

PROGRAM

Thursday, October 23, 2014

MORNING – Sellers Auditorium

9:00 am **Dr. Patricia A. Sobecky** – Welcome and Opening Remarks

Session Theme: Nanobioscience, Nanobiotechnology, Biomedical Engineering, and Nanomedicine

Moderator: Dr. Ajay Singh – University of South Alabama

9:30 am **Dr. Carol Duffy** – The University of Alabama

Development of HSV-1 as a Nanoparticle Delivery Vector

10:05 am **Dr. Joseph D. Ng** – The University of Alabama in Huntsville

Synthetic Biology for Nano- and Atomic-Scale Macromolecular Structure Determination

10:40 am Coffee Break

Moderator: Dr. Anup Sharma – Alabama A&M University

11:00 am **Dr. Eugenia Kharlampieva** – The University of Alabama at Birmingham

Polymer Nanomaterials for Drug Delivery and Cell Transplantation

11:35 am **Dr. Michael H. Irwin** – Auburn University

A Proteoliposome Nanocarrier for Mitochondrial Gene Delivery

MORNING – Rast Conference Room

Session Theme: Nanoengineering and Nanomaterials

Moderator: Dr. J.K. Vishwanatha – University of North Texas Health Science Center

9:30 am **Dr. Nitin Chopra** – The University of Alabama

Multi-Functional and Heterostructured Nanosystems for Advanced Nanobiotechnologies

10:05 am **Dr. Satilmus Budak** – Alabama A&M University

Design of Nano-Structures for Energy Efficient Devices

10:40 am Coffee Break

Moderator: Dr. Robert D. Arnold – Auburn University

11:00 am **Dr. Srinivas Palanki** – University of South Alabama

Effect of Size and Concentration of Gold and Silver Nanoparticles on Skin Cancer Chemoprevention

11:35 am **Dr. Mahesh V. Hosur** – Tuskegee University

An Overview on Recent Advances in NSF-EPSCoR Nano-Biomaterials Research Thrust

LUNCH – Sellers Auditorium

12:10 pm Lunch Break (1 hour 35 minutes)

12:40 pm **Val Walton** – Communications Director,
Economic Development Partnership of Alabama, Alabama Launchpad Program

Lunch Keynote Speaker

Dr. Andrew D. Penman

Vice President, Drug Development

Southern Research Institute

Birmingham, Alabama

Drug Development – A Perspective on Changing Times in the Industry

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AFTERNOON – Sellers Auditorium

Session Theme: Collaboration, Discovery, and Commercialization

Moderator: Dr. Shree Singh – Alabama State University

- 1:45 pm **Dr. Jean M. Feugang** – Mississippi State University
Application of Nanotechnology in Assisted Reproduction in Farm Animals
- 2:20 pm **Dr. David E. Nikles** – The University of Alabama
Building and Managing a Multidisciplinary Material Research Science and Engineering Center at The University of Alabama
- 2:55 pm **Dr. Jacob Jordan** – Defense Advanced Research Projects Agency (DARPA)
Innovation in Biological Technologies at DARPA
- 3:30 pm Refreshments

AFTERNOON – Rast Conference Room

Poster Session

3:45 pm – 6:00 pm

EVENING – Sellers Auditorium

Banquet

7:00 pm – 9:00 pm

Keynote Speaker

Dr. Richard M. Myers

President and Science Director
HudsonAlpha Institute for Biotechnology
Huntsville, Alabama

Using Genomics and Genetics to Understand Human Health and Disease

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Friday, October 24, 2014

MORNING – Sellers Auditorium

8:30 am

Welcome and Opening Remarks

Dr. Carl A. Pinkert – Moderator
Vice President for Research and Economic Development
The University of Alabama

Dr. Judy Bonner
President
The University of Alabama

Jo Bonner
Vice Chancellor for Government Relations and Economic Development
The University of Alabama System

Bill Taylor
President
Economic Development Partnership of Alabama

Angela Till
Deputy Secretary of Commerce
Alabama Department of Commerce
Accelerate Alabama – The State of Alabama's Strategic Plan for Growth and Development

9:30 am Coffee Break

10:00 am

Awards Ceremony
Undergraduate and Graduate Student Poster Presentation Awards

11:15 am Conference Closes