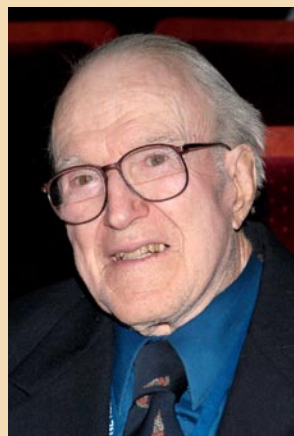
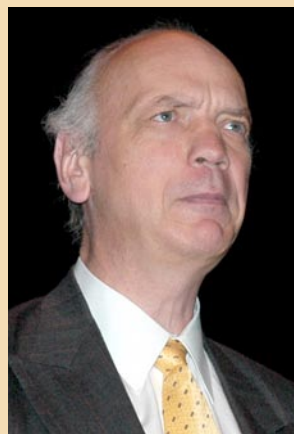


## MR PULSE

VOL. 12, NUMBER 2 | AUGUST 2005



**Britton Chance, 2005  
Lauterbur Lecturer**



**Jürgen Hennig, 2005  
Mansfield Lecturer**



**Chrit T. Moonen, 2005-2006  
ISMRM President**

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## Letter from the President

Following a record breaking Annual Meeting in Miami, the appointment of an excellent new Executive Director, and outstanding work on the numerous ISMRM activities by an amazingly high number of dedicated volunteers, you will probably agree with me that the status of our Society is a healthy one. This does not mean that we are standing still. Magnetic resonance continues its surprisingly fast development, both with regard to the techniques as well as new applications. As other (sometimes competing) techniques evolve as well, and society at large has to deal with health care issues, ever increasing costs, and the need for detailed information for professionals and general public, the ISMRM has to adapt to the changing environment. Our guide in these efforts is the Strategic Plan, adopted by the Board of Trustees in 2004, and available on the ISMRM web site (<http://www.ismr.org/about.htm>). I invite you to take a look at our Strategic Plan. It is intended to be an evolving plan, so please contact the Central Office or me if you have comments or ideas. Together with the reports of several ISMRM committees and the ISMRM's Central Office, this letter is to report to you where most of our ISMRM activities have been in the past few months and will be in the upcoming period, and how they fit in the Strategic Plan.

The Annual Meeting is the single most important ISMRM event and is part of Goal 1 of the Strategic Plan. This year's Miami meeting was by all accounts a record setting meeting. More than 4,600 abstracts were submitted, and 4,594 professional delegates and 1,043 exhibition personnel attended the meeting. This year 500 Educational Stipends for Students, Postdoctoral and Clinical Trainees were awarded, as well as 52 New Entrant Stipends. In addition, the ISMRM funded 23 E.K. Zavoisky stipends.

*See President's Letter page 2*

The SMRT (Section for Magnetic Resonance Technologists) also held their Annual Meeting in Miami, with 276 technologists participating, of which 168 attended the ISMRM Scientific Meeting as well.

The Scientific Program Committee, chaired by Vivian Lee, assisted by many ISMRM reviewers, has done a fantastic job in reviewing, ranking, and categorizing the abstracts. In addition, they organized the plenaries and weekday courses starting about 18 months prior to the meeting. Also, a record number of attendees opted for the full program including weekend courses, a clear indication of the growing needs for state-of-the-art education and the quality of the ISMRM educational program. The weekend courses were organized by the Education Committee, chaired by Roland Kreis, and received very high notes for the quality of speakers and educational content. The ISMRM is very grateful to Vivian Lee, Roland Kreis, their committees, the speakers, and abstract reviewers for an excellent job.

As you probably have noticed, the Miami Annual Meeting has paid particular attention to *"Educational Offerings for Clinicians."* Courses for clinicians have long been an important part of the ISMRM annual meeting. Vivian Lee and her SPC, together with the Education Committee, expanded those courses and developed a new initiative in offering walks-through-the-week for the different organ subspecialties: neurological, body, vascular, and musculoskeletal. Together with the Central Office, an advertising campaign was organized to increase the visibility of this new initiative. Indeed, preliminary analysis of registration records indicated a large increase in attendance by clinicians. This very successful addition to the annual program requires a more detailed evaluation. If the increased attendance is the beginning of a

trend, it will have logistical implications. Also, many courses have been video captured and are offered for viewing on the ISMRM web site (see [www.ismr.org](http://www.ismr.org) for more details). The ISMRM provides generous support for student stipends.

Of course, Miami Beach offered a great setting for our meeting, and many attendees expressed an interest in having the meeting there again sometime in the future. Not everything was bright sunshine, though, and we apologize for the audiovisual problems, in particular for videos. This problem was in part due to contractual obligations linking the audiovisual services to the Conference Center and therefore, limited outsource options for the ISMRM. The Central Office is looking into ways to avoid a repeat of such problems.



The organization of the Seattle meeting in 2006 is already well advanced. Plenary lectures, as well as the Lauterbur and Mansfield lectures have already been determined. The 2006 SPC, chaired by David Norris, and the 2006 Education Committee, chaired by Leif Østergaard are coordinating their efforts even further than in the past. The committees are working closely together to address two disadvantages of the current system. With the record number of abstracts it has become nearly impossible that every abstract is evaluated by a full member of the SPC. In addition, weekday courses have traditionally been organized by the SPC, whereas

weekend courses have been organized by the Education Committee. This separation of duties is not the optimal one for organizing walk-through-the-week programs for different subspecialties. A reorganization of the two committees will be discussed further as part of the overall committee restructuring.

The Meeting Coordination Committee prepared a short list of European and North American venues for the 2010 and 2011 Annual Meetings. The Board selected Stockholm, Sweden, for the site of our 2010 Annual Meeting and Montreal, Quebec, Canada, as the site for the 2011 Annual Meeting.

As of 1 July, Roberta Kravitz is ISMRM's new Executive Director, taking over from Jane Tiemann who has served the ISMRM as the hitherto one and only Executive Director. Jane has been a tremendous asset, and we thank her for the outstanding job she has done. Walter Kucharczyk, our Past President has described in his Letter from the President of March 2004, the procedure that was followed for her recruitment. Briefly, following advice from the Board, Walter formed a Search Committee headed by Mike Moseley, with Paul Finn (currently President-Elect), Roxanne Deslauriers (Treasurer), Mark van Buchem and Ming Wang (ISMRM members), Walter (*ex officio*) and me. A professional search firm was hired to assist the Search Committee. Six candidates were invited for an interview with the Search Committee in Berkeley. Three excellent candidates were then selected for a final interview and a meeting with the Central Office staff. Roberta Kravitz, who has served the ISMRM in various functions since 1992, was clearly identified as the best person for the position because of her clear vision for the future of the ISMRM, the role of the Central Office, the relation with the Board of Trustees and elected officers, and her excellent views of further developing

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the ISMRM according to the strategic plan. The board approved her selection just prior to the Miami meeting. We are extremely pleased with the choice of Roberta Kravitz, and feel confident that the ISMRM is in very good hands.

The appointment of Roberta also serves to highlight once again the tremendous role the Central Office is playing in all activities. The *MR Pulse* of March 2005 had a special "Meet the ISMRM Central Office" allowing all members of the ISMRM to get to know "their" team behind the scenes. Comparative analyses have repeatedly shown that our Central Office is understaffed as compared to the average of similarly sized professional societies. As demands on Central Office increase as part of the Strategic Plan, Roberta is undertaking a critical look of the needs for further staffing as one of her first initiatives as the new Executive Director.

Workshops are a very important part of the ISMRM's activities. The Society (co)sponsors several workshops every year. Some of these are intended to provide a highly focused state-of-the-art overview of the scientific developments in a given field. You will find announcements of workshops in this issue of *MR Pulse*. Study Groups are often at the origin of such workshops. The Board recognizes the crucial role of the Study Groups, and encourages Study Groups to organize regular workshops with a frequency of about once in three years. Furthermore, the Board has approved financial incentives to workshop organizations if their workshops are financially successful. A safety workshop will be held in the near future, and will address specific concerns of regulations that might affect many of our members, for example in Europe with respect to prolonged exposure to magnetic fields.

Educational workshops, in particular as part of the International Outreach Program identified in Goal 3 of the Strategic Plan, have received much attention recently. Following a very successful workshop in Shanghai in 2004, an excellent workshop was held in Singapore in March 2005, and meetings are planned for Beijing, Seoul, and Mexico City this autumn. Please, see the ISMRM web site for more details. Walter Kucharczyk has spearheaded the ISMRM's help in the local organization of these meetings. Advanced discussions are underway with South Africa, Thailand, and China for further 2006 educational workshops. Our Gold level corporate members have each graciously donated US\$25,000 in 2005 to help finance these initiatives.

Following advice from the Subcommittee on Financial Support, chaired by Paul Finn, the Board recently approved important new opportunities for corporate sponsorship. Our current system recognizes Gold, Silver and Bronze members. For 2006, the ISMRM will allow a new entry level sponsorship, provisionally called "Corporate Associate Member" intended for start-up and small companies with an interest in MR. In addition, sponsorship of specific courses at the Annual Meeting will be made possible for those companies with a specific interest in a particular course of the meeting. Please, contact the Central Office for more details.

As the ISMRM proceeds towards the goals of the Strategic Plan, some items still need further attention. A redesign of the web site will be undertaken with improved functionalities for ISMRM members, the public at large, and corporate sponsors. Also, our committee structure may not be optimal with regard to the Strategic Plan. For example, the coordination between SPC and Education Committee may function better with

the creation of a combined "Annual Meeting Program Committee." Also, since the Study Groups are mostly at the origin of scientific workshops, the Study Group Review Committee and the current Workshop Committee may be combined into a single committee. Together with feedback from the members of those committees, the Governance Committee will undertake an overall evaluation of the ISMRM's committee structure. This will then be discussed at the autumn meeting of the Board of Trustees. Since a change in committee structure requires a change in ISMRM Bylaws, any such proposed change must then be approved by a vote by the ISMRM membership.

As you can see from the report from the Finance Committee, the ISMRM is in good financial health despite some worries. Our Annual Meeting runs a deficit despite the record attendance. This is in part due to our strategic decisions such as high level of the number of student stipends and high audiovisual costs for video capture. Since registration fees and corporate sponsorship fees have not been raised in recent years, the Board has approved modest increases to cover for inflation.

Overall, the ISMRM is in good health with very active participation of its membership, a small but dedicated and very efficient Central Office, and a clear Strategic Plan. In closing, let me thank you for your support of the ISMRM. Please, continue your strong involvement in order to allow the ISMRM to increase its role as the premier international society in Magnetic Resonance in Medicine and related fields.

—Chris T. Moonen  
President, ISMRM



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## Meet the New Executive Director



**D**ear ISMRM Members,

I am honored to be writing my first letter to you from the Central Office as the ISMRM Executive Director. I want to thank the search committee appointed by the ISMRM Board of Trustees– Michael Moseley, Walter Kucharczyk, Chrit Moonen, Paul Finn, Roxanne Deslauriers, Mark van Buchem, and Ming Wang– for the enormous amount of work this committee did to insure a thorough and fair search for the ISMRM Executive Director, as well as the Board of Trustees for their vote of confidence in my ability to assume this new role with your organization. I also wish to thank Jane Tiemann for her years of service, not only resulting in the extremely stable yet dynamic organization she handed over to me on 1 July, but for the opportunities and guidance she has given to me over the years I have worked for this Society.

The vision, mission, values, and goals of this organization are clearly outlined in the ISMRM Strategic Plan, adopted by the ISMRM Board of Trustees and posted on the ISMRM Web site for your review (<http://www.ismr.org/about.htm>). The ISMRM has always demonstrated its commitment to seeking out new ideas, challenging old ways of thinking, measuring and communicating results, sharing its knowledge, and fostering learning throughout the world. This commitment is outlined in this Strategic Plan, which is driven by you, the member, as an active participant in the organization to which you have chosen to belong. I encourage you to get involved, if you are not already, be it through the study groups, abstract review process, workshop development, and/or committees.

It is your vision and goals that drive the Central Office staff. We measure our own accomplishments by your success. That is why we work so hard to bring you resources designed to help you achieve your aspirations through your professional organization. We view ourselves as a resource or tool to aid you in your research. It is our responsibility to listen, to provide guidance, to search for solutions, and to implement those resources that will best assist you in your individual work while meeting your organization's goals as outlined in the Strategic Plan.

I encourage you to contact and meet the members of the Central Office team– myself as Executive Director; Jennifer Olson, Associate Executive Director; Robert Goldstein, Director of Education, and Katie Simmons, Education Coordinator; Anne Ornelas de Lemos, Director of Membership, and Kristina King, Membership Coordinator; Mark Brown, Accountant Manager, and Mariam Barzin and Kimberly Tran, Accounting Assistants; Sheryl Liebscher, Publications Manager; Sally Moran, Director of Electronic Communications; and Amanda Knapp, Administrative Assistant.

It is an honor for me that the Board of Trustees has demonstrated their trust in my ability to lead this dynamic team. I hope that my work here over the last ten-plus years has conveyed and will continue to convey my deep commitment to each of you and to the well-being and development of this association.

I look forward to working with each of you. Please do not hesitate to contact me either by telephone or email if you have any questions, concerns, or ideas about how we can better serve you and your association, the ISMRM.

— Roberta A. Kravitz  
Executive Director

## 2005 SCIENTIFIC PROGRAM COMMITTEE REPORT

**B**y all measures, the ISMRM 13th Annual Meeting, held in South Miami Beach, Florida, USA, from 7-13 May 2005 was a huge success. The venue and climate were extremely hospitable, the content of the scientific and educational programs superb. And attendance set impressive new records—over 4500 scientific attendees!!!

