Program Description
This one-day course, co-sponsored by the Society of Thoracic Radiology and the Quantitative Imaging Biomarkers Alliance, will summarize the current state of knowledge regarding the role of quantitative CT of the lungs in diffuse lung disease.

Learning Objectives
At the completion of the course, the attendee will be able to:

- Describe the technical parameters for performing and quantitatively analyzing CT of the lung parenchyma in diffuse lung diseases;
- Summarize the role of quantitative CT in diffuse lung diseases including asthma, COPD and fibrosing lung diseases;
- Understand the importance of quantitative CT as a biomarker of diffuse lung disease.

Target Audience
Thoracic radiologists, pulmonologists, imaging scientists.

Credit Information
The Society of Thoracic Radiology is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

The Society of Thoracic Radiology (STR) designates this live activity for a maximum of 6.25 AMA PRA Category 1 Credits™. Physicians should claim only credit commensurate with the extent of their participation in the activity.

Course Directors
Jonathan Goldin, MBChB, PhD & David A. Lynch, MB

Course Schedule
7:30 AM  Continental Breakfast
8:00 AM  Development of Quantitative CT Lung Protocols
  John D. Newell, Jr., MD
8:20 AM  What Can We Learn from CT Phantoms?
  Philip F. Judy, PhD
8:40 AM  Sources of Variation in Quantitative CT of the Lungs
  Harvey O. Coxson, PhD
9:00 AM  Establishing Normal Reference Values in QCT
  R. Graham Barr, MD, DrPH
9:20 AM  COPD
  David A. Lynch, MB
9:40 AM  Group discussion
10:00 AM  BREAK
10:20 AM  Asthma
  Eric A. Hoffman, PhD
10:40 AM  Fibrosing Interstitial Lung Diseases
  Brian J. Bartholmai, MD
11:00 AM  Cystic Fibrosis
  Alan S. Brody, MD
11:20 AM  Clinical Impact of QCT Measurements
  Donald P. Tashkin, MD
11:40 AM  Panel Discussion
  Moderators: Hyun J. (Grace) Kim, PhD and David A. Lynch, MB
12:00 PM  LUNCH
1:00 PM  Scientific Presentations
  Moderators: Matthew S. Brown, PhD and Jonathan Goldin, MBChB, PhD
2:00 PM  Dose Reduction in Quantitative CT
  Michael F. McNitt-Gray, PhD, DABR
2:20 PM  Quantitative Imaging Biomarkers Alliance
  Daniel C. Sullivan, MD
2:40 PM  BREAK
3:00 PM  Biomarkers for COPD
  Stephen Rennard, MD
3:20 PM  FDA Requirements for QCT in Registration Trials
  Jonathan Goldin, MBChB, PhD
3:40 PM  Discussion, Closing Remarks
  Jonathan Goldin, MBChB, PhD & David A. Lynch, MB