Quarter Century 25th
International Workshop XXV
Rapid Methods and Automation in Microbiology
A Celebration/Symposium and Workshop
Shaping the New Millennium 1980–2005
June 16–24, 2005 Mini-Symposium/Workshop
Kansas State University  Manhattan, Kansas

Quarter Century Gala
Workshop Purpose
Rapid methods and automation is a dynamic area in applied microbiology dealing with the study of improved methods in the isolation, early detection, characterization, and enumeration of microorganisms and their products in clinical, food, industrial, and environmental samples. This workshop, "Rapid Methods and Automation in Microbiology," will focus on the practical application of conventional and new commercial systems of rapid identification of microorganisms from medical specimens, foods, water, and the environment. Workshop participants will receive nine days of intensive theoretical and hands-on training in microbiological automation under the direction of Dr. Daniel Y.C. Fung, an internationally known authority in the field.

A celebration and two-day mini-symposium will be offered as an integral part of the workshop. Workshop participants must attend both the celebration/minisymposium and the workshop. Some individuals may opt to attend the celebration/minisymposium only.

Designed for

- Microbiologists
- Food Scientists
- Medical Technologists
- Consultants
- Quality Assurance and Control Managers
- Laboratory Directors
- Researchers

Visiting Professors

Dr. Millicent C. Goldschmidt, professor of the Dental Branch, Dental Science Institute, at the University of Texas Health Science Center in Houston, has authored more than 200 publications. Her particular expertise in microbiological instrumentation led her to be recognized as an Outstanding Woman in Science in 1985-1986, by the Association for Women in Science. She is a Fellow of AAM.

Dr. J. Stanley Bailey is a research microbiologist with the United States Department of Agriculture, a Fellow of AAM, and adjunct professor with the Poultry Science Department at the University of Georgia. He was the secretary of the Microbiology Methods Committee of AOAC and has published more than 350 publications in the areas of poultry microbiology and microbiological methods.

Workshop Director

Dr. Daniel Y.C. Fung is professor of Food Science in the Department of Animal Sciences and Industry at Kansas State University. He has gained an international reputation as a lecturer on rapid methods and automation in microbiology at symposia in Sweden, Germany, Great Britain, France, Czechoslovakia, Canada, Israel, Italy, Peoples Republic of China, Singapore, Finland, Iceland, Brazil, Thailand, Colombia, Poland, Hungary, Zimbabwe, Chile, Argentina, Hong Kong, the Philippines, Korea, Taiwan, and the United States. He has more than 600 publications in journals, books, and proceedings, and is the recipient of the 1997 International Award given by the Institute of Food Technologists because of the uniqueness of this workshop series. He is editor of Journal of Rapid Methods and Automation in Microbiology, a Fellow of the American Academy of Microbiology (AAM), Institute of Food Technologists, and International Academy of Food Science and Technology. He presented an invited lecture at Pasteur Institute in Paris during the 100th year commemoration of Pasteur's death in 1995. He won the 2001 Waksman Outstanding Educator Award given by the Society for Industrial Microbiology. Dr. Catherine L. Fung is an honorary founding fellow.

Assistant Director

Dr. Randall Phebus, associate professor of Food Science at KSU, is the assistant director of the workshop. He specializes in the detection of foodborne pathogens (E. coli O157:H7, Listeria, Campylobacter and Arcobacter), intervention strategies (such as steam pasteurization of meat) to reduce pathogens in meat products, and biosafety and biosecurity research.

Laboratory Coordinator

Dr. Beth Ann Crozier-Dodson, Post-Doc, research associate, will coordinate the hands-on laboratory sessions and functions of the workshop. She has assisted Dr. Fung with workshops in the United States, Mexico, Norway, China, and other locations.

