMRM Workshop on *In Vivo* Functional and Molecular Assessment of Cancer

19-21 October 2002

Chaminade at Santa Cruz, Santa Cruz, California, USA

The workshop program will cover the latest advances in the application of MR to cancer research. In addition to invited scientific presentations, the program will include invited presentations by young scientists, presentations of proffered papers, poster sessions, lectures on special topics of basic and clinical relevance, a roundtable discussion on high field MR, and a session intended to generate a white paper, "Current Role and Future Directions of MR in Cancer."

WORKSHOP ORGANIZING COMMITTEE

- Michael Garwood, Ph.D., University of Minnesota, Minneapolis, Minnesota, USA
- Michael V. Knopp, M.D., Ohio State University Medical Center, Columbus, Ohio, USA
- Ingrid S. Gribbestad, Ph.D., MR Center, SINTEF Unimed, Trondheim, Norway
- Arend Heerschap, Ph.D., University Hospital Nijmegen, The Netherlands
- June S. Taylor, Ph.D., Duncan Laboratories, Evanston, Illinois, USA

EDUCATIONAL OBJECTIVES

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

- Describe current MRI/MRS methodologies used to diagnose cancer and to evaluate response to therapies;
- Explain biostatistics for analyzing MR indices used in diagnosis and therapeutic response monitoring;
- Evaluate different MRI contrast mechanisms and appropriately select these for specific applications to cancer;
- Describe some of the unique metabolic/physiologic characteristics of cancer that can be assessed by MRI/MRS;
- Explain the regulatory issues related to the introduction of new MRI agents;
- Appraise the current role and expected future directions of MR in the cancer research lab and the cancer clinic.

CREDIT HOURS AVAILABLE

The International Society for Magnetic Resonance in Medicine designates this continuing medical education activity for up to 12 hours in Category 1 of the Physician's Recognition Award of the American Medical Association. Each physician should claim only those hours of credit actually spent in the educational activity.

VENUE

Chaminade is a mission style hotel and executive conference center located on a 300-acre bluff overlooking the Monterey Bay in Santa Cruz, California, USA. Chaminade's location offers an ideal venue for conferences and is known for its high level of service, outstanding food, spectacular grounds, and guest leisure activities.

PROGRAM

SATURDAY, 19 October 2002

Importance of the Tumor Micro-environment for Response to Therapy
Speaker: J. Martin Brown, D. Phil.

INTRODUCTION AND OVERVIEW TO CONTRAST ENHANCED MRI
Chair: Boudewijn van der Sanden, Ph.D.

New Agents in the Pipeline
Speaker: Michael F. Tweedle, Ph.D.

INTRODUCTION AND OVERVIEW TO EVALUATING ANTI-ANGIOGENIC AND OTHER THERAPIES BY MRI
Chair: Ross J. Maxwell, Ph.D.

The Need for Better Imaging from an Oncologist's Perspective
Speaker: Douglas Yee, M.D.

Poster Session 1: Functional and Molecular Assessment of Cancer by MRI
OTHER MRI CONTRASTS IN CANCER

Chair: Risto Kauppinen, M.D., Ph.D.

T2* MRI
Speaker: Michal Neeman, Ph.D.

T2 and T1 ρ MRI
Speaker: Olli Grohn, Ph.D.

Diffusion MRI
Speaker: Brian D. Ross, Ph.D.

Cell Tracking by MRI
Speaker: Jeff W. M. Bulte, Ph.D.

SUNDAY, 20 October 2002

Special Negendank Session:
INTRODUCTION AND OVERVIEW TO CHOLINE METABOLISM:
MEMBRANE TURNOVER AND/OR SIGNAL TRANSDUCTION
Chair: Zaver M. Bhujwala, Ph.D.

Biochemistry of Choline Compounds
Speaker: Dennis E. Vance, Ph.D., F.R.S.C.

Cancer MR Studies of Choline Compounds— Basic Research Perspective
Speaker: Sabrina M. Ronen, Ph.D.

pH AND LACTATE
Chair: Marion Stubbs, D.Phil.

Understanding the Tumor Metabolic Phenotype in the Genomic Era
Speaker: Marion Stubbs, D.Phil.

Comparison of Extracellular pH and Lactate Maps Obtained *In Vivo* in Rat Brain Gliomas by Proton Spectroscopic Imaging
Speaker: Chantal Rémy, Ph.D.

Microenvironmental pH and Drug Resistance in Tumors
Speaker: Natarajan Raghunand, Ph.D.

Negendank Memorial Lecture:
Clinical MRS: Where and When Can It Make a Difference?
Speaker: John Kurhanewicz, Ph.D.

Poster Session 2: Metabolic Assessment of Cancer by MRS
PROSPECTS OF HIGH MAGNETIC FIELDS IN CANCER
Chair: Joseph J. H. Ackerman, Ph.D.

Advantages of High Magnetic Fields in Cancer
Speaker: Michael Garwood, Ph.D.

Disadvantages of High Magnetic Fields in Cancer
Speaker: Truman R. Brown, Ph.D.

MONDAY, 21 October 2002

Regulatory Issues Related to the Introduction of New MRI Agents
Speaker: Michael V. Knopp, M.D.

CURRENT ROLE AND FUTURE DIRECTIONS OF CANCER MR:
TO GENERATE A WHITE PAPER
Chair: Jeffrey L. Evelhoch, Ph.D.

The purpose of this session is to reach a consensus on what the ISMRM MR of Cancer Study Group considers to be areas of MR research which, over the next few years, are most likely to advance our understanding of the fundamental biology of cancer and to advance the use of MR in the diagnosis and management of patients with cancer. This consensus will be briefly summarized in a paper (a so-called "white paper") that will be appropriate for distribution to funding agencies and administrators to make clear the Study Group's position on this topic and, hopefully, encourage them to support research in these areas.

