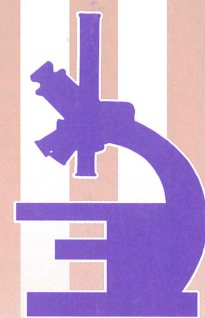
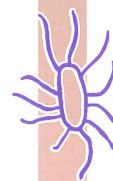


# 27th Annual



## International Workshop XXVII

### Rapid Methods and Automation in Microbiology

*A Celebration/Symposium and Workshop  
Shaping the New Millennium*

*June 15-22, 2007 Mini-Symposium/Workshop  
Kansas State University Manhattan, Kansas*

*1980-2007*

**Rapid Methods and  
Automation in Microbiology XXVII  
Shaping the New Millennium  
June 15-22, 2007**



Continuing Learning  
Division of Continuing Education  
241 College Court Building  
Manhattan, KS 66506-6006



Kansas State University®

# Rapid Methods and Automation in Microbiology XXVII



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

## Designed for

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

## Visiting Professors



**Dr. Millicent Goldschmidt**, Professor at The University of Texas Health Science Center at Houston, Medical School in the Department of Microbiology and Molecular Genetics, has authored more than 200 publications. Her particular expertise in microbiological instrumentation

has led her to be recognized as an Outstanding Women in Science by the Association for Women in Science in 1986 and as "Outstanding Alumna" for 2006 by the Department of Biological Sciences at Purdue University.



**Dr. J. Stan Bailey** is a research microbiologist with the United States Department of Agriculture, a Fellow of AAM and IAFP, Silver Medallion Fellow of the workshop, and adjunct professor at the University of Georgia and Kansas State University. He will be president of IAFP in 2009 and has published more than 500 publications in the area of poultry microbiology and microbiological methods.



*The host family  
Catherine and Daniel*

## 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, Egypt, Peoples Republic of China, Singapore, Finland, Iceland, Brazil, Spain, Mexico, Thailand, Colombia, Poland, Hungary, Zimbabwe, Chile, Argentina, Hong Kong, the Philippines, Korea, Taiwan, etc. and the United States. He has more than 800 publications in journals, books, and proceedings, and is the recipient of the **2006 Carl R. Fellers Award** given by the Institute of Food Technologists because of his career achievements in food science. He is editor of *Journal of Rapid Methods and Automation in Microbiology*, a Fellow of IFT, AAM, and IAFOST. He presented an invited lecture at Pasteur Institute in Paris during the 100th year commemoration of Pasteur's death in 1995. He was honored in 2006 as the first Distinguished Professor at the Autonomas University of Barcelona in Spain. Dr. Catherine L. Fung is an honorary founding fellow.

## Assistant to the Director



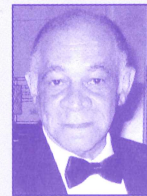
**Dr. Beth Ann Crozier-Dodson**, Post-Doc, research associate, and Quarter Century Fellow, will coordinate the hands-on laboratory sessions and functions of the workshop. She has assisted Dr. Fung with workshops in the United States, Mexico, Norway, China, and other locations.

