



Program Overview

Learning Track Descriptions

Learning Track 1: Practical Imaging Informatics

All PACS professionals, whether they are experienced CIIPs, physicians, CIOs, and/or RTs, need to share knowledge about common problems encountered in the PACS environment. This track provides a forum for sharing information about practical, analyzing everyday problems, and discussing possible solutions! In addition, there will be a strong focus on new elements of DICOM.

Co-Chairs:

Barton F. Branstetter, IV, MD; University of Pittsburgh Health Systems

Richard L. Kennedy, MSc, CIIP; Kaiser Permanente Medical Group, Sacramento

Learning Track 2: Business Analytics

In today's difficult health care environment, you need to do everything you can to improve the quality, safety, and efficiency of the care you provide for your patients, as well as the work place you create for your staff. The use of business analytics (BA), dashboards, and other informatics applications can assist in improving your practice in these areas, and accelerate adoption and meaningful use of health care information technologies, which will soon be government mandates.

Co-chairs:

Keith J. Dreyer, DO, PhD; Massachusetts General Hospital

Ramin Khorasani, MD, MPH; Brigham & Women's Hospital, Harvard Medical School

Learning Track 3: New Tools in Data Management

The New Tools Data Management Track has been designed to provide practical tools, advice, and processes to practicing PACS administrators. This is a must attend Learning Track for attendees who are looking to improve the efficiency and effectiveness of implementing and supporting a PACS environment. How will HITECH security changes impact remote service, off-site archive/DR storage and cross-institution information sharing? Join leading experts as they ponder, discuss and debate this ever-changing question. Be sure to join in the Vendor Tie-in Session to take advantage of this special opportunity to ask those ever important questions to leaders in the vendor community!

Co-chairs:

Paul G. Nagy, PhD; University of Maryland School of Medicine

Fred W. Prior, PhD; Washington University School of Medicine

Learning Track 4: Advanced Visualization

Got Lab? Advanced Visualization has been designed to help attendees set up a lab that functions in a way that is optimal for their situation. For those with a lab, it will help them identify opportunities to improve how they operate and to see where the field is going. Learn the latest in setting up a fully functioning, productive lab.

Co-chairs:

Bradley J. Erickson, MD, PhD, FSIIM; Mayo Clinic

Eliot L. Siegel, MD, FSIIM; University of Maryland School of Medicine, VA Maryland Health Care System

Learning Track 5: Automated Reporting Systems

Communication has recently received increased attention from users, vendors and regulators. Automated Reporting Systems will address current and new communication methods with an emphasis on using technology to simultaneously streamline workflow, improve patient care and satisfy oversight requirements.

Co-chairs:

David L. Weiss, MD; Carilion Roanoke Memorial Hospital

Curtis P. Langlotz, MD, PhD; University of Pennsylvania Health System

Learning Track 6: Interoperability & Integration

The Interoperability & Integration Learning Track will provide attendees with the latest information about why and how images need to be available at the point of care both within and between healthcare enterprises. Image integration issues and solutions will be discussed in presentations and panel discussions. The Applied Learning Track will focus on interoperability within a single healthcare enterprise and the Educational Session will focus on integration between different healthcare enterprises, doctors, and the patient.

Co-chairs:

Paul J. Chang, MD, FSIIM; University of Chicago, Pritzker School of Medicine

David W. Piraino, MD, FSIIM; Cleveland Clinic Foundation

Learning Track 7: Imaging Center PACS

Imaging Centers come in a variety of sizes and ownership structures which can vastly impact the implementation and use of digital imaging. The Imaging Center PACS Learning Track will provide attendees with strategies needed to plan, implement and address the special needs of Imaging Centers. In addition, this track will analyze the ever-growing need to maintain the seamless ability to share image data from imaging facilities to hospitals and vice versa.

Co-chairs:

Adam E. Flanders, MD; Thomas Jefferson University Hospital

James T. Whitfill, MD; Scottsdale Medical Imaging

Learning Track 8: Image-Intensive Specialties

Although historically, imaging informatics has focused on the radiology department, there are several image intensive specialties outside of radiology negotiating similar issues, such as surgical specialty clinics, cardiology, and veterinary medicine. These specialties have similar hurdles for existing in the digital realm, but each has their own specific workflow and productivity issues, different from radiology. An increasingly important focus of imaging informatics is image utilization outside of PACS. This growing field evaluates image utilization outside of radiology, as well as DICOM and non DICOM image integration into EMRs, image visualization, and collaboration tools, which are outside of the classic workflow of a radiology department.

Co-chairs:

Katherine P. Andriole, PhD, FSIIM; Brigham & Women's Hospital, Harvard Medical School

Richard H. Wiggins, III, MD; University of Utah Health Sciences Center

Tools of the Trade

Sunday Learning Series

The Tools of the Trade Sunday Learning Series provides participants with an active-learning environment. Whether you are new to the field of imaging informatics or a seasoned veteran, these special sessions focus on specific content, examples, and practices using everyday tools; providing valuable skills, benefiting you and your institution! These courses are presented in a small classroom setting to provide attendees easier access to one-on-one help with the content being presented. Space is limited... Register now to reserve your spot in one or two of these engaging activities.

Co-chairs:

Adam E. Flanders, MD; Thomas Jefferson University Hospital

Paul G. Nagy, PhD; University of Maryland School of Medicine

Wyatt M. Tellis, PhD; University of California, San Francisco

**Advanced sign-up is required for the Sunday Learning Series Sessions.*

***No additional fees for attending these sessions.*

WEDNESDAY

Wednesday June 2

2010 Imaging Informatics Professionals Bootcamp

8:00 am – 6:00 pm

Minneapolis Convention Center
Room 200

The 2010 IIP Bootcamp will provide participants a strong foundation and overview of all facets of the IIP profession. This bootcamp used in combination with the recommended SIIM text, "Practical Imaging Informatics," is designed to be an immersion program of study to facilitate preparation for the ABII CIIP exam.

Take the Challenge!

- Fine-tune your expertise in the 10 domains of successful PACS and imaging enterprise management systems
- Earn continuing education credit
- Certificates of attendance will be available for IIPs to track continuing education for the ABII.
- Forge long-term relationships with other imaging informatics professionals
- Pre and Post Testing
- Sign up for a CIIP Study Group during SIIM 2010

Recommended Reading: "Practical Imaging Informatics: Foundations and Applications for PACS Professionals," www.siimweb.org/pii

Faculty:

Communications and Training/Education

Ann. L Scherzinger, PhD, CIIP; University of Colorado Health Sciences Center

PACS Procurement and Project Management

John L. Griffith, RT(R,MR,CT)/CIIP, CRA; Epic Imaging

Information Technology

Salvador O. Tejada, RT(R)(CT)(MR), A+, Network +, CDIA+, HL7Certified, CIIP; RIS Imaging Centers, Inc

PACS Operations

Victoria Myers, BSRT(R), CIIP; Scottsdale Healthcare

Systems Management

Craig A. Bryant, CIIP, RDMS, CNMT; Sharp Healthcare

Image Management

Eliot L. Siegel, MD, FSIMM; University of Maryland School of Medicine, VA Maryland Health Care System

Clinical Engineering and Medical Informatics

David Brown, BSCS, CNMT, CIIP; Cedars-Sinai Medical Center

Group Panel Discussion and Test Question Review

**This preconference course is not included in general registration fees.*

Cost: \$250 USD (meals and course syllabus included)

User Group Meetings

9:00 am – 5:00 pm

Take advantage of an exceptional opportunity at SIIM 2010 and maximize your experience by attending a user group meeting. SIIM recognizes the synergy created when individuals who work with the same technologies are brought together to form a community of users. User group meetings encourage more in-depth discussion throughout the SIIM meeting about day-to-day operations and new system opportunities.

