Day One - Monday, May 2

7:30 AM  Conference Registration

Grand Ballroom Foyer

8:00 AM  Welcome
Chairs:
- Carolyn R. “Bo” Aldigé, Prevent Cancer Foundation
- Thomas M. Baer, PhD, Optical Society of America (OSA), Stanford Photonics Research Center

8:10 AM  Overview and Workshop Goals
  - James L. “Jim” Mulshine, MD, Rush University Medical Center

8:30 AM  Towards the Evaluation of 3D Tumour Volume for Use in Response Assessment
  - Marietta L. J. Scott, PhD, AstraZeneca UK Limited

9:00 AM  Integrating Quantitative Imaging for Screening Case Detection
  - Mathias Prokop, MD, Erasmus University

9:30 AM  Tightening Variance: Role of Phantom Integration in Quantitative Imaging
  - Ricardo S. “Rick” Avila, Kitware, Inc.

10:00 AM  15-Minute Break

10:15 AM  Approach to Biomarker Qualification
  - Enrique E. Aviles, BSME, Critical Path Institute

10:30 AM  RSNA’s QIBA Volumetric CT: Rolling Towards Qualification
  - Andrew J. Buckler, MS, Buckler BioMedical LLC

11:00 AM  Moving to Automated VIA in Clinical Trials: Changes according to Nodule Characteristics
  - David F. Yankelevitz, MD, Mt. Sinai Medical Center

11:30 AM  Toward Quantitative X-ray CT Phantoms of Metastatic Tumors Using Rapid Prototyping Technology
  - Terry S. Yoo, PhD, National Library of Medicine

12:00 PM  Exploring Models for Integrating Quantitative Imaging in a National Infrastructure to Improve Lung Cancer Outcomes: View From Silicon Valley
  - Thomas M. Baer, PhD, Optical Society of America (OSA), Stanford Photonics Research Center
**Day One - Monday, May 2 continued ...**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:30 PM</td>
<td>Lunch</td>
</tr>
<tr>
<td></td>
<td>Kenwood/Montrose/Great Falls Room</td>
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</tbody>
</table>
- Discussion NELSON Cases and Controls: Mathias Prokop, MD, Erasmus University  
- Discussion of I-ELCAP Cases for Algorithm Validation: Claudia I. Henschke, PhD, MD, Mt. Sinai Medical Center  
- Presentation of Batch Image Analysis: Anthony P. Reeves, PhD, Cornell University |
| 2:30 PM | Status of the NCI Quantitative Imaging Network  
- Larry Clarke PhD, National Cancer Institute |
| 2:50 PM | Introduction to Breakout Group Process  
- James L. “Jim” Mulshine, MD, Rush University Medical Center |
| 2:55 PM | 5-minute Break                                                                                     |
| 3:00 – 3:45 PM | Breakout Group Work Session 1  
**Group A: Strategic Planning Accelerating Qualification Through Process Optimization**  
- Facilitators: Ricardo S. “Rick” Avila, Kitware, Inc.  
  Andrew J. Buckler, MS, Buckler BioMedical LLC  
  Marietta L. J. Scott, PhD, AstraZeneca UK Limited  
**Group B: Strategic Planning: Exploring Models for Implementing a National Infrastructure for Quantitative Imaging in Early Lung Cancer Management**  
- Facilitators: Thomas M. Baer, PhD, OSA, Stanford Photonics Research Center  
  Laurie Fenton Ambrose, Lung Cancer Alliance  
  Carolyn R. “Bo” Aldigé, Prevent Cancer Foundation |
| 3:45 PM | 5-minute Break                                                                                     |
| 3:50 PM | CT Imaging Progress with COPD  
- Raul San Jose Estepar, PhD, Brigham and Women’s Hospital – Harvard Medical School |
| 4:10 PM | Quality Control Of Quantitative Lung Imaging In A Multi-center Trial: COPDGen Experience  
- Jered Sieren, BS RT(R) CT MR, University of Iowa |
| 4:30 PM | Quantitative Approaches to the Pathological Evaluation of NSCLC  
- Jessica C. Sieren PhD, University of Iowa |
| 4:50 PM | CT Approach to Measuring Other Tobacco-related Injury During Cancer Screening  
- Claudia I. Henschke, PhD, MD, Mt. Sinai Medical Center |

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Day One - Monday, May 2 continued ...

