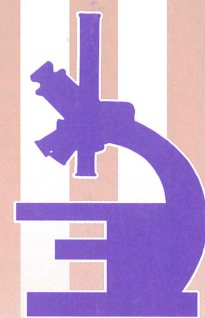
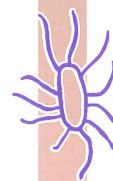


# 27th Annual



## 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





# 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

<b>Thurs., June 14</b>	Arrival (Note 1)	5:15–7:00 pm	Wine and cheese reception Visit industry exhibits and posters
<b>Fri., June 15*</b>	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	<b>Sat., June 16*</b>	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
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## **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 x 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.

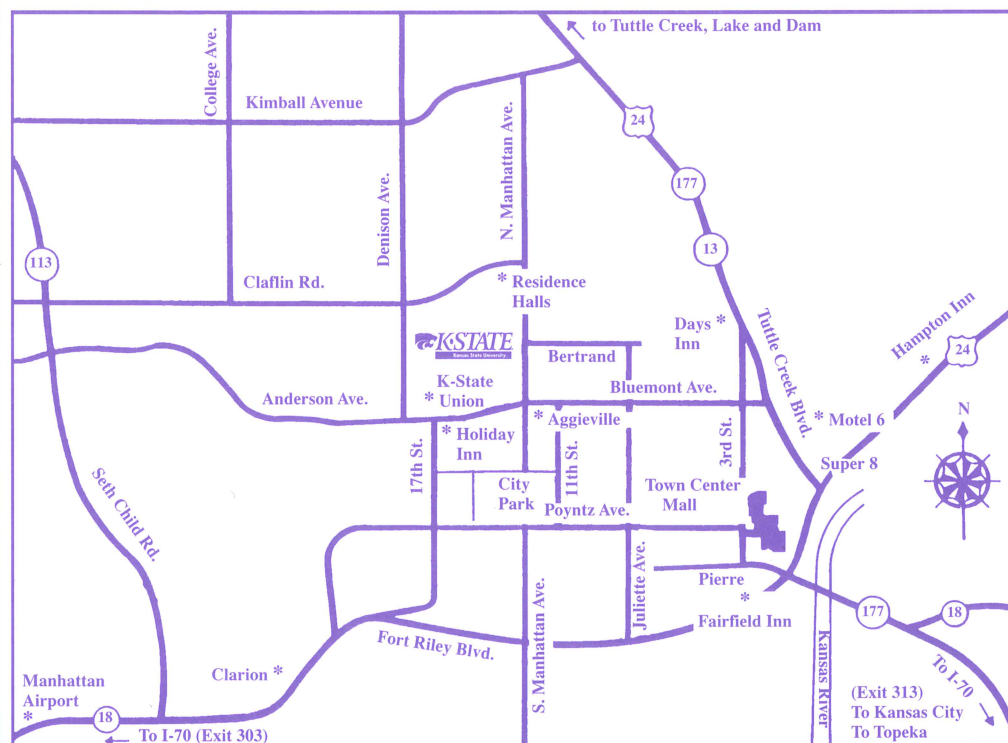
### Return this form to:

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.



# 28th Annual



## International Workshop XXVIII

### Rapid Methods and Automation in Microbiology

June 13–20, 2008 Mini-Symposium/Workshop  
Kansas State University Manhattan, Kansas

*A Symposium and Workshop  
Shaping the New Millennium  
1980–2008*



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

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Manhattan, Kan. 66502



Rapid Methods and  
Automation in Microbiology XXVIII  
Shaping the New Millennium  
June 13–20, 2008



# Rapid Methods and Automation in Microbiology XXVIII



## 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.

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## 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 instrumenta-

tion has led her to be recognized as an Outstanding Woman 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** and Distinguished Professor at the Autonomas University of Barcelona in Spain. He has presented lectures and symposia in

Sweden, Germany, Great Britain, France, Czechoslovakia, Canada, Israel, Italy, Egypt, Peoples Republic of China, Singapore, Finland, Iceland, Brazil, Turkey, Spain, Mexico, Thailand, Colombia, Poland, Hungary, Zimbabwe, Chile, Argentina, Hong Kong, the Philippines, Korea, Taiwan, and the United States. He has more than 800 publications in journals, books, and proceedings and is the recipient of the 2007 Outstanding Educator in Food Safety Award, given by Food Safety magazine and ConAgra at the IAFP national meeting in June 2007. He completed 100 graduate students (33 Ph.D. and 67 M.S.) as the major professor, and he is 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. Dr. Catherine L. Fung is an honorary founding fellow.

## Assistant 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 presented workshops and lectures in the United States, Mexico, Norway, China, Spain, Italy, and elsewhere.

## 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**



**Julian Cox**



**Ann Marie McNamara**



**Scott Russell**



## Twenty-Eighth International Symposium/Workshop Rapid Methods and Automation in Microbiology Kansas State University • June 13-20, 2008

<b>Thursday, June 12</b>	Arrival (Note 1)	5:30 p.m.	Wine and Cheese Reception Industry Exhibits and Posters
<b>Friday, June 13</b>	MINI-SYMPOSIUM* – All sessions at Clarion Hotel	7:00 p.m.	Workshop and Mini-Symposium Opening Banquet (Great Kansas beef)
10:00 a.m.	Registration		
11:00 a.m.	Food Science Seminar Dr. Helene Bergis, AFSSA		“Food Safety and Security Strategies at K-State” Jerry Jaax, Research Vice Provost Kansas State University
Noon	Industry Exhibits and Posters (Note 2) Lunch on your own	<b>Saturday, June 14</b>	Morning sessions at Clarion Hotel
1:00 p.m.	Welcome Dr. Ken Odde, Department Head Animal Sciences and Industry Kansas State University	8:30 a.m.	“25 Years of Rapid Methods and Global Market Trends and Predictions” Dr. Daniel Y. C. Fung, Director
	Dr. Curtis Kastner, Director Food Science Institute Kansas State University	10:00 a.m.	Break Industry Exhibits and Posters
1:15 p.m.	Paul A. Hartman Memorial Lecture “Global Food Microbiology and Rapid Methods” Dr. Paul Hall, ConAgra Foods	10:30 a.m.	“Automation in Microbiology I” Dr. Millicent C. Goldschmidt, Professor University of Texas Health Science Center
2:15 p.m.	Break Industry Exhibits and Posters	Noon	Working Lunch
3:00 p.m.	Parade of Participants		Open discussion on needs and experi- ences of Rapid Methods presented by a panel of experts
3:30 p.m.	Distinguished and Silver Medallion Fellow Lecture “Use of Rapid Methods in the Food Industry” Dr. Ann Marie McNamara Silliker Laboratory	1:00 p.m.	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		

\*The mini-symposium occurs on June 13 and 14.

### Note:

1. **Arrival**—At Manhattan Municipal Airport, call Clarion (direct phone line in baggage area) for courtesy van to Clarion or K-State residence hall. If you rent a car, be sure to obtain a K-State parking permit from Dr. Fung before Monday, June 16.
2. **Poster Session**—Please indicate on the registration form if you wish to present a scientific poster at the mini-symposium on June 13 and 14. 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 during the opening banquet on Friday, June 13.

### The Rapid Methods International Microbiology Family

**Previous participants**, numbering about 4,000 scientists from 1981 to 2007, came from 60 countries. Since 1990, 40 internationally known scientists were designated as **Distinguished Fellows**. Since 1987, 55 outstanding graduate students and scholars were named Fellows. In the 25th anniversary celebration, **silver medallions** were presented to participants and 22 Distinguished Fellows.



## Saturday, June 14

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

**Assistant Director:** 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 15

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#### Optional Dinner at Hunan Chinese Restaurant (great Mongolian buffet)

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

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

## Tuesday, June 17

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

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

#### Workshop Picnic

## Wednesday, June 18

**MOLECULAR DETECTION DAY** (Trotter Hall, Veterinary Medicine Complex, K-State campus)

**Morning Lecture:** Basic Principles and Applications of PCR (Dr. Richard Obserst), National Alliance for Food Safety and Security Mini-Symposium (Dr. Richard Linton & Dr. James Denton, Directors, 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

## Thursday, June 19

**Morning Lecture:** Rapid Methods for Monitoring Sanitation in Food Processing Facilities (Dr. Scott Russell), Food Allergy (Dr. P. C. Vasavada), Microbiological Analysis (Dr. Julian Cox)

**Afternoon Laboratory:** K-State 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 20

**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 mid-week 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 or 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 (Veterinary Medicine Complex)** on the Kansas State University campus.