No additional registration fee is required to attend, however participation is restricted to customers of the specific vendors. Visit the websites listed below for complete details.

- **CRISS** - Centricity Radiology Information Systems Society (www.criissweb.org)
- **DIAMOND** - Dynamic Imaging Associated Members Organized for Networking & Discussion (www.diamondusers.org)
- **Excite** - Exchange for Centricity Imaging Technology End-users (www.excitepacs.org)

THURSDAY

Thursday, June 3

Attendee Registration: 6:30 am – 5:00 pm

Exhibit Hall Hours: 9:30 am – 7:00 pm

Opening General Session: Year in Review; Using Dashboards and Business Analytics for Practice Improvement

Learning Track 2: Business Analytics

Applied Learning Session

8:00 am – 9:30 am

Meeting Room 101HIJ

Year in Review

SIIM invites meeting participants to attend SIIM's first "Year in Review" session that will kick off the Annual Meeting and point to what is new and innovative in the field of imaging informatics. The "Year in Review" will include breakthroughs and advances in integrating IT and images, communication of patient data, 3D and processing of CT and MR, digital radiography, cloud-based storage, security and privacy issues, and political aspects of health care reform and the role of informatics. Opening session presenters will provide a preview of the sessions within the SIIM 2010 program that feature and address the hot topics of 2010.

Moderators:

Janice Honeyman-Buck, PhD, FSIIM, Editor-in-Chief, Journal of Digital Imaging

Bradley J. Erickson, MD, PhD, FSIIM, Society for Imaging Informatics in Medicine, Chair

Katherine P. Andriole, PhD, FSIIM, Annual Meeting Program Committee, Chair

Using Dashboards and Business Analytics for Practice Improvement

The "Year in Review" will be immediately followed by an applied learning demonstration entitled "Using Dashboards and Business Analytics for Practice Improvement." This session will begin with a demonstration of the suboptimal current state of affairs in medical imaging, followed by a wish-list discussion of optimum approaches. This will be followed by live demonstrations by two institutions of how they use business analytics and dashboards to improve quality, safety and efficiency in their radiology departments and medical imaging

throughout the health care enterprise. Lesson learned will be shared so that others can begin to implement business analytics at their facility, large or small.

Faculty:

Keith J. Dreyer, DO, PhD; Massachusetts General Hospital

Ramin Khorasani, MD, MPH; Brigham & Women's Hospital, Harvard Medical School

Katherine P. Andriole, PhD, FSIIM; Brigham & Women's Hospital, Harvard Medical School

Paul J. Chang, MD, FSIIM; University of Chicago, Pritzker School of Medicine

J. Raymond Geis, MD; Advanced Medical Imaging Consultants, PC

Luciano M.S. Prevedello, MD; Brigham & Women's Hospital, Harvard Medical School

Objectives:

1. Demonstrate how informatics can help improve quality, safety, and efficiency of care at large and small facilities.
2. Describe how the use of business analytics and dashboards provide valuable solutions to improve practice throughout the health care enterprise.

Exhibit Hall Grand Opening

9:30 am – 10:15 am

Top 10 PACS Problems

Learning Track 1: Practical Imaging Informatics
Educational Session

10:15 am – 11:45 am

Meeting Room 101HIJ

Top 10 PACS Problems will begin with a review of the "Top 10" problems faced by PACS professions, followed by an in-depth discussion on possible solutions to these ever increasing problems. In addition attendees will review the changes that have been made in DICOM over the past two years, focusing on the new elements of this important piece of imaging informatics.

Faculty:

David A. Clunie; RadPharm

Richard L. Kennedy, MSc, CIIP; Kaiser Permanente

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Medical Group, Sacramento

David L. Weiss, MD; Carilion Roanoke Memorial Hospital

Objectives:

1. Review the 'Top Ten' problems encountered by PACS Professionals.
2. Analyze potential solutions to the 'Top Ten' problems.
3. Identify changes in DICOM over the past two years.

Scientific Session

Learning Track 2: Business Analytics

10:15 am – 11:45 am

Meeting Room 101FG

Co-Chairs:

Paul G. Nagy, PhD; University of Maryland School of Medicine

Luciano M.S. Prevedello, MD; Brigham & Women's Hospital, Harvard Medical School

A Simulation Tool to Visualize Patient Peak Skin Dose with Fluoroscopic and Interventional Procedures Using DICOM * #

Yasaman Khodadadegan, *Arizona State University*

Using a Web-based Application to Automatically Identify Discrepancies in Preliminary Interpretations Provided by Radiology Residents during Independent Call *

Jason Itri, MD, PhD, *Hospital of the University of Pennsylvania*

Imaging Equipment Productivity; Benchmarking Device Efficiency Using DICOM *

Mengqi Hu, *Arizona State University*

Scanner Utilization: Integrating Cognitive Science and Information Visualization in a Communicative Tool to Account for Resource Utilization *

Micah Adams, *University of Maryland School of Medicine*

Quality Assurance and Radiation Dose Monitoring for Digital Mammography Using the Dose Index Tracker

Mary B. Peter, *Mayo Clinic*

Ensuring a State-of-the-Art Future

Learning Track 3: New Tools in Data Management

Educational Session

10:15 am – 11:45 am

Meeting Room 200

Does your vendor call you when they detect a problem? Is solid state in your future? This session will provide a foundational overview of past, present and future data storage. Building on this foundation, attendees will experience PACS transitions; following one institutions process and suggestions on whether to migrate or not. Finally, analyze the drive for operational excellence providing strong management principles to minimize downtime. After developing a strong foundation in this Educational Session, be sure to attend the New Tools in Data Management Applied Vendor Tie-in Session for the opportunity to question leading vendors face-to-face.

Faculty:

Christopher D. Meenan; University of Maryland Medical System

David L. Melson; Mallinckrodt Institute of Radiology

James F. Philbin, PhD; Johns Hopkins Medical Institutions

Objectives:

1. Understand new architecture decisions and tradeoffs that affect scalability issues for large storage systems for medical images.
2. Discuss methodologies of data migration when changing PACS vendors and its impact upon data integrity, performance, and cost.
3. Identify key systems management principles to provide maximum uptime.

Visit the Exhibit Hall

11:45 am – 1:15 pm

CIIP Study Group

11:45 am – 12:45 pm

Exhibit Hall – Shared Learning Community

Are you planning to take the ABII CIIP examination within the next year? If so, the CIIP Study Groups are exactly what you need. Join other IIPs to exchange knowledge and find out how others are studying for

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the IIP Certification exam. CIIP study groups will offer informal peer-to-peer interaction; Q&As; networking opportunities; as well as a variety of study tips and resources available to SIIM IIPs.

Sign up for study groups will be available at the registration desk. There is no additional fee, however space will be limited.

2010 Open Source Plug Fest

11:45 am – 1:30 pm

Exhibit Hall – Shared Learning Community

The 2010 Open Source Plug Fest will provide participants with the opportunity to experience and gain a greater understanding of the powerful open source programs that out there today. New this year, the Open Source Plug Fest will be found in the Exhibit Hall with overviews of each project.