This year's record number of abstract submissions—4111—represented almost 500 more than any previous year and provided the SPC great opportunities in creating a meeting that reflected the breadth and impact of our field. I am indebted to the members of the SPC and to the more than 400 reviewers, for their prompt and thorough abstract reviews. SPC members worked closely with the Education Committee under the leadership of Roland Kreis, to coordinate an educational program spanning the weekend and week. For the planning of next year's meeting in Seattle, the trial merging of the SPC and Education Committee into an Annual Meeting Program Committee (AMPC) will enable an integration where the entire weekend and weeklong scientific and educational components for basic scientists and clinicians will be considered together in the planning process.

The 2005 Annual Meeting presented many new and expanded features that built on the innovations introduced in Kyoto, including the 191 electronic posters presented in the poster hall during the Poster Sessions (and available for viewing throughout the week), audio/video capture of almost all the oral sessions (with internet access following the meeting to registered attendees), expanded wifi coverage in the conference center, more poster awards, many new and refreshed morning and Clinical Categorical Courses, and, finally, several new programmatic features including the new *Clinical MRI* week-long program and a special two-hour research funding symposium on Monday afternoon.

**A few of the many highlights of this year's Annual Meeting are described below:**

**Distinguished Speakers:** On Monday, 9 May 2005, morning, **Professor Britton Chance**, from the University of Pennsylvania, presented his Paul Lauterbur Lecture on "*NIR Optical Windows to the Body: Brain, Heart and Fetus, Correlation with MRI and MRS.*" The span of his life's work, so far, was inspirational for the audience and emphasized the importance of always thinking beyond the bounds of one's own field of expertise. **Professor Jürgen Hennig**, of the University of Freiburg, delivered the second annual Sir Peter Mansfield Lecture, on "*Fast Imaging Horizons in Rapid MR Imaging*" on Thursday, 12 May 2005. His presentation highlighted the tremendous advances that have been made during the course of his own career and was also provocative in the predictions made for future advances in rapid imaging methods.

**Plenary Sessions:** This year's theme of the Plenary Sessions, "*From Molecules to (Wo)Man,*" was a great success thanks to the excellence of the plenary speakers. The week started by putting our field in the broader context of MRI in a Multidisciplinary World, where Marc Laruelle, Martin Pomper, and Koen Nieman presented overviews of alternative methods for psychiatric, cancer, and coronary imaging. From Tuesday, the plenaries highlighted the impressive span of MR applications from the level of molecules (Tuesday) to cells (Wednesday) to organs (Thursday), and finally, to whole body MR imaging (Friday). Specifically, the molecular imaging of tissue oxygenation was detailed by Harold Swartz using EPR, Richard Buxton using BOLD in the brain, and Anwar Padhani using BOLD and PET in tumor imaging. A focus on stem cell tracking on Wednesday started with a pathologist's perspective on



The Plenary Sessions, "*From Molecules to (Wo)Man,*" were well received by this year's record-breaking audience.

See SPC Report page 6



the pathobiology of stem cells, given by Neil Theise, followed by applications of MRI to track stem cells by Jeff Bulte, and the clinical application of cardiovascular stem cell delivery and tracking by Robert Lederman. Organ imaging focused on functional and physiological imaging, not only in the brain, with Micheal Phillips, but also in the heart with Robert Judd, and skeletal muscle in gait disorders with Scott Delp. Finally the clinical utility of whole body imaging as compared with PET and PET/CT was reviewed by Richard Wahl, followed by a discussion of the technical and clinical considerations of whole body MRI delivered by Stephen Riederer and Stefan Ruehm, respectively.

### New Morning and Clinical Categorical Courses:

The SPC refreshed existing offerings and added several new programs for the Morning Categorical Courses: (1) New Developments in MR Hardware, (2) Answering Clinical Questions with fMRI/DTI/PWI, (3) New Horizons in Musculoskeletal MR Imaging, (4) Cardiovascular MR Imaging, (5) Technical Advances and their Impact in Body MR, (6) Quantitative Neuro MR, (7) MRS and MRI at High Field, and (8) Echo Management. Attendance at the early morning sessions was superb, averaging almost 100 in almost all sessions over four days.

Five new 2-hour Clinical Categorical Courses featured such topical subjects as *"Imaging at 3T," "MRI in Mother, Fetus, and Newborn," "Current Topics in Cardiac MRI," "Hot Topics for Clinical Practice,"* and *"Cancer MR."* As ever, these courses attracted large audiences of clinicians and scientists interested in clinical applications.

**Clinical MRI: From Principles to Practice:** The Miami meeting debuted a new week-long program that was designed to provide attendees with a broad training in clinical MRI. The span of education ranged from the physics of MR to protocol optimization to image interpretation. The program started with a new day-long course, *"Clinical MRI: From Physical Principles to Practical Protocols,"* on Saturday and including a number of clinical day-long courses on Sunday. In addition to the variety of clinical Morning and Clinical Categorical Courses, five new *"Clinical Problem Solving"* sessions were added to the program that were designed to be intensive case-based problem-solving interpretation sessions. These sessions were extremely popular and attracted many new clinical attendees to the ISMRM's Annual Meeting. Rounding out the new program, new vendor-supported *"Hands-On Protocol Optimization"* sessions and the ever-popular *"MR Physics for Clinicians"* course were also offered. Taking



Great opportunities for networking, exchanging ideas and groundbreaking technologies are always to be found in the Exhibition Hall as well as at the scientific sessions and educational courses.

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advantage of the superb range of educators amongst the membership, the development of clinical education programs will continue to be a priority for the ISMRM.

Also, for the first time this year, color-coded "Walk-through-the-Week" schedules were provided as part of the *Program Book* for easy identification of sessions of interest for those with neurological, musculoskeletal, body, and cardiovascular interests.

**Poster Awards:** Following last year's success, poster awards were again awarded this year: Engineering/Hardware, Body/Cardiac/Musculoskeletal MR, Neuro MR, Cancer/Spectroscopy, Pulse Sequences, and New Frontiers. Hearty congratulations to the winners! (See page 10)

**Research Funding Symposium:** A new two-hour research funding symposium, "Research Funding: Prospects, Pearls, and Pitfalls" attracted many attendees on Monday afternoon and was extremely well received. In the first hour, Dr. Eileen Bradley from the NIH gave invaluable advice on grants and grantsmanship and Dr. John Griffiths provided practical insight into the complex events surrounding European funding. During the second hour, the session featured speakers, Deborah Burstein, Charles Mistretta,

Chrit Moonen, and Richard Ehman, who each gave entertaining, insightful, and pearl-laden points of advice for the grant-seeking individual. Dr. Ehman then moderated a lively question-and-answer session.

**ISMRM/SMRT Joint Forum:** This year's joint forum was again a success. Focusing on the very practical challenges of protocol and pulse sequence optimization, this year's program featured Gareth Barker, Todd Frederick, Achim Gass, and Gary Israel, who provided the physicist, technologist, and physician perspective on how optimization can improve imaging and reduce artifacts and pitfalls.

The Scientific Program Committee is able to function effectively because of the tremendous behind-the-scenes work of the team at the Central Office of the ISMRM, based in Berkeley, California. Jane Tiemann, Executive Director, Bob Goldstein, Education Director, Roberta Kravitz, Director of Meetings, and Sheryl Liebscher, Publications Manager, are amongst those that I have had the particular pleasure of working with this year. As many of you know, Jane Tiemann, the Executive Director of the ISMRM, retired shortly after this Annual Meeting. Jane's leadership and commitment to the Society have helped to make the ISMRM what it is today,



See SPC Report page 8





**2004-2005 ISMRM Officers and Board Members (front row l. to r.)** David H. Miller, Roland Kreis, Kim Butts, Alberto Bizzi, Vivian S. Lee, Jane Tiemann, Executive Director, Margareta Hall-Craggs, Roxanne Deslauriers, Martin R. Prince, Christiane K. Kuhl, Daniel K. Sodickson, Peter Jezzard, C. Leon Partain, Michael B. Smith. (back row l. to r) Jeffrey L. Duerk, Michael E. Moseley, Chrit T. Moonen, A. Gregory Sorensen, Risto A. Kauppinen, Martin O. Leach, Leif Østergaard, Jeffrey J. Neil, Peter Börner, J. Tommy Vaughan, David G. Norris, James F.M. Meaney, Donald M. Hadley, David Bluemke, Walter Kucharczyk, Klaas Nicolay, J. Paul Finn, Peter S. Allen, and Debaio Li.

a respected, financially-sound, rapidly growing scientific organization that is the envy of many others. As leader of the Central Office, she has demonstrated superb management skills. As our Executive Director, she has provided a reliability, stability, good humor, strength, and vision that will be missed by all. Jane was honored at the Annual Meeting with a special recognition award as well as in various less formal functions where many of the less well-known stories of her hard work, ingenuity, and resourcefulness were shared. Over this summer, we welcome Roberta Kravitz, former Director of Meetings, as the new Executive Director of the Society and all feel extremely fortunate to have attracted her to this position.

This past 18 months was an extremely busy time for members of the 2005 Scientific Program Committee. It was a great pleasure for me to have had the opportunity to work with such a wonderfully enthusiastic and committed group of individuals: David G. Norris, Vice Chair, Peter S. Allen, Gareth J. Barker, Alberto Bizzi, David A. Bluemke, Sebastián Cerdán, Qun Chen, Steven M. Conolly, R. Todd Constable, Bruce L. Daniel, Jeffrey L. Duerk, Joshua M. Farber, J. Paul Finn, Hiroyuki Fujita, Robert J. Gillies, Rolf Gruetter, Petra S. Hüppi, Clifford R. Jack, Glyn Johnson, Risto A.

Kauppinen, Michael V. Knopp, Frank R. Korosec, Roland Kreis, John Kurhanewicz, Albert C. Lardo, Weili Lin, James F. M. Meaney, Yukio Miki, Leif Østergaard, Caroline Reinhold, Neil M. Rofsky, Dikoma C. Shungu, Anne-Marie Van der Linden, Lawrence M. White, Samuel A. Wickline, and Steven M. Wright. I would also like to thank Walter Kucharczyk for his impressive leadership as the President of the Society this past year and for honoring me with the position of SPC Chair. I could not have carried out my duties without the advice and precedents set by previous SPC Chairs, David Lomas and Jeffrey Duerk, for whom I have the greatest respect. The baton has been passed to the 2006 Annual Meeting Program Committee, led by David Norris and Leif Østergaard, under the direction of this year's president, Chrit Moonen. As we plan the 14th Annual Meeting in Seattle, Washington, USA, we invite you to provide the new committee with your feedback and suggestions for making next year's meeting better than ever.

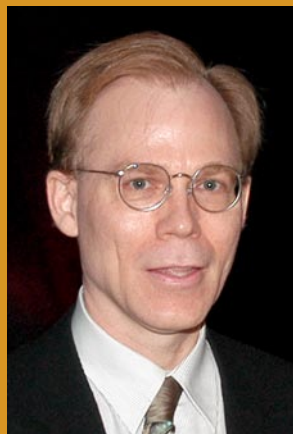
**—Vivian S. Lee**  
**2005 Scientific Program Committee Chair**



## ISMRM AWARDS COMMITTEE REPORT



Andrew Maudsley



Martin R. Prince



Felix W. Wehrli



Jane E. Tiemann

At the 13th Annual Scientific Meeting in May 2004 in Miami, the ISMRM honored a number of outstanding scientists and clinicians for their contributions to the field of magnetic resonance and to the Society:

The **Gold Medal** is the highest award of the ISMRM and was presented to two eminent members of the Society.

**Andrew Maudsley** was awarded the Gold Medal for the very earliest pioneering efforts in MRI, and later for high-field and multi-nuclear experimental and clinical imaging and spectroscopy innovations.

**Martin R. Prince** was awarded the Gold Medal for pioneering efforts and applications in high temporal and spatial resolution contrast-enhanced MRA of the peripheral vasculature.

The **Distinguished Service Medal**, also known as the **Silver Medal**, is awarded for outstanding service to the Society and its predecessors. In 2005 it was awarded to **Felix W. Wehrli** for his outstanding service to the Society as Editor of *Magnetic Resonance in Medicine* for the past 13 years.

**Fellows of the ISMRM** are recognized for their contributions to research and/or to the development of the ISMRM. At the 2005 meeting, the Society recognized the following individuals by according them with the designation as Fellow of the ISMRM: **Joseph Helpert, Clifford Jack, John Pauly, Klaas Pruessmann, Maximilian Reiser, Michael Smith, Daniel Sodickson, Kazuro Sugimura, and Robert Turner.**

The ISMRM awarded two **Special Recognition Awards** in 2005. A **Special Recognition Award** was given to the **Whitaker Foundation** in recognition of the major impact that the funding provided by the Foundation has had on the development of MR over the past 25 years.

The final awards at the Awards ceremony were presented to **Jane Tiemann**. Jane Tiemann was given a **Special Recognition Award** and a **Lifetime Membership Award**. These awards were given in recognition of her outstanding service to the Society as its Executive Director from 1994 to 2005.



Fellows of the ISMRM: Clifford Jack, John Pauly, Klaas Pruessmann, Joseph Helpert, Maximilian Reiser, Kazuro Sugimura, Michael B. Smith, Daniel Sodickson, and Robert Turner (not pictured).

## 2005 YOUNG INVESTIGATOR AWARD RECIPIENTS

In 2005, a number of changes were made to make somewhat easier the process of applying for the Young Investigator Award (YIA). The major changes were to separate the submission of abstracts from the submission of manuscripts and supplemental materials, and to change all submissions to electronic formats. This year, 29 applications were received (compared to 19 the year before). Of these, 8 were selected as semi-finalists and were sent for full peer review of manuscript. These manuscripts were reviewed by one member of the YIA sub-committee as well as 2 additional referees selected by the society's journal editors; Michael Smith and Leon Partain, for *MRM* and *JMRI*, respectively. After a rapid and thorough peer review, 4 finalists were selected to present their work at special oral sessions at the ISMRM meeting in Miami. These were decided during a teleconference in early January and were conveyed to the Program Committee, so that the YIA finalist presentations could be accommodated within the Scientific Program during the program construction meeting, which is typically the third week of January. The 2005 finalists were Esben T. Petersen and Oliver Bieri for the I.I. Rabi Award; Daniel Elgort and Erik Shapiro for the W.S. Moore Award. After the final of the four presentations, which were attended by most of the YIA sub-committee members, the sub-committee met to choose the "winners," although it must be clarified that all finalists received travel support and a cash prize.