## Transportation

Manhattan has an airport served by US 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 shuttle schedule information and reservations, call toll free in the United States at 1-800-747-2524, from outside the United States at 1-785-539-2284, or go to [www.kciroadrunner.com](http://www.kciroadrunner.com). 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.** The rate for a single or double room is \$71 plus tax per night. Please make reservations before **May 15, 2008** to receive the reduced rate.

Campus residence hall facilities featuring single rooms with bathrooms on each corridor are also available for workshop participants for \$35 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 or e-mail [debbieh@k-state.edu](mailto:debbieh@k-state.edu). **The deadline for reservations is May 15, 2008.**

## Website

Visit [www.dce.k-state.edu/conf/rapidmethods/](http://www.dce.k-state.edu/conf/rapidmethods/) for complete program and registration information.

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

## Industry Exhibitor/Participant

Commercial Rapid Systems are invited to exhibit their latest products during the mini-symposium on June 13-14 and to attend the entire workshop. To register as an industry participant, please contact Dr. Fung at [dfung@k-state.edu](mailto:dfung@k-state.edu).



## Fees

### Workshop

The registration fee for the 2008 *Rapid Methods and Automation in Microbiology Workshop* is \$2,255 (includes the mini-symposium and Molecular Detection Day). This includes eight days of program sessions, laboratories, and handout materials. Also included are two banquets, two lunches, 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 on June 13-14 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 18. The day includes a Biosensor Mini-Workshop organized by Purdue University/USDA and the K-State College of Veterinary Medicine. This single-day registration fee is \$250.

### University Credit

Two hours of graduate credit (optional and transferable) are available for an additional \$772. To register for credits, go to [www.dce.k-state.edu/courses](http://www.dce.k-state.edu/courses). Enter course number (FDSCI 713) or reference number (90370) in the appropriate field.

### Continuing Education Units

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, 2008.**

### 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 Account  
Account No.: 9871649245  
UMB Bank  
529 Humboldt  
Manhattan, KS 66502  
785-776-9400  
Routing No.: 101000695  
Sort or Swift Code: UMKCUS44

## 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, 2008**. After that date, a 75 percent refund will be available until **June 6, 2008**. Due to guarantees we must give, no refund will be available after **June 6, 2008**.

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 1-785-532-1208 or [dfung@k-state.edu](mailto:dfung@k-state.edu), or Dr. Beth Ann Crozier-Dodson at 1-785-532-1295 or [bethann@k-state.edu](mailto:bethann@k-state.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 1-785-532-2560 outside the U.S.

## Fast, Easy Registration



### Online Registration:

<http://www.dce.k-state.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 Conference Registration. Office hours: Mon.–Fri., 8 a.m. to 5 p.m. 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 13-14 or the NAFSS Molecular Detection Day on June 18.

## 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 XXVIII

Register online at [www.dce.k-state.edu/conf/rapidmethods](http://www.dce.k-state.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

\_\_\_\_\_

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, 2008 any special requirements and assistance needed. \_\_\_\_\_

\_\_\_\_\_

I request vegetarian meals. (Due to guarantees that must be given in advance, changes cannot be permitted at the workshop.)

• Poster Presentation \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ 8 feet x 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.k-state.edu/conf/rapidmethods](http://www.dce.k-state.edu/conf/rapidmethods). Deadline is June 6, 2008.

\_\_\_\_\_ **\$2,255 Workshop registration** (includes mini-symposium and Molecular Detection Day)

\_\_\_\_\_ **\$650 Mini-Symposium only** (June 13–14)

\_\_\_\_\_ **\$250 Molecular Detection Day only** (June 18)

\_\_\_\_\_ **\$25 CEUs** (optional)

To register for 2 hours of graduate credit, go to [www.dce.k-state.edu/courses](http://www.dce.k-state.edu/courses). 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. FAX your registration to **1-785-532-2422** or e-mail [registration@k-state.edu](mailto:registration@k-state.edu).

## Roster Release

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

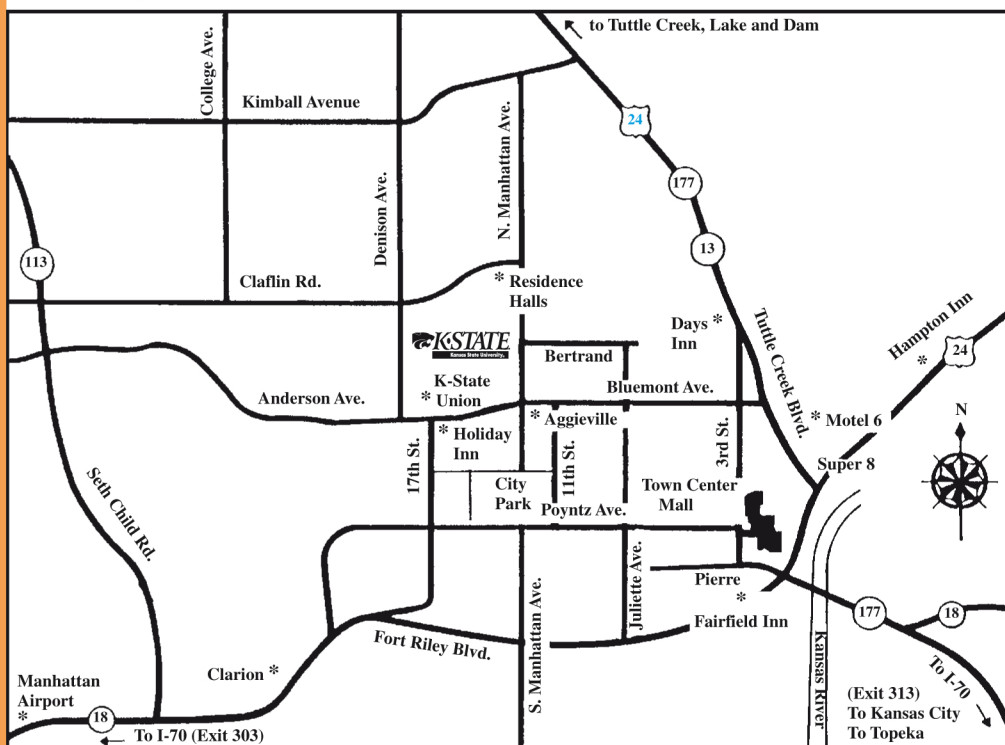
## Return this form to:

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

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

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

## Manhattan, Kansas



## Special Assistance for Conferences and Non-Credit Programs

A participant in a conference or non-credit program with a disability who needs accommodations or has special dietary requirements should indicate services needed at the time of registration. If you have further questions please contact the Conference Program Coordinator at (785) 532-5575 or 1-800-622-2KSU. Early notification is requested to ensure that accommodations can be provided in a timely manner.

## 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.



July 3, 2008

Dear 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, and 2007 participants:

It is indeed my great pleasure and honor to inform you that the 2008 International Workshop on Rapid Methods and Automation in Microbiology has been successfully completed. We had scientists from many countries and states who came to interact with many academic, industrial, and governmental scientists for eight intensive *lovely cool days*. The traditional reception at our home was moved to the Konza Prairie, a national preserve for native flora and fauna. Participants actually interacted with many bison at close range. Fantastic experience!

Participants still like my cooking and they asked me to sign my cookbook – “Chinese Cooking without Sweat.” I wrote “Dear Wonderful Microbiologist – Happy Woking!”

The large laboratory in Call Hall really helped to promote effective instruction in the Workshop. Our “Molecular Food Microbiology Day” at the Veterinary School was a huge success. This gave a new depth to the Workshop. Purdue University and the USDA sent four experts to the Molecular Day to update us on fantastic new technologies. It was worthwhile just to come back for that one day.

All in all, it was a most rewarding experience. The “Handbook” of Rapid Methods and Automation in Microbiology 2008, as well as the CVs of speakers and presenters, is now on a “disc”! It contains excellent information on the systems and technologies presented in the workshop. For a fee of \$35.00 U.S. plus postage, we will promptly send this disc, a workshop T-shirt (please tell us what size!), and a custom tote bag to you.