## 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.



**P.C. Vasavada**



**Reginald Bennett**

## Twenty-Seventh International Symposium/Workshop

### Rapid Methods and Automation in Microbiology

Kansas State University • June 15-22, 2007

Thurs., June 14	Arrival (Note 1)	5:15–7:00 pm	Wine and cheese reception Visit industry exhibits and posters
Fri., June 15*	All sessions at Clarion Hotel		
11:00 am	Food Science Seminar “ <i>Campylobacter</i> Research in France” Dr. Martine Denis, AFSSA, France	7:00 pm	Workshop and Mini-Symposium Opening Banquet (Great Kansas Beef)
Noon	Registration Visit Industry Exhibits and Posters (Note 2)		After-dinner Speaker “Rapid Methods and Bioterrorism Defense” Dr. Jerry Jaax, Associate Vice Provost, Kansas State University
1:00 pm	Welcome Dr. Ken Odde, Department Head Animal Sciences and Industry Kansas State University	Sat., June 16*	Morning sessions at Clarion Hotel
	Dr. Curtis Kastner, Director, Food Science Institute, Kansas State University	8:30–10:00 am	“25 Years of Rapid Methods and Global Market Trends and Predictions” Dr. Daniel Y.C. Fung, Director
1:15 pm	Paul A. Hartman Memorial Lecture “The Role of Bacterial Spores in Food Safety and Security” Dr. Frank Busta, University of Minnesota	10:00–10:30 am	Refreshment break Visit industry exhibits and posters
		10:30–11:30 am	Open discussion on needs and experi- ences of Rapid Methods Panel of experts
2:15–3:00 pm	Refreshment break Visit industry exhibits and posters	11:30 am–1:00 pm	Lecture and Working Luncheon “Automation in Microbiology I” Dr. Millicent C. Goldschmidt Visit industry exhibits and posters
3:00–3:30 pm	Parade of Participants		
3:30–4:14 pm	Distinguished and Silver Medallion Fellow Lecture “Use of Rapid Methods in the Food Industry” Dr. Ann Marie McNamara, Silliker Laboratory	1:00 pm	End of Mini-Symposium, industry exhibits and posters
	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		

\* A mini-symposium occurs on June 15 and 16.

A room for scientific poster sessions will be available.  
Poster competition awards will be given. (Note 2)

#### Note:

- 1. Arrival**—At Manhattan Municipal Airport, call Clarion (direct phone line in baggage area) for courtesy van to Clarion or KSU residence hall. If you rent a car be sure to obtain a KSU parking permit from Dr. Fung before Monday, June 18.
- 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. Plaques will be awarded to the top three posters.

#### The Rapid Methods International Microbiology Family

**Previous participants**, numbering about 4,000 scientists from 1981 to 2006, came from 60 countries. Since 1990, 35 internationally known scientists were designated as **Distinguished Fellows**. Since 1987, 50 outstanding graduate students and scholars were named Fellows. In the 25th anniversary celebration a **silver medallion** was presented to participants and 22 Distinguished Fellows.

## Saturday, June 16

### WORKSHOP STARTS\*\* (Call Hall, K-State campus)

**General Laboratory Coordinator** - Dr. Beth Ann Crozier-Dodson

**Afternoon Laboratory:** viable Cell Counts—Conventional, Petrifilm, BBL, CHROMagar, Spiral plater, Hycheck, BD Diagnostics, 3M, Remel

### Welcome Reception and Tour at Konza Prairie

## Sunday, June 17

**Morning Lecture and Laboratory:** Trends and Applications of Diagnostic Kits (Dr. Stan Bailey), Bio-Rad, Biolog, Inc., Microbiology International

**Afternoon Laboratory:** API, Crystal, Enterotube, ISO-FUNG DT-System, MicroBioLogics

### Dinner at Hunam Chinese Restaurant (Great Mongolian Buffet)

## Monday, June 18

**Morning Lecture and Laboratory:** Food pathogen detection—*Salmonella*, *Listeria*, *Campylobacter*: Conventional vs. Rapid Methods (Dr. Stan Bailey and Dr. P. C. Vasavada), U.S. Army Food Safety Program (Dr. Roger Parker)

**Afternoon Laboratory:** BioControl Products, BioBall™, Neogen, HiMedia Laboratories, bioMerieux, Inc. TEMPO, etc.

### Optional Dinner at Harry's Uptown Restaurant (fine dining)

## Tuesday, June 19

**Morning Lecture and Laboratory:** Automation in Microbiology II (Dr. Millicent Goldschmidt): Biotrace International, Inc/TECRA Diagnostics, Chemunex, etc.