Congratulations to Dr. Petersen of the National Neuroscience Institute in Singapore, who is the first YIA winner outside of the US and Europe, and to Dr. Elgort of Case Western Reserve University.

Manuscripts associated with YIA finalists must be "acceptable for publication" in either of the Society's journals. In the past, this has caused some problems, as some of the submitted manuscripts needed too much re-working to be valid candidates. The decision regarding suitability has previously not been decided until the final YIA sub-committee meeting that occurs in early January. In order to reduce this problem and to streamline the application process, changes to the applications procedures have been proposed and adopted. From now on, manuscripts in support of the YIA award will be submitted directly to the offices of either *MRM* or *JMRI*, for the Rabi or Moore Awards, respectively. Copies should also be sent to the central office for record keeping. The Journal editors will organize the reviews, and ensure that a member of the YIA sub-committee participates. Every effort will be made to review manuscripts in a timely fashion, and manuscripts submitted well in advance of the deadline may be eligible to be revised. For further information, see page 22 of this month's *MR Pulse* for the application procedures.

Finally, the YIA Committee tasks were, indeed, shared by my fellow members of the committee: Peter Boesiger, Ph.D., Thomas Mareci, Ph.D., Douglas C. Noll, Ph.D., Timothy P. L. Roberts, Ph.D., Michael B. Smith, Ph.D., Daniel K. Sodickson, Ph.D., June S. Taylor, Ph.D., and Mark van Buchem, M.D., Ph.D. They were all helpful and knowledgeable, and deserve many thanks from the Society.

—Robert J. Gillies  
Chair, 2005 Young Investigator Awards Committee



Daniel Elgort Esben T. Petersen

## 2005 POSTER AWARD WINNERS

### Body/Cardiac Imaging

#### 1ST PLACE ..... Program No. 1906

##### **Does Digital Subtraction Aid in MRI Differentiation of Renal Cell Carcinoma from Complex Cysts? Comparison of Dynamic Gadolinium Enhancement, Digital Subtraction, and Enhancement Threshold Methods**

Patrick T. Liu<sup>1</sup>, Clinton V. Wellnitz<sup>1</sup>, Alvin C. Silva<sup>1</sup>, Amy K. Hara<sup>1</sup>

<sup>1</sup>Mayo Clinic Scottsdale, Scottsdale, Arizona, USA

#### 2ND PLACE ..... Program No. 1804

##### **Hyperpolarized <sup>3</sup>He Diffusion MRI of Acinar Airways in Canines with Induced Emphysema: Comparison with Computed Tomography**

Tariq S.K. Tanoli<sup>1</sup>, Jason C. Woods<sup>1</sup>, Kyongtae Ty Bae<sup>1</sup>, Mark S. Conradi<sup>1</sup>, James C. Hogg<sup>2</sup>, Joel D. Cooper<sup>1</sup>, Dmitry A. Yablonskiy<sup>1</sup>

<sup>1</sup>Washington University, St Louis, Missouri, USA; <sup>2</sup>The UBC McDonald Research Laboratory, St Pauls Hospital, Vancouver, British Columbia, Canada

#### 3RD PLACE ..... Program No. 1936

##### **The Assessment of the Vascularity of Uterine Leiomyomas Using Double-Echo Dynamic Perfusion MRI: Correlation with Histopathology**

Nobuyuki Kosaka<sup>1</sup>, Hidemasa Uematsu<sup>1</sup>, Hirohiko Kimura<sup>1</sup>, Yoshiyuki Ishimori<sup>2</sup>, Tetuji Kurokawa<sup>1</sup>, Harumi Itoh<sup>1</sup>

<sup>1</sup>University of Fukui, Fukui, Japan; <sup>2</sup>University of Fukui Hospital, Fukui, Japan

#### HONORABLE MENTION ..... Program No. 1672

##### **Blood Pool Gadolinium-Chelate (Vistarem) Discriminates Acute from Chronic Myocardial Infarcts**

Maythem Saeed<sup>1</sup>, Oliver Weber<sup>1</sup>, Alastair Martin<sup>1,2</sup>, Loi Do<sup>1</sup>, Philippe Robert<sup>3</sup>, Claire Corot<sup>3</sup>, Charles B. Higgins<sup>1</sup>

<sup>1</sup>University of California San Francisco, San Francisco, California, USA; <sup>2</sup>Philips Medical Systems, Best, Netherlands; <sup>3</sup>Guerbet Group, Paris, France

#### HONORABLE MENTION ..... Program No. 1969

##### **Whole-Body MRI Vs. Whole-Body PET/CT in Staging of Newly Diagnosed Malignant Melanoma: Initial Results**

Florian M. Vogt<sup>1</sup>, Patrick Veit<sup>1</sup>, Sandra Massing<sup>1</sup>, Lutz Freudenberg<sup>1</sup>, Robert Jablonka<sup>1</sup>, Jörg Barkhausen<sup>1</sup>, Gerald Antoch<sup>1</sup>

<sup>1</sup>University Hospital, Essen, Germany

#### HONORABLE MENTION ..... Program No. 1993

##### **Long-Term Endurance Running Is Associated with Elevated T<sub>2</sub> of Superficial Femoral Cartilage**

Timothy John Mosher<sup>1</sup>, Yi Liu<sup>1</sup>, Michael B. Smith<sup>1</sup>

<sup>1</sup>Penn State University College of Medicine, Hershey, Pennsylvania, USA

#### HONORABLE MENTION ..... Program No. 2029

##### **Water Movement in Rabbit Achilles Tendon in Response to Repeated Static Tensile Loads Using One-Dimensional Magnetic Resonance Imaging**

Karl G. Helmer<sup>1</sup>, Govind Nair<sup>2</sup>, Marco Cannella<sup>2</sup>, Peter Grigg<sup>2</sup>

<sup>1</sup>Worcester Polytechnic Institute, Worcester, Massachusetts, USA;

<sup>2</sup>UMass/Memorial Healthcare, Worcester, Massachusetts, USA



## Engineering

### 1ST PLACE ..... Program No. 895

#### A Novel Concept for Gradient Coil and Magnet Integration

Oliver Heid<sup>1</sup>, Markus Vester<sup>1</sup>, Paul Beasley<sup>2</sup>

<sup>1</sup>Siemens Medical Solutions, Erlangen, Bavaria, Germany;

<sup>2</sup>Siemens Medical Solutions, Eynsham, UK

### 2ND PLACE ..... Program No. 917

#### Transmit Surface Coil Array Using RF Current Sources

Hyokwon Nam<sup>1</sup>, Steven M. Wright<sup>1</sup>

<sup>1</sup>Texas A&M University, College Station, Texas, USA

### 3RD PLACE ..... Program No. 860

#### A High Performance Multi-Channel RF Receiver for Magnet Resonance Imaging Systems

Jan Bollenbeck<sup>1</sup>, Markus Vester<sup>1</sup>, Ralph Oppelt<sup>2</sup>, Horst Kroeckel<sup>1</sup>, Wilfried Schnell<sup>1</sup>

<sup>1</sup>Siemens Medical Solutions, Erlangen, Germany; <sup>2</sup>Siemens Corporate Technology, Erlangen, Germany

### HONORABLE MENTION ..... Program No. 876

#### Electromagnetic Fields and SAR Computations in a Human Head with a Multi-Port Driven RF Coil at 11.7 Tesla

Xavier Hanus<sup>1</sup>, Michel Luong<sup>1</sup>, Franck Lethimonnier<sup>2</sup>

<sup>1</sup>CEA, Saclay, France; <sup>2</sup>CEA, Orsay, France

### HONORABLE MENTION ..... Program No. 943

#### Comparison of Microstrips and Surface Coils at 11T as Building Blocks for Phased Array Surface Coils

Barbara Beck<sup>1</sup>, Kelly Jenkins<sup>1</sup>, Jeffrey Fitzsimmons<sup>1</sup>

<sup>1</sup>University of Florida, Gainesville, Florida, USA

### HONORABLE MENTION ..... Program No. 948

#### A New Helmet Coil Concept Using Strip Lines

Wolfgang Driesel<sup>1</sup>, Thoralf Mildner<sup>1</sup>, Harald Möller<sup>1</sup>

<sup>1</sup>Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

### HONORABLE MENTION ..... Program No. 2373

#### Improved Twisted Projection Imaging with Low Gradient Slew-Rates

Ronald Ouwerkerk<sup>1</sup>, Paul A. Bottomley<sup>1</sup>

<sup>1</sup>Johns Hopkins University, School of Medicine, Baltimore, Maryland, USA

### HONORABLE MENTION ..... Program No. 2653

#### Cylindrical Meanderline Intravascular MR Coils

Christian T. Farrar<sup>1</sup>, Van J. Wedeen<sup>1</sup>, Jerome L. Ackerman<sup>1</sup>, Mathew Varghese<sup>2</sup>, A. Jay Bruso<sup>2</sup>, Jeffrey T. Borenstein<sup>2</sup>

<sup>1</sup>Massachusetts General Hospital, Charlestown, Massachusetts, USA;

<sup>2</sup>The Charles Stark Draper Laboratory, Cambridge, Massachusetts, USA

## Frontier Technology

### HONORABLE MENTION ..... Program No. 2544

#### Resonator with Improved Temperature Stability and Capability of Fast Frequency Tuning for Proton Electron Double Resonance Imaging and Spectroscopy

Sergey Petryakov<sup>1</sup>, Alexandre Samouilov<sup>1</sup>, Haihong Li<sup>1</sup>, Periannan Kuppusamy<sup>1</sup>, Jay L. Zweier<sup>1</sup>

<sup>1</sup>Ohio State University, Columbus, Ohio, USA

### HONORABLE MENTION ..... Program No. 2564

#### Triple Quantum T<sub>2</sub> Measurements

Costin Tanase<sup>1</sup>, George Laverde<sup>1</sup>, Fernando E. Boada<sup>1</sup>

<sup>1</sup>University of Pittsburgh, Pittsburgh, Pennsylvania, USA

### HONORABLE MENTION ..... Program No. 2566

#### Comparison of Cartesian and Radial <sup>23</sup>Na MRI for Visualization of Intracellular Sodium Accumulation in Patients with a Muscular <sup>23</sup>Na Channelopathy

Sonia Nilles-Vallespin<sup>1</sup>, Marc-Andre Weber<sup>1</sup>, Hagen Huttner<sup>2</sup>, Achim Bankamp<sup>1</sup>, Michael Bock<sup>1</sup>, Johannes Woehrle<sup>3</sup>, Hans-Michael Meinck<sup>2</sup>, Lothar Rudi Schad<sup>1</sup>

<sup>1</sup>German Cancer Research Centre, Heidelberg, Germany; <sup>2</sup>University Hospital Heidelberg, Heidelberg, Germany; <sup>3</sup>University Hospital Mannheim, Mannheim, Germany

### HONORABLE MENTION ..... Program No. 2614

#### Investigation of Angiogenesis After Cell Therapy of Embolic Stroke in Rat Using MRI

Quan Jiang<sup>1,2</sup>, ZhengGang Zhang<sup>1,2</sup>, GuangLiang Ding<sup>1</sup>, Li Zhang<sup>1</sup>, Lian Li<sup>1</sup>, RuiLan Zhang<sup>1</sup>, Lei Wang<sup>1</sup>, He Meng<sup>1</sup>, James R. Ewing<sup>1,2</sup>, Jiani Hu<sup>2</sup>, Ali S. Arbab<sup>1</sup>, QingJiang Li<sup>1</sup>, Robert A. Knight<sup>1,2</sup>, Michael Chopp<sup>1,2</sup>

<sup>1</sup>Henry Ford Health System, Detroit, Michigan, USA; <sup>2</sup>Wayne State University, Detroit, Michigan, USA

### HONORABLE MENTION ..... Program No. 2545

#### 3-D Progressive EPR Imaging with Adaptive Projection Acquisition

Yuanmu Deng<sup>1</sup>, Periannan Kuppusamy<sup>1</sup>, Jay L. Zweier<sup>1</sup>

<sup>1</sup>The Ohio State University, Columbus, Ohio, USA

## MR Spectroscopy

### 1ST PLACE ..... Program No. 2129

#### Hypoxia Increases Cellular Phosphocholine and Total Choline Levels in Human Prostate Cancer Cells

Kristine Glunde<sup>1</sup>, Venu Raman<sup>1</sup>, Meiyappan Solaiyappan<sup>1</sup>, Arvind P. Pathak<sup>1</sup>, Dmitri Artemov<sup>1</sup>, Zaver M. Bhujwala<sup>1</sup>

<sup>1</sup>Johns Hopkins University School of Medicine, Baltimore, Maryland, USA

### 2ND PLACE ..... Program No. 2091

#### 3D MRSI of Brain Tumors at 3 Tesla Using an 8 Channel Phased Array Head Coil

Joseph Anthony Osorio<sup>1</sup>, Esin Ozturk<sup>1</sup>, Soonmee Cha<sup>1</sup>, Susan Chang<sup>1</sup>, Mitchel S. Berger<sup>1</sup>, Daniel B. Vigneron<sup>1</sup>, Sarah J. Nelson<sup>1</sup>