Guest Lecturers and Visiting Professors

Nelson A. Cox (a founding Fellow), Reginald Bennett, P.C. Vasavada, Cecile Lahellec, Richard Oberst, Ann Marie McNamara, Julian Cox, and Scott Russell have been guest lecturers in recent years.
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<th>June 16</th>
<th>Day of Celebration</th>
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<tr>
<td>Thursday</td>
<td>11:15 a.m.</td>
<td>All sessions at Holidome</td>
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<tr>
<td>1:30 p.m.</td>
<td><strong>Arrival and Registration</strong>—Visit Exhibits and Posters</td>
<td>8:20 a.m.</td>
<td>KSU vans to Holidome</td>
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| 3:00 p.m. | **Welcome Remarks** | 8:30 a.m. | **Impact of Rapid Methods in University Research and Extension**  
Dr. Dong-Hyun Kang, Washington State University, Quarter Century Fellow |
| 3:30 p.m. | “Rapid Methods in Food Safety and Security—KSU Perspective”  
Dr. Randall Prebus, Assistant Director, Quarter Century Fellow | 9:15 a.m. | **Organizing Successful Rapid Methods Workshops in Spain**  
Dr. Josep Yuste, Universitat Autonoma de Barcelona, Quarter Century Fellow  
Dr. Marta Capellas, Universitat Autonoma de Barcelona, Quarter Century Fellow |
| 4:00 p.m. | “The Role of Rapid Methods in the Food Industry”  
Dr. Pall Hall, Kraft, Quarter Century Fellow | 10:00 a.m. | **Break**—Visit Exhibits and Posters |
| 4:45 p.m. | **Break**—Visit Exhibits and Posters | 10:30 a.m. | **Parade of Participants** |
| 5:30 p.m. | **Wisdom Lost in Information: Other Toxigenic Culprits in the Genus Staphylococcus**  
Reginald Bennett, CFSAN, FDA, Silver Medallion Fellow | 11:00 a.m. | Break—Visit Exhibits and Posters |
| 6:15 p.m. | “From Rapid Methods to Campylobacter in Poultry”  
Dr. Nelson Cox, USDA, Founding Fellow | 11:30 a.m. | Lunch on your own—Visit Exhibits and Posters |
| 7:00 p.m. | **Celebration**—Food, Fun, Door Prizes | 12:00 Noon | Paul A. Hartman Memorial Lecture  
“Market Trends and Global Impact of Rapid Methods Testing”  
Dr. Thomas Wesczler, Strategic Consulting Inc., Keynote Lecturer |
| 9:00 p.m. | Celebrate on your own! | 1:30 p.m. | “Practical Application of Rapid Methods in the Consulting Laboratories”  
Dr. Ann Marie McNamara, Silliker Laboratory, Silver Medallion Fellow |
| Food Science Seminar Series | 1:30 p.m. | Break—Visit Exhibits and Posters |
| “International Harmonization of Microbiological Methods”  
Dr. Cecile Lahelec, Silver Medallion Fellow | 2:30 p.m. | “Use of Rapid Methods in Risks Assessments”  
Dr. Anna Lammerding, Health Canada, Quarter Century Fellow |
| Lunch on your own—Visit Exhibits and Posters | 3:15 p.m. | “Development of Rapid Methods in the Pacific Rim”  
Dr. Julian Cox, University of New South Wales, Quarter Century Fellow |
| Paul A. Hartman Memorial Lecture | 4:00 p.m. | Wine and Cheese Reception  
Visit Exhibits and Posters |
| “Market Trends and Global Impact of Rapid Methods Testing”  
Dr. Thomas Wesczler, Strategic Consulting Inc., Keynote Lecturer | 4:45 p.m. | Group Picture by the Fountain |
| Reflections | 5:30 p.m. |  
Dr. Millicent Goldschmidt, Founding Fellow |
| Dr. Nelson Cox, Founding Fellow | 7:00 p.m. | Dr. Stan Bailey, Silver Medallion Fellow |
| Dr. P.C. Vasavada, Silver Medallion Fellow  
Reginald Bennett, Silver Medallion Fellow | 9:00 p.m. | Dr. P.C. Vasavada, Silver Medallion Fellow  
Reginald Bennett, Silver Medallion Fellow |
| Presentations of Medallions—Dr. Daniel Y. C. Fung  
Director and Founding Fellow | 9:00 p.m. | **Music and Fun** |
| Banquet |  
“Me and My World Map: 25 Years of Places and People”  
Dr. Catherine L. Fung, “Self-Discovery for Good Business,” Consultant and Social Chair, Honorary Founding Fellow | **Music and Fun**  
Continue celebration on your own!
June 18
Saturday
8:20 a.m.  KSU van—Dormitory to Holidome
Holidome
8:30 a.m.  "History of Rapid Methods and Automation in Microbiology"
Dr. Daniel Y.C. Fung, Director
9:15 a.m.  "Vindication and Validation. Not the Same Old AOAC"
Dr. Mike Brodsky, Past President, AOAC, Quarter Century Fellow
10:00 a.m. Break—Visit Exhibits and Posters
10:30 a.m. Open Discussion on Needs and Experiences of Rapid Methods
Discussion Leader—Dr. Randy Phlebus, Assistant Director
11:30 a.m. Luncheon and Review of Immunology (Optional)
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 KSU vans to Call Hall

WORKSHOP STARTS
General Laboratory Director—Dr. Beth Ann Crozier-Dodson, Quarter Century Fellow

All commercial slots are tentative.