**Afternoon Laboratory:** Bioscience International, Strategic Diagnostics, Inc., Oxyrase, SAS Air Sampler, BioScreen

### Workshop Picnic at Tuttle Creek

## Wednesday, June 20 MOLECULAR DETECTION DAY

**Morning Lecture:** Basic Principles and Applications of PCR (Dr. Richard Obserst) National Alliance for Food Safety and Security Mini-Symposium (Dr. Richard Linton, Director, and a panel of experts from Purdue University, USDA-ARS, and NAFSS)

**Afternoon Laboratory:** TaqMan, Bax, DuPont Qualicon, Cepheid, Warnex, Core MicroSolutions, Applied BioSystems

### Workshop Farewell Banquet at Clarion

## Thursday June 21, 2007

**Morning Lecture:** Rapid Methods for Monitoring Sanitation in Food Processing Facilities (Dr. Scott Russell)

**Afternoon Laboratory:** KSU Innovative Air and Water Sampling Research (Dr. Beth Ann Crozier-Dodson), New Horizons, Novel Approaches (Dr. Daniel Y.C. Fung)

### Farewell Pool Party

## Friday June 22, 2007

**Morning Lecture:** Microbial Toxins and Food Safety (Reginald Bennett), general discussion and presentation of certificates (Dr. Daniel Y.C. Fung)

**Noon:** Workshop adjourns

\* The participation of commercial companies and speakers is in the negotiation stage.

## Social Activities

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 Symposium/Workshop will be held at the **Clarion** (formerly the Holiday Inn) in Manhattan, Kansas, and at **Call Hall** and **Trotter Hall** on the Kansas State University campus.

## Transportation

Manhattan has an airport served by U.S. Airways. 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 toll free in the United States 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 Clarion Hotel, 530 Richards Drive. **Please refer to the workshop when making reservations directly with the Clarion at 1-785-539-5311, FAX: 1-785-539-8368.** The rate for a single or double room is \$71 plus tax per night. Please make reservations before **May 15, 2007**, to receive the reduced rate.

Campus residence hall facilities featuring single rooms with bathrooms on each corridor are also available for workshop participants for \$32 per night. Transportation to and from workshop lectures and activities will be provided. Meals are available for purchase in the residence hall dining center. For more information or to reserve residence hall housing, call 1-785-532-2560. **The deadline for reservations is May 15, 2007.**

## Website

Program and registration information is available at [www.dce.ksu.edu/conf/rapidmethods/](http://www.dce.ksu.edu/conf/rapidmethods/).

For other continuing education opportunities at K-State, visit the Division of Continuing Education website at [www.dce.ksu.edu/](http://www.dce.ksu.edu/).

## Industry Exhibitor/Participant

Commercial Rapid Systems are invited to exhibit their latest products during the mini-symposium on June 15-16 and to attend the entire workshop. To register as an industry participant, please contact Dr. Fung at [dfung@ksu.edu](mailto:dfung@ksu.edu).

## Fees

### **Workshop**

The registration fee for the 2007 *Rapid Methods and Automation in Microbiology Workshop* is \$2,155 (includes the mini-symposium and Molecular Detection Day). This includes eight 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 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**

The registration fee for the mini-symposium of June 15-16 is \$650. The fee includes all sessions, handouts, refreshment breaks, one lunch, symposium banquet, and one reception.

### **Molecular Detection Day**

A special one-day registration option is available for Molecular Detection Day on June 20. The day includes a Biosensor Mini-Workshop organized by Purdue University/USDA and KSU Vet School. This single-day registration fee is \$250.

### **University Credit**

Two hours of graduate credit (optional and transferable) are available for an additional \$734. To register for credits, go to [www.dce.ksu.edu](http://www.dce.ksu.edu) and click "Course Offerings." Enter course number (FDSCI 713) or reference number (90390) in the appropriate field.

### **CEUs**

Each participant will receive a certificate of participation upon completion of the workshop. Optional CEUs are available for an additional \$25.