<sup>1</sup>University of California, San Francisco, California, USA

### 3RD PLACE ..... Program No. 2464

#### Time Domain Analysis of SSFP Based Proton SI Data Using the Matrix Pencil Method

Matthias Althaus<sup>1</sup>, Wolfgang Dreher<sup>1</sup>, Christian Geppert<sup>1</sup>, Dieter Leibfritz<sup>1</sup>

<sup>1</sup>Universität Bremen, Bremen, Germany

### HONORABLE MENTION ..... Program No. 2040

#### A Metabolomic Study of Wild Type and HIF-1 $\alpha$ Deficient Astrocytomas Measured by *in Vivo* and *in Vitro* <sup>1</sup>H MRS

Helen Troy<sup>1</sup>, Yuen-Li Chung<sup>1</sup>, Basetti Madhu<sup>1</sup>, Manuel Mayr<sup>1</sup>, Lucy Ly<sup>1</sup>, Barbara Blouw<sup>2</sup>, Randall Johnson<sup>2</sup>, John R. Griffiths<sup>1</sup>, Marion Stubbs<sup>1</sup>

<sup>1</sup>St George's Hospital Medical School, Tooting, London, UK;

<sup>2</sup>University of California, San Diego, California, USA

### HONORABLE MENTION ..... Program No. 2080

#### Pattern of Recurrence Analysis Following 3D Conformal Radiation Therapy with Respect to Pre-RT MR Spectroscopic Findings

Ilwoo Park<sup>1</sup>, Gregory Tamai<sup>1</sup>, Michael C. Lee<sup>1</sup>, Soonmee Cha<sup>1</sup>, Susan M. Chang<sup>1</sup>, Mitchel S. Berger<sup>1</sup>, Sarah J. Nelson<sup>1</sup>, Andrea Pirzkall<sup>1</sup>

<sup>1</sup>University of California, San Francisco, San Francisco, California, USA

**HONORABLE MENTION ..... Program No. 2089**

**Evidence for Need of Incorporation of MRSI Data in Radiation Treatment Planning of Brain Gliomas**

Sunitha Thakur<sup>1</sup>, Ashwatha Narayana<sup>1</sup>, Jenghwa Chang<sup>1</sup>, Sasan Karimi<sup>1</sup>, Gerard Perera<sup>1</sup>, Jason Koutcher<sup>1</sup>, Wei Huang<sup>1</sup>

<sup>1</sup>Memorial Sloan-Kettering Cancer Center, New York, New York, USA

**HONORABLE MENTION ..... Program No. 2467**

**A Fast Spectral Simulator for *in Vivo* Brain MRS**

Tiejun Zhao<sup>1</sup>, Danli Wang<sup>1</sup>, Haskell W. Beckham<sup>2</sup>, Xiaoping Hu<sup>1</sup>

<sup>1</sup>Emory University/Georgia Tech, Atlanta, Georgia, USA;

<sup>2</sup>Georgia Institute of Technology, Atlanta, Georgia, USA

**HONORABLE MENTION ..... Program No. 2481**

**Alanine Transport, Metabolism and Cycling in the Brain**

Caroline Rae<sup>1</sup>, Jonas T. Hansen<sup>1</sup>, William A. Bubb<sup>1</sup>, Stefan Bröer<sup>2</sup>, Angelika Bröer<sup>2</sup>

<sup>1</sup>The University of Sydney, Sydney, Australia; <sup>2</sup>The Australian National University, Canberra, Australia

**HONORABLE MENTION ..... Program No. 2489**

**<sup>1</sup>H NMR Spectroscopy Identifies Differences in Choline Metabolism Related to the MYCN Oncogene in Neuroblastoma**

Andrew Charles Peet<sup>1</sup>, Martin Wilson<sup>1</sup>, Barry Levine<sup>1</sup>, Carmel McConville<sup>1</sup>, Richard Grundy<sup>1</sup>

<sup>1</sup>University of Birmingham, Birmingham, UK

**HONORABLE MENTION ..... Program No. 2571**

**Long-Lasting <sup>1</sup>H-Hyperpolarization in Molecules**

Joachim Bargon<sup>1,2</sup>, Thorsten Jonischkeit<sup>1</sup>, Rahim R. Rizi<sup>2</sup>, Klaus Woelk<sup>1,3</sup>

<sup>1</sup>University of Bonn, Bonn, Germany; <sup>2</sup>University of Pennsylvania, Philadelphia, Pennsylvania, USA; <sup>3</sup>University of Missouri-Rolla, Rolla, Missouri, USA

**Neuro Imaging**

**1ST PLACE ..... Program No. 1033**

**Magnetic Resonance Imaging of Anatomical Tissue and Vascular Layers in the Cat Retina**

Qiang Shen<sup>1</sup>, Haiying Cheng<sup>1</sup>, Thomas Chang<sup>2</sup>, Govind Nair<sup>1</sup>, Ross Shonat<sup>3</sup>, Timothy Q. Duong<sup>1</sup>

<sup>1</sup>Emory University, Atlanta, Georgia, USA; <sup>2</sup>University of Massachusetts Medical School, Worcester, Massachusetts, USA; <sup>3</sup>Worcester Polytechnic Institute, Worcester, Massachusetts, USA

**2ND PLACE ..... Program No. 1414**

**Concurrent fMRI Measurements with Optical Imaging Spectroscopy and Laser Doppler Flowmetry Measurements**

Aneurin James Kennerley<sup>1</sup>, Jason Berwick<sup>1</sup>, John Martindale<sup>1</sup>, David Johnston<sup>1</sup>, Nikos Papadakis<sup>1</sup>, John Mayhew<sup>1</sup>

<sup>1</sup>University of Sheffield, Sheffield, South Yorkshire, UK

**3RD PLACE ..... Program No. 2333**

**Method for Susceptibility Calculation in Multiple Source Object Distribution with Arbitrary Susceptibilities: A Preliminary Report**

Jaladhar Neelavalli<sup>1</sup>, Yu-Chung Norman Cheng<sup>1</sup>, Mark Ewart Haacke<sup>1,2</sup>

<sup>1</sup>Wayne State University, Detroit, Michigan, USA; <sup>2</sup>The MRI Institute for Biomedical Research, Detroit, Michigan, USA

**HONORABLE MENTION ..... Program No. 1064**

**Diffusion Spectrum Tractography in Patients with Brain Tumors**

Li-Wei Kuo<sup>1</sup>, Van J. Wedeen<sup>2</sup>, Jun-Cheng Weng<sup>1</sup>, Timothy G. Reese<sup>2</sup>, Jyh-Horng Chen<sup>1</sup>, Wen-Yih Isaac Tseng<sup>3</sup>

<sup>1</sup>National Taiwan University, Taipei, Taiwan; <sup>2</sup>Harvard Medical School, Charlestown, Massachusetts, USA; <sup>3</sup>National Taiwan University College of Medicine, Taipei, Taiwan

**HONORABLE MENTION ..... Program No. 1074**

**3D Ultrashort Echo-Time Imaging of the Head**

Jürgen Rahmer<sup>1</sup>, Peter Börner<sup>1</sup>, Holger Eggers<sup>1</sup>

<sup>1</sup>Philips Research, Hamburg, Germany

**HONORABLE MENTION ..... Program No. 1113**

**Hemispheric Brain Perfusion and Atherosclerotic Lesion Burden in Patients Undergoing Carotid Endarterectomy**

Catherine E. Jones<sup>1</sup>, Ronald L. Wolf<sup>1</sup>, Hee Kwon Song<sup>1</sup>, Bipul Das<sup>1</sup>, Emile R. Mohler<sup>1</sup>, John A. Detre<sup>1</sup>, Jiongiong Wang<sup>1</sup>, Lisa Desiderio<sup>1</sup>, Alexander C. Wright<sup>1</sup>, Yan Zhang<sup>1</sup>, Felix Wehrli<sup>1</sup>

<sup>1</sup>University of Pennsylvania, Philadelphia, Pennsylvania, USA; <sup>2</sup>National Institute of Mental Health, Bethesda, Maryland, USA

**HONORABLE MENTION ..... Program No. 1167**

**Assessment of Brain Tissue Changes in the Normal Elderly: Insights from Global and Regional MTR Analysis**

Stefan Ropele<sup>1</sup>, Christian Enzinger<sup>1</sup>, Faton Gorani<sup>1</sup>, Alexandra Seewann<sup>1</sup>, Reinhold Schmidt<sup>1</sup>, Franz Fazekas<sup>1</sup>

<sup>1</sup>Medical University Graz, Graz, Austria

**HONORABLE MENTION ..... Program No. 1177**

**Identifying Regional Patterns of Concordance and Dissociation Between Gray Matter Loss and Hypoperfusion Among Alzheimer's Disease Patients**

Satoru Hayasaka<sup>1,2</sup>, Norbert Schuff<sup>1,2</sup>, John Kornak<sup>1,2</sup>, Colin Studholme<sup>1,2</sup>, Valerie Cardenas<sup>1,2</sup>, An-Tao Du<sup>1,2</sup>, Audrey Duarte<sup>1,2</sup>, Geon-Ho Jahng<sup>1,2</sup>, Michael Weiner<sup>1,2</sup>

<sup>1</sup>University of California San Francisco, San Francisco, California, USA;

<sup>2</sup>VA Medical Center, San Francisco, California, USA

**HONORABLE MENTION ..... Program No. 1178**

**Quantifying T<sub>1ρ</sub> in Alzheimer's Disease**

Ari Borthakur<sup>1</sup>, Gul Moonis<sup>1</sup>, Andrew J. Wheaton<sup>1</sup>, Elias R. Melhem<sup>1</sup>, Christopher M. Clark<sup>1</sup>, Ravinder Reddy<sup>1</sup>

<sup>1</sup>University of Pennsylvania, Philadelphia, Pennsylvania, USA

**HONORABLE MENTION ..... Program No. 1190**

**Proton MR Spectroscopy at 3 Tesla in Brain of Lithium-Treated Euthymic Bipolar Patients: Increased Glutamate Concentration in the Left Hippocampus**

Florian Schubert<sup>1</sup>, Michael Colla<sup>2</sup>, Frank Seifert<sup>1</sup>, Manja Bubner<sup>2</sup>, Isabella Heuser<sup>2</sup>

<sup>1</sup>Physikalisch-Technische Bundesanstalt, Berlin, Germany;

<sup>2</sup>Charite University Medicine, Berlin, Germany

**HONORABLE MENTION ..... Program No. 1191**

**Altered Levels of GABA and Glutamate in Patients with Depression Detected with MEGA-PRESS Editing and LCM Analysis**

Marzena Malgorzata Wylezinska<sup>1</sup>, Christopher John Evans<sup>1</sup>, Zubin Bhagwagar<sup>1</sup>, Fiona Ashworth<sup>1</sup>, Peter Jezzard<sup>1</sup>, Paul M. Matthews<sup>1</sup>, Phil J. Cowen<sup>1</sup>

<sup>1</sup>University of Oxford, Oxford, UK

**HONORABLE MENTION ..... Program No. 1352**

**Diffusion Tensor MRI and Cognitive Function in Normal Ageing**

Susan D. Shenkin<sup>1</sup>, Mark E. Bastin<sup>1</sup>, Tom J. MacGillivray<sup>1</sup>, Ian J. Deary<sup>1</sup>, John M. Starr<sup>1</sup>, Joanna M. Wardlaw<sup>1</sup>

<sup>1</sup>University of Edinburgh, Edinburgh, Lothian, UK

**HONORABLE MENTION ..... Program No. 1354**

**Cerebellar and Frontal Lobe Involvement in ALS as Determined by MR DTI**

Aziz M. Ulug<sup>1</sup>, Richard Watts<sup>2</sup>, Arthur P. Hays<sup>3</sup>, Hiroshi Mitsumoto<sup>3</sup>

<sup>1</sup>Weill Medical College of Cornell University, New York, New York, USA;

<sup>2</sup>University of Canterbury, Christchurch, New Zealand; <sup>3</sup>College of Surgeons and Physicians, Columbia University, New York, New York, USA



**HONORABLE MENTION ..... Program No. 1401**

**fMRI of Anesthetic-Specific Changes in CBF, BOLD and CMRO<sub>2</sub>**

Kenneth M. Sicard<sup>1</sup>, Nils Henninger<sup>1</sup>, Karl F. Schmidt<sup>1</sup>,

Timothy Q. Duong<sup>2</sup>

<sup>1</sup>University of Massachusetts Medical School, Worcester, Massachusetts, USA;

<sup>2</sup>Emory University, Atlanta, Georgia, USA

**HONORABLE MENTION ..... Program No. 1410**

**Determination of Intracortical Venous Vessel Density Using Venography at 9.4T**

Sung-Hong Park<sup>1</sup>, Toshihiro Hayashi<sup>1</sup>, Seong-Gi Kim<sup>1</sup>

<sup>1</sup>University of Pittsburgh, Pittsburgh, Pennsylvania, USA

**HONORABLE MENTION ..... Program No. 1413**

**Assessment of Cerebrovascular Reactivity During Breath Holding by Dynamic CBV-Based MRI: Comparison with BOLD-Based MRI**

Ho-Ling Liu<sup>1,2</sup>, Yuan-Yu Hsu<sup>3</sup>, Ju-Chuan Huang<sup>2</sup>, Wan-Chun Kwan<sup>2</sup>,

Chang-Wei Wu<sup>2</sup>, Srikanth Mahankali<sup>4</sup>

<sup>1</sup>Chang Gung University, Taoyuan, Taiwan; <sup>2</sup>Chang Gung Memorial Hospital,

Taoyuan, Taiwan; <sup>3</sup>Buddhist Tzu Chi General Hospital - Taipei, Taipei, Taiwan;