FOR FURTHER INFORMATION, PLEASE CONTACT ISMRM

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ISMRM Workshop on Current Issues in MR Safety



23-24 February 2003

ArabellaSheraton Grand, München, Germany

Endorsed by the German Commission on Radiological Protection (SSK)

This workshop is the latest in a series designed to keep ISMRM members abreast of developments in the field of MR safety. The need for regular updates is increased by the introduction of high field human imaging systems (3-8 T) and the widespread use of interventional MR. The workshop will be held in Europe so the participants can also gain a perspective on European regulatory issues.

SESSION TOPICS

- B₀ Safety
- Gradient-Induced Stimulation Safety
- Acoustic Noise Safety
- RF Safety
- Other Safety Issues
- Harmonization of Worldwide Standards
- MR Clinical Safety

WORKSHOP ORGANIZING COMMITTEE

General:

- David G. Norris, Ph.D., FC Donders Centre, Nijmegen, The Netherlands

Scientific Program:

- Daniel J. Schaefer, Ph.D. (Chair), GE Medical Systems, Milwaukee, Wisconsin, USA
- Hans Engels, Ph.D., Philips Medical Systems, Best, The Netherlands
- Joel P. Felmlee, Ph.D., Mayo Clinic, Rochester, Minnesota, USA
- Georg Frese, Siemens AG Medical Engineering, Erlangen, Germany
- Jürgen Hennig, Ph.D., Universität Freiburg, Freiburg, Germany
- Dietbert Hahn, M.D., Universität Würzburg, Würzburg, Germany
- Gunnar Brix, Ph.D., Federal Office for Radiation Protection, Oberschleissheim, Germany

Local Organising Committee:

- Michael Peller, Klinikum Grosshadern, München, Germany
- Gunnar Brix, Ph.D., Federal Office for Radiation Protection, Oberschleissheim, Germany
- Maximilian Reiser, M.D., Klinikum Grosshadern, München, Germany

FOR FURTHER INFORMATION, PLEASE CONTACT ISMRM

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FAX: +1 510 841 2340
E-mail: info@ismrm.org
Website: <http://www.ismrm.org>



SEPTEMBER

Meeting: *Basics and Clinical Applications of Human Proton Spectroscopy*

Date: 19-21 September 2002

Where: University Hospital, Tübingen, Germany

Contact: F. Hoesel, Section of exp. MR of the CNS, Department of Neuroradiology, Hoppe-Seyley Str. 3, D-72076 Tübingen
Fax: ++49 7071 294371

E-mail: franziska.hoesel@med.uni-tuebingen.de

Meeting: *Cardiovascular Imaging 2002: 30th Annual Meeting & Scientific Sessions*

Date: 21-24 September 2002

Where: Westin Galleria Dallas, Dallas, Texas, USA

Contact: North America Society for Cardiac Imaging (NASCI)
930 Edgecliff Way Redwood, City, CA 94061 USA

Tel: +1 650 216 6621

Fax: +1 650 556 1678

Website: <http://www.>

Meeting: *4th Interventional MRI Symposium* **Endorsed by ISMRM**

Date: 27-28 September 2002

Where: Renaissance Leipzig Hotel, Leipzig, Germany

Contact: Jens-Peter Schneider, Department of Diagnostic Radiology, University of Leipzig, Liebigstr. 20a, 04103 Leipzig

Tel: ++49 341 97 18100

Fax: ++49 341 97 18135

E-mail: schneidj@medizin.uni-leipzig.de

OCTOBER

Meeting: *International Symposium on High-Field MR in Clinical Applications* **Endorsed by ISMRM**

Date: 11-12 October 2002

Where: Bonn, Germany

Contact: Hans H. Schild,
Department of Radiology
University of Bonn

Sigmund-Freud-Str. 25

D-53105 Bonn, Germany

Tel: +49 228 287 58 70

Fax: +49 228 287 60 93

E-mail: 3Tesla@ukb.uni-bonn.de

Website: <http://www.radiologie.uni-bonn.de>

Meeting: *Current Concepts of Magnetic Resonance Imaging* **Endorsed by ISMRM**

Date: 13-17 October 2002

Where: Monterey Plaza Hotel, Monterey, California, USA

Contact: Stanford University School of Medicine
Department of Radiology

CME Destination Course Office

Tel: 888 556 2230 or +1 650 498 6319 (outside of US)

Website: <http://radiologycme.stanford.edu/>

Mark Your
Calendar!

ISMRM IMPORTANT DATES AND DEADLINES

6 SEPTEMBER 2002

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

11-13 SEPTEMBER 2002

ISMRM Workshop on MR of Childhood
White Matter Disorders,

NEW VENUE Rotterdam, The Netherlands

16 OCTOBER 2002

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

19-21 OCTOBER 2002

ISMRM Workshop on *In Vivo* Functional and
Molecular Assessment of Cancer,
Santa Cruz, California, USA

7 NOVEMBER 2002

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

20 NOVEMBER 2002

Deadline for receipt of Abstract submissions.

20 NOVEMBER 2002

Deadline for receipt of Educational Stipend Applications.

20 NOVEMBER 2002

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

20 JANUARY 2003

Deadline for receipt of Proffered Papers for the
SMRT 12th Annual Meeting.

23-24 FEBRUARY 2002

ISMRM Workshop on Current Issues in MR Safety,
München, Germany

28 MARCH 2003

Deadline for Advance Registration for the ISMRM
Eleventh 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

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