Moderators:

Marc D. Kohli, MD; Indiana University School of Medicine

Paul G. Nagy, PhD; University of Maryland School of Medicine

Scientific Session

Learning Track 1: Practical Imaging Informatics

1:15 pm – 2:45 pm

Meeting Room 101HIJ

Co-Chairs:

Katherine P. Andriole, PhD, FSIIM; Brigham & Women's Hospital, Harvard Medical School

Richard H. Wiggins, III, MD; University of Utah Health Sciences Center

The 'Dose Index Tracker': An Automated Database of Patient Radiation Dose Records for Quality Monitoring * #

Shanshan Wang, *Arizona State University*

Cross-Institutional Imaging Aggregation and Distribution

Alberto F. Goldszal, PhD, MBA, *University Radiology Group*

Defining and Managing Standardized Imaging Protocols with Appropriateness Criteria

Janice Honeyman-Buck, PhD, FSIIM, *University of Florida*

Remote Performance Assurance of Display Monitor Calibration

Herb Stockley, *Department of Veterans Affairs*

Evaluation of the Two Major Strategies Often Proposed for Sharing Imaging Information Across Multiple Facilities (e.g., HIE, RHIO) and Delivering Images to the EMR Using IHE

Donald K. Dennison, *Agfa HealthCare*

Migration... The Vendor's Perspective

Learning Track 3: New Tools in Data Management

Applied Learning Session/Vendor Tie-In Session

1:15 pm – 2:45 pm

Meeting Room 200

Join in the discussion as Industry leaders take this opportunity to discuss data management challenges. This session will include a panel discussion, with educators and vendors, as they take the didactic education topics of data management and open it to a discussion on the role of the vendors in assisting PACS administrators accomplish proactive systems management. Key issues in data management will be discussed and participating PACS, enterprise storage and migration vendors will give their perspective on the issues and questions listed below:

1. How will HITECH security changes impact remote service and off?-site archive/DR storage?
2. What do you do with the data in the old system when you move from PACSn to PACSn+1?
3. Do you migrate or do you forget?
4. How are vendors helping PACS administrators be more proactive in the managing a modern PACS system?
5. What are the practical approaches to manage import and export of medical images in a practice?

Faculty: **TBD**

Vendors:

Acuo Technologies

McKesson Provider Technologies

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Objectives:

1. We will have a panel discussion of industry leaders to discuss how vendors provide services and tools to PACS customers to help them manage their systems better.
2. We will also discuss what customers can do to ease the cost and pain of migration when changing vendors.

Visit the Exhibit Hall

2:45 pm – 3:30 pm

Roundtable: Enterprise Integration

2:45 pm – 3:30 pm

Exhibit Hall – Shared Learning Community

Moderator: **Christopher D. Meenan**; University of Maryland Medical System

Objectives:

1. Discuss pitfalls of EMR implementation.
2. Review opportunities for process improvement utilizing cross specialty software integration.

Complex Problems, Practical Solutions

Learning Track 1: Practical Imaging Informatics

Applied Learning Session

3:30 pm – 5:00 pm

Meeting Room 200

This “Ask the Experts” forum on Practical Imaging Informatics will give audience members the opportunity to pose questions to our panel, focusing on practical problems encountered in the PACS environment. If you didn’t see the answer to your problem in the SIIM textbook “Practical Imaging Informatics,” here is your chance to ask the experts!

Faculty:

Barton F. Branstetter, IV, MD; University of Pittsburgh Health Systems

David S. Channin, MD; Northwestern University Feinberg School of Medicine

David A. Clunie; RadPharm

Scott Griffin, BSRT(R), CIIP; Southeast Alabama Medical Center

Objectives:

1. Analyze common problems and pitfalls encountered in the PACS environment.
2. Engage in a group discussion revolving around problem-solving and practical solutions.

Core Technologies to Implement the Business of Medical Imaging

Learning Track 2: Business Analytics

Educational Session

3:30 pm – 5:00 pm

Meeting Room 101HIJ

Join in as innovative leaders in the field discuss the core technologies, architectures, and databases needed to implement business analytics and dashboards. Learn the processes you need in place to resource these applications. Case examples of "what do you do with business analytics and dashboards" will be shared for implementation at both large and small sites.

Faculty:

Markus Stout, MBA; Massachusetts General Hospital

Katherine P. Andriole, PhD, FSIIM; Brigham & Women’s Hospital, Harvard Medical School

Ramin Khorasani, MD, MPH; Brigham & Women’s Hospital, Harvard Medical School

Objectives:

1. Learn how to resource and implement core technologies, architectures and databases at both large and small facilities to improve quality, safety, and efficiency.
2. Discuss case examples in the use of business analytics and dashboards.

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Scientific Session

Learning Track 3: New Tools in Data Management

3:30 pm – 5:00 pm

Meeting Room 101FG

Co-Chairs:

Christopher D. Meenan; University of Maryland Medical System

Matthew B. Morgan, MD; University of Utah Hospital

Optimization of Network Parameters for "Just-In-Time" Radiology Study Interpretation Over an Enterprise Wide Area Network * #

Colin Michael Segovis, *Mayo Clinic, College of Medicine*

Analysis of Outside Image Submission to PACS
Kevin W. McEnery, MD, *University of Texas MD Anderson Cancer Center*

The Makeup of a Successful Subspecialist
Teleradiology 24/7 Strategy
Rasu B.K. Shrestha, MD, MBA, *University of Pittsburgh Medical Center*

Impact of PACS Federation on Hospital Network Traffic
Rasu B.K. Shrestha, MD, MBA, *University of Pittsburgh Medical Center*

The Optimal Way to Build Shared Image Repositories; Importing Images to PACS or Provide Through Separate Viewer?
Babette MacRae, *London Health Sciences Centre*

SIIM 2010

Wine & Cheese Welcome Reception

5:00 pm – 7:00 pm

In the Exhibit Hall

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Friday, June 4

Attendee Registration: 7:30 am – 6:00 pm

Exhibit Hall Hours: 9:30 am – 6:00 pm

Masterminding the Ultimate, Practical 3D Lab

Learning Track 4: Advanced Visualization

Applied Learning Session/Vendor Tie-in Session

8:00 am – 9:30 am

Meeting Room 200

There are a variety of ways in which “advanced visualization” workstations are being used for radiologists, technologists, and clinicians in clinical care. The applied learning session will emphasize efforts to improve practical workflow for radiologists and technologists. The features and power of these workstations have grown considerably during the past several years and their accessibility has improved greatly. Even the application of the term “advanced visualization” has changed considerably. However their integration into the radiologist’s image interpretation workflow, as well as the technologist’s workflow has not changed as rapidly and this application presents many possibilities for improvement. Topics to be covered in this session will include the use of advanced visualization workstations for primary interpretation of studies by radiologists, integration with “PACS workstations” and PACS archives and how to improve this, utilization of a single workstation for multiple applications, ability to compare current and prior studies and PET/CT and other multi-modality fusion, IHE workflow for a 3D technologist, and pre-processing of images (bone and table removal, vessel segmentation, etc.) as might be performed by a post processing or 3D Lab technologist.

Faculty: **TBD**

Vendors:

Philips Healthcare
Siemens Healthcare
TeraRecon, Inc.
Vital Images, Inc.

Objectives:

1. Gain a better understanding of workflow tasks in a 3D lab.
2. Identify opportunities for improved workflow.

Methods for Effective Communication and Reporting

Learning Track 5: Automated Reporting Systems

Educational Session

8:00 am – 9:30 am

Meeting Room 101HIJ

This educational session will review the use of speech recognition and other methods of radiology report creation with emphasis on maximizing efficiency. New methods of communicating and retrieving data and information needed by the clinician and the radiologist will be presented.

