

2013 RSNA (Filtered Schedule)

**Saturday, November 30, 2013**

01:00-05:00 PM • [SPGW01](#) • Room: E253AB • NIH Grantsmanship Workshop

01:00-05:00 PM • [SPRW01](#) • Room: E253CD • RSNA/ARR Study Section Reviewers Workshop What It Takes to Be an Expert Reviewer for the NIH: The Peer Review ...

**Sunday, December 01, 2013**

02:00-03:30 PM • [RC125](#) • Room: S104A • Quantitative Imaging: Current and Future Practice in Radiology and Clinical Trials

**Monday, December 02, 2013**

04:30-06:00 PM • [ICIW24](#) • Room: S401AB • Using RSNA Clinical Trial Processing (CTP) Software for Clinical Trials and Research Applications

**Tuesday, December 03, 2013**

10:30-12:00 PM • [ICIW31](#) • Room: S401AB • Overview of RSNA's Teaching File Software (MIRC®)

**Thursday, December 05, 2013**

08:30-10:00 AM • [RC654](#) • Room: S401AB • Advanced Data Analysis with Excel for Research and for Practicing Quality Improvement (Hands-on Workshop)

**Friday, December 06, 2013**

08:30-10:00 AM • [RC854](#) • Room: S401AB • Basic Tools and Tricks for Data Collection and Organization for Practice Quality Improvement Projects and for ...

**NIH Grantsmanship Workshop**

**Saturday, 01:00 PM - 05:00 PM • E253AB**

RS

[Back to Top](#)

**SPGW01** • AMA PRA Category 1 Credit™:3.75 • ARRT Category A+ Credit:4

**Moderator**

**Gayle E Woloschak**, PhD

LEARNING OBJECTIVES

1) Gain greater understanding of the NIH grants process: a. understand the process for preparing a research or training grant application. b. learn the elements of a competitive grant application. 2) Gain insight into the new features of the NIH review process. 3) View the review process in action through a mock study section.

**SPGW01A • Welcome and Introductory Remarks**

**Gayle E Woloschak** PhD (Presenter)

LEARNING OBJECTIVES

View learning objectives under main course title.

**SPGW01B • Preparing an R01 Research Application**

**Pratik Mukherjee** MD, PhD (Presenter) \*

LEARNING OBJECTIVES

View learning objectives under main course title.

**SPGW01C • Preparing K Awards**

**Ruth C Carlos** MD, MS (Presenter)

LEARNING OBJECTIVES

View learning objectives under main course title.

**SPGW01D • Clinical Trials in Applications**

**Michael W Vannier** MD (Presenter)

LEARNING OBJECTIVES

View learning objectives under main course title.

**SPGW01E • Program Perspectives**

**Belinda Seto** PhD (Presenter)

LEARNING OBJECTIVES

View learning objectives under main course title.

**SPGW01F • The Process of Review**

**Gayle E Woloschak** PhD (Presenter)

LEARNING OBJECTIVES

View learning objectives under main course title.

**SPGW01G • Mock Study Section**

LEARNING OBJECTIVES

View learning objectives under main course title.

## SPGW01H • Questions to the Faculty

Gayle E Woloschak PhD (Presenter)

### LEARNING OBJECTIVES

View learning objectives under main course title.

## SPGW01I • Summary and Evaluation Form

Gayle E Woloschak PhD (Presenter)

### LEARNING OBJECTIVES

View learning objectives under main course title.

## RSNA/ARR Study Section Reviewers Workshop What It Takes to Be an Expert Reviewer for the NIH: The Peer Review Process Demystified

Saturday, 01:00 PM - 05:00 PM • E253CD

[Back to Top](#)

RS

SPRW01 • AMA PRA Category 1 Credit <sup>TM</sup>:3.75 • ARRT Category A+ Credit:4

### Moderator/Presenter

Elizabeth A Krupinski , PhD

### Moderator/Presenter

Carolyn C Meltzer , MD \*

### Presenter

Kathryn A Morton , MD

### LEARNING OBJECTIVES

1) Identify the different grant mechanisms available within the NIH and the requirements for submitting to a particular mechanism. 2) List the criteria used in the evaluation of NIH grants and what happens prior to and during a study section review meeting. 3) Articulate the benefits of being a reviewer for the NIH and the different ways that one can be a reviewer. 4) Observe a mock study section presented by the NIH with experienced reviewers evaluating at least two grant mechanisms.

### ABSTRACT

This workshop designed to provide information to radiologists and imaging scientists interested in serving as expert peer reviewers on NIH and other grant study sections. Although a significant amount of information is available on how the review process works, many investigators (new and experienced) have questions that are best answered in person by those who have first-hand experience. Attendees will be provided with a clearer understanding of the review process, enabling them to be better prepared to serve as reviewers on NIH Study Sections or other grant-review panels.

