RSNA | Radiological Society of North America Founded in 1915
820 Jorie Boulevard
Oak Brook, Illinois 60523-2251
630/571-2670
FAX: 630/571-7837
www.rsna.org
NEWS

Media Contacts: **RSNA Newsroom (312) 949-3233**

Before 11/25/06 or after 11/30/06: **RSNA Media Relations (630) 590-7762**

Maureen Morley
(630) 590-7754
mmorley@rsna.org

RSNA Announces Honored Lectures and Annual Oration Topics

CHICAGO, Nov. 27, 2006 – The Radiological Society of North America (RSNA) annually invites three eminent researchers to deliver honored lectures during the RSNA Scientific Assembly and Annual Meeting. Presenters for the 92nd Scientific Assembly are J. William Charboneau, M.D., from Rochester, Minn.; Kerry M. Link, M.D., from Winston-Salem, N.C.; and Theodore S. Lawrence, M.D., Ph.D., from Ann Arbor, Mich.

Eugene P. Pendergrass New Horizons Lecture

Recent advances in medical imaging have allowed exciting new treatment options for cancer patients.

"New, minimally invasive image-guided cancer treatments result in markedly reduced morbidity and patient discomfort, allow the patient to return rapidly to normal activity and increasingly offer the patient an improved likelihood of cure," said J. William Charboneau, M.D., professor of radiology at the Mayo Clinic College of Medicine in Rochester, Minn. "These new therapies include thermal ablation devices, such as radiofrequency, microwave, laser, focused ultrasound and cryoablation."

Dr. Charboneau will discuss these topics and more on Monday, November 27, in his New Horizons Lecture, "Image-guided Cancer Treatment: The Science and Vision of an Emerging Field."

Dr. Charboneau emphasizes that future advances will provide more certainty of cancer destruction with even less invasiveness than is offered now.

"Additionally, improved imaging methods will allow more accurate guidance during procedures and for real-time monitoring of therapy," said Dr. Charboneau.

Dr. Charboneau is an enthusiastic educator and scientist whose work as an editor, lecturer and researcher has influenced countless others in the areas of ultrasound imaging and image-guided ablation of cancer of the liver, kidney, lung and bone.

He has presented at over 150 national and international meetings and has published more than 130 scientific publications in peer-reviewed journals. He has co-edited several books, most notably *Diagnostic Ultrasound,* a two-volume text now in its 3rd edition.

Dr. Charboneau received his medical degree from the University of Wisconsin, Madison, where he also completed graduate work in anatomy. He carried out his residency at Mayo Clinic.

A fellow of the American College of Radiology and a member of RSNA, Dr. Charboneau was a member of the National Academy of Sciences Committee on the Public Health Implications of Exposure to I-131 from Nevada Atomic Bomb Tests. He has presented to a congressional committee on future medical imaging technology.

Annual Oration in Diagnostic Radiology

With the advent of cardiac magnetic resonance imaging (MRI) and computed tomography (CT), the capabilities of cardiac imaging are advancing at a rapid rate. The radiology community must adapt to the arrival of new technology by making fundamental changes in the way heart disease is diagnosed.

“The track record of radiology participation in cardiac imaging has been uneven,” said Kerry M. Link, M.D., F.A.C.C., professor of radiologic sciences and Director of the Center for Biomolecular Imaging at the Wake Forest School of Medicine in Winston-Salem, N.C. “In the past, few radiologists were trained in angiography, nuclear medicine or ultrasound. Today, there is a large pool of radiologists with years of sophisticated training in modalities such as CT.”

Dr. Link says that the radiology community is poised to tackle the unique challenges of cardiac imaging facing physicians today. This may involve a shift in the way radiologists approach diagnosis of heart disease.

Dr. Link will deliver the Annual Oration in Diagnostic Radiology on “Cardiac Imaging—A Second Chance” on Tuesday, November 28.

A visionary clinician and educator in cardiac imaging, Dr. Link helped develop the world-renowned Center for Biomolecular Imaging at Wake Forest. Prior to the dedication of the center in 2003, his work at the university primarily involved coronary angiography, pediatric heart catheterization and cardiac CT.

In 1995, Dr. Link won the Fulbright Fellowship in Medicine for his work in coronary artery flow measurements. As a fellow, he studied coronary artery physiology at the Royal Brompton Cardiac MRI Center in London, England.

Annual Oration in Radiation Oncology

Radiation oncology is poised for a revolution, made possible by recent discoveries in experimental therapeutics and radiology.

"Advances in functional imaging offer the potential to target tumor biology while decreasing injury to normal tissues," said Theodore S. Lawrence, M.D., Ph.D., Isadore Lampe Professor and chair of the Department of Radiation Oncology at the University of Michigan Medical School, Ann Arbor. "It is ironic and exciting that after 30 years of defining radiation oncology as a separate field from radiology, the collaboration between our disciplines is again growing stronger every day."

Dr. Lawrence asserts that this collaboration will allow radiation oncologists to develop individualized therapies based on function and knowledge of an individual's tumor and normal tissue.

"The level of sophistication we can achieve today is phenomenal compared to when I was a resident 20 years ago," he added.

Dr. Lawrence will deliver the Annual Oration in Radiation Oncology on Wednesday, November 29. His lecture, "Looking Beyond Anatomic-based Treatment in Radiation Oncology," will address current technical advances and new cancer treatment strategies.

Dr. Lawrence is chair of the National Cancer Institute (NCI) Board of Scientific Councilors (Clinical and Epidemiology) and a member of the NCI's Translational Research Working Group. He is an associate editor of the *Journal of Clinical Oncology* and of *Seminars in Radiation Oncology*. He is past-president of the American Society for

Therapeutic Radiology and Oncology and a past member of the board of directors for the American Society of Clinical Oncology.

Dr. Lawrence received his research degree in cell biology from The Rockefeller University in New York City, and his medical degree from Cornell University, also in New York City. After completing an internal medicine residency at Stanford University, he undertook both a fellowship in medical oncology and a residency in radiation oncology at NCI. He joined the faculty of the University of Michigan in 1987.

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Note: Copies of RSNA 2006 news releases and electronic images will be available online at *RSNA.org/press06* beginning Monday, Nov. 27.