Call Hall
1:30 p.m.  MicroBioLogics (Forest Reichel)
1:45 p.m.  Becton Dickinson—"Advanced Chromogenic Media Formulations in Rapid Microbiology"
2:15 p.m.  3M
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
Handout of unknowns (24 hr cultures). Streak plates for Sunday
Rehydrate culture and swab into chromogenic media
Perform conventional tests and inoculate culture into Fung’s mini system
Comparative analysis of food samples by conventional viable cell counts and Petrifilm
4:30 p.m.  Divide into groups: MicroBioLogics, Hycheck, Inoculate Staph Petrifilm, Remel
6:00 p.m.  Call Hall Van to Holidome

Evening:
6:45 p.m.  WELCOME RECEPTION
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 will be provided.
Lots of interesting foods and beverages
10:00 p.m.  KSU van leaves reception

June 19
Sunday
8:20 a.m.  Holidome (Regency B)—First Call Hall—Later and afternoon
KSU van—Dormitory to Holidome
Holidome
8:25 a.m.  Trends and Applications of Diagnostic Kits (Dr. Stan Bailey)
9:05 a.m.  BioSys
10:05 a.m.  Van and cars to Call Hall
Call Hall
10:15 a.m.  Bio-Rad
10:45 a.m.  Biolog, Inc.
11:30 a.m.  Microbiology International
12:00 noon  Lunch on your own
1:30 p.m.  Remel
2:00 p.m.  Inoculation into API, Crystal Gram (+), Crystal Gram (-) ID Kit, Eiterotube.
Reading of conventional tests (VCC), Fung’s minitesis, Petrifilm, and chromogenic media
4:45 p.m.  "Streak plates for Monday, including Rapid L’mono and ALAO plates"
Divide into groups: BioSys, Biolog, 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

Optional dinner at Hunan Chinese Restaurant (Great Mongolian Buffet)

June 20
Monday
Holidome (Regency B)—Morning
Call Hall—Afternoon
8:20 a.m.  KSU Van—Dormitory to Holidome
Holidome
8:30 a.m.  Food pathogen detection (Salmonella, Listeria, Campylobacter. Conventional versus Rapid Methods (Dr. Stan Bailey and Dr. P.C. Vasavada)
June 21
Tuesday

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

8:20 a.m. KSI Van—Dormitory to Holidome

Holidome
8:30 a.m. Automation in Microbiology (Dr. Millicent Goldschmidt)

9:45 a.m. Holidome Van to Call Hall

Call Hall
10:00 a.m. TECRA Diagnostics: Rapid Pathogen Testing

10:30 a.m. Genetrak and Isogrid

11:00 a.m. Inoculate MicroID, RapID ANA II, RapID onE

11:30 a.m. Chemunex

12:00 noon Lunch on your own.

1:30 p.m. Reading of Salmonella 1-2 test

1:45 p.m. Microbiology International Description of systems

2:30 p.m. Strategic Diagnostics, Inc.

3:00 p.m. Read MicroID, RapID ANA II, RapID onE, Read Listeria ID

4:00 p.m. Genetrak, Tenca, Microbiology International, SDI, and Chemunex

5:30 p.m. KSI Van to Holidome.

7:00 p.m. Holidome Van to Picnic, KSI Van to Picnic.

June 22
Molecular Detection Day

Wednesday

Holidome, then Veterinary School
8:20 a.m. Dormitory Van to Holidome

Holidome
8:30 a.m. Instrumentation lecture (Dr. Millicent Goldschmidt)

10:00 a.m. Holidome Van to Veterinary School

Veterinary School
10:15 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, Bax and Qualicon, Cepheid, Warnex Diagnostics

3:15 p.m. Purdue University Biosensor Mini-Workshop

“Center for Food Safety Engineering at Purdue,” Dr. Richard H. Linton, Center Director

“Micro-scale Bioseparations for Pathogenic Cell Concentration and Recovery,” Dr. Michael Ladisch, Professor, Agricultural and Biological Engineering