<sup>4</sup>University of Texas MD Anderson Cancer Center, Houston, Texas, USA

**HONORABLE MENTION ..... Program No. 1525**

**Assessment of Three Head Restraint Methods for fMRI:**

**Foam Pillow, Vacuum Mold and Foam Mold**

Lee Friedman<sup>1</sup>, Rio Udell<sup>1</sup>, Diana Krenz<sup>1</sup>, T MIND Consortium<sup>1</sup>

<sup>1</sup>The MIND Institute, Albuquerque, New Mexico, USA

**HONORABLE MENTION ..... Program No. 1534**

**Fast Direct Image Reconstruction for MRI and fMRI in the Presence**

**of Field Inhomogeneities and T<sub>2</sub>\* Decay**

Roman Fleysher<sup>1</sup>, Lazar Fleysher<sup>1</sup>, Souheil Inati<sup>1</sup>

<sup>1</sup>New York University, New York, New York, USA

**HONORABLE MENTION ..... Program No. 1546**

**FAT Navigators for Functional MRI: Is There Sufficient Amount of Fat Signal in the Human Head for Accurate Motion Detection with Fat Navigator Echoes?**

Narter Ari<sup>1</sup>, Robert A. Kraft<sup>2</sup>

<sup>1</sup>GE Healthcare, Waukesha, Wisconsin, USA; <sup>2</sup>Wake Forest University,

Winston-Salem, North Carolina, USA

**HONORABLE MENTION ..... Program No. 1585**

**Study of Structured Noise Stationarity in fMRI Using Independent Component Analysis**

Gregory H. Turner<sup>1</sup>, Donald B. Twieg<sup>2</sup>

<sup>1</sup>Vanderbilt University, Nashville, Tennessee, USA;

<sup>2</sup>University of Alabama at Birmingham, Birmingham, Alabama, USA

**HONORABLE MENTION ..... Program No. 1589**

**Semi-Blind ICA of fMRI: A Method for Utilizing Hypothesis-Derived Time Courses in a Spatial ICA Analysis**

Vince D. Calhoun<sup>1,2</sup>, Tulay Adali<sup>3</sup>, James J. Pekar<sup>4,5</sup>, Kent A. Kieh<sup>1,2</sup>

<sup>1</sup>Olin Neuropsychiatry Research Center, Institute of Living, Hartford,

Connecticut, USA; <sup>2</sup>Yale University, New Haven, Connecticut, USA; <sup>3</sup>University of

Maryland Baltimore County, Baltimore, Maryland, USA; <sup>4</sup>FM Kirby Research Center

for Functional Brain Imaging, Kennedy Krieger Institute, Baltimore, Maryland,

USA; <sup>5</sup>Johns Hopkins University, Baltimore, Maryland, USA

**HONORABLE MENTION ..... Program No. 2064**

**An Alternative Approach for Estimation of Vascular Permeability to Gd-DTPA and Cerebral Blood Volume from Dynamic T<sub>2</sub>\* Weighted Contrast-Enhanced MRI**

Yue Cao<sup>1</sup>, Zhou Shen<sup>1</sup>, Thomas L. Chenevert<sup>1</sup>, James R. Ewing<sup>2</sup>

<sup>1</sup>University of Michigan, Ann Arbor, Michigan, USA; <sup>2</sup>Henry Ford Health Systems,

Detroit, Michigan, USA

**HONORABLE MENTION ..... Program No. 2334**

**Normalization of Diffusion Tensor Images Using Parameters from Normalizing Scalar Anatomical Images**

Tzu-Cheng Chao<sup>1,2</sup>, Ming-Chung Chou<sup>1</sup>, Hsiao-Wen Chung<sup>1</sup>,

Cheng-Wen Ko<sup>3</sup>, Ming-Ting Wu<sup>2</sup>

<sup>1</sup>National Taiwan University, Taipei, Taiwan; <sup>2</sup>Kaohsiung Veterans General

Hospital, Kaohsiung, Taiwan; <sup>3</sup>National Sun Yat-Sen University, Kaohsiung,

Taiwan

**Pulse Sequences**

**1ST PLACE ..... Program No. 2387**

**Wideband SSFP: SSFP with Imaging Bandwidth Greater Than 1/TR**

Krishna S. Nayak<sup>1</sup>, Bob Hu<sup>2</sup>, Brian A. Hargreaves<sup>3</sup>

<sup>1</sup>University of Southern California, Los Angeles, California, USA; <sup>2</sup>Palo Alto

Medical Foundation, Palo Alto, California, USA; <sup>3</sup>Stanford University, Stanford,

California, USA

**2ND PLACE ..... Program No. 2344**

**Equivalent T<sub>2</sub>-Contrast for Fast Spin Echo Sequences with Low and Variable Flip Refocusing**

Reed F. Busse<sup>1</sup>

<sup>1</sup>GE Healthcare, Menlo Park, California, USA

**3RD PLACE ..... Program No. 2345**

**Designing Long-T<sub>2</sub> and Combination Long-T<sub>2</sub>/Fat Suppression Pulses for Ultra-Short Echo Time (UTE) Imaging**

Peder Eric Zufall Larson<sup>1</sup>, Dwight George Nishimura<sup>1</sup>, John M. Pauly<sup>1</sup>

<sup>1</sup>Stanford University, Stanford, California, USA

**HONORABLE MENTION ..... Program No. 2134**

**Are Multiple Phase References Needed for Phase Correction in Proton Resonance Frequency Shift Thermometry?**

Anthony W. Kam<sup>1</sup>, Honghui Wang<sup>1</sup>, David Thomasson<sup>1</sup>, Gregory Metzger<sup>2</sup>, King Li<sup>1</sup>

<sup>1</sup>National Institutes of Health, Bethesda, Maryland, USA; <sup>2</sup>Philips Medical

Systems, Cleveland, Ohio, USA

**HONORABLE MENTION ..... Program No. 2388**

**Detecting Microcirculatory Oxygen Saturation Changes with 2D-Balanced Steady-State Free Precession Imaging**

Rohan Dharmakumar<sup>1</sup>, Xiuling Qi<sup>1</sup>, Juimiin Hong<sup>1</sup>, Graham A. Wright<sup>1</sup>

<sup>1</sup>Sunnybrook & Women's College Health Sciences Centre, University of Toronto,

Toronto, Ontario, Canada

## 2005 STIPEND PROGRAMS

The Society funded 579 participants to attend the 13th Scientific Meeting in Miami Beach. Their names and countries from which they come are listed below.

### EDUCATIONAL STIPENDS

Mark Albers, USA  
Jamu Alford, Canada  
Mathieu Allard, Canada  
Matthias Althaus, Germany  
Vardan Amirbekian, USA  
Weimin An, China  
Leonardo Angelone, USA  
Claudia Arellano, Chile  
Sunny Arkani-Hamed, USA  
Johannes Arnold, Germany  
Romina Aron Badin, England, UK  
Arjun Arunachalam, USA  
Subramanian Arunachalam, India  
Meida Bagdonaite, Lithuania  
Tanvir Baig, USA  
Heather Baltzer, Canada  
Tomasz Banasik, Poland  
Thomas Barrick, England, UK  
Robert Barry, Canada  
Adil Bashir, USA  
Ayush Batra, USA  
Philip Beatty, USA  
Yashar Behzadi, USA  
Mounia Belouche, England, UK  
Marina Benito-Vicente, Spain  
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Kristoffer Madsen, Sweden  
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 Esin Ozturk, USA  
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 Haidong, Peng, Canada

Hao Peng, Canada  
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 Lin Zhao, USA  
 Xia Zhao, USA  
 Tiejun Zhao, USA  
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 Michael Kelm, Germany  
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 Hana Hubalkova, Czech Republic  
 Magdalena Hyjek, Poland  
 N. Jagannathan, India  
 Andrzej Jasinski, Poland  
 Daniel Jiráček, Czech Republic  
 Geng Li, China  
 Igor Linetskiy, Czech Republic  
 Xin Liu, China  
 Xin Lou, China  
 Lin Ma, China  
 Semion Marga, Republic of Moldova  
 Jasna Mihailovic, Serbia and Montenegro  
 Roberto Mir, Chile  
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 Jana Starcukova, Czech Republic  
 Huali Wang, China  
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## NEW BOARD MEMBER BIOS

### VICE PRESIDENT

**Jeffrey L. Duerk, Ph.D.** is Professor of Radiology, Engineering, and Oncology at Case Western Reserve University. He received his Ph.D. in Biomedical Engineering from Case Western Reserve University in 1987. From 1986-1988 he was a member of the Clinical Science group of Picker International's NMR Division (now Philips Medical Systems). Thereafter, he joined the faculty of Case Western Reserve University at MetroHealth Medical Center. In 1994 he moved to the main Case Campus and University Hospitals of Cleveland's Departments of Radiology and Biomedical Engineering where today he is also the Vice-Chair for Basic Science Research and Director of the Case Center for Imaging Research. Dr. Duerk is an author of over 120 peer-reviewed journal articles, over 250 conference proceedings, numerous chapters and been a recipient or collaborator on numerous NIH (and similar agency) grants. Dr. Duerk is an advocate of multidisciplinary research and has spent the last 18 years working with fellow scientists, radiologists, and students to develop new MRI techniques which facilitate immediate clinical utilization to improve patient care. His work has a strong emphasis in interventional MRI, rapid MRI, pulse sequence development, and analysis and compensation of the effects of motion in MRI. He has had extensive involvement in the ISMRM, including Fellow of the Society: 1993; Executive Committee: 1999-04 (Treasurer 1999-2002); Board of Trustees: 1993-96, 1999-2005; Scientific Program Committee: 2001-05 (Chairman 2004 (Kyoto); Abstract Reviewer: 1996-2005; Regional Organizing Committee: 2002-2004; Young Investigator Awards Committee: 1998-99; Education Committee: 1994-95, 2003-04 (Chairman 1994 Dallas); *Magnetic Resonance in Medicine*, Editorial Board: 2001-2005 (and reviewer since 1991); JMRI Editorial Board: 1992-2005 (and reviewer since 1992); *Journal of Magnetic Resonance Imaging* Editor Search Committee: 2000; Finance Committee: 1999-2004; Subcommittee on Financial Support and Corporate Members Advisory Council: 1999-2005; Audit Committee: 2005 (Chair); Ad Hoc Subcommittee on ACCME Accreditation: 1994-1996 (Chairman); Ad Hoc Committee on ACCME Re-accreditation: 2001-02 (Chairman); Meetings Coordination Committee: 1995, 2002-05 (Chairman 2004-05); Ad Hoc Committee on Electronic Media: 2003-04; Ad Hoc Committee on MR Site and/or Scientist Accreditation: 1999-2001; Governance Committee: 1994; Study Group Review Committee: 1999-2000; Founding member Interventional Study Group: 1998 (Chairman: 1999); Affiliated Sections Committee: SMRT-1999-2002; SMRI Newsletter Editor: 1990-92; Publications Committee (SMRI): 1990-92. Dr. Duerk is proud of his role as Treasurer of the ISMRM and Chairman of the 2004 Scientific Program Committee responsible for organizing the scientifically and financially successful Kyoto meeting. Further, Dr. Duerk was Chairman of the Ad Hoc ACCME Committee, and under his leadership developed a cohesive continuing medical education (CME) policy, obtained provisional accreditation authority (in 1996) and successfully achieved self-accreditation status in 2002. Dr. Duerk believes the challenges facing the ISMRM involve cost-effectively managing a multi-service society to provide high quality scientific and educational programs in a forum which fosters productive physician/scientist dialogue to beneficially advance MRI throughout medicine, during a period of significant expansion of MR utilization in Asia and rapid technologic development of emerging applications. His goal is to ensure that the ISMRM remains the preeminent organization for basic and clinical MR scientists and becomes the recognized leader for physician MR education.



## BOARD OF TRUSTEES

**Alberto Bizzi, M.D.**, is a physician Board Certified in Neurology and Radiology. He is Associate Chief of Neuroradiology at the National Neurological Institute Carlo Besta in Milan, Italy. Alberto received his medical degree with honors at the University of Bologna in 1985. He began his work on MR imaging and spectroscopy and PET in the NMR Center at the National Institutes of Health (NIH) with Jeff Alger in 1988. His research focused on MR diffusion, perfusion, and spectroscopy in brain tumors, stroke, and neurodegenerative disease. He worked on human clinical studies and animal models as well. He was involved in the early studies using blood oxygenation contrast (functional) imaging with Bob Turner. From 1991 until 1997, Dr. Bizzi was at The Johns Hopkins University in Baltimore, where he trained in Radiology with Stanley Siegelmann and Neuroradiology with Nick Bryan. During those years he refined his skills as a diagnostician and a researcher. He worked on MR spectroscopy and MR diffusion with Peter Barker, Susumu Mori, and Peter van Zijl. Since his start-up at NIH, he has enjoyed working very closely with MR physicists and biochemists.

In 1997 Dr. Bizzi moved back to Italy to the Neurological Institute Carlo Besta where he has continued his work with clinical and research duties. He has established a MR spectroscopy and functional MR clinical program that includes pre-operative evaluation of patients with brain tumors and of children with metabolic disorders. These advanced MR methods are routinely used to diagnose diseases and follow disease response to therapies. Dr. Bizzi has always enjoyed the multi-disciplinary environment of MR research, and he believes that a close collaboration and effective communication between clinicians, physicists, and neuroscientists is essential in the wider context of the ISMRM. He believes strongly in the educational role of the Annual Meeting

and several other educational activities of the Society. He was one of the organizers of the ISMRM Perfusion Workshop held in Venice last spring. He served on the Scientific Programme Committee for the Miami meeting. He has published more than 40 peer-reviewed scientific papers, and a few book chapters. He is associate editor of *Radiology*.