### **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: May 15, 2007.**

### **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 Acct. 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 **June 1, 2007**. After that date, a 75 percent refund will be available until **June 8, 2007**. Due to guarantees we must give, no refund will be available after **June 8, 2007**.

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.

## **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: 1-785-532-5681, or e-mail: [dfung@ksu.edu](mailto:dfung@ksu.edu) or Dr. Beth Ann Crozier-Dodson at Tel: 1-785-532-1298 or e-mail [bethann@ksu.edu](mailto:bethann@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/conf/rapidmethods/>



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



**By Fax**—Fax the registration form to 1-785-532-2422. Attn: Rapid Methods.



**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 mini-symposium on June 15-16 or the NAFSS Molecular Detection Day on June 20.

## **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.*)

## **Workshop Hosts**

The workshop is hosted by the Department of Animal Sciences and Industry and the Food Science Institute at Kansas State University.

# Registration Form—Rapid Methods and Automation in Microbiology XXVII

Register online at [www.dce.ksu.edu/conf/rapidmethods](http://www.dce.ksu.edu/conf/rapidmethods)

• \_\_\_\_\_  
 First Name \_\_\_\_\_ Middle Initial \_\_\_\_\_ Family or Last Name \_\_\_\_\_  
 (EXACTLY as you wish it to appear on certificate)

• \_\_\_\_\_  
 Job Title (Please be specific)

• \_\_\_\_\_  
 Company, Agency, or University, etc.

• \_\_\_\_\_  
 Address

• \_\_\_\_\_  
 City, State, ZIP Code, Country

• Telephone \_\_\_\_\_ • FAX \_\_\_\_\_  
 (include country and area codes for both numbers)

• E-mail \_\_\_\_\_

•  Male  Female

**Assistance for Participants with Disabilities/Dietary Requirements**  
 In order to assist you, please indicate by May 15, 2007 any special requirements and assistance needed. \_\_\_\_\_

•  I request vegetarian meals. (Due to guarantees which must be given in advance, changes cannot be permitted at the conference/workshop, etc.)

• Poster Presentation \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ 8 feet × 4 feet maximum  
 Senior Author of Poster: \_\_\_\_\_





### Poster Presentation

Workshop participants are encouraged to enter the scientific poster competition during the mini-symposium portion of the workshop. Plaques will be awarded to the top three posters. Entries should be submitted online at the workshop website, [www.dce.ksu.edu/conf/rapidmethods](http://www.dce.ksu.edu/conf/rapidmethods). Deadline is June 8, 2007.

- \_\_\_\_\_ **\$2,155 Workshop registration** (includes mini-symposium and Molecular Detection Day)
- \_\_\_\_\_ **\$650 Mini-Symposium only** (June 15–16)
- \_\_\_\_\_ **\$250 Molecular Detection Day only** (June 20)
- \_\_\_\_\_ **\$25 CEUs** (optional)

To register for two hours of graduate credit, go to [www.dce.ksu.edu](http://www.dce.ksu.edu) and click "Course Offerings." Enter course number or reference number and click "Search."

### Method of Payment

- Check (payable to Kansas State University FEIN 48-0771751)
- Invoice my company at the address on form
- Charge to: MasterCard  Visa  Discover  American Express 
- Bank Wire Transfer

• \_\_\_\_\_  
 Print Cardholder's Name \_\_\_\_\_ Cardholder's Signature \_\_\_\_\_

• \_\_\_\_\_  
 Card Number \_\_\_\_\_ Expiration Date \_\_\_\_\_

To register by telephone, call **1-785-532-5569** and ask for conference registration. Or FAX your registration to us at **1-785-532-2422** or e-mail [registerdce@ksu.edu](mailto:registerdce@ksu.edu).

### Roster Release

\_\_\_\_\_ Initial here if you do not want your name on the participant roster for this program.