5:10 PM  
Panel: Lung Cancer and COPD: Collaboration Opportunities with Phantoms Archives and Algorithms
  Chairs:
  - Ricardo S. “Rick” Avila, Kitware, Inc.
  - Raul San Jose Estepar, PhD, Brigham and Women’s Hospital – Harvard Medical School
  - Jered Sieren, BS RT(R) CT MR, University of Iowa
  - Robert J. Nordstrom, PhD, National Cancer Institute (NCI)
  - Anthony P. Reeves, Cornell University

5:30 PM  Meeting Adjourns for the Day

6:30 PM  Departure for Reception and Dinner, the Cosmos Club

If you plan to attend the reception and dinner, please be in the Marriott Bethesda’s lobby no later than 6:15 PM to catch the bus to the Cosmos Club
## Day Two - Tuesday, May 3

### 7:30 AM  Continental Breakfast

**Grand Ballroom Foyer**
- Continental Breakfast

### 8:00 AM  New Image Processing Resources

**Grand Ballroom A & B**
- Anthony P. Reeves, PhD, *Cornell University*

### 8:30 AM  QIBA 1A: Evaluation of Nodule Sizing by Radiologists through CT Phantom Imaging of Synthetic Nodules

**Grand Ballroom A & B**
- Nicholas Petrick, PhD, *U.S. Food and Drug Administration (FDA)*

### 9:00 AM  Tumor Volume and Clinical Outcome - A role for Re-use of High Quality Quantitative Image Databases?

**Grand Ballroom A & B**
- TBD

### 9:30 AM  Personalizing Early Lung Cancer Clinical Trials

**Grand Ballroom A & B**
- Natasha Leighl, MD, *Princess Margaret Cancer Center*

### 10:00 AM  Breakout Group Work Session 2

**Potomac/Bethesda Room**
- **Group A: Strategic Planning: Accelerating Qualification Through Process Optimization**
  - Facilitators: Ricardo S. "Rick" Avila, Kitware, Inc.
  - Andrew J. Buckler, MS, Buckler BioMedical LLC
  - Marietta L. J. Scott, PhD, AstraZeneca UK Limited
- **Group B: Strategic Planning: Exploring Models for Implementing a National Infrastructure for Quantitative Imaging in Early Lung Cancer Management**
  - Facilitators: Thomas M. Baer, PhD, OSA, Stanford Photonics Research Center
  - Laurie Fenton Ambrose, Lung Cancer Alliance

### 11:00 AM  Panel: Image Qualification: Where Are We? Perception and Reality

**Grand Ballroom A & B**
- P. David Mozley, MD, *Merck Pharmaceutical*
- Gary J. Kelloff, PhD, *National Cancer Institute (NCI)*
- Andrew J. Buckler, MS, *Buckler BioMedical LLC*
- Enrique E. Aviles, BSME, *Critical Path Institute*

### 11:30 AM  Panel: Image Archives: Where Are They and What Next?

**Grand Ballroom A & B**
- Raul San Jose Estepar, PhD, *Brigham & Women’s Hospital – Harvard Medical School*
- Status of “Give A Scan” Update: Laurie Fenton Ambrose, Lung Cancer Alliance
- Terry S. Yoo, PhD, *National Library of Medicine*
- Charles “Chuck” Fenimore, PhD, *National Institute of Standards & Techniques (NIST)*

### 12:30 PM  Lunch

**Kenwood/Montrose/Great Falls Room**
- Progress in Quantitative Imaging Trial: Industry Perspective
  - P. David Mozley, MD, *Merck Pharmaceutical*

### 2:00 PM  Breakout Group Reports

**Grand Ballroom A & B**
- **Group A: Strategic Planning: Accelerating Qualification Through Process Optimization**
- **Group B: Strategic Planning: Exploring Models for Implementing a National Infrastructure for Quantitative Imaging in Early Lung Cancer Management**

### 2:30 PM  Meeting Conclusion and Final Comments

**Grand Ballroom A & B**
- James L. Mulshine, MD, *Rush University Medical Center*

### 2:45 PM  Program Concludes

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