Faculty:

Woojin Kim, MD; University of Pennsylvania School of Medicine

David S. Hirschorn, MD; Staten Island University Hospital

Objectives:

1. Gain a greater understanding of available methods of radiology reporting and communication.
2. Learn ways to improve workflow and efficiency using software currently available and in development.

Scientific Session

Learning Track 6: Interoperability & Integration

8:00 am – 9:30 am

Meeting Room 101FG

Co-Chairs:

David S. Channin, MD; Northwestern University Feinberg School of Medicine

James Y. Chen, MD; University of California-San Diego/VA San Diego Healthcare System

Creation and Storage of Standards-based Pre-scanning Patient Questionnaires in PACS as DICOM Objects * #

Tracy J. Robinson, MD, *Mercy Catholic Medical Center*

Validating Interoperability of DICOM Modalities before Purchase

Peter M. Kuzmak, MS, *Department of Veterans Affairs*

A Preliminary Study of the Progression of DICOM

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Object Conformance and Metadata Usage in the Last Twenty Years

Dongbai Guo, PhD, *Oracle Corporation*

Top Ten PACS Connectivity Issues

Herman J. Oosterwijk, MS, MBA, *OTech Inc*

Deployment of a Diagnostic Imaging Repository (DIR) for the Regional Storage and Sharing of Medical Imaging Data in a Heterogeneous RIS-PACS Environment

Alain Gauvin, MSc, *McGill University Health Center*

Visit the Exhibit Hall

9:30 am – 10:15 am

Roundtable: Disaster Recovery

9:30 am – 10:15 am

Exhibit Hall – Shared Learning Community

Moderator:

TBD

Objectives:

1. Describe current disaster recovery options available.
2. Review positives and negatives of each model.
3. Discuss new ideas or future models.

General Session: The Dwyer Lecture The Role of Imaging Informatics in the Next Generation of EMR/EHR

10:15 am – 11:45 am

Meeting Room 101HIJ

The annual Dwyer Lectureship features a SIIM fellow as the presenter of a particularly relevant and insightful topic. This year Paul J. Chang, MD, FSIM, Vice Chairman of Radiology Informatics and Medical Director of Pathology Informatics at the University of Chicago, Pritzker School of Medicine will present the 2010 Dwyer lecture.

Despite the uncertainties with respect to the future of health care delivery, one thing is clear: information technology will play a critical role. However, existing EMR/EHR models are probably

inadequate to address current and near future requirements. The lessons learned and approaches validated in imaging informatics can contribute greatly in the design of more optimal EMR/EHR approaches. The 2nd Annual Dwyer Lecture focuses on the opportunities for imaging informatics in this new reality.

Faculty:

Moderator: **Steven C. Horii, MD, FSIM**; University of Pennsylvania Health System

2010 Dwyer Lecturer: **Paul C. Chang, MD, FSIM**; University of Chicago, Pritzker School of Medicine

Objectives:

1. Describe what the contributions of imaging are to the new EMR/EHR models.
2. Understand the role of Imaging Informatics in regards to new legislation surrounding EMR/EHR

Visit the Exhibit Hall

11:45 am – 1:15 pm

SIIM Annual Membership Meeting & Fellows Induction Luncheon

12:00 pm – 1:00 pm

Room 101HIJ

3D Labs, What Are Your Options?

**Learning Track 4: Advanced Visualization
Educational Session**

1:15 pm – 2:45pm

Meeting Room 101HIJ

This track will provide a solid overview of the functions provided by a typical 3D lab, including developing standardized protocols for renderings of common imaging examinations, such as for vascular disease and orthopedic applications. It will also include examples of less common, but still important procedures, and some models of how to support these less frequent exams.

There are 2 main options for 3D lab operations: a central model in which all or most of the technologists do their work in a single location. The alternative is a distributed model where techs are located throughout the department, close to where

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the images are generated. The strengths and weaknesses of each model are discussed. There is also this dichotomy for the underlying hardware—both workstation based, and web-based 3D tools are available, each with strengths and weaknesses.

3D is a particularly effective tool for communicating some imaging results, and assuring that the images do effectively communicate to the referring physician and to the patient is a critical element of success for a 3D lab. Some examples of good and bad will be discussed.

Finally, in most cases it is critical that the work in the 3D lab be reimbursed to assure viability. A description of current billing guidelines will be discussed, along with a description of how some have adapted their lab practices to remain financially viable.

Faculty:

Bradley J. Erickson, MD, PhD, FSIIM; Mayo Clinic, Rochester

Luciano M.S. Prevedello, MD; Brigham & Women's Hospital, Harvard Medical School

Objectives:

1. Familiarize with the clinical goals of 3D labs: producing standardized 3D renderings for common applications like complex fractures, vascular disease; producing standardized measures for things like tumors; producing individualized renderings and measures for unusual diseases.
2. Understand the strengths and weaknesses of various operating models including central lab and distributed lab models, including the hardware and performance implications.
3. Analyze how to communicate effectively to and with the referring physician.
4. Learn some of the economic principles of 3D labs and billing aspects of operations.

Scientific Session

Learning Track 5: Automated Reporting Systems

1:15 pm – 2:45 pm

Meeting Room 101FG

Co-Chairs:

Ross Filice, MD; University of Maryland

David L. Weiss, MD; Carilion Roanoke Memorial Hospital

Development of an Automated Follow-up Tracking and Feedback System for Radiologic, Clinical and Laboratory Studies *

Tessa S. Cook, MD, PhD, *Hospital of the University of Pennsylvania*

Extending RadLex by Automated Extraction of Terms from the Medical Literature *

Rebecca J. Hazen, *Rochester Institute of Technology*

Ontological Support for Alzheimer's Disease Aid to Diagnostic *

Hanane Houmani, *Centre de Recherche Universite Laval - Robert Giffard*

Tool Support for Cancer Lesion Tracking and Quantitative Assessment of Disease Response

Mia Alyce Levy, MD, *Vanderbilt University*

The Annotation and Image Markup (AIM) Project; Version 2.0 Update

David S. Channin, MD, *Northwestern University Feinberg School of Medicine*

Image Integration and Interoperability within the Enterprise

Learning Track 6: Interoperability & Integration Applied Learning Session

1:15 pm – 2:45 pm

Meeting Room 200

This session presents an overview of image interoperability within a healthcare enterprise. There will be 3 presentations followed by a panel discussion. The presentations will present a framework of the issues and solutions to image interoperability within a healthcare enterprise from three different viewpoints. First, will be the view from senior management about how image integration fits into the strategic goals of a healthcare institution. The second presentation will be from the perspective of the imaging user. While the last presentation will be a discussion about methods that can be used to achieve these goals.

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Faculty:

Paul J. Chang, MD, FSIIM; University of Chicago, Pritzker School of Medicine

Adam Fogelman; Cleveland Clinic Foundation

C. Martin Harris, MD; Cleveland Clinic Foundation

Objectives:

1. To understand the importance of image integration within a single healthcare enterprise.
2. To be able to put together an enterprise strategy for integrating radiology and non-radiology images within a healthcare system.
3. To learn the needs of referring providers and diagnostic imagers to access images at the point of care.
4. To understand the technical issues and possible solutions for implementing an enterprise image integration strategy.

Visit the Exhibit Hall

2:45 pm – 3:30 pm

Roundtable: Critical Results Reporting

2:45 pm – 3:30 pm

Exhibit Hall – Shared Learning Community

Moderator:

David L. Weiss, MD; Carilion Roanoke Memorial Hospital

Objectives:

1. Describe current disaster recovery options available.
2. Review positives and negatives of each model.
3. Discuss new ideas or future models.

