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Preliminary Program Inside



Current and Future Applications of
MR-guided Focused Ultrasound 2010
2nd International Symposium

October 17 - 20, 2010

Westfields Marriott
Near Dulles International Airport
Washington, D.C., USA

MR-guided Focused Ultrasound 2010

2nd International Symposium



Scientific Program Committee

Co-Chairs

Mickaël Tanter, Ph.D.

Institut Langevin
French Institute for Health and Medical
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Bradford Wood, M.D.

Center for Interventional Oncology
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University of Virginia, Charlottesville

Joy M. Polefrone, Ph.D.

Focused Ultrasound Surgery Foundation
Charlottesville

Honorary President's Letter

Dear Colleagues,

I cordially invite you to participate in the 2nd International Symposium on MR-guided Focused Ultrasound scheduled for October 17 to 20, 2010 in Washington, D.C.

It is an honor to serve as President for this vitally important meeting, which is devoted exclusively to current and future applications of one of today's most exciting medical innovations, MR-guided focused ultrasound. Like the 1st International Symposium in 2008, this meeting promises to be a landmark event for scientists, clinicians and others involved in the research and development of patient treatments using this emerging, widely applicable technology.

A key aim of the 2010 symposium is to spotlight viable, new uses of MR-guided focused ultrasound. Presentations and poster sessions will cover the latest and most significant translational and clinical research, including facet rhizotomy for back and neck pain, functional neurosurgical treatments for neuropathic pain and the emergence of MR-guided focused ultrasound as a platform for targeted drug delivery.

Another symposium goal is to foster and expand the collaboration between clinicians and scientists, a vital aspect of moving a nascent technology like focused ultrasound from laboratory to patient bedside. Highly collegial, the symposium will provide ample opportunity for participants to interact, identify areas of common interest and plan shared pursuits.

As everyone involved with MR-guided focused ultrasound knows, our field is expanding and evolving rapidly. Attending the 2nd International Symposium on MR-guided Focused Ultrasound is an excellent way to keep abreast of major developments and to foster the conversations and collaborations that will pave the way for further progress.

Please plan to join me at this important and impactful event.

Sincerely,

Kullervo H. Hynynen, Ph.D.

Sunnybrook Research Institute
University of Toronto

Honorary President: MR-guided Focused Ultrasound 2010 – 2nd International Symposium

WELCOME
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Preliminary Program Overview

Plenary Sessions

- MR-guided Focused Ultrasound Technology
- Brain Applications
- Prostate Applications
- Breast Applications
- Liver Applications
- Back & Neck Pain, Other Applications
- Uterine Fibroids & Fertility
- Bone Tumors
- Focused Ultrasound-Mediated Targeted Drug Delivery
- Late-breaking Research
- Focused Ultrasound Vendor Profiles
- Accelerating Development & Adoption
- Training and Credentialing

Poster Sessions

- General Poster Session
- Late-breaking Research

Keynote Speakers

David and Diane Heller Lecture – *History of Focused Ultrasound*

Kullervo H. Hynynen, Ph.D. is a distinguished physicist and a pioneer in the therapeutic use of focused ultrasound who holds appointments at the University of Toronto and Sunnybrook Health Sciences Centre, Toronto.



Batten Family Lecture - *Challenges in Achieving the Adoption of a Disruptive Technology*

Laurent Leksell, Ph.D., M.B.A. is an internationally known entrepreneur and business executive who co-founded Gamma Knife-maker, Elekta AB, and led the company's transformation from a small, privately held firm into a global medical technology enterprise.



Speakers, Session Moderators & Panelists

Linda Bradley, M.D.

Department of Obstetrics and Gynecology
Cleveland Clinic, Cleveland

William Bradley, M.D., Ph.D.

Department of Radiology
University of California, San Diego

David R. Brenin, M.D.

Department of Surgery
University of Virginia, Charlottesville

Falko Busse, Ph.D.

Philips Healthcare, Vantaa

Paul Chipperton, M.B.A.

Profound Medical, Inc., Toronto

Rajiv Chopra, Ph.D.

Imaging Research
Sunnybrook Health Sciences Centre, Toronto

Lawrence Crum, Ph.D.

Acoustics and Electromagnetics Department
University of Washington, Seattle

Erik Dumont, Ph.D.

Image Guided Therapy, Pessac

Rebecca L. Emerick, M.B.A.