The 29<sup>th</sup> Workshop will be held from June 19-26, 2009. A formal announcement will be made as the year progresses.

For those of you who met our son Francis, I would like to tell you that he and Maria have FOUR children now, Dessi, 12; Zlati, 9; Kaya, 7; and Plamen, 3. They will be moving to the Boston area in August 2008. Zlati has been appointed as a cellist with the Boston Symphony Orchestra!! He is truly talented.

Think of us once in a while for we think of you always. **You are our best ambassadors!!**

Sincerely yours,



Daniel Y.C. Fung, Ph.D., Director and Professor of Food Science, KSU  
Fellow of AAM, IFT, and IAFoST  
Winner, IFT International Award, 1997, and IFT Carl R. Fellers Award 2006  
Winner 2007 Inaugural Outstanding Food Safety Educator Award  
University Distinguished Professor, Universitat Autònoma de Barcelona, Spain, 2007

Kansas State University  
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and U.S. Department of  
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without discrimination on  
the basis of race, color,  
religion, national origin,  
sex, age, or disability.

“Knowledge  
for Life”



## EDITORIAL



Daniel Y.C. Fung, James M. Jay, and Nelson A. Cox: “The Three Musketeers” of Applied Food Microbiology

### **The Iconic Dr. James Monroe Jay**

It was indeed a very sad day for me to receive the news of the passing of Dr. James M. Jay (1927–2008), one of the most beloved food microbiologists of all times. I stopped my work and reflected on the life of this extraordinary scientist, friend and colleague.

I consider Dr. Jay a true pioneer of food microbiology and the father of modern food microbiology. Before Dr. Jay, several giants of dairy bacteriology and meat/poultry microbiology had graced the field of applied food microbiology in the world. The publication of his classic text book *Modern Food Microbiology* (1970, Van Nostrand Reinhold Company, NY) defined his unique contribution and position in the field of food science and food microbiology.

I used Dr. Jay’s book as the text book for my food microbiology course when I started teaching at the Pennsylvania State University in 1969–1970 school year. That book and subsequent editions and updated versions with other experts have touched the lives of thousands and tens of thousands of students, scholars, faculty members, professionals, microbiologists, food scientists, researchers, etc., all over the world to this very day.

The first time I met Dr. Jay was at the first Food Microbiology Research Conference held in the Allerton Castle in Monticello, IL in 1972. It was a



beautiful setting where most of the active food microbiologists of the day got together to discuss important issues of food microbiology without reservation and repercussions. It was a free-for-all discussion and debate conference – no proceedings and written records of the deliberations were kept or produced and no cameras, tape recorders, TVs or any electronic recording devices were allowed. Participants could only use pens, pencils and papers and their brains for record keeping. It was truly a great conference series from the very beginning and it has been in existence for many decades.

The gorgeous Allerton Castle was the ideal place for the meeting. All the participants stayed in the castle compounds with separate areas for boys and girls. The formal rose gardens, fountains, ponds, trees and luxurious lawns were meticulously kept and enjoyed by all. The abundant food and endless flow of drinks were fabulous.

Inside the castle, there were many impressive rooms and lovely parlors with exquisite furniture and huge antique oil paintings, and then there was a grand piano. Being a pianist, I could not help but to play some tunes. Suddenly, behind me, a deep powerful baritone voice started to resonate in the air along with my music. I looked back and saw a portly gentleman singing to my tunes, with a cigar still in the corner of his mouth!! I stopped and politely started to stand up to introduce myself but he said, “Sit down, sit down, young man let us have some more duets.”

So, that was how I met Dr. Jay. We became great friends for almost 40 years and have interacted in national and international meetings all over the world. I will miss him for a long, long time and maybe, somehow in another space and time, we can meet again. I will play the piano and he will sing again, probably without the cigar.

DANIEL Y.C. FUNG  
Editor



**Division of Continuing Education**  
13 College Court Building  
Manhattan, KS 66506-6006

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## k-state conferences

[www.dce.k-state.edu/conf/rapidmethods](http://www.dce.k-state.edu/conf/rapidmethods)

**Rapid Methods  
and Automation in Microbiology XXIX**  
June 19-26, 2009



# 29th Annual Workshop & Symposium

International  
XXIX  
Kansas State University  
Manhattan, Kansas



### Location

The workshop will be held at the Clarion Hotel, located at 530 Richards Drive in Manhattan, Kansas, and at Call Hall and Trotter Hall on the Kansas State University campus.

A block of rooms at the Clarion is available to our attendees for \$71 per night, not including taxes. Refer to the Rapid Methods Workshop when making reservations directly with the hotel at 785-539-5311. Please make your reservation by May 14 to receive the special rate.

Campus residence hall facilities are also available for \$36 per night. To reserve accommodations in the residence hall or for more information, please call 785-532-2560, e-mail [debbieh@k-state.edu](mailto:debbieh@k-state.edu), or sign up for accommodations when you register for the workshop. Requests must be received by May 14.

**Participants are responsible for transportation costs to and from Manhattan.**

[www.dce.k-state.edu/conf/rapidmethods](http://www.dce.k-state.edu/conf/rapidmethods)

### Additional Information

#### INDUSTRY PARTICIPATION

Commercial rapid systems are invited to exhibit their latest products during the mini-symposium on June 19-20, and to attend the entire workshop. For more information on registering as an industry participant, please contact Dr. Fung ([dfung@k-state.edu](mailto:dfung@k-state.edu)) or Dr. Beth Ann Crozier-Dodson ([bethann@k-state.edu](mailto:bethann@k-state.edu)).

#### GRADUATE FELLOWSHIPS AND CREDIT

Fellowships may be awarded to highly qualified, degree-seeking graduate students to participate in the workshop as special assistants. Workshop fellows receive complimentary registration, room, and board. Contact Dr. Fung at [dfung@k-state.edu](mailto:dfung@k-state.edu) for details. Application deadline is May 21, 2009.

#### CREDIT COURSE (optional)

Two hours of graduate credit for FDSCI 713 are available for an additional \$860. Instructor permission is required to enroll; contact Dr. Fung at [dfung@k-state.edu](mailto:dfung@k-state.edu). When you register for the workshop, please request additional information about enrolling in the credit course.

#### CONTINUING EDUCATION CREDITS (optional)

Each participant will receive a certificate of participation at the conclusion of the workshop. Continuing education credits (55 hours) are available for \$25 and can be purchased when you register for the workshop.

#### 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 at [dfung@k-state.edu](mailto:dfung@k-state.edu). The letter of invitation will be sent to you by fax or e-mail. We will not send original letters to embassies or provide assistance in securing a visa.

#### REFUND/CANCELLATION POLICY

If you must cancel your registration, do so as soon as possible. Substitutions are accepted. Registration fees, less a \$100 processing fee, will be refunded if notice is received in the Division of Continuing Education conference registration office by 5 p.m. Central time on June 9. After that date, a 75 percent refund is available until June 12. Due to guarantees we must provide to vendors, no refund can be issued after that date. Fees will not be canceled for registered participants who do not attend and have not notified our registration office on or before the cancellation date.

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.

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[www.dce.k-state.edu/conf/rapidmethods](http://www.dce.k-state.edu/conf/rapidmethods)

## Rapid Methods and Automation in Microbiology Workshop

### About the Workshop

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 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 respected expert in the field.

Two mini-symposia are included as an integral part of the workshop. Attendees may register for the entire workshop or for one or both of the mini-symposia.

The Rapid Methods mini-symposium on June 19-20 features lectures and industry exhibits. The National Alliance for Food Safety and Security (NAFSS) mini-symposium on June 24 highlights original research work as well as summaries of key developments in nanotechnology, biosensors, infrared sensors, bioluminescence, immunomagnetic capture, immuno chemical methods, phage displacement, and protein-based microarray.

Register online at [www.dce.k-state.edu/conf/rapidmethods](http://www.dce.k-state.edu/conf/rapidmethods) or call 1-800-432-8222 (in the U.S.) or 1-785-532-5569 (outside the U.S.). Office hours are 8 a.m. to 5 p.m. Central time, Monday through Friday.