Scientific Session

Learning Track 4: Advanced Visualization

3:30 pm – 5:00 pm

Meeting Room 101FG

Co-Chairs:

William W. Boonn, MD; University of Pennsylvania Health System

Lawrence R. Tarbox, PhD; Washington University School of Medicine

Pen/Tablet Human-Computer Interface Reduces Radiation Oncologist Head and Neck Cancer Case Contouring Time: Preliminary Results From A Prospective Multi-Institutional Target Volume Delineation Study *
Clifton Fuller, MD, *University of Texas Health Science Center at San Antonio*

Five Levels of PACS Modularity: Integrating 3D and Other Advanced Visualization Tools *
Kenneth C. Wang, MD, PhD, *Johns Hopkins Hospital*

Publishing in JDI
Janice Honeyman-Buck, PhD, FSIIM, *University of Florida*

Content-based Image Retrieval: Portal Venous CT of Liver Lesions
Sandy Napel, PhD, *Stanford University*

Hardware-Accelerated On-Demand Rigid and Nonrigid 3D Image Registration
Raj Shekhar, PhD, *University of Maryland School of Medicine*

Communication: An Interactive Conversation with Vendors

Learning Track 5: Automated Reporting Systems

Applied Learning Session/Vendor Tie-in Session

3:30 pm – 5:00 pm

Meeting Room 200

Communication: An Interactive Conversation with Vendors will foster an interactive discussion between the audience and vendors representatives of reporting and communication software. Participants are encouraged to express their ideas for changes and refinements in current products. Vendors will respond with their proposed solutions and a roadmap of future developments.

Faculty:

Curtis P. Langlotz, MD, PhD; University of Pennsylvania Health System

David L. Weiss, MD; Carilion Roanoke Memorial Hospital

Vendors:

GE Healthcare

Nuance Communications

FRIDAY

Objectives:

1. Directly discuss with vendors on what is right and wrong with current communication software.
2. Gain an understanding of the most pressing issues radiologists face.
3. Analyze proposed solutions.

Image Integration and Interoperability beyond the Enterprise

Learning Track 6: Interoperability & Integration Educational Session
3:30 pm – 5:00 pm
Meeting Room 101HIJ

This session will discuss the new area of how images need to be shareable between healthcare institutions, doctors, and patients. Given the new emphasis on cost effective care, the ability to have the images available where and when they are needed even if that is not at the institution in which the images were obtained is important. Different views on how this can be done will be presented followed by a panel discussion.

Faculty:

Christopher D. Carr, MA; RSNA
David S. Channin, MD; Northwestern University, Feinberg School of Medicine
David W. Piraino, MD, FSIIM; Cleveland Clinic Foundation

Objectives:

1. Understand the importance of image integration between healthcare enterprises.
2. Develop a strategy for image access between institutions.
3. Describe needs of referring providers and diagnostic imagers to access images at the point of care.
4. Analyze technical issues and possible solutions for implementing image interoperability beyond your institution.

Visit the Exhibit Hall

5:00 pm – 6:00 pm

Roundtable: Visualization Advances

5:00 pm – 6:00 pm

Exhibit Hall – Shared Learning Community

Moderator: **William W. Boonn, MD**; University of Pennsylvania Health System

In the Visualization Advances roundtable, we will discuss workflow challenges in incorporating advanced visualization tools into current radiology IT infrastructure, compare current and future architecture. In addition, we will discuss infrastructure for advanced visualization, the challenges of enterprise distribution of 3D and advanced visualization results, as well as debate the needs of a 3D Lab in today's imaging department.

Objectives:

1. Review new tools for manipulation and display of large data sets.
2. Discuss process for improving efficiency in the interpretation process.

CIIP Study Group

5:00 pm – 6:00 pm

Exhibit Hall – Shared Learning Community

Are you planning to take the ABII CIIP examination within the next year? If so, the CIIP Study Groups are exactly what you need. Join other IIPs to exchange knowledge and find out how others are studying for the IIP Certification exam. CIIP study groups will offer informal peer-to-peer interaction; Q&As; networking opportunities; as well as a variety of study tips and resources available to SIIM IIPs.

Sign up for study groups will be available at the registration desk. There is no additional fee, however space will be limited.

SATURDAY

Saturday June 5

Attendee Registration: 7:30 am – 5:00 pm

Exhibit Hall Hours: 9:30 am – 1:00 pm

2010 Practical Informatics for the Imaging Physician Bootcamp Part 1- PACS for the Nuclear Family

8:00 am – 10:30 am

Meeting Room: 101 FG

Back by popular demand, the Imaging Physician Bootcamp will focus on the aspects of imaging informatics that every physician, regardless of specialty should know. Join other physician attendees as they discover the fundamentals of the latest up-to-date solutions for current workflow and communication challenges. New this year will be the inclusion of veterinary science, in addition to pathology and radiology. A must attend for ALL physicians!

Keeping your Eyes on the Road: Digital Dashboards Streamline Data Management

Paul G. Nagy, PhD

Director of Informatics Research

University of Maryland School of Medicine

Saving your Body (and your Mind): Redesigning the Digital Reading Environment

Eliot L. Siegel, MD

Chief of Imaging

VA Maryland Healthcare System

Divorce Counseling: Changing PACS

Steve C. Horii, MD

Clinical Director, Medical Informatics Group

University of Pennsylvania Health System

So Many Images, So Little Time: Advanced Imaging Techniques for the Enterprise

Adam E. Flanders, MD

Professor, Department of Radiology

Thomas Jefferson University Hospital

**Cost is included in general meeting registration fee.*

Image Sharing and Accessibility

Learning Track 7: Imaging Center PACS

Applied Learning Session/Vendor Tie-in Session

8:00 am – 9:30 am

Meeting Room 200

The capability to seamlessly share image data between hospitals or imaging facilities has not kept pace with the current advances in digital medical imaging. Transportation of patient film jackets between institutions/facilities by patients or couriers has given way to physical exchange of disposable media (CDs, DVDs, paper reports) by patients. While CDs were initially hailed as a technical innovation over film, their value as a film substitute has rapidly diminished by clinicians and radiologists. Inconsistent use of standards, poorly designed software/user interfaces and inability to readily import and match foreign media into PACS are commonly cited for disappointing experiences with CDs in clinical practice. Secure and reliable network transport of imaging studies between disparate facilities is considered the next natural evolutionary step in providing a comprehensive historic patient imaging record to any PACS workstation.

The cross-enterprise document sharing for imaging (XDSi) profile was created by the Integration of the Healthcare Enterprise (IHE) initiative to provide an industry blueprint which creates an environment through which image exchange is possible. The XDS profile forms the infrastructure of many of the Health Information Exchanges (HIE) that have been implemented or are under development today. New mandates from the federal government are now urging health care organizations to focus on seamless and secure solutions for movement of health care records between providers and provider networks to minimize waste and medical errors. Paramount to these initiatives is the concept of a patient-centric health care record in which the patient has electronic control of all of their records. In this session, panelists will discuss the technical challenges of image sharing and potential vendor solutions that are currently available including the plans for the RSNA/NIBIB imaging sharing demonstration. Portions of the session will be devoted to encouraging audience participants to engage the panel of experts in lively discussion on these controversial topics.

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Faculty:

David A. Clunie, MD; RadPharm

Keith J. Dreyer, DO, PhD; Massachusetts General Hospital

Bradley J. Erickson, MD, PhD, FSIIM; Mayo Clinic, Rochester

David S. Mendelson, MD; The Mount Sinai Hospital

Vendors:

InSite One, Inc.