## SPRW01A • Welcome and Introductory Remarks

### LEARNING OBJECTIVES

View learning objectives under main course title.

## SPRW01B • The New Peer Review Process: Changes, Challenges, and Opportunities

### LEARNING OBJECTIVES

View learning objectives under main course title.

## SPRW01C • Review Criteria: Varying Emphasis by Grant Mechanism

### LEARNING OBJECTIVES

View learning objectives under main course title.

## SPRW01D • Getting on a Study Section: How, Why, and Which One?

### LEARNING OBJECTIVES

View learning objectives under main course title.

## SPRW01E • Panel Discussion/QandA

### LEARNING OBJECTIVES

View learning objectives under main course title.

## SPRW01F • Reviewing for Other Organizations

## SPRW01G • Mock Study Section (Joint Session with NIH Grantsmanship Workshop Faculty)

### LEARNING OBJECTIVES

View learning objectives under main course title.

## SPRW01H • Closing Comments

### LEARNING OBJECTIVES

View learning objectives under main course title.

## Quantitative Imaging: Current and Future Practice in Radiology and Clinical Trials

Sunday, 02:00 PM - 03:30 PM • S104A

[Back to Top](#)

RS PH BQ

RC125 • AMA PRA Category 1 Credit <sup>TM</sup>:1.5 • ARRT Category A+ Credit:1.5  
Director

## RC125A • RSNA Perspective and Initiatives

Daniel C Sullivan MD (Presenter)

### LEARNING OBJECTIVES

1) Describe the benefits of implementing more quantitative image interpretation in clinical radiology practice. 2) Understand the activities that RSNA supports to help move the profession of radiology from a primarily qualitative interpretation paradigm to a more quantitative-based interpretation model. 3) Describe the challenges of extracting uniform, standardized quantitative measures from clinical imaging scans.

### ABSTRACT

The RSNA Strategic Plan strives to advance the radiological sciences and foster the development of new technologies in part by promoting the quantification of imaging results. The added value of quantification in both research and clinical environments is likely to increase as health care initiatives place increased pressure on radiologists to provide decision support for evidence-based care. There remain substantial barriers to the widespread use of quantitative measures in clinical radiology including inherently large number of variables that impede validation of specific metrics, diversity of proprietary industry platforms, and lack of acceptance by radiologists. A critical barrier to the implementation of QI in radiology is the lack of standardization among vendor platforms. Collaboration in the pre-competitive space is challenging yet crucial to address standardization, and integrating quantitative measurement into workflow will be necessary for wide adoption. The obstacles to overcome with practicing radiologists are a distrust of the reliability of QI and the fear of losing value of radiologists' expertise through automation and commoditization. The Quantitative Imaging Biomarkers Alliance (QIBA) was officially launched in 2007 as a means to unite researchers, healthcare professionals, and industry stakeholders in the advancement of quantitative imaging. QIBA's mission is to: Improve the value and practicality of quantitative biomarkers by reducing variability across devices, patients and time. QIBA's six active technical committees (DCE-MRI, fMRI, FDG-PET, volumetric CT, COPD-Asthma, US shear-wave speed) develop QIBA Profiles (i.e., documents) of standardized specifications for image acquisition, collection, and post-processing.

## RC125B • NCI's Quantitative Imaging Network (QIN): Progress and Impact on Clinical Trials

Paula M Jacobs PhD (Presenter)

### LEARNING OBJECTIVES

1) Describe various methods for prediction and measurement of therapy response. 2) Understand which imaging modalities and software tools are best suited for this clinical goal. 3) Understand the complexity of quantitative imaging methodology and how to compare the performance of different. 4) Understand how NCI Research Networks function to create a consensus on imaging methodology and public resources to meet these aims. 5) Learn about NCI funding opportunities for this research area.

## RC125C • American College of Radiology Imaging Network/Eastern Cooperative Oncology Group (ACRIN/ECOG) Perspective

Mitchell D Schnall MD, PhD (Presenter)

### LEARNING OBJECTIVES

1) Identify the importance of quantitative imaging principles in the setting of clinical trials. 2) Identify conditions required for successful application of quantitative imaging principles. 3) Analyze quantitative imaging techniques and apply this knowledge to protocol development in the setting of clinical trials.

## Using RSNA Clinical Trial Processing (CTP) Software for Clinical Trials and Research Applications

Monday, 04:30 PM - 06:00 PM • S401AB



[Back to Top](#)

ICIW24 • AMA PRA Category 1 Credit™:1.5 • ARRT Category A+ Credit:1.5

John Perry  
Justin Kirby

### LEARNING OBJECTIVES

1) Learn how to install, configure, and use the RSNA's CTP software for clinical trials and research dataset processing. 2) Learn about the unique challenges of DICOM image de-identification and how to utilize CTP to implement the Attribute Confidentiality Profile (DICOM PS 3.15: Appendix E) to properly de-identify DICOM images. 3) Learn how to customize CTP to process and transfer imaging studies according to the requirements of common research study scenarios.

