

MAY 14, 2003
AGENDA

- 8:30 Welcome
Dr. Mario Tamburri – Alliance for Coastal Technology
- 8:40 Welcome to California
Assemblyman George Nakano
- 8:50 Background and Workshop Goals
Dr. Stephen Weisberg – Southern California Coastal Water Research Project
- 9:10 Rapid Microbial Detection – A Range Of Possibilities And Challenges
Dr. Rachel Noble – Univ. of North Carolina
- 9:30 Development and Evaluation of a Rapid (<4 hour) Test for Enumerating *E. coli* and *Enterococcus* from Beach Water Samples
Dr. Kristi Harkins - AATI
- 9:50 Development of a Portable Instrument for the Rapid Enumeration of Bacterial Indicators
Dr. David McCrae – Research International
- 10:10 Break
- 10:40 RAPTOR - A Portable Biosensor for Environmental Monitoring
Dr. George Anderson – US Navy
- 11:00 Rapid Biosensor Detection Of Microbial Pathogens
Dr. Daniel Lim – Univ. of South Florida
- 11:20 Rapid Detection of Bacteria Using IMS and ATP bioluminescence
Dr. Rolf Deininger – Univ. of Michigan
- 11:40 Biosensors for Microbiological Detection and Identification
Dr. Mary Beth Tabacco - Echo Technologies
- 12:00 Lunch
Lunch Talk: Industrial/Academic Synergy: The Journey from the Drawing Board to the Final Product
Dr. Mike Dziewatkoski - YSI Environmental
- 1:30 Development Of An Instrumental Technology For The *in situ* Detection And Rapid Near Real Time Reporting Of Fecal Contamination In Marine Waters

Dr. Alfred Hanson - SubChem Systems

- 1:50 Rapid Detection Of Indicator Bacteria With Dual Wavelength Fluorimetry: A New Approach To Detection Using Selective And Differential Media
Dr. Robert Vinopal - Univ. of Connecticut
- 2:10 Rapid *in situ* Coastal Monitoring Of Indicator Bacteria Based On A Fluorescent Enzymatic Assay
Dr. Dr. Michael P. Shiaris – Univ. of Massachusetts
- 2:30 Rapid Measurement Of Bacterial Fecal Indicators In Surface Waters By Quantitative Polymerase Chain Reaction (QPCR) Analysis
Dr. Richard Haugland – US EPA
- 2:50 Rapid, Automated PCR Methods for Microbial Detection
Dr. Kurt Petersen – Cepheid
- 3:10 Break
- 3:40 High-Density Fiber Optic Arrays
Dr. David Walt – Tufts University
- 4:00 The Future Of Microarrays And NASBA For Water Quality Monitoring
Dr. Joan Rose – Michigan State University
- 4:20 Rapid Detection And Quantification Of Bacterial Indicators Using Bacteriophage Recognition-Magnetic Separation Coupled With Fluorescence-Based Optical Sensing
Dr. Stephen Lieberman - US Navy
- 4:40 The Challenges Of Using Microtechnology-Based Instrumentation On Macro-World Water Samples
Dr. Ray Mariella - Lawrence Livermore Laboratory
- 5:00 Adjourn