NovaRad Corp.

Objectives:

1. Recognize the current limitations of image data sharing between facilities using current technologies (e.g. CD/DVD).
2. Understand how cross enterprise image sharing can improve patient care and reduce cost of care.
3. Appreciate how a patient centric EHR can be used to facilitate movement of images between health care providers.

Imaging in the Other 'Ologies'

Learning Track 8: Image-Intensive Specialties

Educational Session

8:00 am – 9:30 am

Meeting Room 101HIJ

The educational session will include an introduction to the image intensive specialties outside of radiology. An initial description of imaging informatics inside and outside of radiology will be followed by more detailed discussions of imaging informatics issues involved in cardiology and veterinary medicine. The session will also include a discussion of image utilization with collaboration tools.

Faculty:

Michael Bailey, DVM; Banfield, The Pet Hospital

Bruce E. Bray, MD; University of Utah School of Medicine

Richard H. Wiggins, III, MD; University of Utah Health Sciences Center

Objectives:

1. Gain an understanding of the importance of image intensive specialties outside of radiology, and the specific imaging issues of these specialties and how they differ from radiology productivity and workflow issues.

2. Recognize the importance of the expansion of imaging informatics to the inclusion of image incorporation in systems outside of PACS.

Visit the Exhibit Hall

9:30 am – 10:15 am

Advanced Visualization Technologies Panel

9:30 am – 10:15 am

Innovation Theater

Exhibit Hall – Shared Learning Community

Roundtable: I Want That... Cool New Gadgets

9:30 am – 10:15 am

Exhibit Hall – Shared Learning Community

Moderator: **Paul G. Nagy, PhD**; University of Maryland School of Medicine

Objectives:

1. Review 'cool' tools and new ideas in the field of imaging informatics.
2. Discuss how these tools and ideas provide unique approaches to everyday problems.
3. Analyze outside the box approaches to improving patient care and informatics.

Imaging Center PACS 24x7

Learning Track 7: Imaging Center PACS

Educational Session

10:15 am – 11:45 am

Meeting Room 101HIJ

Planning for a PACS implementation requires careful thought about future needs, as well as considering needs for future growth despite a lack of current facilities. While workflow within imaging centers often mirrors that of larger academic centers, specific needs of radiologists, technologists and referring clinicians often dictate different solutions. IT departments within imaging centers may use open source solutions to fill specific needs where commercial software is too expensive. Additionally, Imaging Centers frequently lack specialized IT and

SATURDAY

clinical resources. This IIPs and IT staff must follow a generalist model to handle different challenges. Because imaging centers frequently stand alone and lack collaborative relationships with other institutions, IIPs and other staff may not have access to shared community information about digital imaging. This can be successfully addressed via the formation of a local user group to link together IIPs from different institutions and with different platforms to enable a large pool of local knowledge and support. Such a user group can also provide the first steps towards image exchange across a metropolitan area.

Faculty:

Kerry Cox, PhD, CIO; Mountain Medical Physician Specialists

Arne Meis, NREMT-P; Jefferson Radiology

R. Todd Thomas, CIO; Austin Radiology Associates MSO, LLC

James T. Whitfill, MD; Scottsdale Medical Imaging

Objectives:

1. Recognize the unique workflow challenges of digital imaging within an imaging center environment and review sample solutions.
2. Understand different approaches for IT solutions to digital imaging within selected imaging centers.

Practical Strategies for Multi-Specialty Imaging

Learning Track 8: Image-Intensive Specialties

Applied Learning Session

10:15 am – 11:45 am

Meeting Room 200

This session will serve as an “ask the Experts” formatted discussion, allowing for more details of the important imaging informatics topics of these image intensive specialties, as well as image use outside of PACS. This interactive session will allow the audience to interact with specialists in these image intensive fields to explore the similarities and differences of their imaging informatics problems. These specialties each have unique problems to solve in their own transition from hard copy to filmless image utilization and incorporation into data systems. There are also important issues of the utilization of images existing outside of PACS, such as DICOM and non-DICOM images, and their

integration into EMRs, image visualization, and collaboration tools. Imaging informatics is expanding outside the historical discussion of solely the radiology department, to include not only surgical specialties, but also cardiology, pathology, ophthalmology, and life science imaging.

Faculty:

Katherine P. Andriole, PhD, FSIM; Brigham & Women’s Hospital, Harvard Medical School

Michael Bailey, DVM; Banfield, The Pet Hospital

Bruce E. Bray, MD; University of Utah School of Medicine

Richard H. Wiggins, III, MD; University of Utah Health Sciences Center

Objectives:

1. Analyze vital informatics issues of surrounding various specialties and the use of images outside of PACS.
2. Discuss informatics issues in image intensive specialties.

2010 CIIP Forum: New Today, Planning for Tomorrow – Part 1

10:15 am – 11:45 am

Meeting Room 101FG

Last year’s CIIP Forum was a fruitful success. This year’s forum, broken into two sessions on Saturday, will pick up where last year’s forum left off, focusing on providing CIIPs with information above and beyond the basics. In addition, these sessions will focus on providing CIIPs the latest cutting edge information in imaging informatics, an ABII Board Report and a CIIP Q&A.

**This session has been designed for ABII Certified IIPs only.*

Scientific Poster and Demonstration Session

10:15 pm – 12:15 pm

In the Exhibit Hall

Co-Chairs:

Wyatt M. Tellis, PhD; University of California, San Francisco

Scott L. DuVall; University of Utah

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A Case study on the Challenges of Implementing a Regional Digital Imaging Repository
Babette MacRae, *London Health Sciences Centre*

A Free and Customized Online Tool to Facilitate Quick and Accurate Staging of Common Gastrointestinal Malignancies
Roland Talanow, MD, PhD, *Cleveland Clinic*

A Web-based Program for Instant Creation of Radiological Illustrations
Roland Talanow, MD, PhD, *Cleveland Clinic*

An Easy Solution to Convert Workstation Independently DICOM Files into Other Standard Image Formats Including a How-To Tutorial
Roland Talanow, MD, PhD, *Cleveland Clinic*

An Efficient Recovery Mechanism for Restoration of Image Contents in Teleconsultation
Cheng-Hsiung Wang, *National Cheng Kung University*

Automated Main Arterial Region Separation in Brain MR Angiography for Improved Clarity and Efficiency in the Clinical Visualization Process
Peter J. Schommer, *IBM Medical Imaging Informatics Innovation Center*

Automatic Determining Mammographic Image View and Laterality in the Population Screening Environment
Boris Klyachko, *QBF Computer Services*

Color stability of Liquid Crystal Displays used for Medical Imaging
Alisa I. Walz-Flannigan, PhD, *Mayo Clinic*

Dynamic Radiology Workflow Allocation System within the Air Force Medical Service
Rasu B.K. Shrestha, MD, MBA, *University of Pittsburgh Medical Center*

eLearning-Radiology.com: Quality Assurance of Radiology Education Material in the Internet
Roland Talanow, MD, PhD, *Cleveland Clinic*

Evaluation of Radiologist Preferences for Alternative Colors for Monochrome Display of Images in Conventional Radiology and CT
Fred E. Weiss, MD, DPT, *University of Maryland Medical Center*

Extending the Availability of a Large Multi-Institutional Oncology Imaging Archive to Remote Reviewers
Richard Hanusik, *Quality Assurance Review Center*

Integrating Open Source PACS in Research One Step at a Time
Nipun Patel, MS, CIIP, *Beth Israel Deaconess Medical Center*