### ABSTRACT

Clinical Trial Processor (CTP) is a highly configurable and extensible stand-alone program that provides many features necessary for managing imaging as part of a clinical trial or research study. In this course participants will be provided with an overview of CTP's functionality, and then perform hands-on image processing of sample data based on common research and clinical trial scenarios. Additionally, participants will receive an overview of the unique challenges associated with de-identifying DICOM images and learn about using CTP to implement the DICOM standard's guidance for how best to ensure removal of PHI without compromising the utility of the data for research.

URL's

<http://rsna.org/ctp.aspx>

<https://wiki.cancerimagingarchive.net/display/Public/De-identification+Knowledge+Base>

## Overview of RSNA's Teaching File Software (MIRC®)

Tuesday, 10:30 AM - 12:00 PM • S401AB



[Back to Top](#)

ICIW31 • AMA PRA Category 1 Credit™:1.5 • ARRT Category A+ Credit:1.5

Krishna Juluru , MD  
William J Weadock , MD \*

### LEARNING OBJECTIVES

1) Learn the features of the RSNA's MIRC software for teaching files. 2) Learn how to download and install the software. 3) Learn to use the RSNA MIRC Wiki to obtain documentation on the software.

## Advanced Data Analysis with Excel for Research and for Practicing Quality Improvement (Hands-on Workshop)

Thursday, 08:30 AM - 10:00 AM • S401AB



[Back to Top](#)

**RC654** • AMA PRA Category 1 Credit™:1.5 • ARRT Category A+ Credit:1.5

**Andrea J Frangos**, MPH  
**Jaydev K Dave**, PhD, MS

#### LEARNING OBJECTIVES

1) Describe techniques for creating a spreadsheet to allow trouble-free data analysis. 2) Describe tools for performing basic descriptive statistics. 3) Identify how to perform simple statistical tests. 4) Identify statistical tasks that require more sophisticated software.

#### ABSTRACT

A spreadsheet program is commonly employed to collect and organize data for practicing quality improvement, for research, and for other purposes. In this refresher course, we will demonstrate how to create a spreadsheet to allow trouble-free data analysis. We will then review an efficient approach for data collection. With a sample dataset, we will demonstrate how basic descriptive statistics and statistical tests can be performed e.g., t-test, chi-square test, correlation analysis, etc. We will also provide information on other sophisticated software best suited to perform advanced statistical tests and analysis. This course will accomplish its learning objective through hands-on tutorial demonstrations with Microsoft Excel ♦ a spreadsheet program. Familiarity with Microsoft Windows and Microsoft Excel environment will be assumed.

### **Basic Tools and Tricks for Data Collection and Organization for Practice Quality Improvement Projects and for Research Data Management - A Step by Step Approach with Excel (Hands-on Workshop)**

**Friday, 08:30 AM - 10:00 AM • S401AB**

**RS** **IN**

[Back to Top](#)

**RC854** • AMA PRA Category 1 Credit™:1.5 • ARRT Category A+ Credit:1.5

**Andrea J Frangos**, MPH  
**Jaydev K Dave**, PhD, MS

#### LEARNING OBJECTIVES

1) Define the basic structure and functions of a spreadsheet. 2) Learn efficient techniques for data collection in a spreadsheet. 3) Demonstrate key data management skills. 4) Recognize differences between a spreadsheet and a database.

#### LEARNING OBJECTIVES

1. Learn efficient techniques for manipulating data and performing data analysis with a spreadsheet program.
2. Define the basic structure and functions of a database.
3. Learn how to create a simple database for data collection and analysis.
4. Recognize tasks that are more easily accomplished with a database than a spreadsheet.

#### ABSTRACT

A spreadsheet program is commonly employed to collect and organize data for practicing quality improvement, for research, and for other purposes. In this refresher course, we will demonstrate how to format and use a spreadsheet properly for data collection and analysis. We will define the essential structure and function of a spreadsheet and elaborate on the process to create a basic spreadsheet. We will review common errors during data acquisition that may be avoided for streamlining the acquisition process. We will then consider several functionalities of a spreadsheet program that facilitate data management. We will also highlight the differences between a spreadsheet and a database, so that the participants may be able to identify best applications for their tasks.

This course will accomplish its learning objective through hands-on tutorial demonstrations with Microsoft Excel ♦ a spreadsheet program. Familiarity with Microsoft Windows environment will be assumed, but no experience with Microsoft Excel spreadsheet program or formula is necessary.

### **Disclosure Index**

#### **M**

**McNitt-Gray, M. F.** - Institutional research agreement, Siemens AG Research support, Siemens AG

**Meltzer, C. C.** - Board of Directors, ACR Image Metrix

**Mukherjee, P.** - Research Grant, General Electric Company

#### **W**

**Weadock, W. J.** - Owner, Weadock Software, LLC