“Optical Immunosensors and Cell-based Detection for Listeria monocytogenes,” Dr. Arun Bhunia, Professor, Food Science

“Nanotechnology and Micro Fluidics for Pathogen Detection,” Dr. Rashid Bashir, Associate Professor, Electrical and Computer Engineering

“Novel Using Bioluminescence Techniques,” Dr. Bruce Applegate, Associate Professor, Food Science

“Phage-display Method for Antibody Production and New Sandwich Methods for Pathogen Detection,” George Paoli and Andrew Gehring, Research Scientists. USDA-ARS
6:15 p.m. | KSU Van—Dormitory to Holidome
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**Evening**
6:00 p.m. | Cash Bar
7:00 p.m. | Banquet—Western (Cowboy) Barbeque
Dress appropriately. FUN!
8:00 p.m. | Talent Show
Those with talents please volunteer!

**June 23**

**Thursday**
Holidome (Regency B)—Morning
Call Hall—Afternoon
8:20 a.m. | KSU Van—Dormitory to Holidome

**Holidome**
8:30 a.m. | “Advantages to Using Rapid Methods for Monitoring Sanitation in Food Processing facilities”
Dr. Scott Russell, Quarter Century Fellow
9:45 a.m. | AutoJet Technologies
10:30 a.m. | Break
11:00 a.m. | Review of Data and Group Discussion (Dr. Randy Pfebus)

**12:00 noon** | Lunch on your own
**1:00 p.m.** | Holidome Van to Call Hall

**Call Hall**
1:30 p.m. | New Horizons Diagnostic
2:15 p.m. | Biotrace
3:00 p.m. | Demonstrations of New Horizons and Biotrace
3:30 p.m. | “Innovative Microbiological Approaches to Food Science”
Dr. Daniel Y. C. Fung, Director

**4:00 p.m.** | Open Session
**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

**June 24**

**Friday**
Holidome (Regency B1)—All Day
8:20 a.m. | KSU Van—Dormitory to Holidome

**Holidome**
8:30 a.m. | “Microbial Toxins and Food Safety”
Reginald Bennett, FDA, Silver Medallion Fellow
10:00 a.m. | Break
10:30 a.m. | Innovative agar media (E. coli O157:H7, etc.) and toxin systems demonstrations
General discussion and presentation of certificates (Fung)
12:00 noon | Workshop adjournment

*We will organize departure van activities.*

**HAVE A SAFE TRIP HOME!**

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**Social Activities**

A gala celebration, welcome and farewell receptions, one lunch, two banquets, and a midweek picnic are planned. Informal, optional dinner meetings will be arranged. Spouses are welcome to attend at no charge except for ticketed events. Due to hot weather, casual dress during the workshop is recommended. You may wish to wear coats and ties/dresses to the banquets.

**Location**

The Rapid Methods and Automation in Microbiology Mini-Symposium/Workshop will be held at the Holiday Inn in Manhattan, Kansas, and Call Hall—with a newly renovated modern laboratory and excellent lecture halls—on the Kansas State University campus.

**Transportation**

Manhattan has an airport served by U.S. Air Express. The charming city is approximately 130 miles west of Kansas City on Interstate Highway 70, a scenic drive of about two and one-half hours. KCI Roadrunner is an airport van shuttle service that runs between the Kansas City International Airport and Manhattan. For schedule information and reservations, call 1-800-747-2524, from outside the United States call 1-785-539-2284, or contact your travel agent. Reservations are recommended.

**Accommodations**

A block of rooms has been set aside for workshop participants at the Manhattan Holiday Inn/Holidome, 530 Richards Drive. Please refer to the workshop when making reservations directly with the Holiday Inn at 1-785-539-5311, FAX: 1-785-539-8368. The rate for a single or double room is $70 plus tax per night. Please make reservations before May 15, 2005, to receive the reduced rate.

Campus residence hall facilities featuring single rooms with bathroom facilities on each corridor are also available for workshop participants. Reservations include nine nights (Wednesday through Thursday) and nine optional breakfasts (Thursday through Friday). Additional nights are also available upon request. Transportation will be furnished to and from the Holiday Inn. For rate information or to make a reservation for campus residence halls, call 1-785-532-5569. The deadline for reservations is May 15, 2005.

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**Note:**

1. **Arrival**—At Manhattan Municipal Airport, call Holiday Inn (direct phone line in baggage area) for courtesy van to Holiday Inn or KSU dormitory. If you rent a car be sure to obtain a KSU parking permit from Dr. Fung starting Monday, June 26.