Improving Concept Extraction from Radiology Reports through Semantic Class Bootstrapping
Scott L. DuVall, George E. Wahlen, *VA Medical Center*

Importance of Ontologies for Rapid Retrieval of Multimedia Medical Content from Large Medical Systems
Ruth E. Dayhoff, MD, *Department of Veterans Affairs*

Medical-Dental Clinical Data Integration for PACS
Valerie J.H. Powell, PhD, RT(R), *Robert Morris University*

Overcoming the Film-based Mindset in a Technology-enabled System Through the Analysis and Conscious Design of Radiology Workflow
Christopher Trimble, *University of California, Irvine, Medical Center*

Parallel Medical Imaging Transmission
Rouzbeh Maani, *University of Manitoba, TR Labs*

Protecting Your Investment: The Importance of 'Software Design Patterns' in Enterprise Imaging Application Development
Rasu B.K. Shrestha, MD, MBA, *University of Pittsburgh Medical Center*

Putting the 'C' Back in PACS: A HIPAA-Compliant Instant Messaging Tool for Diagnostic Imaging
Ross Filice, MD, *University of Maryland*

Reusable Components in Imaging Informatics
Marc D. Kohli, MD, *Indiana University School of Medicine*

Single Point Data Entry - Key Factor to Radiology Data Integrity
Boris Klyachko, *QBF Computer Services*

Social Networking Service for Development of Multilingual RadLex of East Asian Languages Linked

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with Radiology Image Search Engines
Norio Nakata, MD, *Jikei University School of Medicine*

Super-Resolution Applications in Digital Radiography
Leonard F. Berliner, MD, *New York Methodist Hospital*

Supporting PACS Infrastructure with FOSS
Todd L. French, *Mayo Clinic*

The Application of the Epub of Medical Image Film in a CT Workflow
Shu-Feng Fan, MD, *Taizhou Hospital affiliated to Wenzhou Medical College*

Visit the Exhibit Hall

11:45 am – 1:00 pm

Roundtable: Radiologist Cockpit

11:45 am – 12:45 pm

Exhibit Hall – Shared Learning Community

Moderator: **Eliot L. Siegel, MD, FSIIM**; University of Maryland School of Medicine, VA Maryland Health Care System

Objectives:

1. Review ways to bring all the tools needed to the radiologist
2. Explore new ideas for reducing the “out of chair experience” for the radiologist.

Exhibit Hall Closes

1:00 pm

2010 Practical Informatics for the Imaging Physician Bootcamp – Part 2

1:00 pm – 2:30 pm

Meeting Room: 101 HIJ

Back by popular demand, the Imaging Physician Bootcamp will focus on the aspects of imaging informatics that every physician, regardless of specialty should know. Join other physician attendees as they discover the fundamentals of the

latest up-to-date solutions for current workflow and communication challenges. New this year will be the inclusion of veterinary science, in addition to pathology and radiology. A must attend for ALL physicians!

PACS for the Extended Family: Digital Imaging Issues in Pathology

TBD

PACS for the Four-Legged Family: Digital Imaging in Veterinary Care

TBD

Marriage Counseling: Working Together to Maximize Efficiency

Keith J. Dreyer, DO, PhD, Vice Chair, Enterprise Medical Imaging
Massachusetts General Hospital

**Cost is included in general meeting registration fee.*

Scientific Session

Learning Track 8: Image Intensive Specialties

1:00 pm – 2:30 pm

Meeting Room 200

Co-Chairs:

Paul J. Chang, MD, FSIIM; University of Chicago, Pritzker School of Medicine

Marc D. Kohli, MD; Indiana University of Medicine

Creation and Management of a Lung Cancer Patient Database Through a Campus Enterprise Data Warehouse

Vivek Dave, MD, *Northwestern University*

A Web-based Flexible Communication System in Radiology

Alexander V. Rybkin, MD, *UCSF/San Francisco General Hospital*

Veterinary PACS: Pets are Family

Erin Kilpatrick, DVM, *Banfield, The Pet Hospital*

A Federated PACS Platform - Towards True Imaging Interoperability

Rasu B.K. Shrestha, MD, MBA, *University of Pittsburgh Medical Center*

Using the caBIG Workspace Tools to Re-engineer the

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Radiology Structured Report for the Era of Personalized Medicine
Eliot L. Siegel, MD, FSIIM, *VA Maryland Healthcare System*

School of Medicine,
VA Maryland Health Care System
Richard H. Wiggins, III, MD; University of Utah Health Sciences Center

2010 CIIP Forum: New Today, Planning for Tomorrow – Part 2

1:00 pm – 2:30 pm
Meeting Room 101FG

Last year's CIIP Forum was a fruitful success. This year's forum, broken into two sessions on Saturday, will pick up where last year's forum left off, focusing on providing CIIPs with information above and beyond the basics. In addition, these sessions will focus on providing CIIPs the latest cutting edge information in imaging informatics, an ABII Board Report and a CIIP Q&A.

**This session has been designed for ABII Certified IIPs only.*

Closing General Session Value Innovation through Imaging Informatics

3:00 pm – 4:30 pm
Meeting Room 101HIJ

In the world of outsourcing, you don't become a commodity. This year's Closing Session, Value Innovation through Imaging Informatics, will pick up where last year's intensely productive closing session, The Flattened World as the New Enterprise left off, focusing on how to differentiate yourself from the rest of the pack.

Faculty:

Moderator:
Paul J. Chang, MD, FSIIM; University of Chicago, Pritzker School of Medicine

Panel:
J. Raymond Geis, MD; Advanced Medical Imaging Consultants, PC
Steven C. Horii, MD, FSIIM; University of Pennsylvania Health System
Eliot L. Siegel, MD, FSIIM; University of Maryland

Objectives:

1. Describe how IIPs provide a valuable service to institutions, hospitals and imaging centers.
2. Analyze how to differentiate one's self to ensure that IIPs continue to be a staple, not a commodity.

SIIM Networking Receptions

5:00 pm – 7:00 pm
Hilton Minneapolis Hotel – The Symphony Ballroom

SUNDAY

Sunday June 6

Attendee Registration: 7:00 am – 10:00 am

Roundtable: Resident Involvement in SIIM

7:00 am – 8:00 am
Room 101A

Moderator: **Katherine P. Andriole, PhD, FSIIM**; Brigham & Women's Hospital, Harvard Medical School

Objectives:

1. Review current issues in imaging informatics and how they affect the imaging physician.
2. Discuss advantages of applying imaging informatics best practices to imaging practices.

Roundtable: Imaging Center

7:00 am – 8:00 am
Room 101B

Moderator: **James Whitfill, MD, CIO**; Scottsdale Medical Imaging

While there are universal commonalities regarding imaging informatics, outpatient imaging centers often have different resources and challenges from hospitals and integrated healthcare delivery systems. At SIIM, the Imaging Center roundtable provides a forum to share best practices and review digital imaging challenges with SIIM colleagues from other outpatient practices. Specifically we will talk about how to measure and improve efficiency using tools like RIS, PACS and VR, discuss the role of data warehouses and business intelligence to analyze these data, as well as see how these measurements can aid in the marking of an imaging center practice.

Objectives:

1. Review opportunities for utilizing imaging informatics to achieve improved efficiency in the Imaging Center.
2. Discuss ideas for marketing an imaging center practice by utilizing data to determine areas of opportunity.

Roundtable: Hospital Informatics

7:00 am – 8:00 am
Room 101C

Moderator:

Richard L. Kennedy, MSc, CIIP; Kaiser Permanente Medical Group, Sacramento

Objectives:

1. Discuss current issues for the hospital informatics department.
2. Review ways new advancements in imaging informatics have been implemented and either fail or succeed.