### Registration Information

[www.dce.k-state.edu/conf/rapidmethods](http://www.dce.k-state.edu/conf/rapidmethods)

#### WORKSHOP | June 19-26

Fee: \$2,355 | Includes eight days of program sessions and laboratories, handouts, two banquets, two lunches, one picnic, refreshments, breaks, and receptions

#### MINI-SYMPOSIUM | June 19-20

Fee: \$700 | Includes lectures, handouts, one lunch, opening banquet, and refreshment breaks

#### MOLECULAR DETECTION DAY | June 24

Fee: \$250 | Includes sessions, handouts, lunch, farewell banquet, and refreshment breaks

### Program Highlights

**Friday, June 19** | *Mini-Symposium and Industry Exhibits*

**Saturday, June 20** | *Mini-Symposium ends, Workshop begins*

**Sunday to Tuesday, June 21-23** | *Lectures and Laboratories*

**Wednesday, June 24** | *Molecular Detection Day: A National Alliance for Food Safety and Security Mini-Symposium*

**Thursday, June 25** | *Lectures and Laboratory*

**Friday, June 26** | *Lectures, Workshop adjourns*

#### Designed For:

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

### Workshop Staff

**Dr. Daniel Y. C. Fung** | *Professor of Food Sciences in the Department of Animal Sciences and Industry at Kansas State University and Distinguished Professor at the Autonomas University of Barcelona in Spain.* Dr. Fung is the workshop director. His wife, Dr. Catherine L. Fung, is an honorary Founding Fellow of the workshop.

**Dr. Beth Ann Crozier-Dodson** | *Post-doc in the Department of Animal Sciences and Industry at Kansas State University.* She is assistant director of the workshop and coordinates the hands-on laboratory sessions and functions of the workshop.

**Dr. Millicent Goldschmidt** | *Professor of the Dental Branch, Dental Science Institute, at The University of Texas Health Science Center in Houston, Medical School in the Department of Microbiology and Molecular Genetics.* She is a Founding Fellow of the workshop.

**Dr. J. Stanley Bailey** | *Retired research microbiologist with the United States Department of Agriculture. He is currently director of scientific affairs-industry for bioMérieux, Inc. and an adjunct professor at the University of Georgia and Kansas State University.*

### See Website for Detailed Agenda



**Dr. Daniel Y. C. Fung** | *Workshop Director*  
**Dr. Catherine Fung** | *Honorary Founding Fellow*

#### Guest Lecturers

**Dr. P. C. Vasavada** | *University of Wisconsin-River Falls*

**Reginald Bennett** | *United States Food and Drug Administration*

**Dr. Julian Cox** | *University of New South Wales, Sydney, Australia*

**Dr. Ann Marie McNamara** | *Jack-in-the-Box Corp.*

**Dr. Scott Russell** | *University of Georgia*

## EDITORIAL



### **Reflections on Kansas State University XXIX International Workshop on Rapid Methods and Automation in Microbiology, June 19–26, 2009**

It is my great pleasure to inform the readers of this journal that the Kansas State University (KSU) XXIXth Rapid Methods Workshop was successfully completed on June 26, 2009. It is hard for me to realize that for *29 consecutive years*, the Department of Animal Sciences and Industry and the Food Science Institute have staged this international event.

How time flies. More than 4,000 participants from more than 40 countries have participated in the current longest continuous running scientific and educational program at KSU, and honored this workshop on this lovely campus and the charming city of Manhattan, Kansas. Besides world-renowned applied and theoretical microbiologists from the U.S.A. and abroad giving up-to-the minute information on a variety of cutting-edge applied microbiological topics and concepts, the participants had hands-on experiences on some



of the most sophisticated systems and instruments in miniaturization, automation, immunology, applied microbiology, innovative culture media, PCR and all its many formats and applications, microarrays, molecular biology, etc. The eight solid days of intensive interactions also included banquets, gatherings, tours and hiking in the NSF Konza Research and Educational Prairie facilities, where participants actually came face to face with huge formidable Kansas bisons in their natural habitat and environment.

The picnics, receptions, banquets, pool party and talent shows helped to provide meaningful diversions and personal interactions from the intense physical and mental activities. The friendship and camaraderie generated will last for a long, long time.

All in all, it was a most rewarding experience for all. Dr. Daniel Y. C. Fung and Dr. Catherine L. Fung, host family, sitting at the edge of the pool in the photo, are smiling with pride and joy for being the hosts to this event for 29 years and waiting to greet the participants of the GALA XXX International Workshop on Rapid Methods and Automation in Microbiology, June 10 to 18, 2010.

DANIEL Y.C. FUNG  
Editor

July 7, 2009

Dear 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, and 2008 participants:

It is indeed my great pleasure and honor to inform you that the 2009 International Workshop on Rapid Methods and Automation in Microbiology has been successfully completed. We had scientists from many countries and states who came to interact with many academic, industrial, and governmental scientists for eight intensive *lovely cool days*. The traditional reception at our home was moved to the Konza Prairie, a national preserve for native flora and fauna. Participants actually interacted with many bison at close range. Fantastic experience!

Participants still like my cooking and they asked me to sign my cookbook – “Chinese Cooking without Sweat.” I wrote “Dear Wonderful Microbiologist – Happy Working!”

The large laboratory in Call Hall really helped to promote effective instruction in the Workshop. Our “Molecular Food Microbiology Day” at the Veterinary School was a huge success. This gave a new depth to the Workshop. Purdue University and the USDA sent four experts to the Molecular Day to update us on fantastic new technologies. It was worthwhile just to come back for that one day.

All in all, it was a most rewarding experience. The “Handbook” of Rapid Methods and Automation in Microbiology 2009, which includes the CVs of speakers and presenters, is now on a “disc”! For a fee of \$50.00 U.S. plus postage, we will promptly send this disc, a workshop T-shirt (please tell us what size!), and a custom tote bag to you.

The 30<sup>th</sup> Gala Workshop will be held from June 10-18, 2010. A formal announcement will be made as the year progresses.

For those of you who met our son Francis, I would like to tell you that he and Maria have FOUR children now, Dessi, 13; Zlati, 10; Kaya, 8; and Plamen, 4. They moved to the Boston area in August 2008. Zlati has been appointed as a cellist with the Boston Symphony Orchestra!! He is truly talented.

Think of us once in a while for we think of you always. **You are our best ambassadors!!**

Sincerely yours,



Daniel Y.C. Fung, Ph.D., Director and Professor of Food Science, KSU  
Fellow of AAM, IFT, and IAFoST  
Winner, IFT International Award, 1997, and IFT Carl R. Fellers Award 2006  
Winner 2007 Inaugural Outstanding Food Safety Educator Award  
University Distinguished Professor, Universitat Autònoma de Barcelona, Spain, 2007

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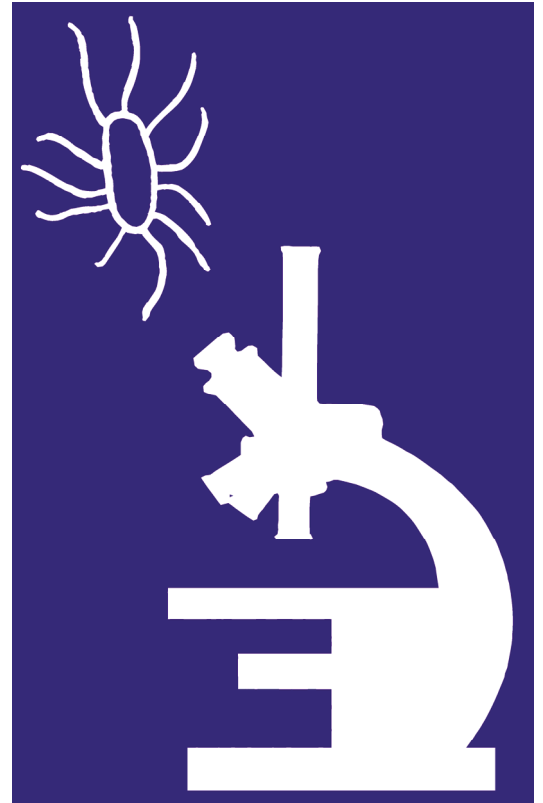
“Knowledge  
for Life”



# Handbook for 30th Annual

## **Rapid Methods and Automation in Microbiology** International Workshop XXX

A Symposium and Workshop Shaping  
the New Millennium  
Kansas State University  
1980–2010



Director: Dr. Daniel Y. C. Fung  
Kansas State University  
Manhattan, Kansas

## PREFACE

It is indeed an honor to compile the 30<sup>th</sup> Workshop Handbook for Rapid Methods and Automation in Microbiology.

