

**NIBIB Workshop on**  
**DEFINING THE STATE-OF-THE-ART IN BIOMEDICAL IMAGING:**  
**RESEARCH NEEDS FOR THE FUTURE**

**March 16-18, 2003**  
**University of Mississippi Medical Center**  
**Jackson, Mississippi**

**Program**

**March 16 (Fairview Bed and Breakfast)**

5:30 PM Reception

6:30 PM Orientation Dinner

Welcome – *A. Wallace Conerly (UMMC)*

Opening Remarks – *U. S. Representative Roger Wicker (Mississippi)*

Charge and Objectives – *Roderic I. Pettigrew (NIBIB Director)*

**March 17 (UMMC Conference Facilities)**

7:00 AM Continental Breakfast

8:00 AM Workshop Opening – *Roderic Pettigrew (NIBIB)*

8:05 AM Welcome – *US Senator Thad Cochran (Mississippi)*

8:15 AM Opening Remarks – *Elias Zerhouni (NIH Director)*

8:30 AM Orientation and Logistics

*Workshop Coordinators – Richard Swaja (NIBIB) and David  
Dzielak (UMMC)*

*Workshop Chairs – Harrison Barrett (Arizona) and  
Kirby Vosburgh (CIMIT)*

9:00 AM Perspectives on Biomedical Imaging Research and Applications –  
*William Hendee (Wisconsin)*

9:30AM Break

10:00 AM Clinical Needs for Biomedical Imaging – *Bruce Rosen (MGH)*

10:30 AM Research Needs for Biomedical Imaging – *Michael Vannier (Iowa)*

11:00 AM Multi-Disciplinary Approaches to Biomedical Imaging Research –  
*Philip Alderson (Columbia)*

11:30 AM Lunch

12:30 PM Session 1: Image Acquisition – Sensors and Sources

*Moderator: Thomas Brady (MGH)*  
*Speakers: William Moses (LBNL)\**  
*Britton Chance (Penn)*  
*John Gore (Vanderbilt)*  
*Gary Glover (Stanford)*  
*NIBIB Staff Representative: Peter Kirchner*

2:00 PM Break

2:30 PM Session 2: Image Acquisition - Targeted Agents

*Moderator: Henry Wagner (JHU)*  
*Speakers: Tom Meade (Northwestern)\**  
*Sam Gambhir (UCLA)*  
*Dean Sherry (UT Dallas – Southwestern)*  
*Charles Springer (BNL)*  
*NIBIB Staff Representative: Richard Swaja*

4:00 PM Break

4:30 PM Session 3: Data Reconstruction, Interpretation, and Informatics

*Moderator: Maryellen Giger (Chicago)*  
*Speakers: Ben Tsui (JHU)\**  
*David Channin (Northwestern)*  
*Henry Fuchs (North Carolina)*  
*Jay Udupa (Penn)*  
*NIBIB Staff Representative: William Heetderks*

6:00 PM Adjourn for the day

7:00 PM Dinner

## **March 18 (UMMC Conference Facilities)**

- 7:00 AM Continental Breakfast
- 7:45 AM Agenda for the day – *Conference Coordinators and Chairs*
- 8:00 AM Session 4: Data Evaluation and Objective Assessment  
*Moderator: Bruce Davis (NASA – Stennis)*  
*Speakers: Bruce Hillman (UVA)\**  
*Kyle Myers (FDA)*  
*Art Toga (UCLA)*  
*Alicia Toledano (Brown)*  
*NIBIB Staff Representative: Mary Pastel*
- 9:30 AM Break
- 10:00 AM Session 5: Emerging Technologies and Applications  
*Moderator: Ronald Price (Vanderbilt)*  
*Speakers: David Piwnica-Worms (Washington University)\**  
*Ron Kikinis (BWH)*  
*Richard Robb (Mayo Clinic)*  
*Eva Sevick-Muraca (Texas A&M)*  
*NIBIB Staff Representative: John Haller*
- 11:30 AM Lunch
- 12:30 PM Summary and Recommendations – *Session Moderators, Conference Chairs*
- 1:40 PM The Future of Biomedical Imaging Research – *Stanley Baum (Penn)*
- 2:00 PM Adjourn Workshop

\* Lead speaker