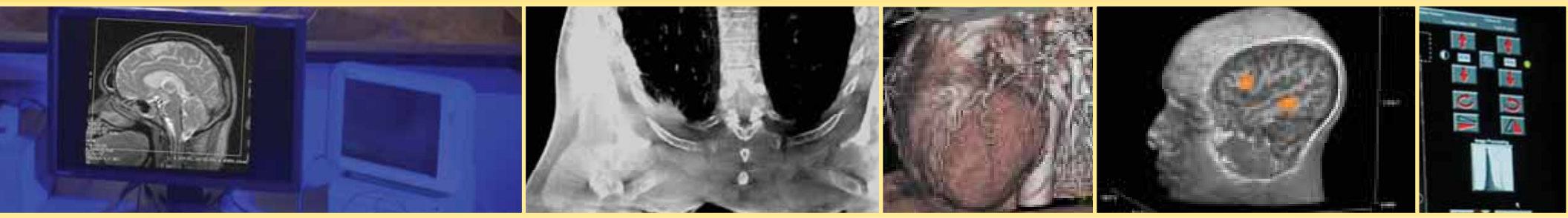
University of Rochester Medical Center
Clinical and Translational Science Institute

and

Department of Imaging Sciences

present

Imaging Science and Information Technology Role in Clinical and Translational Science



April 16, 2009

University of Rochester
School of Medicine and Dentistry
Rochester, New York

Sponsored by:

UNIVERSITY of ROCHESTER MEDICAL CENTER

Office of Continuing Professional Education

Course Information

STATEMENT OF NEED

From research bench to bedside care, the translation and application of new technologies are driving the healthcare machine into the future. New technological advances in imaging sciences and information technology have revealed unanticipated findings and uncovered increasingly detailed information about the anatomy and function of the brain, heart, and other organs and tissues. Challenging questions have emerged: What are the most appropriate imaging studies to obtain for specific medical conditions? How do we provide the findings from these studies in the most cost effective and efficient way to clinical care providers, imaging science and IT researchers, health care administrators, as well as third party payors? This symposium brings together the broad spectrum of stakeholders who need to be involved in this exciting translational research, and has as one of its major goals to encourage collaboration across specialties and provide increased synergy to identify new translational research opportunities.

COURSE OBJECTIVES

The conference is designed so that at its conclusion, participants should be able to:

- Discuss how the emerging technologies might apply to the diagnosis and treatment of patients and possibly lead to collaborative research projects to extend the use of these modalities for new diagnostic and therapeutic approaches.
- Explain how information technology can be used to facilitate the transition of clinical research to approved clinical protocols and improve productivity and reduce errors in the healthcare environment.
- Describe how new imaging and targeting technologies used in radiation oncology may facilitate the development of more effective treatment protocols and minimize damage to adjacent, normal tissues.
- Explain how the results of molecular imaging in animal models contribute to new therapeutic approaches to eliminate tumors.

ACCREDITATION/CERTIFICATION

The University of Rochester School of Medicine & Dentistry is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The University of Rochester School of Medicine & Dentistry designates this educational activity for a maximum of 5.25 *AMA PRA Category 1 credits*™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

LOCATION

The conference will take place at the University of Rochester School of Medicine and Dentistry Conference Center, 601 Elmwood Avenue, Rochester, NY. Driving and parking instructions will be mailed with the registration acknowledgment.

REGISTRATION

Persons wishing to register should complete and return the Registration Form with payment by April 2, 2009 to:

University of Rochester
Office of Continuing Professional Education
601 Elmwood Ave., Box 677
Rochester, NY 14642-8677
Fax: 585.275.3721

FEES

No Charge Residents/Fellows/Students

* Must fill out registration form and include signed letter from Department Chair verifying status and agreement to pay $50 registration fee for no-show*
MUST REGISTER BY APRIL 2 FOR FREE REGISTRATION

$50 All Others

Fee includes attendance at all course sessions, course materials and refreshments. The registration fee must accompany the registration form. Please make checks payable to Continuing Professional Education. If you are paying by credit card, you may fax your registration form to 585.275.3721. Receipts will be issued at the conference. For all cancellations, an administration fee of $10 will be deducted from all refunds. No refunds will be issued after April 2, 2009.

U OF R VOUCHER AWARD PROGRAM

The CME Voucher Award Program has been developed to recognize the efforts of the Medical School's community based preceptors, to encourage their continued involvement, and to acknowledge the importance of their contributions. Vouchers can be redeemed ONLY for activities registering through the University of Rochester Office of Continuing Professional Education. Instructions for use are on the Vouchers. A limited number of "Voucher" registrations will be available for any given activity. Vouchers are redeemed on a first-come, first-served basis.

UR NURSING CONTACT HOURS (NCH) COUPON AWARD PROGRAM

This Program has been developed to recognize the efforts of the School of Nursing's preceptors, to encourage their continued involvement, and to acknowledge the importance of their contributions. Coupons can be redeemed for activities registering through the University of Rochester Office of Continuing Professional Education, the School of Nursing, and the Center for Lifelong Learning at the Community Nursing Center at the School of Nursing. Instructions for use are on the Coupons.

REFRESHMENTS

A continental breakfast, beverages, and buffet lunch will be provided. Please indicate any special dietary needs on the registration form.

ADA SERVICES* / INFORMATION

For more information or to make accommodations for learners with disabilities, contact the Office of Continuing Professional Education at 585.275.4392 or cmeoffice@urmc.rochester.edu. Office hours are Monday-Friday, 8:00 am – 4:30 pm. Please call at least TEN days in advance of the conference for ADA accommodations.