The purpose of this handbook is to present some of the important information concerning this International

Workshop for participants to use throughout the Workshop and beyond. Many of the materials for the Workshop will be presented to you on this flash drive, including materials from industrial companies for laboratory participants to use in the “wet” Workshop.

It is impossible to thank everyone involved in this Workshop. I would only thank people in categories as follows:

### 1. Kansas State University Administration

Dr. Don Good gave the initial administrative support for the development of the Workshop. Dr. Ken Odde, Department Head, Dr. Janice Swanson, Interim Department Head, and Dr. Jack Riley, Department Head emeritus, continued their strong backing of this program. Dr. Curtis Kastner, as director of the Food Science Institute, also made possible a variety of assistance related to this program. Colleagues in the Department were very cooperative in sharing facilities for the Workshop.

### 2. Kansas State University Conference Services

The excellent working relation between the Workshop and K-State Conference Services through the years has been greatly appreciated. Great workers such as Pat Brown, Jan Hurley, Don Gronau, Ellen Stauffer, Zenia Lee, Janice Nikkel, Bettie Minshall, and Debbie Hagenmaier really make the Workshop run smoothly.

### 3. Outstanding Visiting Professors and Lecturers

Drs. Millicent C. Goldschmidt, Nelson A. Cox, Stan Bailey, Paul Hall, Cecile Lahellec, Paul A. Hartman, P.C. Vasavada, Reginald Bennett, Ann Marie McNamara, Scott Russell, Antony Sharpe, J.Y. D’Aoust, Mike Doyle, James M. Jay, Mansel Griffiths, Peter Feng, Bala Swaminathan, Dean Cliver, Julian Cox, Larry Beuchaut, Michael Brodsky, Stephen Morse, Tom Weschler, Bob Brackett, Frank Busta, and others throughout the years gave excellent lectures and made this a first class scientific Workshop.

### 4. K-State Food Microbiology Research Group

Without the selfless support of my research associates, graduate assistants, research assistants, and supporting personnel this Workshop would not have been possible. Listing all of those names would fill a whole page! Dr. Beth Ann Crozier-Dodson is the Assistant Director of the Workshop and has been an excellent coordinator of the laboratory section of the Workshop for many years.

### 5. Industry Support

Many companies donated supplies, instruments, personnel time, and funding for various parts of the Workshop. Some companies have supported the Workshop for all 30 years!

### 6. The Participants

The participants (ca. 4,000) came from more than 60 countries and all over the United States. Their enthusiasm and support have kept this Workshop going for 30 years and hopefully for many more years to come.

### 7. Fung’s Family

Last, but certainly not the least, is the love and support of Dr. Catherine L. Fung and my son, Dr. Francis Y.C. Fung, who became an integral part of this Workshop from its beginning. Francis and his wife, Maria, are parents to Dessi (13), Zlatomir (11), Kaya (8), and Plamen (4), and live in Boston, Massachusetts.

Thank you all for a most wonderful 30 years.





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Rapid Methods  
and Automation in Microbiology XXX  
June 11-18, 2010



# 30th Annual XXX & Symposium International Workshop Kansas State University Manhattan, Kansas



## Location

*The workshop will be held at the Clarion Hotel, located at 530 Richards Drive in Manhattan, Kansas, and at Call Hall and Trotter Hall on the Kansas State University campus.*

A block of rooms at the Clarion is available to our attendees for \$76 per night, not including taxes. Refer to the Rapid Methods Workshop when making reservations directly with the hotel at 785-539-5311. Please make your reservation by May 15 to receive the special rate.

Campus residence hall facilities are also available for \$40 per night. To reserve accommodations in the residence hall or for more information, please call 785-532-2560, e-mail [debbieh@k-state.edu](mailto:debbieh@k-state.edu), or sign up for accommodations when you register for the workshop. Requests must be received by May 15.

*Participants are responsible for transportation costs to and from Manhattan.*

[www.dce.k-state.edu/conf/rapidmethods](http://www.dce.k-state.edu/conf/rapidmethods)

## Additional Information

### INDUSTRY PARTICIPATION

Commercial rapid systems are invited to exhibit their latest products during the mini-symposium on June 11-12, and to attend the entire workshop. For more information on registering as an industry participant, please contact Dr. Fung at [dfung@k-state.edu](mailto:dfung@k-state.edu) or Debbie Hagenmaier at [debbieh@k-state.edu](mailto:debbieh@k-state.edu).

### GRADUATE FELLOWSHIPS AND CREDIT

Fellowships may be awarded to highly qualified, degree-seeking graduate students to participate in the workshop as special assistants. Workshop fellows receive complimentary registration, room, and board. Contact Dr. Fung at [dfung@k-state.edu](mailto:dfung@k-state.edu) for details. Application deadline is May 15, 2010.

### CREDIT COURSE (optional)

Two hours of graduate credit for FDSCI 713 are available for an additional \$936. Instructor permission is required to enroll; contact Dr. Fung at [dfung@k-state.edu](mailto:dfung@k-state.edu). When you register for the workshop, please request additional information about enrolling in the credit course.

### CONTINUING EDUCATION CREDITS (optional)

Each participant will receive a certificate of participation at the conclusion of the workshop. Continuing education credits (55 hours) are available for \$25 and can be purchased when you register for the workshop.

### 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 at [dfung@k-state.edu](mailto:dfung@k-state.edu). The letter of invitation will be sent to you by fax or e-mail. We will not send original letters to embassies or provide assistance in securing a visa.

### REFUND/CANCELLATION POLICY

If you must cancel your registration, do so as soon as possible. Substitutions are accepted. Registration fees, less a \$100 processing fee, will be refunded if notice is received in the Division of Continuing Education conference registration office by 5 p.m. Central time on June 1. After that date, a 75 percent refund is available until June 4. Due to guarantees we must provide to vendors, no refund can be issued after that date. Fees will not be canceled for registered participants who do not attend and have not notified our registration office on or before the cancellation date.

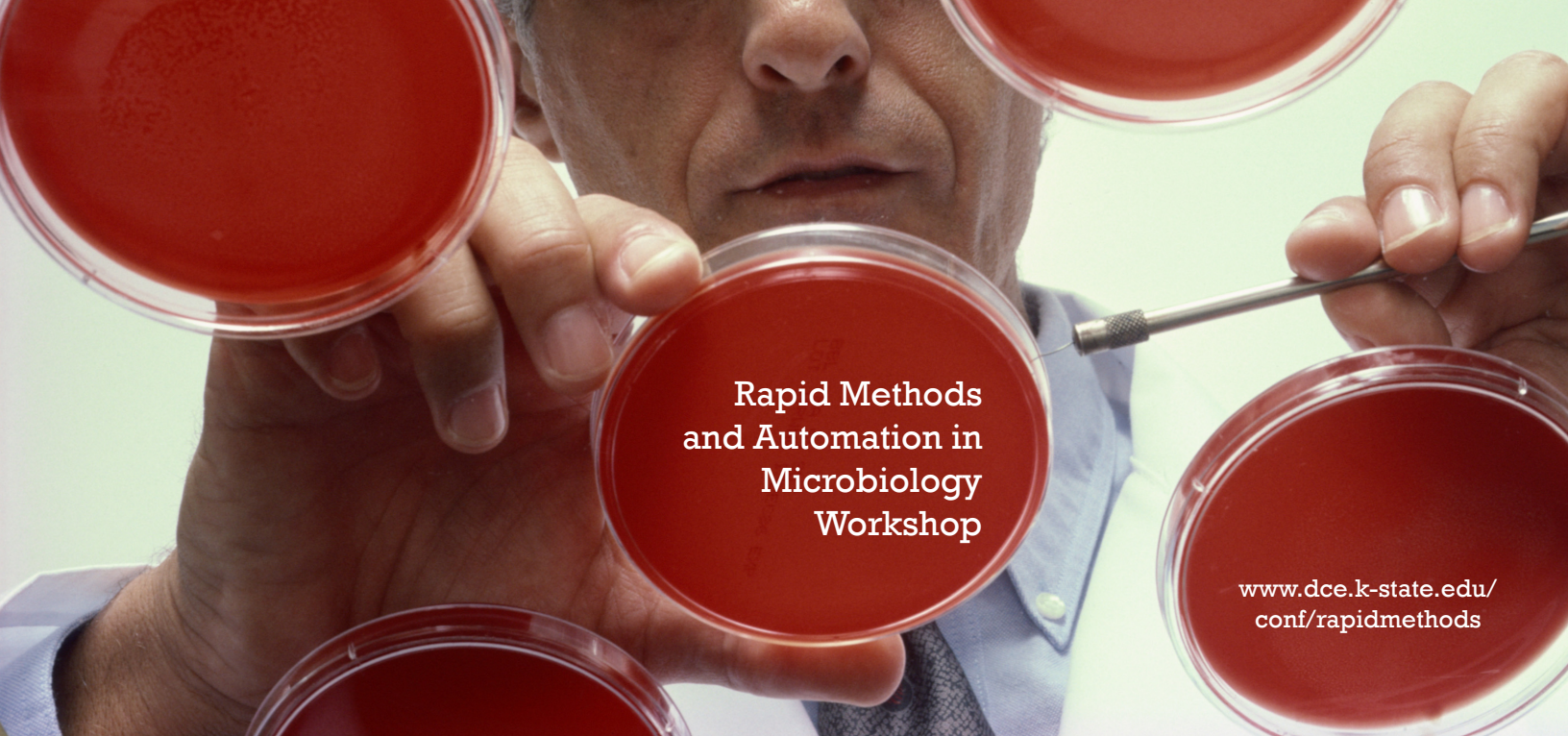
The Division of Continuing Education may cancel or postpone any course or activity because of insufficient enrollment or other unforeseen circumstances. If a program is canceled or postponed, the Division of Continuing Education will refund registration fees but cannot be held responsible for other costs,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