Tools of the Trade Learning Series Part 1: Introduction to ITK/VTK, from an XIP™ Perspective

Learning Track 4: Advanced Visualization

8:00 am – 10:00 am
Meeting Room 101H

The eXtensible Imaging Platform (XIP™) provides a reference implementation of the proposed DICOM Application Hosting Standard, along with visual programming tools and libraries that facilitate the rapid development of both stand-alone and hosted imaging applications. In this hand-on session we will guide you in creating the processing logic and a simple GUI for a basic medical imaging application using the XIP Builder™ visual editor and modules drawn from the XIP Libraries™. We will then show you how to deploy that application in either a stand-alone mode, or as a DICOM Hosted Application that can be launched from the XIP Host™ system, or any other Hosting System that implements the DICOM Application Hosting interfaces. The session closes with a guided tour of the capabilities available in the XIP Host™, including its implementation of several IHE® profiles.

Faculty:

Lawrence R. Tarbox, PhD; Washington University School of Medicine

Notes:

1. The two parts of this learning lab are designed to complement each other, and we encourage participants to join both

SUNDAY

parts for the most complete picture of the ITK/VTK/XIP combination of tools. However, each part can be attended independent of the other, should time constraints or other commitments prevent you from attending both parts.

2. Those who bring their own computing equipment will have the opportunity to load the ITK/VTK/XIP tools on their computers and to experiment with the tools during this 'hands-on' learning lab. In order to streamline the process of installing the software, we encourage people to either:
 - a. Install XIP prior to coming to the meeting, using links and instructions provided on <http://www.openxip.org> (under construction), at <http://erl.wustl.edu/research/xip.html>, or at <https://cabig.nci.nih.gov/tools/XIP>. Note that a new release of the software will be coming at SIIM 2009 time, so it is best to install or update the week before SIIM, if possible.
 - b. Install XIP during SIIM 2009, but prior to coming to the learning lab. Please stop by the caBIG® booth with your computer, and we will help you install it there, or come to the classroom a few minutes before the start of class.
3. We will be projecting all activities, for those who just want to watch and learn.

Objectives:

1. Develop a working knowledge of the uses of XIP.
2. Understand practical uses of XIP.

Mining Databases Using SQL

8:00 am – 10:00 am
Meeting Room 101I

SQL stands for Structured Query Language and is a standard language for accessing and manipulating databases. SQL is an ANSI standard which lets you access and manipulate databases. This session will provide attendees with the opportunity to see first-hand how using SQL can improve searches within a database.

Faculty:

J. Noah Beckett; Johns Hopkins University

Objectives:

1. Describe how using SQL can improve database searches.
2. Develop a working knowledge of SQL.

Maximizing Workflow Using OsiriX

8:00 am – 10:00 am
Meeting Room 101J

OsiriX is an open source image processing software dedicated to DICOM images (".dcm" / ".DCM" extension) produced by imaging equipment (MRI, CT, PET, PET-CT, SPECT-CT, Ultrasounds, ...). It is able to receive images transferred by DICOM communication protocol from any PACS or imaging modality (C-STORE SCP/SCU, and Query/Retrieve : C-MOVE SCU/SCP, C-FIND SCU/SCP, C-GET SCU/SCP). Attendees in this session will gain a foundational, working knowledge of this software and how it can most effectively be used in one's institution.

Faculty: **TBD**

Objectives:

1. Describe how using OsiriX can maximize workflow processes.
2. Gain hands-on experience using OsiriX.

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Part 2: Building and Hosting Applications Using XIP™ Tools

Learning Track 4: Advanced Visualization

10:30 am – 12:30 pm

Meeting Room 101H

The eXtensible Imaging Platform (XIP™) provides a reference implementation of the proposed DICOM Application Hosting Standard, along with visual programming tools and libraries that facilitate the rapid development of both stand-alone and hosted imaging applications. In this hand-on session we will guide you in creating the processing logic and a simple GUI for a basic medical imaging application using the XIP Builder™ visual editor and modules drawn from the XIP Libraries™. We will then show you how to deploy that application in either a stand-alone mode, or as a DICOM Hosted Application that can be launched from the XIP Host™ system, or any other Hosting System that implements the DICOM Application Hosting interfaces. The session closes with a guided tour of the capabilities available in the XIP Host™, including its implementation of several IHE® profiles.

Faculty:

Lawrence R. Tarbox, PhD; Washington University School of Medicine

Notes:

1. The two parts of this learning lab are designed to complement each other, and we encourage participants to join both parts for the most complete picture of the ITK/VTK/XIP combination of tools. However, each part can be attended independent of the other, should time constraints or other commitments prevent you from attending both parts.
2. Those who bring their own computing equipment will have the opportunity to load the ITK/VTK/XIP tools on their computers and to experiment with the tools during this 'hands-on' learning lab. In order to streamline the process of installing the software, we encourage people to either:
 - a. Install XIP prior to coming to the meeting, using links and instructions provided on <http://www.openxip.org> (under construction), at

<http://erl.wustl.edu/research/xip.html>, or at

<https://cabig.nci.nih.gov/tools/XIP>.

Note that a new release of the software will be coming at SIIM 2009 time, so it is best to install or update the week before SIIM, if possible.

- b. Install XIP during SIIM 2009, but prior to coming to the learning lab. Please stop by the caBIG® booth with your computer, and we will help you install it there, or come to the classroom a few minutes before the start of class.

4. We will be projecting all activities, for those who just want to watch and learn.

Objectives:

1. Develop a working knowledge of the uses of XIP.
2. Understand practical uses of XIP.

Ergo-Friendly: Hands-on Ergonomics in the Workplace

10:30 am – 12:30 pm

Meeting Room 101J

This session will emphasize the simple, practical things that you can do to reduce your risk of repetitive motion injury and other physical problems resulting from long hours at a computer or workstation. The format will be a lecture session followed by demonstrations by the faculty with participation from members of the audience.

Faculty:

Steven C. Horii, MD, FSIIM; University of Pennsylvania Health System

Objectives:

1. Learn about alternative input/control devices for workstations and whether or not they have been adopted.
2. Understand the principles behind "personal ergonomics" and how you can tailor your workspace to reduce your risk of work-related injuries.
3. Participate in a demonstration of setting up the furniture and workstation components in your workspace to best suit you.

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Hacking HL7 with Mirth

10:30 am – 12:30 pm

Meeting Room 101I

Health Level Seven (HL7) is a standard for exchanging healthcare information that is nearly ubiquitous throughout healthcare and is used in several IHE integration profiles. This course will give an overview of HL7 and introduce Mirth Connect. Mirth Connect is an open source standards-based healthcare integration engine. Mirth Connect facilitates the routing, filtering, and transformation of messages between health information systems over a variety of protocols (like LLP, Database, and FTP) with support for numerous standards (such as HL7, XML, and DICOM). Attendees in this session will gain a foundational, working knowledge of this software and how it can most effectively be used in one's institution.

Faculty:

Marc D. Kohli, MD; Indiana University School of Medicine

Objectives:

1. Describe the HL7 standard and how it's used in healthcare.
2. Compare and contrast HL7 v2.x and HL7 v3.0 standards
3. Describe how using Mirth can be used to improve workflow and build innovative tools.
4. Develop a working knowledge of Mirth.

**No additional fees for attending these sessions.*

KEY:

* Student papers eligible for the Roger A. Bauman Student Paper Award

SIIM 2009 New Investigator Travel Award Recipients