2. **Poster Session**—Please indicate on the registration form if you wish to present a scientific poster at the mini-symposium. A space will be available for display of posters. A certificate of participation will be issued to the senior author. Top three posters will receive awards.
Workshop Fees
The registration fee for the 2005 Rapid Methods and Automation in Microbiology Workshop is $1,995 (includes the celebrationミニ-symposium). This includes nine days of program sessions and laboratories, all handout materials, and a one-year subscription to Journal of Rapid Methods and Automation in Microbiology. Also included are the celebration, two banquets, one lunch, one picnic, refreshment breaks and receptions. Other meals, lodging, and transportation are not included. Payment must be in U.S. dollars or by World Wide Money Order.

Mini-Symposium and Celebration Fees
The registration fee for the mini-symposium of June 16–18 is $615. The fee includes all sessions, handouts, refreshment breaks, one lunch, symposium banquet, one reception and the celebration.

Molecular Detection Day
A special one-day registration option is available for Molecular Detection Day on June 22. The day includes a Biosensor Mini-Workshop conducted by Purdue University. This single-day registration fee is $200.

University Credit
Two hours of graduate credit (optional) are available for an additional $524. To register for credit, go to www.dce.ksu.edu and click “Course Offerings.” Enter course number (FDSCI 713) or reference number (90305) in the appropriate field.

CEUs
Each participant will receive a Certificate of Participation upon completion of the workshop. Optional CEUs are also available for an additional $15.

Bank/Wire Transfer
In the bank/wire transfer, be sure to include Division of Continuing Education, Rapid Methods and Automation in Microbiology, and your last name.

Account Name: State Fee Accnt.
Account No.: 40180123
Intrust Bank
630 Humboldt
Manhattan, KS 66502
785-565-5400
Routing No.: 101100029
Sort or Swift Code: CBKCUS44

Refund/Cancellation Information
The workshop registration fee, less a $100 handling charge, will be cheerfully refunded if notice of cancellation is received on or before May 28, 2005. After that date, a 75 percent refund will be available until June 15, 2005. Due to guarantees we must give, no refund will be available after June 15, 2005.

The Division of Continuing Education may cancel or postpone any course or activity because of insufficient enrollment or other unforeseen circumstances. If a program is canceled or postponed, the Division of Continuing Education will refund registration fees but cannot be held responsible for other costs, charges, or expenses, including cancellation/ change charges assessed by airlines or travel agencies.

Graduate Student Fellowships
Fellowships, including tuition, room, and board, may be awarded to highly qualified degree-seeking graduate students to participate in the workshop as special assistants. Contact Dr. Daniel Y.C. Fung for details. Application deadline: April 15, 2005.

Questions
If you have questions concerning the workshop scientific content or format, contact Dr. Daniel Y.C. Fung at Tel: 1-785-532-1208, Fax: 1-785-532-3295, or E-Mail: dfung@zemt.ksu.edu.

Questions concerning registration or general information should be directed to the Rapid Methods and Automation in Microbiology Program Coordinator at 1-800-432-8222 in the U.S., or 1-785-532-5575 outside the U.S.

Fast, Easy Registration

Online Registration:
http://www.dce.ksu.edu/dce/ci/rapidmethods/

By Mail—Send registration form to Microbiology,
131 College Court Building, Kansas State University, Manhattan, KS 66506-6015.

By Fax—Fax the registration form to 1-785-532-2422. Attn: Microbiology.

By Phone—Call 1-800-432-8222 (in the U.S.) or 1-785-532-5569 (outside the U.S.) and ask for Non-Credit Programs Registration. Office hours: Mon.–Fri., 8 am to 5 pm CST.

Limited Enrollment
Enrollment in the workshop is limited. Please register as soon as possible to guarantee your enrollment. There is no enrollment limit for the celebrationミニ-symposium on June 16–18.

Web Site
Program and registration information is available at http://www.dce.ksu.edu/dce/ci/rapidmethods/.

For other continuing education opportunities, visit the KSU Division of Continuing Education web site at http://www.dce.ksu.edu/.

Letter of Invitation
If you require a visa to enter the United States and need a letter of invitation to the workshop, please contact Dr. Fung. (This letter of invitation will be faxed to you or sent to you via e-mail. We will not send original letters to embassies or provide assistance in securing a visa.)

A silver medallion crafted specially for the 25th Gala Celebration and will be presented to all official participants.