### Special Assistance

A participant in a conference or noncredit program who needs accommodations due to a disability or special dietary requirements should indicate services needed at the time of registration. If you have further questions, please contact Debbie Hagenmaier, program coordinator, at 785-532-5575 or 1-800-622-2KSU. Early notification is requested to ensure that accommodations can be provided in a timely manner.

### Notice of Nondiscrimination

Kansas State University is committed to nondiscrimination on the basis of race, color, ethnic or national origin, sex, sexual orientation, gender identity, religion, age, ancestry, disability, military status, veteran status, 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 the director of Affirmative Action, Kansas State University, 214 Anderson Hall, Manhattan, KS 66506-0124, 785-532-6220 or TTY: 785-532-4807.



## Rapid Methods and Automation in Microbiology Workshop

[www.dce.k-state.edu/conf/rapidmethods](http://www.dce.k-state.edu/conf/rapidmethods)

### About the Workshop

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 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 Daniel Y. C. Fung, an internationally respected expert in the field.

Two mini-symposia are included as an integral part of the workshop. Attendees may register for the entire workshop or for one or both of the mini-symposia.

### Registration Information

[www.dce.k-state.edu/conf/rapidmethods](http://www.dce.k-state.edu/conf/rapidmethods)

#### WORKSHOP | June 11-18

Fee: \$2,355 | Includes eight days of program sessions and laboratories, handouts, two banquets, two lunches, one picnic, refreshments, breaks, and receptions

#### MINI-SYMPOSIUM | June 11-12

Fee: \$750 | Includes lectures, handouts, one lunch, opening banquet, and refreshment breaks

#### MOLECULAR DETECTION DAY | June 16

Fee: \$250 | Includes sessions, handouts, lunch, farewell banquet, and refreshment breaks

#### INDUSTRY EXHIBITS | June 11-12

For information on participating as an industry exhibitor, contact Debbie Hagenmaier at [debbieh@k-state.edu](mailto:debbieh@k-state.edu) or 785-532-2560.

### Workshop Staff

**Dr. Daniel Y. C. Fung** | Professor of Food Science in the Department of Animal Sciences and Industry at Kansas State University and Distinguished Professor at the Autonomas University of Barcelona in Spain. Dr. Fung is the workshop director. His wife, Catherine L. Fung, is an honorary founding fellow of the workshop.

**Dr. Beth Ann Crozier-Dodson** | Consultant and assistant workshop director. She coordinates the hands-on laboratory sessions and functions of the workshop.

**Dr. Millicent Goldschmidt** | Professor of the Dental Branch, Dental Science Institute, and the University of Texas Health Science Center in Houston, Medical School in the Department of Microbiology and Molecular Genetics. She is a founding fellow of the workshop.

**Dr. J. Stanley Bailey** | Retired research microbiologist with the United States Department of Agriculture. He is currently director of scientific affairs-industry for bioMérieux, Inc., and an adjunct professor at the University of Georgia and Kansas State University.

The Rapid Methods mini-symposium on June 11-12 features lectures and industry exhibits. The National Alliance for Food Safety and Security (NAFSS) mini-symposium on June 16 highlights original work as well as summaries of key developments in nanotechnology, biosensors, infrared sensors, bioluminescence, immunomagnetic capture, immuno chemical methods, phage displacement, and protein-based microarray.

Register online at [www.dce.k-state.edu/conf/rapidmethods](http://www.dce.k-state.edu/conf/rapidmethods) or call 1-800-432-8222 (in the U.S.) or 1-785-532-5569 (outside the U.S.). Office hours are 8 a.m. to 5 p.m. Central time, Monday through Friday.

### Program Highlights

**Friday, June 11** | *Mini-symposium and Industry Exhibits*

**Saturday, June 12** | *Mini-symposium ends, Workshop begins*

**Sunday to Tuesday, June 13-15** | *Lectures and Laboratories*

**Wednesday, June 16** | *Molecular Detection Day: A National Alliance for Food Safety and Security Mini-Symposium*

**Thursday, June 17** | *Lectures and Laboratory*

**Friday, June 18** | *Lectures, Workshop adjourns*

#### Designed For:

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

### See Website for Detailed Agenda



Dr. Daniel Y. C. Fung | Workshop Director  
Dr. Catherine Fung | Honorary Founding Fellow

#### Guest Lecturers

**Dr. P. C. Vasavada** | *University of Wisconsin-River Falls*

**Reginald Bennett** | *United States Food and Drug Administration*

**Dr. Julian Cox** | *University of New South Wales, Sydney, Australia*

**Dr. Scott Russell** | *University of Georgia*



**Kansas State University**  
**Rapid Methods of Automation in Microbiology**  
**MEMORIES OF THE WORKSHOP**

**TO DANIEL FUNG**  
**FROM THE CLASS OF '86**

**13 JULY 1988**

by Vickie Bartel  
Shaklee Corporation  
Norman, Oklahoma  
July 18, 1986  
Manhattan, Kansas

Tune: 'Rhinestone Cowboy'

Manhattan is hot as—, humidity is high as well,  
Call Hall fries the class and keeps all asleep in the mornings.  
The bugs all grow quite fast, party animals have a blast,  
No slow pokes allowed with these fast ultra modern games.

Down at Dan Fung's Workshop (Wokshop!)  
You get sprayed with automation till your eyeballs look like  
microchips.  
Steam at Dan Fung's Workshop (Wokshop!)  
We learned so much Listeria and brains tumbled all nite long  
...and we still don't know...

To keep up with Dan we run, whether work or play it's fun,  
We found that he ran the show in excess of Mach I.  
Hot keyboards he sure can play, continually night and day,  
He kills Salmonella barbequing the entire pork chop!

You're at Dan Fung's Workshop (Wokshop!)  
We get T-shirts prompting us to do it all faster in the lab.  
Worn out at Dan Fung's Workshop (Wokshop!)  
Why would right-minded people want to go through all that  
Kong Kong blab?

...May I come next year????

This moving song was composed by Dr. G. H. Richardson  
(Utah State University) and the class ATTEMPTED sing along  
during the graduation ceremony. It truly moved Daniel Y. C. Fung  
to TEARS.

T-Shirt to Dr. Daniel Fung:  
"I've done so much with so little for so long that now I can do  
anything with nothing."

From all corners (?) of the globe we came  
Seeking knowledge from the Rapid Call Hall of Fame  
To our host Daniel Fung, we want you to know  
That we'll never forget you wherever we go.

