Sunday, September 17\textsuperscript{th}, 2006

7:00—7:45 a.m. \textbf{Registration and Continental Breakfast}

7:45—8:00 a.m. \textbf{Welcome and Introduction}
Rahim R. Rizi, Ph.D.

\textbf{Moderator: Jerry Glickson}

8:00—8:10 a.m. \textbf{Role of the NIH Roadmap in the Development of Novel Molecular Imaging Probes}
Alan McLaughlin, Ph.D.
NIH/NIBIB

8:10—8:50 a.m. \textbf{Insights into Cancer Pathogenesis Using Carbon-13 NMR}
Craig Thompson, M.D.
University of Pennsylvania

8:50—9:30 a.m. \textbf{\textsuperscript{13}C Tracers of Metabolism in Cells, Animals & Humans}
A. Dean Sherry, Ph.D.
University of Texas, Southwestern

9:30—9:45 a.m. \textbf{Questions and Answers}

9:45—10:00 a.m. \textbf{Refreshment Break}

\textbf{Moderator: Warren Warren}

10:00—10:30 a.m. \textbf{New Dimensions in Real Time Metabolic Imaging}
Klaes Golman

10:30—11:00 a.m. \textbf{Hyperpolarization of Molecules in Solution by Solid State DNP}
Jan Henrik Ardenkjør-Larsen
GE Healthcare System

11:00—11:30 a.m. \textbf{\textsuperscript{1}H-\textsuperscript{13}C in the Solid State, and INEPT Polarization Transfer Experiments in the Liquid State}
Jan Wolber, Ph.D.
GE Healthcare Biosciences

12:00—12:30 p.m. \textbf{PASADENA: Twenty Years Young}
Daniel P. Weitekamp, Ph.D.
California Institute of Technology

11:30—12:00 p.m. \textbf{Hyperpolarization of Carbon-13 with Parahydrogen Technique}
Joachim Bargon, M.D., Ph.D.
Bonn University

12:30—1:15 p.m. \textbf{Lunch}

\textbf{Moderator: Masaru Ishii}

1:15—1:45 p.m. \textbf{Real Time Metabolic Imaging in Practice; Hyperpolarized Carbon-
13 Imaging of Cardiac Muscle Metabolism
Per Akeson, M.D., Ph.D.
Malmö University Hospital, Sweden
1:45—2:15 p.m. Application of Carbon-13 in Cancer Detection
Jerry Glickson, Ph.D.
University of Pennsylvania
2:15—2:45 p.m. Metabolic Adaptations During Insulin Resistant States
Morris Birnbaum, M.D., Ph.D.
University of Pennsylvania
2:45—3:00 p.m. Questions and Answers
3:00—3:15 p.m. Break

Moderator: Steve Kadlecek
3:15—3:45 p.m. Metabolomic Imaging in Disease Diagnosis
Leo Cheng, M.D.
Harvard University
3:45—4:15 p.m. Polarization Transfer from Polarized Carbon-13 to Other Nuclei
Stephen J. Kadlecek, Ph.D.
University of Pennsylvania
4:15—4:45 p.m. Utilization of Parahydrogen in Magnetic Resonance Experiments
Simon B. Duckett, Ph.D.
University of York, UK
4:45—5:15 p.m. New Developments in *in-vitro* DNP-NMR
Damir Blazina
Oxford Instruments
5:15—5:45 p.m. Questions and Answers
5:45—6:00 p.m. Concluding Remarks
Rahim R. Rizi, Ph.D.