**David A. Bluemke, M.D., Ph.D., Ms.B.**, earned his Ph.D. in Biophysics at the University of Chicago and attended medical school at the University of Chicago. His radiology residency and fellowship training were both at Johns Hopkins Hospital in the Department of Radiology. He is currently Director of Clinical MRI at the Johns Hopkins Hospital and Associate Professor of Radiology and Medicine at the Johns Hopkins University School of Medicine. His MRI research career began in oncologic imaging and more recently has focused on cardiovascular imaging. He is the principal investigator on six clinical imaging trials and has participated as principal investigator or co-investigator on 30 funded research trials. He is the principal investigator for the cardiovascular MRI in the Multi-Ethnic Study on Atherosclerosis (MESA) and for the U.S. ARVD multi-center trial. He has been involved with early clinical trials for MRI contrast agents, MRI coils, and molecular imaging. He has published more than 140 peer-reviewed scientific articles and 170 abstracts, authored 25 book chapters, given more than 170 invited lectures and has organized instructional courses sponsored by ISMRM, NASCI and Johns Hopkins. He is a member of the ISMRM Annual Meeting Program Committee and Associate Editor for Cardiac Imaging for the journal *Radiology*.

**Christiane K. Kuhl, M.D., Ph.D.**, received the M.D. in 1991 and the Ph.D. in 1993 from the University of Bonn. After a fellowship in breast imaging, she was appointed Assistant Professor of Radiology at the University of Bonn in 1999. She became an Associate

Professor and Head of the MRI Division in 2000, and was appointed a Full Professor of Radiology and Neuroradiology in 2004. Dr. Kuhl is a member of the RSNA, the Society of Breast Imaging, and the Deutsche Röntgen-gesellschaft in addition to the ISMRM and several other societies. She serves on the Editorial Boards of *European Radiology* and *RöFo* and is an Associate Editor of *Radiology* as well as serving as a reviewer for a number of journals including *Journal of Magnetic Resonance Imaging*. Dr. Kuhl has received many honors and awards, among them three Editor's Recognition Awards with Special Distinction from *Radiology* and the Holthusen-Ring award from the German Radiological Society.

**Debiao Li, Ph.D.**, received his Ph.D. in Biomedical Engineering from the University of Virginia in 1992. He was a research associate at Case Western Reserve University, Cleveland from 1992-1993. His first faculty appointment was as Assistant Professor at Mallinckrodt Institute of Radiology, Washington University, St. Louis, in 1993. Currently he is Professor of Radiology and Biomedical Engineering, Director of Cardiovascular MR Research, at the Department of Radiology, Northwestern University. He has continued to focus on the development and clinical application of fast 3D techniques for imaging the coronary arteries. He played an important role in the development of 3D imaging, navigator-echo based respiratory gating, contrast-enhanced imaging, and fast steady state free precession techniques for coronary MRA. He also made important contributions to the assessment of cardiac perfusion and myocardial oxygenation using the BOLD effect. Recent research interests also include MRI-guided endovascular interventions and arterial wall imaging. Dr. Li is an author of 80 papers, 9 book chapters, and 180 abstracts in national and international conferences, and has given 50 invited presentations worldwide. Dr. Li is active in education and training of

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graduate students and clinical fellows. Dr. Li is a member of ISMRM, RSNA, North American Society of Cardiac Imaging (NASCI), and a founding member of the Society for Cardiovascular MR (SCMR). He serves as a member of various committees in ISMRM, SCMR, MRA Workshop, and NASCI. He also serves on the AHA grant review panel and reviews articles for a number of journals and abstracts for RSNA, ISMRM, and SCMR annual meetings. Dr. Li strongly believes in the close collaboration among MR physicists, clinicians, and industry for solving important clinical problems and the importance of international scientific and educational exchanges for the global expansion of MR research and clinical applications.

**Klaas Nicolay, Ph.D.**, received his undergraduate degree in Biophysical Chemistry in 1979 from Groningen University, The Netherlands. In 1983 he graduated from Groningen University with a Ph.D. thesis on MR spectroscopy studies of the bio-energetics and metabolism of micro-organisms, mentored by Professor Robert Kaptein. He then moved as a post-doctoral fellow of the Netherlands Cancer Foundation to the Department of Biochemistry of Utrecht University, The Netherlands, where he performed multi-nuclear MR studies of doxorubicin-induced cardiotoxicity with Professor Ben de Kruijff. From 1984-1985 he conducted MR studies of *in vivo* rat heart at the Biocenter of the University of Basel, Switzerland, with Professor Jo Seelig. In 1986 he was awarded a Huygens fellowship from the Netherlands Organization for Scientific Research (NWO), which allowed him to establish an independent research group at Utrecht University. His research focused on the regulation of mitochondrial function in health and disease. In 1990 he was invited to become the scientific director of the Netherlands *in vivo* MR facility at Utrecht University, where his research

effort was dedicated to the development and application of magnetic resonance techniques for non-invasive studies of *in vivo* tissue structure, function, and metabolism. In that period his research concentrated on animal models of acute cerebral ischemia and excitotoxicity, and his team made vital contributions to the identification of the biophysical and biochemical factors that cause the early ischemia-induced changes in diffusion MR of the brain. In 1996 he was promoted to Associate Professor at the Utrecht University Medical School. In 1999 he became part-time Professor at the Department of Biomedical Engineering of Eindhoven University, The Netherlands, and combined this position with his appointment at Utrecht University until 2001, when he was invited to become full Professor in Biomedical MR at Eindhoven University. His current research interests are in quantitative molecular and cellular imaging in mouse models of cardiovascular disorders, with the use of targeted MR contrast agents, the three-dimensional mapping of fiber architecture in skeletal muscle and heart using diffusion tensor imaging, and the development and use of multi-nuclear MR spectroscopy techniques for elucidating the mechanisms underlying insulin resistance in type 2 diabetes. The ultimate goal is to tailor the above methodology for effective multi-parametric clinical diagnosis. He is a member of the editorial boards of *Magnetic Resonance in Medicine*, the *Journal of Magnetic Resonance Imaging*, and the *Journal of Cerebral Blood Flow and Metabolism*. Dr. Nicolay aims to contribute to the Society's activities to improve the interaction between basic scientists involved in technique development and scientists working in the clinical setting in order to allow an effective transfer of novel MR methodology to clinical diagnostics. He is also strongly interested in improving the interaction between researchers in

the fields of MR on the one hand and in biochemistry, molecular biology, pharmacology, and bio-informatics on the other hand in order to achieve the potential of MR in the exciting fields of molecular imaging and molecular diagnostics.

**Brian K. Rutt, Ph.D.**, received his B.Sc. and M.Sc. degrees in Electrical Engineering at the University of Toronto (1976) and Stanford University (1977), respectively, followed by a Ph.D. in Medical Biophysics at the University of Toronto (1982) and postdoctoral work at the University of California in San Francisco. Since 1986 he has been working at the London Health Sciences Centre and the Robarts Research Institute in London, Ontario. He is currently appointed as a Scientist at the Robarts Institute, Associate Scientist at the London Health Sciences Centre and Professor at the University of Western Ontario. At U.W.O. he is a member of the Departments of Diagnostic Radiology and Nuclear Medicine, Electrical and Computer Engineering, Mechanical Engineering, Physics and Astronomy, and Medical Biophysics. Dr. Rutt has served on peer-review grant panels for the Canadian Institutes of Health Research, the Heart and Stroke Foundation of Canada, the National Cancer Institute of Canada, and the National Institutes of Health in the United States. He currently sits on the Institute Advisory Board for the CIHR Institute for Circulatory and Respiratory Health. He is the holder of the Barnett-Ivey-Heart and Stroke Foundation Endowed Research Chair. Dr. Rutt is also the Director of the CIHR Group in Vascular Imaging. Dr. Rutt's research interests include MR hardware engineering, pulse sequence development, high-field MRI development, vascular MRI, cellular and molecular MRI, as well as multi-modality imaging of the vasculature and other organ systems.

## REPORT FROM THE TREASURER

The financial results for FY2004 are positive when compared to the budget. The Audited Financial Statements to 30 September 2004 show a solid financial position. Total Liabilities and Net Assets were US\$4,165,982. Total Liabilities amounted to US\$651,928 and Total Net Assets were US\$3,514,054. The ISMRM has designated US\$1,850,000 of its funds for operating emergencies, such as a failed or financially disastrous Annual Meeting. In addition, the ISMRM held US\$315,301 in a fund designated to support scientific and educational programs. The total funds available for operation of the Society were US\$1,323,223.

In FY 2004, total revenue and support to the ISMRM was US\$4,142,246; expenses were US\$4,202,182, resulting a change in net assets (loss) of US\$59,936. Membership fees brought in US\$928,877. Meeting and workshop registrations amounted to US\$1,324,815. Grants and contributions totaled US\$928,931. The revenue from exhibits was US\$365,326. The gains on investments were US\$154,299. Interest and dividends amounted to US\$75,335. Expenses for the annual meeting and workshops were US\$2,236,677 and US\$209,432, respectively.

In FY 2004, the ISMRM continued to rely heavily on corporate sponsors and benefited from substantial gains on investments in FY 2004 to reduce the gap in expenses and revenue.

For FY 2005, the ISMRM continues to show a solid financial position. Registration fees were greater than budgeted as a result of record attendance for the Annual Meeting and Educational Courses in Miami. Corporate memberships are projected to be US\$75,000 higher than budgeted. Siemens Medical Solutions and GE Healthcare moved to Gold Plus status increasing their membership payments to US\$150,000. Varian joined as a new Bronze Member. GE Healthcare, Philips Medical Systems, and Siemens Medical Solutions have agreed to contribute US \$25,000 each for international outreach. However, Expenses continue to exceed Revenues, the difference is mitigated in this fiscal year through gains on investments and corporate sponsorship. A more complete financial report on the outcome of the Annual Meeting and on FY 2005 in general will be available in the next issue of *MR Pulse*.

— Roxanne Deslauriers,  
ISMRM Treasurer

## ISMRM OFFICERS AND BOARD OF TRUSTEES

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A. Gregory Sorensen, M.D.  
Patrick Stroman, Ph.D. (*ex officio*)  
J. Thomas Vaughan, Ph.D.



2005-2006 ISMRM Officers and Board Members (front row l. to r.) Kim Butts, Roberta Kravitz, Executive Director, Cindy T. Hipps, SMRT President, Jane Tiemann, Executive Director, Roxanne Deslauriers, Martin R. Prince, Daniel K. Sodickson, Margaret A. Hall-Craggs (second row l. to r.) Walter Kucharczyk, J. Paul Finn, J. Thomas Vaughan, Michael B. Smith, C. Leon Partain, Risto A. Kauppinen, David H. Miller (third row l. to r.) David Bluemke, Leif Østergaard, Jeffrey J. Neil, Alberto Bizzi, Klaas Nicolay, Martin O. Leach (fourth row l. to r.) James F.M. Meaney, Jeffrey L. Duerk, A. Gregory Sorensen, Debiao Li, Chrit T. Moonen, Peter Börnert, Roland Kreis, and David G. Norris.



## BOARD MOTIONS, MAY 2005

It was moved, seconded, and carried to appoint Roxanne Deslauriers as Treasurer for a further 3-year term.

It was moved, seconded, and carried to appoint David H. Miller as Secretary for a further 3-year term.

It was moved, seconded, and carried that Ghaffari Zaragosa is retained to perform the audit for 2005-6 and that consideration is given to retaining a new auditor for subsequent years.

It was moved, seconded, and carried to award Ms. Jane E. Tiemann the special recognition of lifetime membership of the ISMRM that includes free attendance at meetings.

It was moved, seconded, and carried that if there is material arising in Safety Workshop proceedings that is considered to be of major public importance, it is forwarded to the chair of the Workshop Committee for consideration to be placed quickly on the web site.

It was moved, seconded, and carried to accept the updated Society's CME mission statement.

It was moved, seconded, and carried to hold the 2010 Meeting in Stockholm, Sweden.

It was moved, seconded, and carried to grant CME accreditation to the Society of Molecular Imaging meeting.

It was moved, seconded, and carried that David A. Bluemke be the clinician member and that Brian K. Rutt be the scientist member of the Study Group Review Committee.

It was moved, seconded, and carried that surplus funds raised by Study Group workshops are divided so that: (i) 50% goes back to the Study Group to contribute to costs or losses of future activities of the Study Group operating under ISMRM procedures and (ii) 50% goes to the Society.

It was moved, seconded, and carried to approve the Turkish Society of MR joining ISAC.

It was moved, seconded, and carried that Richard L. Ehman represents ISMRM at the Academy of Radiology Research.

It was moved, seconded, and carried to increase meeting registration fees by 5%.

It was moved, seconded, and carried to increase membership fees by 5%.

It was moved, seconded, and carried to carry forward \$15k from this year to next year's budget, to support a workshop for North American clinical residents to be held in 2006.

It was moved, seconded, and carried to approve the investment policy recommended by the Finance Committee.

It was moved, seconded, and carried to allocate US\$35,000 to fund an initial analysis of what will be required to meet development/marketing needs, initially done on an outsourcing basis.

It was moved, seconded, and carried to increase the AV budget for the 2006 Annual Meeting by US\$90,000 to enable video capture of all the teaching courses using a method chosen after a full assessment of suitable options for video capture.

It was moved, seconded, and carried that the prizes for the I.I. Rabi and W.S. Moore Young Investigator Award schemes be funded until further notice by Wiley and that the awards be described in the journals and advertising material as being sponsored by Wiley and Sons.

It was moved, seconded, and carried to endorse of a 3T high field workshop in Bonn, Germany, September 2005.

It was moved, seconded, and carried to charge a processing fee for the services provided by Central Office for Society endorsed workshops.

It was moved, seconded, and carried to hold the 2011 Annual Meeting in Montreal, Quebec, Canada.

It was moved, seconded, and carried to allow an increase in the membership of the diffusion perfusion Study Group from 10% to 12% of the total Society membership.

It was moved, seconded, and carried to ask the Governance Committee to reconsider the current 10% ceiling and to not have an upper ceiling on Study Group membership numbers.

