

“LIFE IN RESONANCE”  
*A Scientific Symposium to  
Honor the Memory and Scientific Contributions  
of John S. Leigh, Ph.D.*

Friday, September 12, 2008  
Dunlop Auditorium

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|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| i)           | Introduction<br>R. Nick Bryan, M.D., Ph.D.<br>Stanley Baum, M.D.                                                                                       | 9:00 am  |
| ii)          | Jack Growing up in Science<br>Britton Chance, Ph.D.<br>Mildred Cohn, Ph.D.                                                                             | 9:30 am  |
| Session I:   | EPR/Photosynthesis<br>Chair: Les Dutton, Ph.D.                                                                                                         | 10:00 am |
| 1)           | George Reed, Ph.D.<br>“Jack's Early Contributions: Magnetic Interactions of Electron Spins and Nuclear Spins from Pake Patterns to Relaxation Effects” |          |
| 2)           | Jim Norris, Ph.D.<br>“Exploring Pathways in Bacterial Photosynthesis with One and Two-Electron Spin Resonance”.                                        |          |
| Break        |                                                                                                                                                        | 11:00 am |
| Session II:  | NMR Spectroscopy<br>Chair: Walter Englander, Ph.D.                                                                                                     | 11:30 am |
| 3)           | Joanne Ingwall, Ph.D.<br>“Creatine Kinase Kinetics in Muscle: Magnetization Transfer Studies”                                                          |          |
| 4)           | Lizann Bolinger, Ph.D.<br>"A Brief History of Metabolic Mapping with Magnetic Resonance."                                                              |          |
| Lunch:       | 12:30 pm to 2:00 pm                                                                                                                                    |          |
| Session III: | MR Techniques<br>Chair: Ravinder Reddy, Ph.D.                                                                                                          | 2:00 pm  |
| 5)           | Jim Pekar, Ph.D.<br>" 'What Do Two Pulses Do?' The Discovery of Relaxation-Allowed Multiple-Quantum Coherence in Sodium-23"                            |          |
| 6)           | John Detre, M.D.<br>“Perfusion Imaging”                                                                                                                |          |

Session IV: Optical Imaging/Contrast Agents

3:00 pm

Chairs: Mitchell Schnall, M.D., Ph.D. /Jerry Glickson, Ph.D.

- 7) Perry Renshaw, M.D., Ph.D.  
"Macromolecular MR Contrast Agents"
- 8) Bruce Tromberg, Ph.D.  
TBD
- 9) John Schotland, M.D., Ph.D.  
"Optical Tomography, Inverse Problems and Jack's Legacy in Applied Math"

Reception Immediately Following

Location: 14<sup>th</sup> Floor BRB 11/111