

# Twenty-sixth International Workshop/Symposium

## Rapid Methods and Automation in Microbiology

Kansas State University

July 14 to 21, 2006

Contact: Dr. Daniel Y.C. Fung

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(Planned Schedule as of June 5, 2006)

**Thursday, July 13, 2006**      Arrival

**Friday, July 14, 2006** All sessions at Holiday Inn Holidome

11:00 a.m.                      Food Science Seminar:  
Holidome                      “Food and Water Virology research in France/Europe”  
Dr. Sandra Blaise-Boisseau, AFSSA, France

12:00 Noon                      Registration  
Visit Exhibits and Posters

1:00 p.m.                      **Welcome Remarks**  
Dr. Janice Swanson, Interim Department Head  
Animal Sciences and Industry  
Dr. Curtis Kastner, Director  
Food Science Institute

1:15 p.m.                      **Paul A. Hartman Memorial Lecture**  
“The Role of Methods in Regulatory Decisions”  
Dr. Robert Brackett, Director  
Center for Food Safety and Applied Nutrition, FDA

2:15-3:00 p.m.                      Coffee Break  
Visit Exhibits and Posters

3:00-3:30 p.m.                      **Parade of Participants**

3:30-4:15 p.m.                      **Distinguished and Silver Medallion Fellow Lecture**  
“Use of Rapid Methods in the Food Industry”  
Dr. Ann Marie McNamara, Silliker Laboratory

4:15-5:00 p.m.                      **Distinguished and Quarter Century Fellow Lecture**  
“Rapid Methods: An Update from the Pacific Rim”  
Dr. Julian Cox, Associate Professor, University of New South Wales, Australia

5:15-7:00 p.m.                      Wine and Cheese Reception; Visit Exhibits and Posters

- 7:00 p.m.            Group Photo - by the fountain in the Holidome
- 7:15 p.m.    Workshop and Mini-Symposium Opening Banquet (Great Kansas Beef)  
 After Dinner Speech:  
 “Renewing the Land Grant Commitment: Excellence in Research, Teaching, and Extension”  
 Dr. Forrest Chumley, Associate Director for Research KSU College of Agriculture
- Aggieville - On your own!

### Saturday, July 15, 2006

- 8:20 a.m.            KSU van - Dormitory to Holidome
- 8:30- 10:00 a.m.    “History of Rapid Methods and Market Trends”  
 Holidome            Dr. Daniel Y.C. Fung, Director
- 10:00-10:30 a.m.    Coffee Break  
 Visit Exhibits and Posters
- 10:30-11:30. a.m.    Open Discussion on Needs and Experiences of Rapid Methods  
 (Drs. Stan Bailey, Julian Cox, Daniel Y. C. Fung, and P.C. Vasavada)
- 11:30 a.m. -        Luncheon and Review of Immunology (Optional)  
 1:00 p.m.            Dr. Millicent C. Goldschmidt  
 Visit Exhibits and Posters
- 1:00 p.m.            **End of Mini-Symposium, Exhibits and Posters**
- 1:15 p.m.            Holidome and Call vans to Call Hall

**WORKSHOP STARTS** - General Laboratory Coordinator – Dr. Beth Ann Crozier-Dodson

**All commercial slots are tentative.**

- 1:30 p.m        MicroBioLogics (Steve Graybill)  
 Call Hall
- 1:45 p.m.        Becton Dickinson - “Advanced Chromogenic Media Formulations in Rapid Microbiology”  
 (George Wilson)
- 2:15 p.m.        3M (Jody Huemoeller)
- 3:00 p.m.        Break
- 3:15 p.m.        Assignment of equipment. Discussion of general laboratory format.  
 (Dr. Beth Ann Crozier-Dodson and Dr. Julian Cox)  
 Bring your laboratory coat  
 Hand out of unknowns (24 hr cultures). Streak plates for Sunday  
 Rehydrate MicroBioLogics culture and swab onto BD BBL CHROMagar(s)  
 Orientation and Salmonella ChromAgar  
 Perform conventional tests and inoculate culture into Fung's mini system

Comparative analysis of food samples by conventional viable cell counts and Petrifilm  
Inoculate Staph Petrifilm and BBL CHROMagar Staph Aureus

4:30 p.m. Divide into groups:  
MicroBioLogics, Hycheck, Inoculate Environmental Listeria Plate, Remel

6:00 p.m. Call Hall Van to Holidome

### **Evening:**

#### **WELCOME RECEPTION**

6:45 p.m. Holidome Van to Reception Site and KSU Van from Dormitory to Reception Site  
**Konza Prairie Lodge** - A Unique Experience in a Natural Tall Grass Preserve  
Maps and directions provided. Tour and Konza Lecture given by Eva Horne 587.9462

7:00 to 10:00 p.m. Lots of interesting foods and beverages.

10:00 p.m. KSU Van leaves Reception.

