



THE ACADEMY OF MEDICINE,  
ENGINEERING AND SCIENCE OF TEXAS

## AGENDA

As of December 11, 2008

### Thursday, January 8, 2009

<b>8:00 am</b>	<b>Registration Opens</b>	<i>Lincoln Ballroom Foyer</i>
<b>9:00 - 10:15 am</b>	<b>Annual Meeting of The Academy of Medicine, Engineering &amp; Science of Texas</b> <i>(Academy Members, University Presidents and Chancellors)</i> State of The Academy Address <b>J. Tinsley Oden, Ph.D.</b> , 2008 Academy President	<i>Lincoln Ballroom West</i>
<b>10:15 - 10:30 am</b>	<b>Break</b> <i>(Protégés and special guests are invited to join the meeting at this time.)</i>	
<b>10:30 - 11:30 am</b>	<b>Opening Session</b> Welcome <b>Senator Kay Bailey Hutchison</b> , Honorary Academy Chair  Education Committee Report <b>William R. Brinkley, Ph.D.</b> , Education Committee Co-Chair <b>Mary Ann Rankin, Ph.D.</b> , Education Committee Co-Chair	<i>Lincoln Ballroom West</i>
<b>11:30 - 11:45 am</b>	<b>Break</b>	
<b>11:45 - 1:15 pm</b>	<b>Luncheon</b> <i>Keynote Speaker:</i> <b>Charles Elachi, Ph.D.</b> , Director, NASA Jet Propulsion Laboratory	<i>Lincoln Ballroom East</i>
<b>1:15 - 1:30 pm</b>	<b>Break</b>	
<b>1:30 - 3:30 pm</b>	<b>Exploring the Earth with Imaging Technologies</b> <i>Presenters:</i> <b>Lori A. Magruder, Ph.D.</b> , Research Associate, Applied Research Laboratories The University of Texas at Austin <i>"Laser Ranging (LIDAR) for Remote Sensing Applications"</i>  <b>John Etgen, Ph.D.</b> , Senior Advisor BP America <i>"Seismic Imaging, an Industrial Perspective"</i>  <b>Timothy Dixon, Ph.D.</b> , Professor, Marine Geology & Geophysics University of Miami <i>"Imaging subsidence of Earth's Surface: What it can tell us about oil, fresh water, and flooding of the Gulf Coast"</i>  <b>Gordon Wells, D.Phil.</b> , Research Associate, Center for Space Research The University of Texas at Austin <i>"Hurricane Ike: Uses of Remote Sensing for Disaster Response"</i>	<i>Lincoln Ballroom West</i>
<b>3:30 - 3:45 pm</b>	<b>Break</b>	
<b>3:45 - 5:45 pm</b>	<b>Defining Tomorrow's Transportation</b> <i>Keynote Speaker:</i> <b>Ralph J. Cicerone, Ph.D.</b> President, National Academy of Sciences  <i>Moderator:</i> <b>Robert E. Skinner, Jr.</b> , Executive Director Transportation Research Board	<i>Lincoln Ballroom West</i>

**Thursday, January 8, 2009 (continued)**

*Presenters:*

**Henry G. Schwartz, Jr., Ph.D., P.E.**

Sverdrup/Jacobs Civil, Inc., (retired)

*"The Impacts of Climate Change on Tomorrow's Transportation"*

**C. Michael Walton, Ph.D., P.E.**

Ernest H. Cockrell Centennial Chair in Engineering

The University of Texas at Austin

*"The Connected Vehicle / Infrastructure Systems"*

**Ronald D. Matthews, Ph.D.**

Head, General Motors Foundation Engines and Automotive Research Labs

The University of Texas at Austin

*"Powering the Future Automobile"*

<b>5:45 - 6:30 pm</b>	<b>Networking</b>	<i>Lincoln Ballroom Foyer</i>
<b>6:30 pm</b>	<b>Reception</b>	<i>Lincoln Ballroom Foyer</i>
<b>7:30 pm</b>	<b>Dinner Honoring Recipients of the 2009 Edith and Peter O'Donnell Awards</b>	<i>Lincoln Ballroom</i>
<b>9:00 pm</b>	<b>After Dinner Reception</b>	<i>Conservatory Foyer (Lake Level)</i>

**Friday, January 9, 2009**

<b>8:00 am</b>	<b>Buffet Breakfast</b>	<i>Lincoln Ballroom East</i>
<b>9:00 - 10:30 am</b>	<b>Presentations by the 2009 Edith and Peter O'Donnell Awards Recipients</b>	<i>Lincoln Ballroom West</i>
<b>10:30 - 10:45 am</b>	<b>Break</b>	
<b>10:45 - 12:55 pm</b>	<b>Bio-Medical Imaging: The Future of Medicine</b>	<i>Lincoln Ballroom West</i>

*Presenters:*

**Ananth Annapragada, Ph.D.**, Associate Professor of Health Information Sciences

The University of Texas Health Science Center at Houston

*"Novel Nanoparticle Based Imaging Agents"*

**John C. Carrano, Ph.D.**, Vice President, Research and Development

Luminex Corporation

*"Disruptive Diagnostics: A Compelling New Solution for Multiplexed Detection"*

**Michael Mancini, Ph.D.**, Associate Professor

Baylor College of Medicine

*"Nuclear Receptor Functional Analyses by High Throughput Systems Biology"*

**Eva M. Sevick, Ph.D.**, Professor and Director, Center for Molecular Medicine

The University of Texas Health Science Center at Houston

*"Near-infrared Fluorescence Optical Imaging and Tomography"*

<b>1:00 - 2:45 pm</b>	<b>Luncheon &amp; Closing Remarks</b>	<i>Lincoln Ballroom East</i>
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*Keynote Speaker:*

**Michael E. Phelps, Ph.D.**

Norton Simon Professor & Chair, Department of Molecular and Medical Pharmacology

University of California Los Angeles

*Closing Remarks:*

**David E. Daniel, Ph.D.**, 2009 Academy President

<b>2:45 pm</b>	<b>CONFERENCE ADJOURNS</b>	
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