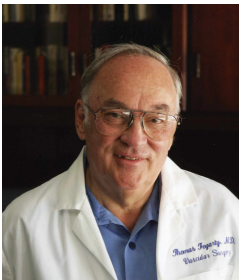


SOCIETY FOR THERMAL MEDICINE - 2010 ANNUAL MEETING

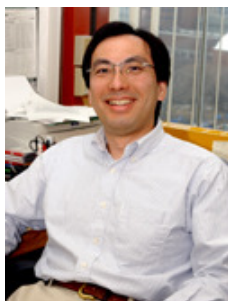
Keynote Speakers



Dr. Thomas J. Fogarty is an internationally recognized cardiovascular surgeon, inventor, entrepreneur, and vintner. He has been involved with a wide spectrum of innovations in business and technology. Dr. Fogarty has served as founder/co-founder, and Chairman/Board Member of over 33 various business and research companies, based on medical devices designed and developed by Fogarty Engineering, Inc. During the past 40 years, he has acquired over 100 surgical patents, including the "industry standard" Fogarty balloon catheter and the widely used Aneurx Stent Graft that replaces open surgery aortic aneurysm. Dr. Fogarty is the recipient of countless awards and honors; most significantly, he is the recipient of the Jacobson Innovation Award of the American College of Surgeons, the 2000 Lemelson-MIT prize for Invention and Innovation and was inducted into the Inventors Hall of Fame in December 2001. Recently, Dr. Fogarty and his colleagues founded the Fogarty Institute for Innovation at El Camino Hospital to create an environment where innovation in medicine is encouraged, supported, and nurtured.



Dr. Heinz-Otto Peitgen obtained his PhD in Applied Mathematics from the University of Bonn in 1973. From 1985 to 1991 he was Professor of mathematics at the University of California-Santa Cruz. In 1986 Dr. Peitgen together with Dr. Peter Richter published their influential book "The Beauty of Fractals", which was one of the first books to introduce complex dynamics, chaos theory and fractal geometry to the general public via eye-catching super-computer generated fractal images; several other award-winning books and movies on the same subject followed. Subsequently he became faculty at the University of Bremen, where in 1992 he founded the center for complex systems and visualization (CeVis) at the University of Bremen. In 1995 Dr. Peitgen founded the inter-disciplinary center for medical image computing (MeVis research), which he is director of. In 2009 MeVis became one of the Fraunhofer institutes, and is now in part funded by the Fraunhofer society. Fraunhofer Mevis is one of the worldwide leading research centers working on medical image-processing applied to cancer diagnosis, and treatment planning of surgical and image-guided therapies. Several products developed by MeVis are currently in clinical use. Dr. Peitgen is member of the European Academy of Sciences and Arts since 1992. He is the co-editor of eight international scientific journals, and was awarded the Order of Merit (1st Class) for his achievements in science and research in computer aided radiology and surgery by the President of Germany in 1996. In April 2005, he received the Werner Körte medal in Gold from the German Organization of Surgery and the magna cum laude award from the European Association of Radiologists.



Dr. Dai Fukumura, M.D., Ph.D. is an Associate Professor in Radiation Oncology, Edwin L. Steele Laboratory for Tumor Biology, Massachusetts General Hospital and Harvard Medical School. He is an internationally recognized expert in angiogenesis, imaging and radiation biology and with this combination of experience. Dr. Fukumura's lecture will be of considerable importance to STM members who are keenly interested in the modulation of the tumor microenvironment. A more complete understanding of defective formation of blood vessels that develop around and within tumors, and the resultant hypoxia, acidosis and interference with the delivery and efficacy of chemotherapy and radiation therapy is critical for STM members to develop the most appropriate heating strategies for various types of tumors. Among several achievements, Dr. Fukumura and his collaborators have used intravital microscopy to provide unprecedented insights into tumor pathophysiology, including angiogenesis and the microenvironment and he is working on a variety of drugs and methods that modulate the growth of blood vessels, in combination with traditional anticancer therapies. Dr. Fukumura has most recently turned his attention to control of metastasis and also on the development of new approaches for three dimensional imaging of the tumor microenvironment in vivo using optical frequency domain imaging.