The broadest mission of these Conferences is the collective pursuit of understanding of the issues surrounding early diagnosis of lung cancer. While the main focus has been on the development and evaluation of the regimen of early diagnosis of lung cancer, a secondary focus has been on the diagnosis of other chest diseases in the context of screening for lung cancer.

The 21st Conference will present the new affiliation of I-ELCAP with the BioDesign Institute of Arizona State University including its resources and planned interactions. This Conference will focus on new frontiers in staging, pathology, imaging technology and treatment of early lung cancer as well as other related diseases. It will also present advances in the I-ELCAP infrastructure that will allow it to participate in large scale diagnostic and therapeutic studies. Eminent questions of how to optimize and evaluate the regimen of screening will be addressed.

Saturday, October 24, 2009, Century Palace of Zhuhai Holiday Resort Hotel

9:00 – 9:30 Welcome. Moderators: X. Liu, J.P. Smith
A. Xu, Vice President, Sun Yat-Sen University, Dean of School of Life Science, Director of Biopharmaceutical Development Center, Professor of Bioscience, Guangzhou
Q. Deng, Vice Mayor, Zhuhai City Government
X. Liu – Zhuhai Story
C. Henschke – The 21st Conference Agenda

9:30 – 10:00 I-ELCAP Relationship with Arizona State University. Moderator: J.P. Smith
New affiliation with BioDesign Institute: Overview and Lung Cancer Initiatives– A. Nelson

10:00 – 10:30 Coffee break

10:30 – 11:30 Other I-ELCAP Updates. Moderator: X. Liu
Diagnostic, prognostic, and pathology results – C. Henschke
Modeling the mortality reduction – M. Kimmel
Smoking cessation among screenees: Who Quits? – J. Ostroff

11:30 – 12:00 Frontiers in Lung Cancer Staging and Pathology. Moderator: G. Cecchi
Key changes in lung cancer staging from the surgical perspective – J. Yoshida
Integration of molecular cytology profiling into the cancer clinic – M. D. Lozano
Saturday, October 24, 2009, Century Palace of Zhuhai Holiday Resort Hotel

12:00 – 13:00 Lunch

13:00 – 13:30 Poster presentations

13:30 – 14:45 **Frontiers in Chest Imaging.** Moderator: D. Shaham
CT scanner technology – M. Cham
CT software technology: bronchial calcifications – R. Avila
CT software technology: growth assessment – A.P. Reeves
CT software technology: cardiac calcifications and COPD – A.P. Reeves
CXR software technology: pulmonary nodules – M. Xu

14:45 – 15:15 Coffee break

15:15 – 16:15 **Research on Treatment of Early Lung Cancer.** Moderator: J. Zulueta
Window of opportunity trials: overview – D. Yankelevitz
Window of opportunity trials: imaging in outcome assessment – J. He, R. Avila
Innovations in surgical technology – C.J. Kim
Innovations in radiotherapy – B. Loo

16:15 – 17:15 **Special lecture.** Moderator: C. Henschke
Global aspects of lung cancer – P. Boffetta, Q. Zhou

18:30 – 22:00 **Dinner cruise around Macau**
Sunday, October 25, 2009, Century Palace of Zhuhai Holiday Resort Hotel

9:00 – 10:00  Steering Committee Meeting

10:00 – 10:30  Coffee break

10:30 – 12:00  Research Presentations

12:00 – 13:00  Lunch

13:00 – 13:30  Poster Presentations

13:30 – 14:00  I-ELCAP Infrastructure as Resource for Ancillary Research
   Moderator: M. Pasmantier
   Introduction: D. Yankelevitz
   Computer infrastructure for multi-reader studies – A. P. Reeves
   Current FAMRI-IELCAP repository – M. Lane
   Challenges in creating and using biorepositories – C. Cormier
   Quality assurance and regulatory infrastructure – G. Bartoo

14:00 – 14:30  Optimization of the Regimen of Screening for Lung Cancer
   Moderator: J. P. Smith
   Eminent questions – D. Yankelevitz
   Approaches to resolution – O. S. Miettinen

14:30 – 15:00  Coffee break

15:00 – 17:00  Workshops on Evaluation of Regimens of Screening for Lung Cancer
   Proposed performance measures.
   Moderators: J. P. Smith, C Henschke