



**Workshop on Chemical Sciences Needs for Mid-Scale Instrument Development
National Science Foundation
Arlington, VA
November 6-8, 2016**

NSF Mid-Scale Instrument Development Workshop - Final Agenda

Day 0 (Westin) 7:00 – 9:00 pm - November 6

(check at hotel for room assignment)

Registration and Kick-off Meeting

Intro: M. Dantus and P. Bohn (15 min)
KickOff Lecture: Albert Lazzarini – LIGO (30 min)
Review of proposed ideas: Dantus/Bohn (30 min)
Logistics/Agenda (15 min)

Day 1 (NSF Stafford II-Room 555)- November 7

Continental Breakfast 8:00 - 8:30 am

Session 1: Thinking Big – M. Dantus

Opening Remarks: A. Wilson - Chemistry Division, NSF

Lecture 1 (invited): 8:40 - 9:10 am – G. Cooks

Lecture 2 (invited): 9:10 – 9:40 am – C. Barty

Mini-Panel (Cooks/Barty): 9:40 - 10:10am

Break 10:10 – 10:30 am

Session 2: Disruptive technologies and ‘impossible’ measurements - P. Bohn

Lecture 3 (invited): 10:30 - 11:00 am – L. Smith

Lecture 4 (invited): 11:00 – 11:30 am – P. Weiss

Mini-Panel (Smith/Weiss): 11:30 - 12:00

Working Lunch 12:00-1:00 pm

Clustering the ideas submitted

Break-Out Session 1: 1:00 - 2:00 pm

(~8 participants for each of 4 break-out groups)
Discussion Leaders/Reporters: F. Fernandez/H. Shafaat,
C. Larive/P. Pelegrino, S. Minter/L. Baker, D. Rolison/J.
Perry

Reports from Break-Out Sessions: 2:00 - 2:50 pm (4 reports, 10 minutes each)

Break 2:50 - 3:10 pm

Session 3: The Quantum Leap – N. Fell

Lecture 5 (invited): 3:10 - 3:40 pm – G. Engel

Lecture 6 (invited): 3:40 - 4:10 pm – M. Buchanan

Mini-Panel (Engel/Buchanan): 4:10-4:40

Summary and Evening Thoughts: 4:40-5:00

Dinner 6:00 - 8:00 pm

Day 2 (NSF Stafford II-Room 555)- November 8

Continental Breakfast 8:00 - 8:30 am

Session 4: Understanding the Rules of Life – J. Laskin

Lecture 7 (invited): 8:30 - 9:00 am – M. Cicerone

Lecture 8 (invited): 9:00 – 9:30 am – T. Goodson

Mini-Panel (Cicerone/Goodson): 9:30 – 10:00 am

Vision and Summary 10:00-10:30

F. Crim – MPS, NSF 10:10 – 10:30

Break 10:30-10:50

Logistics/Agenda 10:50-11:00

Break-Out Session 2: Project Refinement 11:00-12:00

(~ 8 participants for each of ~ 4 break-out groups)
Participants rotate and contribute to each group
Discussion Leaders/Reporters: N. Manicke/R. Dunn, J.
Kleiman/S. Soper, R. Jimenez/S. Buratto, N.
Woodbury/C. Hendrickson

Working Lunch 12:00-1:00 pm

Further refinement of projects and preparing reports

Reports from Break-Out Sessions: 1:00 - 1:50 pm- 4 reports/presentations, 10 minutes each

Closing Session: Moderators - Bohn/Dantus

1:50 – 3:00 pm Summary and Discussion of Broader Impacts, buy in from other agencies, and industry.

Adjourn – 3:00 pm