

Schedule of the David G. Whitten Symposium

University of New Mexico, Albuquerque, New Mexico

Thursday August 19, 2010

Friday August 20, 2010

7:10 am – 3:00 pm

Registration

Robert J. Stamm Commons, Centennial Engineering Center

7:10 - 8:10 am

Breakfast buffet

Robert J. Stamm Commons, Centennial Engineering Center

8:10 - 11:55 am

Session 1: Photochemistry

Auditorium, 1041 Centennial Engineering Center

Session chair: Russell H. **Schmehl**, Tulane University

8:10 - Welcome

Scott S. **Sibbett**, University of New Mexico

8:15 - Plenary talk

Samir **Farid**, University of Rochester

"Revised view of electron transfer dependence on free energy"

9:05 - Ian **Gould**, Arizona State University

"Irreversible photooxidation of DNA"

9:30 - Richard **Weiss**, Georgetown University

"Effects of temperature and alkyl groups on photophysical and photochemical processes of guest molecules in poly(alkyl methacrylate) films"

9:55 - Break

10:15 - Anne Myers **Kelley**, University of California Merced

"Linear and nonlinear resonance Raman studies of organic molecules and materials"

10:40 - André M. **Braun**, Universität Karlsruhe

"Aerosol photochemistry: nanoparticle functionalization by photooxyhalogenation"

11:05 - Jack **Saltiel**, Florida State University

"Medium effects on the cis-trans photoisomerization of 1,4-diphenyl-1,3-butadiene"

11:30 - James K. **Hurst**, Washington State University

"Photoinitiated electroneutral transmembrane redox across closed bilayers"

11:55 am - 12:50 pm

Lunch & poster session

12:50 - 4:30 pm

Session 2: Novel materials for self-assembly

Auditorium, 1041 Centennial Engineering Center

Session chair: James K. **Hurst**, Washington State University

12:50 - Plenary talk

Thomas J. **Meyer**, University of North Carolina

"Making fuels from sunlight"

1:40 - James **Brozik**, Washington State University

"Corralling & tethering functional membrane proteins in biomimetic assemblies"

2:05 - Andrew **Shreve**, Los Alamos National Laboratory

"From molecules to materials: photophysical studies of complex systems"

2:30 - Break

2:50 - Lee **Pedersen**, University of North Carolina

"Modeling blood coagulation complexes"

3:15 - Daniel **Schwartz**, University of Colorado Boulder

"Exploiting interactions between DNA and liquid crystals for biosensing"

3:40 - Huriye **İcil**, Eastern Mediterranean University

"Novel dyes for photonics: perylene monoimides, diimides and polymers"

4:05 - Françoise M. **Winnik**, University of Montreal

"Photo-controlled self assembly of azobenzene-end-tagged poly(N-isopropylacrylamides) in water/dioxane mixtures"

7:00 pm

Banquet in Professor Whitten's Honor

Ballroom C, Student Union Building

Mistress of ceremonies: Françoise M. **Winnik**

Master of ceremonies: André M. **Braun**

Keynote speaker: David G. **Whitten**

7:10 am – 12:45 pm

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Session 3: Stimuli-responsive and biosensing materials

Auditorium, 1041 Centennial Engineering Center

Session chair: Kirk **Schanze**, University of Florida

8:10 - Plenary talk

Haruo **Inoue**, Tokyo Metropolitan University

"Photochemistry in nano-layered microenvironment"

9:00 - Cornelius F. **Ivory**, Washington State University

"Electrophoretic traps for probing ligand-receptor interactions"

9:25 - Bruce **Armitage**, Carnegie Mellon University

"Bright fluorescent DNA nanostructures for imaging and detection"

9:50 - Break

10:05 - Frank H. **Quina**, Universidade de São Paulo

"Photophysics of anthocyanins"

10:30 - Vaidhyathan **Ramamurthy**, University of Miami

"Communication between free and caged molecules"

10:55 - Xi **Zhang**, Tsinghua University

"Tuning amphiphilicity of building blocks: controlled self-assembly and disassembly for functional supramolecular materials"

11:20 - Russell **Schmehl**, Tulane University

"Exploitation of reversible energy transfer in the development of in vivo sensors for extracellular dissolved oxygen"

11:45 am - 12:30 pm

Lunch & poster session

12:30 - 3:45 pm

Session 4: Biosensors and biosensitizers

Auditorium, 1041 Centennial Engineering Center

Session chair: Françoise **Winnik**, University of Montreal

12:30 - Plenary talk

Gabriel **López**, Duke University and University of New Mexico

"Biosensors at University of New Mexico in the Whitten era"

1:20 - Jason **Harper**, Sandia National Laboratories

"Multifunctional electrode array biodetection platforms"

1:45 - Komandoor **Achyuthan**, Sandia National Laboratories

"Supramolecular self-assembly for chem-bio detection"

2:10 - Break

2:25 - Esther **Oliveros**, Université Paul Sabatier

"Photosensitizing properties of pterin derivatives"

2:50 - Liaohai **Chen**, Argonne National Laboratory

"Bio-templated materials: Sensing, imaging and beyond"

3:15 - Kirk **Schanze**, University of Florida

"Properties and applications of conjugated polyelectrolytes"

3:40 - Valedictory - David G. **Whitten**, University of New Mexico