### **Sunday, July 16, 2006**

Holidome (Regency B) - First      Call Hall - Later and afternoon

8:20 a.m. KSU van - Dormitory to Holidome

Holidome

8:25 a.m. Trends and Applications of Diagnostic Kits (Dr. Stan Bailey)

9:30 a.m. Pathatrix (Dr. Paul Hall)

10:05 a.m. Van and cars to Call Hall

10:30 a.m. Remel (Rich St. Clair)

Call Hall

11:00 a.m. Microbial-Vac Systems, Inc. (Bruce Bradley)

11:30 a.m. Microbiology International (Jason Cadle)

12:00 noon Lunch on your own

1:30 p.m. Inoculation into API, Crystal Gram (-), Crystal Gram (+) ID kit, Enterotube.  
Call Hall Reading of conventional tests (VCC), Fung's minitests, and Petrifilm; BBL CHROMagar  
Staph Aureus, and BBL CHROMagar(s) Orientation and Salmonella  
\*Streak plates for Monday, including BBL CHROMagar *Listeria*, Rapid L' mono, and  
ALOA

4:45 p.m. Divide into groups:  
Pathatrix, Microbial-Vac Systems, Inc., Remel, ISO-FDT demo, and MicroBioLogics,

6:00 p.m. Complete day's work.

Van to Holidome

**Evening:**

- 6:45 p.m. Holidome Van leaves Holidome and KSU Van leaves dormitory  
7:00 p.m. Optional dinner at Hunam Chinese Restaurant (Great Mongolian Buffet)

**Monday, July 17, 2006**

Holidome (Regency B) - Morning    Call Hall - Afternoon

- 8:20 a.m.    KSU Van - Dormitory to Holidome
- 8:30 a.m.    Food pathogen detection (*Salmonella*, *Listeria*, *Campylobacter*: Conventional versus Rapid Methods (Dr. Stan Bailey and Dr. P.C. Vasavada)
- 9:30 a.m.    Margery Hanfelt (DVM, M.S.), Major, U.S. Army Veterinary Corps  
“U.S. Army Food Safety Program”
- 10:15 a.m.    Break
- 10:30 a.m.    Tecra (Chris Destro)
- 11:00 a.m.    bioMerieux Inc. (Lori Sova)
- 12:00 noon    Lunch on your own.
- 1:30 p.m.    BioControl Products (Rodney Ortega) Discussion and inoculation of BioControl Products  
Call Hall
- 2:45 p.m.    BioBall™ (Richard Lilischkis)
- 3:15 p.m.    Biotrace International, Inc. (Luke Lambert)
- 3:45 p.m.    Break
- 4:00 p.m.    Read Crystal Gram (-), Crystal Gram (+) ID kit, API 20E, Enterotube, BBL CHROMagar *Listeria*, Rapid L' mono plates, and BD ChromAgar. Tabulate data; streak plates inoculate *Listeria* ID for Tuesday
- 4:50 p.m.    Divide into groups:  
bioMerieux, BioBall, Biolog
- 6:00 p.m.    Complete day's work, KSU vans to the Holidome

**Evening:**

- 6:45 p.m.    Van leaves dormitory and the Holidome
- 7:00 p.m.    Optional dinner at Harry's Uptown (Fine dining)

**Tuesday, July 18, 2006**

Holidome (Regency B) - First; Call Hall - Later and afternoon; Tuttle Creek - picnic

- 8:20 a.m. KSU Van - Dormitory to Holidome
- 8:30 a.m. Automation in Microbiology (Dr. Millicent Goldschmidt)  
Holidome
- 9:45 a.m. Holidome Van to Call Hall
- 10:00 a.m. BioRad (Wendy Lauer)  
Call Hall
- 10:30 a.m. Inoculate MicroID, RapID ANA II, RapID onE
- 11:00 a.m. Biotrace International, Inc./TECRA Diagnostics: Rapid Pathogen Testing (Chris Destro)
- 11:30 a.m. Chemunex (Pascal Yvon)
- 12:00 noon Lunch on your own.
- 1:30 p.m. Reading of *Salmonella* 1-2 test (Dr. Daniel Y. C. Fung)
- 1:45 p.m. Microbiology International (Jason Cadle) Description of systems
- 2:30 p.m. Strategic Diagnostics, Inc. (Ron Millar)
- 3:00 p.m. Read MicroID, RapID ANA II, RapID onE, Read *Listeria* ID
- 4:00 p.m. Tecra, Microbiology International, SDI, BioBall, and Chemunex
- 5:30 p.m. KSU Van to Holidome.
- 7:00 p.m. Holidome Van to Picnic. KSU Van to Picnic.  
Picnic at the beautiful Tuttle Creek area. Dress appropriately. Be sure to have maps if you drive.