InSightec, Dallas

MR-guided Focused

Ultrasound 2010

2nd International Symposium

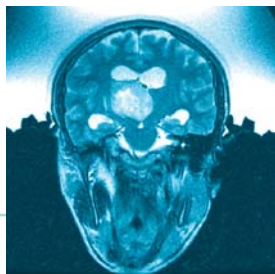


Image provided by Brigham and Women's Hospital

Dieter Enzmann, M.D.

Department of Radiology
University of California, Los Angeles

Katherine W. Ferrara, Ph.D.

Department of Biomedical Engineering
University of California, Davis

Mathias Fink, Ph.D.

Institut Langevin
French Institute for Health & Medical Research, Paris

Hidemi Furusawa, M.D.

Breast Surgical Oncology
Breastopia Namba Hospital, Tokyo

Wladyslaw Gedroyc, M.D.

Department of Interventional Magnetic
Resonance Imaging
St Mary's Hospital, London

Gail ter Haar, Ph.D.

Joint Department of Physics
Institute of Cancer Research, London

Heather Huff Simonin, M.B.A.

Focused Ultrasound Surgery Foundation
Charlottesville

Mark D. Hurwitz, M.D.

Department of Radiation Oncology
Dana-Farber/Brigham & Women's Cancer Center
Harvard Medical School, Boston

Kullervo H. Hynynen, Ph.D.

Sunnybrook Research Institute
University of Toronto, Toronto

Ferenc A. Jolesz, M.D.

National Center for Image-Guided Therapy
Brigham & Women's Hospital, Boston

Neal F. Kassell, M.D.

Department of Neurosurgery
University of Virginia, Charlottesville

Laurence Klotz, M.D.

Sunnybrook Health Sciences Centre, Toronto

Laurent Leksell, M.B.A., Ph.D.

Elekta AB, Stockholm

King C. Li, M.D., M.B.A.

The Methodist Hospital Research Institute
Houston

Matthias Matzko, M.D.

Amper Kliniken AG, Dachau

Elliot R. McVeigh, Ph.D.

Department of Biomedical Engineering
Johns Hopkins University School of Medicine
Baltimore

Chrit Moonen, Ph.D.

Imagerie Moléculaire et Fonctionnelle: de la
Physiologie à la Thérapie
University Victor Segalen, Bordeaux

Dennis L. Parker, Ph.D.

Utah Center for Advanced Imaging Research
Departments of Bioengineering & Radiology
University of Utah, Salt Lake City

Raphael Pfeffer, M.D.

Department of Radiation Oncology
Chaim Sheba Medical Center, Tel Hashomer

Mitchell Schnall, M.D.

Department of Radiology
University of Pennsylvania, Philadelphia

Daniel G. Schultz, M.D.

Greenleaf Health LLC, Washington, D.C.

Jacques Souquet, Ph.D.

Supersonic Imagine, Aix-en-Provence

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French Institute for Health & Medical Research
Paris

Clare Tempany, M.D.

National Center for Image-Guided Therapy
Brigham & Women's Hospital, Boston

Kobi Vortman, Ph.D.

InSightec, Tirat Carmel

Bradford Wood, M.D.

Center for Interventional Oncology
National Institutes of Health, Bethesda

Online Registration Information

	Early Registration Until July 31	Registration From Aug 1
Standard Registration	\$350	\$450
Discounted Registration for residents, students, trainees and government employees	\$250	\$300

Please visit www.fusfoundation.org/symposium to register online.

Abstract Submission

Be part of this outstanding program by submitting an abstract for oral or poster presentation at the symposium. Abstracts should include a description of OBJECTIVES, METHODS, RESULTS and CONCLUSIONS. Particular emphasis will be given to translational and clinical research findings. Authors may submit abstracts of completed work, work in progress, or work presented at a local or regional level. Abstract submission and presentation upload is available only through: www.fusfoundation.org/symposium. Abstracts will be published in the symposium program and, subsequently, on the Focused Ultrasound Surgery Foundation website.

Calendar

May 15	Call for abstracts Hotel registration opens – Marriott Westfields
July 31	Early registration rate available
August 16	Early registration rate ends
Sept 1 – 15	Abstract submission deadline – main program
October 17 – 20	Late-breaking abstract submission MR-guided Focused Ultrasound 2nd International Symposium

Venue

The Westfields Marriott Washington Dulles hotel combines sophisticated meeting facilities with elegant accommodations. Conveniently located in Chantilly, Virginia, the hotel is 7 miles from Washington Dulles International Airport and only 35 minutes away from downtown Washington, D.C. Visit www.fusfoundation.org/symposium for further details.