Who else could manage to handle this crew...  
To chauffeur, to entertain, and teach us lots, too,  
Our schedule was loaded, we move at quite a clip,  
And always behind us Dan with his whip.\*

The experts\* you brought in sure know their stuff  
For their guidance and friendship we can't thank them  
enough.  
There's Nelson, Stan, Millicent, P.C., and Pierre, too  
To them it is certain, much credit is due (What would you be  
like if you spent years studying chicken feces??).

We offer our gratitude to three special women\*  
Who put in late hours while we all went swimmin'.  
Without help from Vickie, Rene, and Michelle  
Our schedule would no doubt have gone straight to hell.

Both working and playing were pushed to the MAX  
We studied, drank-swan-danced-No time to relax!  
We'll leave here exhausted and loaded with jokes  
It was true what they told us—those alumni folks.

Farewell to Manhattan and to Kansas State  
Our stay here, for sure was better than great!!  
Look out, Salmonella, you're in for disaster...  
We're gonna detect you, now, a lot faster!

\*The class gave Fung a beautiful leather bull whip made in  
Mexico!!

Consult "Who's Who in the Workshop" list for names and  
addresses of people mentioned in this lovely poem.

**SELECTED COMPOSITIONS**  
**BY MEMBERS OF THE CLASS OF 1987**

Aussie come, Aussie go  
Conventional methods are so slow.  
Rapid methods are much faster  
Taught by Fung the great Master.  
—Vince Atrache

Although the labs were very hectic  
The foods you served were organoleptic  
Boozing it up was a lot of fun  
The parties lasted at least till one  
Stan and Mimi and Nelson too  
Did the best that they could do  
To make the course a big success  
We wish you all the very best  
—Bob Hollman

This year's workshop  
Has come and gone  
We're left with memories to carry on\_\_  
The friends we've met  
We'll not forget—for  
You'll always be here to carry on.  
—Vicki Chain

Microbiologists do it with culture  
—Ola Mallory

## WHY DID WE COME TO MANHATTAN, KANSAS Eh?

Class of 1988

To have body fluids scared out of us in the Cessna ride;  
To have body fluids cooked out of us in the hot Kansas sun;  
To replenish those fluids with beer;  
To pig out (literally at D. Y. C. Fung's);

To redesign pub furniture;  
To show Manhattan how to use mood lighting in pubs;  
To learn how to play shuffle board;  
To learn from frantic Fung how to be in five places at once;

To wait 1/2 hours for taxis;  
To meet new friends and colleagues;  
To try new methods-rapid, precise, etc.  
To have our brains overloaded by lectures and talks;

To be grossed out by Nelson's jokes;  
To be caught in the tourist traps of the "little apple";  
To become party animals;  
To be blackmailed by candid photos; and

Last, but not least, to see if the rumors about Nelson Cox are true.

## DEAR RAPID METHODS CLASS OF 1988

Each of you is really great!  
We hope all have learned a LOT.  
For sure you gave it all you got!  
Thanks for being so generous and kind,  
May each of you your rainbow find.  
—From the KSU group.

## SONG WRITTEN FOR DR. D.Y.C. FUNG JULY 1990 RAPID METHODS AND AUTOMATION IN MICRO- BIOLOGY

10th Anniversary Celebration  
{Music was from the theme song of the Beverly Hillbillies}

Let me tell you a story  
About a man named Fung  
A rapid methods fool  
Chinese is his native tongue

Rapid methods in microbiology,  
is his favorite thing  
So he advertised his workshop  
and his phone began to ring.

{July, that is; Manhattan, Kansas;  
very hot!!}

So he invited his good friend—  
Dr. Goldschmidt  
Nelson Cox too—mostly for his wit  
Stan Bailey—for his expertise

Now we're celebrating the tenth  
anniversary!

Now we're to the end  
of our little tale  
We'd better quit now,  
or we will surely fail

We hope to see you all next year  
in spite of Nelson's jokes!!  
Cause we think you all have  
been,  
very nice folks!!

Ya'll come back now!!

Words by Louann Marksberry  
Class of 1990

## 1990 RAPID METHODS AND AUTOMATION IN MICROBIOLOGY Wednesday Night Banquet and Talent Show

Limericks

We come from near and far,  
From France, Hong Kong, Finland and even Arkansas.  
Our purpose is one  
Learn rapid methods and have fun  
Without forgetting our mission at the bar.

"I watch and absorb every word and will not quit,"  
Mutters our favorite Millicent Goldschmidt.  
"I've been in the business for years,  
Had much laughter and many tears.  
How come 'I'm often the target of Cox's wit?"

There once was a Micro named Bailey,  
Who studies *Listeria* in chickens almost daily.  
His Georgia drawl is the best  
When he puts you to the test  
Identifying three unknown Enterobacteriaceae.

There once was a Cajun named Cox,  
Who like many, many drinks on the rocks.  
A pipe he smokes,  
Tells terrible, raunchy jokes  
And gets in deeper shit than with his chicken flocks.

There once was a scientist named Fungus,  
A very fine fellow among us.  
He worked us to death  
From morning til bed.  
And said "Hey! What rapid method is the funnest?"

Susan Goetsch

## TOP TEN REASONS FOR MAKING A PILGRIMAGE TO MANHATTAN, KANSAS

10. Manhattan, New York is too dangerous.
9. Wanted to be a jolly good Fellow.
8. Dorothy liked Kansas better than Oz.
7. All microbiologists have to visit microbiology Mecca once in their life.
6. Beef - Real food for real people.
5. Get to watch Letterman an hour earlier
4. Wife bought me life insurance and a ticket on US Scare.
3. Get to ride in a plane where the window seat is an aisle seat.
2. Meet and greet the micro elite.
1. Fung Family Fun.

Dr. Thomas Montville, Rutgers University  
Distinguished Fellow 1994



**Songs from the 17th Rapid Methods  
and Automation in Microbiology Workshop  
IN TRIBUTE TO DR. DANIEL Y. C. FUNG**

Sung and written by Kelly J. Karr, a Ph.D. candidate  
in Food Science at KSU.  
Accompanied by her mother, Dr. Sharon Karr.

**IT'S THE DAN FUNG WORKSHOP**

(Sung to the theme from the Disneyland and Walt Disney World  
Attraction, "It's a Small World")

*Verse 1*

It's a world of micro, a world of food.  
It's a world of wine and a world of beer.  
There's so much that we share that  
it's time we're aware ....

*Verse 2*

There is just one place that you'd love to be.  
It's at Kansas State University.  
You will find this the place that  
he calls his home base.

*Chorus*

It's the Dan Fung Workshop.  
It's the Dan Fung Workshop.  
It's the Rapid Methods.  
It's the Automation.  
It's a great, great course.

**FUNG**

("Mame" from the Broadway musical "Mame")

You make the rapid methods course fun ... Fung  
Your parties are second to none ... Fung  
You got your students jumpin' and runnin'  
just to help a company.  
The whole faculty's hummin' since  
you brought micro back to Kansas State.  
You make *E. coli* easy to find ... Fung  
Now we are no longer in a bind ... Fung  
You make that old *Salmonella* strain  
frightened at the mention of your name.  
You made us feel alive again.  
You've given us the drive again  
TO DO IT FAST OR NOT AT ALL ... FUNG!!

**RAIN SONG**

(Sung to the tune of 'My Roof's got a Hole in it).

Chorus

Uh oh, oh no, don't let the rain come down  
Uh oh, oh no, don't let the rain come down  
Uh oh, oh no, don't let the rain come down  
My name's Dr. Fung and I might drown  
Oh yes, my name's Daniel Fung and I might drown

He's a microbiologist  
and he's very well known  
He lives with Kathy and Francis  
in a quiet little town

But when he parties with his mates  
and puts on a buffet  
The heavens open up their gates  
and wash them all away  
(Chorus)

Now we're all here to learn  
what he has to say  
Rapid methodology  
do it, the fast way  
But how long do we have to wait  
to hear the final word  
There's water right up to the gate  
and the yard is full of food

I'll never forget Manhattan, Kansas. I just hope I don't forget  
what I've learned.