**Wednesday, July 19, 2006**

Holidome, then Veterinary School

**Molecular Detection Day**

- 8:15 a.m. Dormitory Van to Veterinary School  
Holidome Van to Veterinary School
- 8:30 a.m. Instrumentation lecture (Dr. Millicent Goldschmidt)
- 10:00 a.m. Introduction to the Vet School  
Vet School
- 10:15 a.m. Break

- 10:30 a.m. “Basic Principles and Applications of PCR”  
Dr. Richard Oberst, Quarter Century Fellow
- 11:00 a.m. Introduction of cultures into PCR units: Thermal Cyclers begin  
Applied BioSystems, Dupont Qualicon, Cepheid, and Warnex Diagnostics
- 11:30 noon Working Lunch at the Veterinary School
- 1:30 p.m. Break
- 1:45 p.m. Rotations Begin  
TaqMan (Jonas Ruiz)
- Bax and Qualicon
- Cepheid (Zed Penn)
- Warnex Diagnostics, Inc. (Eileen Cole)
- 3:00 p.m. Break

### **Purdue University Biosensor Mini-Workshop**

- 3:15 p.m. “Center for Food Safety Engineering at Purdue”  
(Dr. Richard Linton, Center Director, Center for Food Safety Engineering, Purdue)
- 3:20 p.m. “Novel Approaches for Detection of *Listeria monocytogenes* in Foods”  
(Dr. Michael Ladish, Professor, Ag. and Biol. Engineering, Purdue)  
(Dr. Arun Bhunia, Professor, Department of Food Science, Purdue)  
(Dr. Rashid Bashir, Associate Professor, Elect. and Comp. Engineering, Purdue)
- 4:00 p.m. “Infrared Sensors for Rapid Identification of Foodborne Microorganisms”  
(Dr. Lisa Mauer, Associate Professor, Department of Food Science, Purdue)
- 4:20 p.m. “Use of Bioluminescence for Microbial Detection”  
(Dr. Bruce Applegate, Associate Professor, Department of Food Science, Purdue)
- 4:40 p.m. Break
- 4:55 p.m. “Immuno Magnetic Capture and Biosensor Amplification for Pathogen Detection in Foods”  
(Shu-I Tu, Research Leader, USDA-ARS, Wyndmorr, PA)
- 5:15 p.m. “Developing Immunochemical Methods for Staphylococcal Enterotoxin Detection”  
(Marjorie Medina, Research Chemist, USDA-ARS, Wyndmorr, PA)
- 5:35 p.m. “Phage Display for Biosensor Development”  
(George Paoli, Microbiologist, USDA-ARS, Wyndmorr, PA)
- 5:55 p.m. “Protein-Based Microarray for the Detection of Pathogenic Bacteria in Foods”  
(Andrew Gehring, Research Chemist, USDA-ARS, Wyndmorr, PA)

- 6:15 p.m. Meeting Adjourn
- 6:20 p.m. Van from Veterinary School to Holidome
- 7:00 p.m. KSU Van - Dormitory to Holidome

**Evening: Workshop Banquet - Holidome**

- 6:00 p.m. Cash Bar
- 7:30 p.m. Banquet - Western (Cowboy) Barbeque. Dress appropriately. FUN!
- 8:30 p.m. Talent Show organized by Dr. P. C. Vasavada  
Those with talents please volunteer!!

**Thursday, July 20, 2006**     Holidome (Regency B) - Morning     Call Hall - Afternoon

- 8:20 a.m. KSU Van - Dormitory to Holidome
- 8:30 a.m. “Overview of Microbiology of Infant Formula Powder” (Dr. P.C. Vasavada)  
Holidome
- 9:30 a.m. (Julian Cox)
- 10:30 a.m. Coffee Break
- 11:00 a.m. Review of Data and Group Discussion  
(Dr. Beth Ann Crozier-Dodson and Dr. Julian Cox)
- 12:00 noon Lunch on your own
- 1:20 p.m. Holidome Van to Call Hall
- 1:30 p.m. “Food Microbiology and Third Party Regulation of Food Safety: An Australian Perspective”  
(Rob Dawson, Foodsafe Risk Management Pty. Ltd.)
- 2:30 p.m. “KSU Innovative Air and Water Sampling Technology - Practical Applications”  
(Dr. Beth Ann Crozier-Dodson)
- 3:15 p.m. “Innovative Microbiological Approaches to Food Science”  
(Dr. Daniel Y. C. Fung, Director)
- 4:15 p.m. General Discussion and Problem Solving (Dr. Daniel Y. C. Fung)
- 5:00 p.m. Free activity. Shopping, packing, etc.
- 7:15 p.m. KSU Van - Dormitory to Holidome

7:30 p.m. Swimming pool farewell at Holidome (food and drinks will be available).

**Friday, July 21, 2006**

Manhattan Holidome (Regency B<sub>1</sub>) - All Day

8:20 a.m. KSU Van - Dormitory to Holidome

8:30 a.m. "Microbial Toxins and Food Safety"  
Holidome Reginald Bennett, FDA, Silver Medallion Fellow

10:00 a.m. Break

10:30 a.m. General discussion and presentation of certificates (Dr. Daniel Y. C. Fung)

12:00 noon Workshop adjournment

**We will organize departure van activities.  
HAVE A SAFE TRIP HOME!!**