It was moved, seconded, and carried to increase the allocation to the E.K. Zavoisky fund US\$30,000 to US\$35,000 per year.

It was moved, seconded, and carried that associate members can be signatories in addition to full members in achieving Chapter status.

It was moved, seconded, and carried that Tim Leiner of Maastricht be appointed as incoming Associate Editor of *MR Pulse*.

It was moved, seconded, and carried that the Board of Trustees should endorse the proposal from Wiley to digitize pre-electronic issues of *MRM* and *JMRI*, ideally along with the pre-electronic Annual Meeting abstracts of ISMRM and its predecessor societies, as described in Appendix 1 of the Publications Committee report to the Board.

It was moved, seconded, and carried that ISMRM should authorise Wiley to adopt the policy on the NIH's PubMed Central requirement as described in Wiley's statement. Any amendments would require reconsideration by the Board.

It was moved, seconded, and carried that Patrick Stroman be appointed as ISMRM Web Editor for a renewable period of three (3) years, and be made an *ex-officio* member of the Board.

It was moved, seconded, and carried that whenever possible the ISMRM and its representatives should strive to be nation-neutral when publishing address or telephone/fax contact information in its published material. Institutional affiliations, addresses and telephone/fax contact information should whenever possible be full international.

It was moved, seconded, and carried that the Board endorses more attention to MR safety, and that the Annual Meeting Program Committee is asked to consider making a poster award in that area if a sufficient number of posters are submitted.

It was moved, seconded, and carried to provide US\$2,000 for a reception for new entrant and clinical resident stipend attendees.

It was moved, seconded, and carried to approve the revised 2006 draft budget put forward by the Finance Committee plus an allocation of US\$15,000 for the North American workshop (budgeted but unspent in 2005).

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# CALL FOR NOMINATIONS AND AWARDS NOMINATIONS

## 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 2006. These suggestions must be received by noon local time on **7 November 2005**, 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 clinicians. 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 2005**, 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 governance 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:

Martin R. Prince, M.D., Ph.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: [nominations\\_2006@ismrm.org](mailto:nominations_2006@ismrm.org)

## Call for 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 2006 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. Electronic files of the documents must accompany the submission and may be submitted separately to Roberta A. Kravitz, Executive Director, at [roberta@ismrm.org](mailto:roberta@ismrm.org).

### 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. Electronic files of the documents must accompany the submission and may be submitted separately to Roberta A. Kravitz, Executive Director, at [roberta@ismrm.org](mailto:roberta@ismrm.org).

### 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. Electronic files of the documents must accompany the submission and may be submitted separately to Roberta A. Kravitz, Executive Director, at [roberta@ismrm.org](mailto:roberta@ismrm.org).

All awards proposals must be received in the Society's Central Office by **1 September 2005**. Send completed material to:

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

*See Study Groups page 20*

## 2006 YOUNG INVESTIGATOR AWARDS COMPETITION

The International Society for Magnetic Resonance in Medicine announces the competition for the Young Investigator Awards for the 14th ISMRM Meeting in Seattle, Washington, USA, in May 2006. 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 directly to one of the Society's journals. W.S. Moore applicants should submit to the *Journal of Magnetic Resonance Imaging*, and I.I. Rabi applicants to *Magnetic Resonance in Medicine* via their Web sites. In addition, the applicant must submit an abstract on the topic of this research for the annual meeting via the ISMRM electronic submission Web site. 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. All manuscripts submitted to either of the Society's journals will be reviewed for publication, whether or not chosen as a YIA finalist.

The Young Investigator Awards Committee will select up to three finalists for each award. All abstracts will automatically be considered for the ISMRM 14th Scientific Meeting in Seattle, Washington, USA. The finalists will make both oral and poster presentations at the 14th 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 manuscript, with images, typewritten and double-spaced throughout (including tables, footnotes, references, and figure captions), prepared on 8.5 x 11 in. or A4 paper format, with 1-in. or 2.5-cm margins on all sides. All pages should be numbered consecutively, including references, tables, and figure legends. Manuscript **must** be submitted electronically in .doc or LaTeX format to one of the Society's journals (W.S. Moore applicants should submit to the *Journal of Magnetic Resonance Imaging*, and I.I. Rabi applicants to *Magnetic Resonance in Medicine*). In addition, an electronic copy of the manuscript in pdf format must be submitted to the ISMRM Society office;
- A cover letter indicating that the applicant wishes to be considered for a YIA award submitted to the ISMRM Society office electronically in pdf format;
- A *curriculum vitae* submitted to the ISMRM Society office electronically in pdf format;
- A copy of the submitted abstract and receipt (tracking number) should be sent to the ISMRM Society office electronically;
- A statement 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). The statement should be submitted electronically in pdf format.

(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.)

### DEADLINES:

Manuscripts must be uploaded on the appropriate Society Journal's Web site no later than **Wednesday, 2 November 2005**.

Copy of manuscript, cover letter, *curriculum vitae*, abstract (with tracking number), and supervisor statement must be received electronically by the ISMRM Society office no later than **Wednesday, 2 November 2005**.

### WHERE TO SUBMIT:

Manuscripts should be submitted following the guidelines for authors on the Journal Web sites, which can be accessed through <http://www.ismr.org/journals.htm>. Copy of manuscript, cover letter, *curriculum vitae*, supervisor statement, and electronically submitted abstract with tracking number should be sent to the attention of:

Gary S. Fullerton, Ph.D., Chair  
Subcommittee on Young Investigator Awards  
[YIA\\_06@ismrm.org](mailto:YIA_06@ismrm.org)



## NEWS FROM THE ANNUAL MEETING PROGRAMME COMMITTEE (AMPC)

The 2006 Annual Meeting will take place in Seattle, Washington, USA, and aims to build on this year's highly successful conference in Miami Beach. The first change that you may have noticed from the title of this article is that the familiar SPC (Scientific Programme Committee) and EdCom (Education Committee) are replaced by the AMPC (Annual Meeting Programme Committee) for a trial period. Effectively this means that the two committees have agreed to work as one for the duration of this experiment. This change acknowledges the enormous importance that educational activities have assumed both prior to and during the Scientific Meeting. The result of this new committee structure should be a better integration of our educational programme over seven days, as the coordination of all activities for any given subject will be conducted by a dedicated group of experts in that field. One further improvement to the educational programme will be that lectures will now be designated as basic, intermediate, or advanced.

Turning to the main scientific programme I am very pleased to announce that the Mansfield Lecture will be given on the Monday of the conference by Dr. Elias A. Zerhouni, the director of the National Institutes of Health and a visionary thinker in medical research and diagnostic imaging. The Lauterbur lecture will be given on the Thursday by Dr. Markus E. Raichle, one of the pioneers of cognitive neuroimaging, initially with PET and more recently with fMRI. Around this the AMPC has constructed a set of five Plenary Sessions designed to meet the broad interests and differing requirements of our membership as follows:

Monday: Global Healthcare Challenges

Tuesday: Technologies to Accelerate Applications

Wednesday: The Role of Imaging in Understanding Obesity and Its Complications

Thursday: The Making of the Brain: Developmental Plasticity

Friday: Clinical Trials

Outstanding speakers have been selected for all of these sessions and I am very much looking forward to hearing their expositions.

Other features of the meeting will include the 'clinical track' programme which was instituted so successfully in Miami Beach, and on a lighter note the return of Sounds and



Visions in MRI. One initiative from Daniel K. Sodickson is to introduce a new series on unresolved problems. This will occupy an early morning time-slot previously taken by one morning categorical course. The hope is to focus the community on issues which have so far defied solution and to stimulate debate on these topics. More details on abstract submission for this special category will appear in *MR Pulse* at a later date.

Video capture of oral presentations will again be a feature of the meeting in Seattle, and the ISMRM Staff are working hard to ensure that audio-visual support in Seattle meets the highest standards.

The AMPC has already expended a considerable amount of effort in producing a high quality programme. The new committee structure has placed a heavy burden on the shoulders of Leif Østergaard as Chair of the former Education Committee, and it has been a pleasure for me to work with him and with the other members of the AMPC. Although construction of the programme is already at an advanced stage, we always welcome comments from members which will help us to further improve, so please do not hesitate to mail your suggestion either directly to me or to the ISMRM Office.

Finally, we are all very excited about the prospects for the 2006 Annual Meeting, and are looking forward to a large number of submissions and another outstanding meeting in Seattle next May.

—David G. Norris  
Chair, Annual Meeting Programme Committee

## Message from the SMRT President

The Theme for the 14th Annual Meeting of the Section for Magnetic Resonance Technologists (SMRT) held in Miami, Florida, USA, May 6-8, 2005 was "Riding the Waves of Excellence. The SMRT reported 280 attendees while the ISMRM reported a record 4,491 attendees. Appreciation and a hearty thank you go to the Program Committee, Chaired by Nanette Keck, together with the Education Committee, Chaired by John Christopher.

The Annual Meeting events commenced Friday evening with the traditional Poster Tour. The 56 posters, previously scored in digital format, were available for regulation size viewing. This was the first year the SMRT used a complete digital pathway for abstract review and poster scoring. Many thanks go to the Education Committee for developing this digital pathway.

The educational sessions commenced on Saturday, with a number of thirty-minute presentations on a diverse and expanded array of topics utilizing MR Clinicians and Researchers as well as experienced and respected SMRT members. After a full day of continuing education activities, members were treated to a reception Saturday evening honoring SMRT's Past Presidents, before the program began again on Sunday.

Spaced throughout the Saturday and Sunday programs were Technologist Proffered Papers. During the abstract submission process, authors may request to present orally, but the oral time-slots are awarded by the Program and Education Committees on the basis of the abstract's score and topic. The SMRT remains the only organization dedicated to allowing technologists to submit abstracts based upon their research and/or their work with colleagues.

One of the weekend's many highlights was the presentation on "Lower Extremity MR," by Dr. John V. Crues. Dr. Crues, together with Dr. Herbert Y. Kressel, were early and prominent supporters of the SMRT. Their assistance and encouragement have remained at the cornerstone of the SMRT. Named in their honor, The Crues-Kressel Award is one of the SMRT's highest awards and is given for outstanding contribution to the SMRT, especially with regard to contributions in education.

This year, the Crues-Kressel Award was given to William Faulkner, the first President of the SMRT from 1991-1992. Over the years, "Bill" has served in many capacities, such as an Executive and Policy Board member, and continues to serve as friend and speaker. It was a special moment when, together, Drs. Crues and Kressel presented the award named in their honor.

The 2005 President's Award, the highest award possible, was won by John Totman of Kings College Hospital, London, UK. John's work was entitled "Parametric Mapping of Hepatic Perfusion Index in Patients with Colorectal Cancer."

The final awards, presented at the Business Meeting on Sunday, went to Michael Kean of Melbourne, Victoria, Australia, and to Anne Marie Sawyer-Glover of Stanford, California, USA, in recognition of their considerable contributions to the SMRT. Michael and Anne Marie were elevated to Fellows of the SMRT.

For a complete list of awards given out during the SMRT Annual Meeting, please take a look at the most recent SMRT Signals Newsletter, number 53, now available on the ISMRM web site: <http://www.ismr.org/smart/membersonly.htm>.

A critical issue for MR Technologists, is Evidence of Continuing Education (ECE) which is required by most credentialing organizations. In the US the American Registry for Radiologic Technologists (ARRT) determines the criteria for recognizing continuing education (CE) documents, named Recognized Continuing Education Evaluation Mechanism (RCEEM). Several years ago, the SMRT undertook the initiative to achieve RCEEM status, which was awarded this past year. The SMRT will now be able to evaluate and review its own ECE documents for CE credits, such as Annual Meetings, Regional Meetings and the Home Study Program, as well as other functions that meet the criteria. The Home-Study Program, under the guidance of the Publications Committee, continues its success by providing targeted MR articles along with well-written tests, which can be submitted for continuing education credits.

Another pressing issue the SMRT will continue to address this year is the worldwide lack of qualified healthcare personnel, let alone the lack of well-trained MR Technologists. The SMRT Ad Hoc Committee for Education Standards, chaired by Luann Culbreth, is working with educators and credentialing organizations to establish minimally acceptable standards for the education and training for MR Technologists. Dr. John Crues and Dr. E. Mark Haacke have kindly agreed to assist the committee in its aim to establish these standards.





**SMRT Policy Board, Executive Committee, and Ex-Officio Members. (Seated front row l. to r.) Judith Wood, Nancy Hill Beluk, Cindy T. Hipps, Heidi Berns, and Anne Sawyer-Glover. (Seated middle row l. to r.) Maureen Ainslie, Laurian Rohoman, Pamela Vincent, Julia Lowe, Vera K. Miller, Denise Davis, Cindy Comeau, and Muriel Cockburn. (Standing back row l. to r.) Gina Greenwood, John Christopher, Bobbi Lewis, James Stuppino, Carolyn Bonaceto, Steven Shannon, Gregory Brown, Todd Frederick, Nanette Keck, Mark Spooner, Julie Strandt-Peay, and Charles T. Stanley. (not pictured: Karen Bove Bettis, Anne Dorte Blankholm, Silke Bosk, Andrew Cooper, Marcia Gervin, Scott Kurdilla, and Wendy Strugnell).**

*continued from previous page...*

Membership in the SMRT has remained steady at about fifteen-hundred members. The Membership Committee, chaired by Todd Frederick now succeeded by Nancy Hill Beluk, is continuing the theme of "Each One, Reach One". The membership committee continues researching alternative ways of increasing SMRT membership. One method of recruitment continues to be through SMRT supported Regional Educational Seminars. Meeting locations scheduled for the 2005-2006 year include New York, Pittsburgh, Boston, Toronto, and Stanford. For 2006, the Education Committee, along with the ISMRM, is also exploring ways to offer stipends for deserving technologists and MR students wishing to travel to the Annual Meeting.