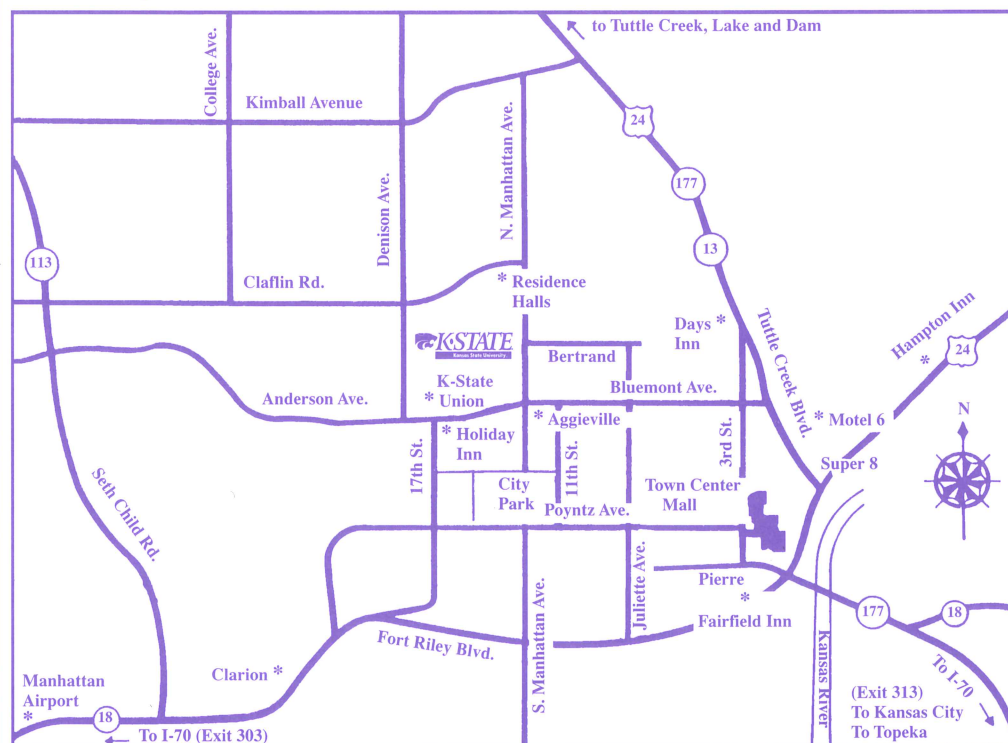
### Return this form to:

Rapid Methods and Automation in Microbiology—Registration  
 Kansas State University  
 Division of Continuing Education  
 131 College Court Building  
 Manhattan, KS 66506-6015 USA

Cut and mail (please keep a copy for your records).

View this brochure online at [www.dce.ksu.edu/conf/rapidmethods/](http://www.dce.ksu.edu/conf/rapidmethods/).

## Manhattan, Kansas



### Special Assistance

Kansas State University is committed to making program activities accessible to all participants. If you have special requirements due to disabilities or dietary restrictions, indicate your needs on the registration form or contact the Division of Continuing Education Registrar at (785) 532-5569 at least three weeks before the start of the program. After this date, we will make every effort to provide the assistance, but cannot guarantee that requested services will be available.

### Notice of Nondiscrimination

Kansas State University is committed to nondiscrimination on the basis of race, sex, national origin, disability, religion, age, sexual orientation, or other nonmerit reasons, in admissions, educational programs or activities and employment (including employment of disabled veterans and veterans of the Vietnam Era), as required by applicable laws and regulations. Responsibility for coordination of compliance efforts and receipt of inquiries concerning Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, and the Americans With Disabilities Act of 1990, has been delegated to Clyde Howard, Director of Affirmative Action, Kansas State University, 214 Anderson Hall, Manhattan, KS 66506-0124, (Phone) 785-532-6220; (TTY) 785-532-4807.