ACCOMMODATIONS

Attendees requiring overnight accommodations should call the Courtyard Rochester Brighton at 585.292.1000. The hotel is located at 33 Corporate Woods, Rochester, NY 14623. When making reservations, please indicate you will be attending the University of Rochester Imaging Sciences Conference. Please call by April 3, 2009 to ensure availability and the discounted conference rate.

Course Faculty

ACTIVITY DIRECTOR

Edward M. Smith, ScD, FACNP
Professor, Department of Imaging Sciences
University of Rochester Medical Center

PLANNING COMMITTEE

Richard T. Moxley, III, MD
Professor of Neurology and Pediatrics
Director of Neuromuscular Disease Center
University of Rochester Medical Center

Randy Rosier, MD, PhD
Professor, Department of Orthopaedics and Rehabilitation
University of Rochester Medical Center

GUEST FACULTY

Paul Chang, MD, FSIIM
Professor and Vice-Chairman, Radiology Informatics
Medical Director, Pathology Informatics
University of Chicago Pritzker School of Medicine
Medical Director, Enterprise Imaging
University of Chicago Hospitals

Steven Horii, MD, FACR, FSIIM
Professor of Radiology
Clinical Director, Medical Informatics
University of Pennsylvania Medical Center

J. Neal Rutledge, MD
Medical Director of Neuroradiology
Seton Healthcare Network
Adjunct Professor of Psychology
University of Texas at Austin
Austin Radiological Association

UNIVERSITY OF ROCHESTER MEDICAL CENTER FACULTY

David Dombroski, MD
Associate Professor, Department of Imaging Sciences

Rollin (Terry) Fairbanks, MD
Assistant Professor, Department of Emergency Medicine

Thomas Foster, PhD
Professor, Department of Imaging Sciences

Michael Schell, PhD
Professor and Director of Medical Physics
Department of Radiation Oncology

David Waldman, MD, PhD
Professor and Chair
Department of Imaging Sciences

Schedule

Imaging Science and Information Technology Role in Clinical and Translational Science

April 16, 2009

7:00-8:00 am	Registration & Continental Breakfast
8:00-8:10 am	Introduction Edward M. Smith, ScD

Session I — **Moderator: Randy Rosier, MD, PhD**

The possibility of new therapeutic approaches to eliminate tumors using molecular imaging in animal models will be presented. New imaging and targeting technologies being evaluated in radiation oncology will result in more effective treatment protocols and reduce damage to tissue adjacent to the tumor will be presented.

8:10-8:45 am	Molecular Imaging of Tumor Responses to Experimental Therapeutics in Vivo Thomas Foster, PhD
8:45-9:20 am	Emerging Radiation Oncology Technologies for Localization and Treatment Michael Schell, PhD
9:20-9:35 am	Q&A/Panel Discussion
9:35-9:55 am	Beverage Break

Session II — **Moderator: David Waldman, MD, PhD**

Emerging imaging technologies in US, CT and MRI will be presented to see if they can be adapted to new diagnostic and treatment protocols that can possibly lead to collaborative research projects to further the clinical utilization of these modalities.

9:55-10:30 am	Emerging Ultrasound Technologies for Diagnosis and Treatment Steven Horii, MD
10:30-11:05 am	Emerging CTA and MRA Protocols to Diagnose and Treat Cardiovascular Disease David Dombroski, MD
11:05-11:40 am	Emerging CT and MR Protocols to Diagnose and Treat Neurological Disease J. Neal Rutledge, MD
11:40-12:00 pm	Q&A/Panel Discussion
12:00-1:00pm	Deli Lunch Buffet

Session III — **Moderator: Edward M. Smith, ScD**

Information technology innovations will be presented that can improve productivity, reduce errors and contain costs as well as possibly facilitate the transition of clinical research to approved clinical protocols.

1:00-1:45 pm	Role of Information Technology in Clinical Care and Translational Science Research Paul Chang, MD
1:45-2:15 pm	Optimizing Interoperability and Communications Between Emergency Department and Imaging Sciences Terry Fairbanks, MD
2:15-3:00 pm	Q&A: Future Role of Information Technology in the Cost-Effective Delivery of Healthcare Paul Chang, MD; Steven Horii, MD; J. Neal Rutledge, MD

Imaging Science and Information Technology Role in Clinical and Translational Science

April 16, 2009 University of Rochester School of Medicine & Dentistry

REGISTRATION FORM

Please Print

Name _____ Title _____

Birth month and day (Ex. June 20 = 06/20) _____ _____ / _____ _____ *(for record keeping only)*
m m d d

[ ] Please check if new address

[ ] Work OR [ ] Home Address

Address _____ Box/Suite Number _____

City/State/Zip _____

Institution/Affiliation _____

Practice Specialty _____

Office Phone _____

Email _____ Fax _____

Special Dietary Needs: _____

FEES:

[ ] No Charge - Residents/Fellows/Students

must fill out registration form and include signed letter from Department Chair verifying status and agreement to pay $50.00 registration fee for no-show **MUST REGISTER BY APRIL 2 FOR FREE REGISTRATION**

[ ] $50.00 - All Others

METHOD OF PAYMENT:

[ ] Check Payable to: Continuing Professional Education

[ ] CME Voucher + $ _____ (if applicable)

[ ] Nursing Voucher + _____ (if applicable)

[ ] Visa [ ] MasterCard [ ] Discover

Card Number _____

Exp. Date _____

Signature _____

Please return this form with payment to:

University of Rochester
Continuing Professional Education
601 Elmwood Ave., Box 677
Rochester, NY 14642-8677
Fax: 585.275.3721

If paying by credit card, you may fax your registration to our office. Copies of this form are acceptable. Please do not reduce the size of this form.