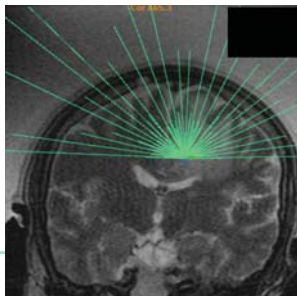


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MR-guided Focused Ultrasound 2010

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***The Focused Ultrasound
Surgery Foundation was
created to improve the
lives of millions of people
with life-threatening
diseases by accelerating
the development and
adoption of MR-guided
focused ultrasound.***

Neal F. Kassell, M.D.

Chairman's Letter

Dear Colleagues,

One of my favorite concepts – leverage points – comes from the field of systems analysis. In a paper published by the Sustainability Institute, Donella Meadows describes leverage points as “places within a complex system (a corporation, an economy, a living body, a city, an ecosystem) where a small shift in one thing can produce big changes in everything.”

Since our founding in 2006, the Focused Ultrasound Surgery Foundation has become adept at creating and using leverage points. Our aim is to shorten the time required to move new applications of MR-guided focused ultrasound from the research laboratory to clinical reality. For us, this means leveraging the power of collaboration, cooperation and communication.

The 2nd International Symposium on MR-guided Focused Ultrasound promises to be a major leverage point. Besides spotlighting the latest developments in preclinical, clinical and translational research, the agenda will explore socio-economic issues and barriers to therapeutic adoption. There will be ample opportunity for participants – scientists, clinicians, manufacturers, government regulators, insurers, venture capitalists and more – to establish and expand collaborations, share ideas and formulate new projects.

The field of MR-guided focused ultrasound has expanded and steadily gained momentum since our 1st International Symposium in 2008. Worldwide, nearly 60 sites and hundreds of researchers are engaged in pre-clinical, clinical and translational research projects. In the near future, the list of approved indications will expand beyond uterine fibroids and bone metastasis to conditions such as prostate and breast cancer and neuropathic pain. Also on the horizon are treatments for brain, pancreatic, liver and kidney tumors and for stroke, movement disorders, back and neck pain and epilepsy.

At the Foundation, we are committed to advancing the entire field of MR-guided focused ultrasound. The generosity of many philanthropic and corporate donors has enabled us to fund research and fellowships, sponsor centers of excellence and host an online collaborative research network. We've also organized educational events – the largest and most impactful of which will be the 2nd International Symposium on MR-guided Focused Ultrasound.

I hope you will join us in Washington, D.C. from October 17 to 20. By participating in the scientific and interpersonal aspects of the 2nd International Symposium on MR-guided Focused Ultrasound, you will help create the small shifts that will produce big changes in everything.

Sincerely,

Neal F. Kassell, M.D.

Chairman and Founder, Focused Ultrasound Surgery Foundation

About the Focused Ultrasound Surgery Foundation

Today, researchers and manufacturers around the world are developing focused ultrasound therapies for many deadly and debilitating medical conditions. Since its founding in 2006, the Focused Ultrasound Surgery Foundation has been dedicated to accelerating the development and adoption of these new treatments so that they become a standard of care worldwide. Motivating the Foundation's work is the belief that every day without access to focused ultrasound treatments is a day of needless death, disability and suffering for countless patients.

Thanks to the support of philanthropic and corporate donors, the Foundation funds a variety of research and educational initiatives. We also promote collaboration, coordination and communication among researchers, clinicians and others who are pioneering this exciting and rapidly emerging area of medicine.

Our key initiatives include:

- Organizing, coordinating and funding research leading to new applications
- Establishing global collaboration between the research and development initiatives in academia and industry
- Funding training fellowships for clinicians and scientists
- Establishing new Centers of Excellence - luminary sites for research, training and patient care
- Supporting meetings, symposia and workshops
- Facilitating regulatory approval and third-party reimbursement
- Increasing awareness of what has been termed "medicine's best kept secret"

To learn more about focused ultrasound and the Focused Ultrasound Surgery Foundation, visit the Foundation's website:

www.fusfoundation.org

FOUNDATION
www.fusfoundation.org

JOIN US

Don't miss this landmark event ... register today!

The **2nd International Symposium on MR-guided Focused Ultrasound** will feature world renowned experts and spotlight the latest preclinical, translational and clinical research related to one of today's most promising and innovative therapeutic technologies. Besides a comprehensive scientific overview, the program will provide ample time for attendees to share information, expand collaborations and formulate new projects.



SYMPOSIUM SPONSORS

The Focused Ultrasound Surgery Foundation gratefully acknowledges the generous support of symposium sponsors.



Bringing New Horizons to Therapy



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