While I cannot possibly list or thank everyone by name, including the Central Office, the SMRT Committee Chairs, Officers and members, I would be amiss if I did not mention the retirement of Jane Tiemann, longtime Executive Director of the ISMRM. During her years of service, Jane assisted in providing invaluable service to the SMRT. A gift of appreciation was presented to Jane during Saturday's Business Luncheon. She will be missed. However, congratulations go to Roberta Kravitz, who has now assumed the title of Executive Director. We are looking forward to working with Roberta and her staff as planning gets underway for the 2006 Annual Meetings of the ISMRM and SMRT in Seattle, Washington, USA.

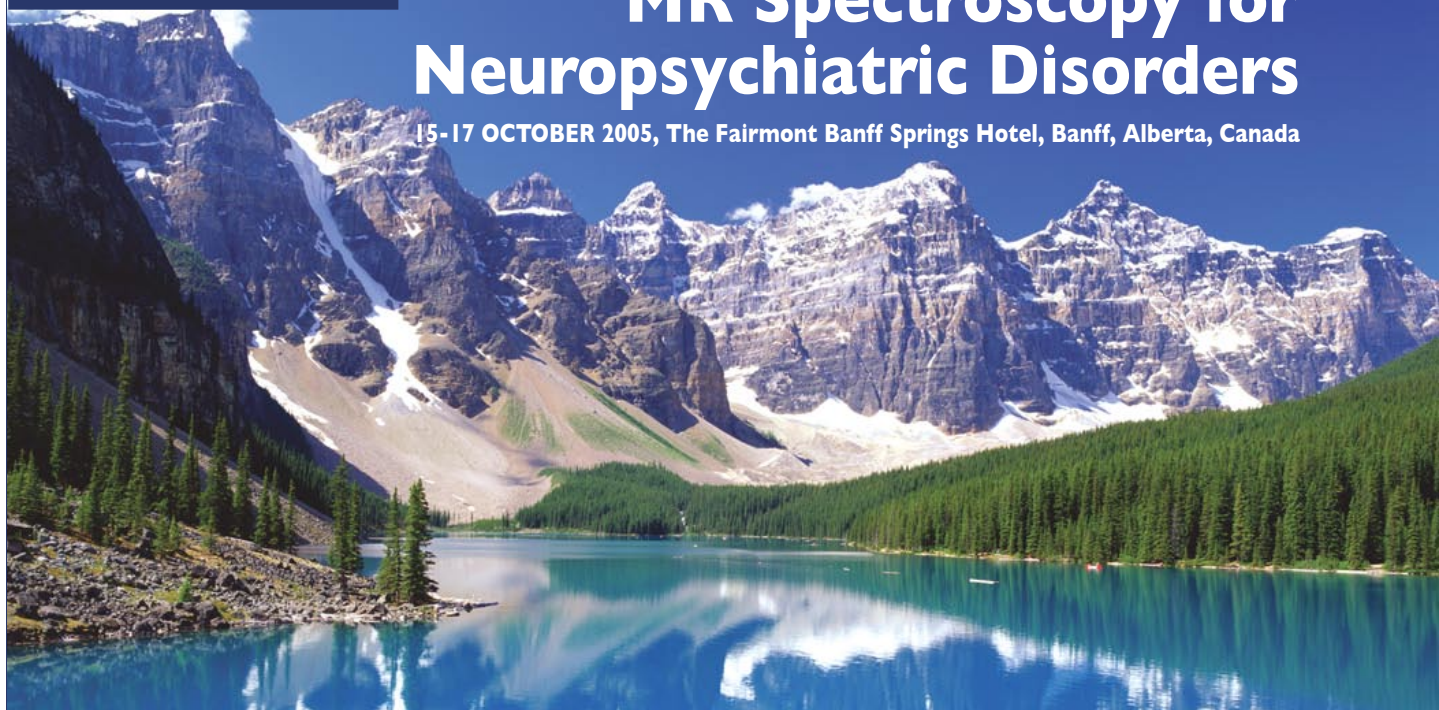
I invite all ISMRM members to visit the SMRT website to check out the benefits and educational offerings available to MR technologists. A well-educated and well-trained MR Technologist is an asset for all concerned.

**— Karen Bove Bettis, SMRT President**



# MR Spectroscopy for Neuropsychiatric Disorders

15-17 OCTOBER 2005, The Fairmont Banff Springs Hotel, Banff, Alberta, Canada



## WORKSHOP ORGANIZING COMMITTEE

### Peter S. Allen, Ph.D.

University of Alberta  
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## CME CREDIT AVAILABLE

The International Society for Magnetic Resonance in Medicine designates this continuing medical education activity for 13 category 1 credits towards the Physician's Recognition Award of the American Medical Association. Each physician should claim only those credits actually earned in the educational activity.

Scientists and clinicians around the globe use magnetic resonance spectroscopy (MRS) to investigate basic and clinical questions about neurochemistry in humans and in animals. Measurements of regional concentrations of N-acetyl aspartate, GABA, glutamate, high energy phosphates, and other neurochemicals are becoming rapidly available for use in clinical trials. New approaches such as  $^{13}\text{C}$ -MRS are used to probe basic mechanisms of neuronal function and neuropsychiatric disorders. This workshop is intended both as a forum for methodological education on MRS and for the exchange of ideas about using MRS in clinical practice and basic research.

## KEY OUTCOMES OF THIS WORKSHOP WILL BE

- Identification of optimal strategies for MRS acquisition, analysis, and quality control for applications in a patient environment.
- Identification and description of neurochemical features of neuropsychiatric disorders that are detectable with MRS and may respond to the progression and treatment of diseases.
- Practical methodological education for users of this technology, as provided by experts in various techniques of data acquisition and analysis.

## SESSIONS

**Psychiatric Overview:** Biochemistry and Physiology of Psychiatric Disorders

**Spectroscopic Overview:** Visibility and Quantification Challenges, Choice of Internal Standard

**Spectroscopic Quantification:** An Evaluation of Spectral Fitting Routines

**$^1\text{H}$  MRS in Schizophrenia and Dementia:** NAA and Glutamate

**Spectroscopic Imaging:** Pulse Techniques and Data Handling

**Spectroscopic Imaging:** In Epilepsy, Schizophrenia and Substance Abuse

**Nuclei Other than Protons:** The Value in a Patient Environment

**GABA and Glutamate:** Target and Signal Isolation and its Use in Neuropsychiatric Disorders

**Spectroscopic Quality Control in a Patient Environment**

## CALL FOR PAPERS

The deadline for receipt of abstracts is **Friday, 19 August 2005.**

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: [www.ismrm.org](http://www.ismrm.org)

THE INTERNATIONAL SOCIETY FOR MAGNETIC RESONANCE IN MEDICINE IS ACCREDITED BY THE ACCREDITATION COUNCIL FOR CONTINUING MEDICAL EDUCATION TO SPONSOR CONTINUING MEDICAL EDUCATION FOR PHYSICIANS.

# MRI Safety: Update, Practical Information and Future Implications

5 - 6 NOVEMBER 2005

Hilton McLean Tyson's Corner, McLean, Virginia, USA



**S**afety continues to be one of the most important topics for the MR community. Because the field of MRI continuously evolves, it is necessary to reconsider bioeffects and safety issues according to changes that have occurred in MR technology and with regard to using the latest evidence-based guidelines to ensure safety for patients and staff members. Issues exist with regard to the safe use of 3-Tesla and higher MR systems (i.e., acoustic noise, RF heating, chronic exposure, pregnancy, etc.) and MRI-guided procedures. Additionally, the preservation of a safe MRI environment requires constant attention to the management of patients with metallic implants and devices because the variety, complexity and safety issues for these objects constantly changes (e.g., cardiac pacemakers, neurostimulation systems, cochlear implants). Therefore, information for implants and devices that have recently undergone evaluation must be acknowledged and properly implemented into screening procedures. Also, new standards and guidelines have been developed by regulatory agencies. This Workshop will provide several Special Focus Sessions to cover these critical topics. In addition to invited scientific and educational lectures, the MRI Safety Workshop program will include presentations of proffered papers and poster sessions.

## SPECIAL FOCUS SESSIONS

### Practical Information for Clinical and Experimental MRI

- MR Safety Issues for Very High Field (>3T) MRI
- Peripheral Nerve Stimulation and MRI
- RF Power Deposition Issues for MRI
- Safety of MRI Contrast Agents
- MRI and Pregnant Patients
- Screening Patients and Other Individuals

### MRI Safety Standards

- ASTM Standards for MRI: Present and Future
- IEC Standard for MR Systems
- The ACR White Papers on MR Safety

### MRI Safety for Implants and Devices

- MRI Safety For Implants and Devices: Update 2005
- Cardiac Pacemakers and ICDs: Laboratory Experience
- Cardiac Pacemakers and ICDs: Clinical Experience
- Neurostimulation Systems and MRI Safety

### Interventional MR Procedures: Applications and Safety Aspects

- MRI Safety Issues for Interventional MRI: C-Magnet Design
- MRI Safety Issues for Interventional MRI: Double Donut Magnet Design
- Interventional MRI: Safety Issues for Instruments and Patient Support
- Testing Interventional Devices for MRI Safety

## WORKSHOP ORGANIZING CHAIRPERSONS AND SPEAKERS

**Frank G. Shellock, Ph.D.**, Keck School of Medicine, University of Southern California and Institute for Magnetic Resonance Safety, Education, and Research, Los Angeles, California, USA

**Daniel J. Schaefer, Ph.D.**, General Electric Healthcare, Milwaukee, Wisconsin, USA

## WORKSHOP SPEAKERS\*

**Ergin Atalar, Ph.D.**, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA

**Arno Bücker, M.D.**, Klinik für Radiologische Diagnostik Universitätsklinikum, Aachen, Germany

**Patrick M. Colletti, M.D.**, LAC-USC Imaging Science Center, Los Angeles, California, USA

**Hans Engels, Ph.D.**, Philips Medical Systems, Inc., Best, Netherlands

**Stephen G. Hushek, Ph.D.**, Norton HealthCare, Louisville, Kentucky, USA

**Emanuel Kanal, M.D., F.A.C.R.**, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, USA

**Alayar Kangarlu, Ph.D.**, Columbia University and NYSPI, New York, New York, USA

**Roger Lüchinger, M.S.**, University and ETH Zurich, Zurich, Switzerland

**Edward Martin, M.D.**, Oklahoma Heart Institute, Tulsa, Oklahoma, USA

**Keira Mason, M.D.**, Children's Hospital, Boston, Massachusetts, USA

**John A. Nyenhuis, Ph.D.**, Purdue University, West Lafayette, Indiana, USA

**Ali Rezai, M.D.**, Cleveland Clinic Foundation, Cleveland, Ohio, USA

**Val M. Runge, M.D.**, Scott and White Clinic, Temple, Texas, USA

**Anne M. Sawyer-Glover, B.S., R.T. (R)(MR)**, Stanford University, Stanford, California, USA

**Terry O'Riska Woods, Ph.D.**, US Food and Drug Administration, Rockville, Maryland, USA

**Loren A. Zaremba, Ph.D.**, US Food and Drug Administration, Rockville, Maryland, USA

\*(Partial List)

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## Mark Your Calendar!

# ISMRM IMPORTANT DATES AND DEADLINES

**1 SEPTEMBER 2005**

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

**15-17 OCTOBER 2005**

Workshop on MR Spectroscopy for Neuropsychiatric Disorders  
The Fairmont Banff Springs Hotel, Banff, Alberta, Canada

**2 NOVEMBER 2005**

Deadline for receipt of manuscripts, cover letter, *curriculum vitae*, supervisor statement for Young Investigator Awards Competition.

**5-6 NOVEMBER 2005**

Workshop on MRI Safety: Update, Practical Information and Future Implications  
Hilton McLean Tyson's Corner, McLean, Virginia, USA

**7 NOVEMBER 2005**

Deadline for receipt of nominations for Vice-President and 6 members of the Board of Trustees.

**16 NOVEMBER 2005**

Deadline for receipt of Abstract submissions.

**21 NOVEMBER 2005**

Deadline for receipt of Educational Stipend applications.

**21 NOVEMBER 2005**

Deadline for receipt of E.K. Zavoisky Stipend applications.

**18 JANUARY 2006**

Deadline for receipt of Proffered Papers for the SMRT 15th Annual Meeting.

**31 JANUARY 2006**

Deadline for receipt of New Entrant Stipend applications.

**24 MARCH 2006**

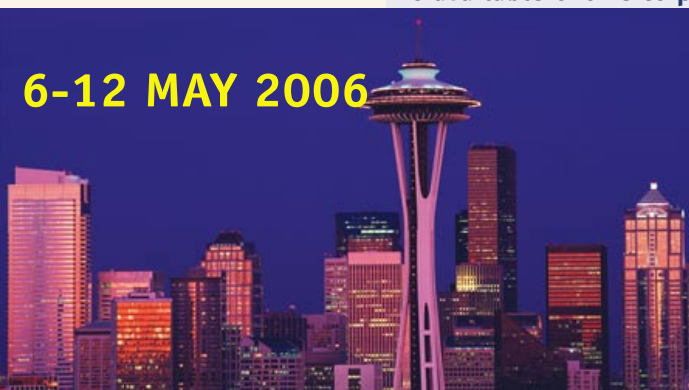
Deadline for Advance Registration for the ISMRM 14th Scientific Meeting & Exhibition.

**21 APRIL 2006**

Full Text version of the *Proceedings* and Educational Syllabus is available online to preregistered attendees only.

**6-12 MAY 2006**

**ISMRM 14th SCIENTIFIC MEETING & EXHIBITION,**  
Washington State Convention & Trade Center



### **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 a 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

You may also make your donation online at <http://www.ismr.org/mrc/>



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