Di Kerr  
(Diana Kerr)  
Development Specialist  
Biotech Australia  
Sydney, Australia NSW 2069

**From Fung:**

July 17, 1993  
Manhattan, Kansas USA

Can you imagine 150 people in your house for an OUTDOOR reception  
with all the food in place at 6:00 p.m. and rain started to drop at 6:05,  
started to pour at 6:30 and a major rain storm with severe flooding in  
Manhattan, Kansas at 8:00 p.m.? People could not even drive to  
Holiday Inn!! All is well that ends well—a bit wet though.

## THE FUNGUS WORKSHOP'S COUNTRY SONG

I came to Manhattan to go to school and everybody said that I'm a fool.

I took the Workshop with Dr. Fung. I ate a lot and it was fun.

In Mimi's speech I score a ten. She talked of antibody and antigen.

Reddi is always ready and you can tell to test some samples with Redigel.

Two jokes per speech is what he had. Fung made some jokes, they were pretty bad.

At Little Apple Brewery we all ate, the food was pretty good, but we were late.

I'll have another drink, Stan Bailey said, this stuff is really getting up to my head.

Beer, Rum and wine is what he tried. Chris is feeling drunk I wonder why.

The volleyball winners they're a bunch of studs, they played with younger people and kicked their butts.

He told jokes to every person and everybody knows his name is Nelson.

Now we are all ready to say good-bye. I hope we are not infected with *E. coli*.

Rafael Pabon & Friends  
1994

## Welcome to Fung's Wall of Fame & Shelves of Treasures REFLECTION ON 1993 WORKSHOP

From Down-under, Far-East, Middle-East  
Europe, Americas, and Africa they all came  
To see with their own eyes  
The science, the drama  
The Fun  
The eternal flame of Rapid Microbiology  
Cultured 13 years ago  
In a league of its own

They soar in high spirit like an Eagle  
Not dampened by the threats of flood  
Not discouraged by the flatness of Kansas plains  
The 7-days of science and friendship  
Overcame mother-nature's deluge  
Hurray to the men and women at Fung's Lab  
Fastidiously and aerobically they worked  
Hurray to Mimi, Nelson, Stan and P.C.  
Hurray to the top brass speakers that colonized the workshop  
Hurray to DYC, the flagellum that propeled the workshop  
More ATP to all that came, heard, and lived the experience.

(Yemi Ogunrinola)

## THERE'S NO BUSINESS LIKE FUNG'S BUSINESS

The butcher, the baker, the grocer, the clerk are secretly unhappy men because...

The butcher, the baker, the grocer, the clerk get paid for what they do with no applause.

They'd gladly leave their dreary jobs goodbye for anything microbial and why.

There's no business like Fung's business, like no business I know.

Everything about it is rapid.

Everything the methods will allow.

Nowhere could you find a better workshop than here at K-State in ninety five.

There's no people like Fung's people.

They'll help you in the lab.

Even with *E. coli* that cannot be found.

They've got the methods and technique down.

They'll account for every pathogen around.

Let's go on with the course.

There's no business like Fung's business, like no business I know.

You get word before the course has started that Professor Phebus broke his leg.

Top of that D. Y. C. Fung had surgery.

No need to worry.

Things will go on

There's no people like Fung's people.

They smile when they are stressed.

Students come from everywhere with lots of aid.

They'll get their pizza and still be paid.

You're beginning to think that you're glad you stayed.

Let's go on with the course.

Written and sung by Kelly Karr  
Ph.D. student, Food Science  
Kansas State University  
1995

## HEY, FUNG

(Original tune, "Hey, Jude",  
words and music by John Lennon and Paul McCartney)

Words written by Dr. Rohan Thakur,  
sung by Kelly Karr, Ph.D. student, and  
accompanied by Dr. Renee Hart-Thakur, Food Science, KSU  
for the 1996 Rapid Methods and  
Automation in Microbiology Workshop.

Hey, Fung...don't make it slow. Take a system and make it faster.  
Remember, back sweet sixteen years ago. When you started...to make it faster.  
Hey, Phebus...don't be afraid.  
You were new here, now you are better.  
The minute you pasteurized that beef.  
Then you began to make it safer.

Hey, Fung...thanks for your help.  
All those parties and all that beer.  
Remember, you all come back safe next year.  
To KSU, where microbes live in fear.

Da da da da da da da da da da Hey, Fung! (repeat three times)



## FUNG, GLORIOUS FUNG

(Original tune, "Food, Glorious Food",  
words and music by Lionel Bart)

Sung and written by Kelly Karr, Ph.D. student,  
and accompanied by  
Dr. Renee Hart-Thakur, Food Science, KSU  
for the 1996 Rapid Methods and  
Automation in Microbiology Workshop.

Is it worth a waiting for if we live 'til eighty  
four.

Will we ever get results.

Every day we say a prayer, will the test get  
done in time.

Still we get to wait and wait.

There's never time not a minute to spare.

When the test must be done by today.

But there's nothing to stop us from getting  
results.

When we all know there's someone to help us.

Fung, Glorious Fung! Fast methods he's got  
them.

Here now at K-State.

More rapid than lightning.

Fung's miniature systems great!

What is the next method?

This institute has it! KU has nothing!

Food, Glorious Food! We've just got to test it.

*E. coli* or *Staph.* No *Salmonella*.

When will we determine that its not *E. coli*.

Oh! Fung, wonderful Fung, marvelous Fung,  
glorious Fung!

Fung, Glorious Fung! There's even Doc  
Phebus.

Renee in the lab with all of her workers.

Cox, Bailey, Scott, and P.C. Will their jokes be  
dirty?

These gentlemen watch out if Mimi's about.

Fung, Glorious Fung! Sixteen workshops  
young.

That extra bit more. That's all that he lives for.  
Fung flies everywhere to teach his methods to  
you.

Oh! Fung, thanks for the fun, thanks for the  
beer, thanks for the food, thanks for the jokes,  
thanks for the course.

See you next year!!

## BEST QUOTATIONS FROM THE 1997 WORKSHOP

When visiting the fine land of Oz,  
Go to the Fung Workshop because,  
Mimi screams, Randy dreams, talkative P.C.  
wouldn't pause,  
Fung entertains, vendors make claims hiding  
their kits flaws,  
Study and learn, eat and drink, all for a just  
cause.

V.S.G.

When visiting the fine land of Oz,  
Go to the Dr. Fung's Workshop because,  
If you streak, swab and read,  
With the utmost of speed,  
You'll receive a great round of applause!

J.E.L.

When visiting the fine land of Oz,  
Go to the Dr. Fung's Workshop because,  
So many methods to see,  
And products A on through Z,  
What a good time with new friends it was.

Michael Sole

When visiting the fine land of Oz,  
Go to the Dr. Fung's Workshop because,  
You start off as a scientist or a microbiologist,  
And break down to a puppet,  
Rushing and sweating to get to do what? What.

N. Williams

When visiting the fine land of Oz,  
Go to the Dr. Fung's Workshop because,  
You'll take a course that's unique,  
Gain knowledge and may find a few antiques,  
But you'll cherish your memories with  
AAHHS!

Karla Faucher

When you go to see the fine land of Oz,  
You go to Dr. Fung's Workshop because,  
He is the fella,  
That can detect *Salmonella*,  
In the fastest way that ever was.

L.F.

When visiting the fine land of Oz,  
Go to Dr. Fung's Workshop because,  
We were inspired by so much automation,  
We are making our Christmas wish lists with  
much anticipation,  
If only Dr. Fung were Santa Claus!

M.N.

When visiting the fine land of Oz,  
Go to Dr. Fung's Workshop because,  
the people are fine,  
You get to drink wine,  
and sweat in the hot Kansas heat.

When visiting the fine land of Oz,  
Go to the Dr. Fung Workshop because,  
You'll learn, you'll share it,  
You'll laugh and you'll get it,  
You'll never forget it at all!

E.W.

When visiting the fine land of Oz,  
Go to the Dr. Fung Workshop because,  
There's plenty of heat,  
We're dead on our feet  
And now have to find a word that rhymes with  
Oz.

When visiting the fine land of Oz,  
Go to the Fung Workshop because,  
You'll learn the latest technology,  
In automated microbiology,  
As well as new kits by the doz.

M.C.G.

When visiting the fine land of Oz,  
Go to the Dr. Fung Workshop because,  
Everyone is nice,  
You'll make friends for life,  
And the science you'll come to love.

E.L.

When visiting the fine land of Oz,  
Go to the Dr. Fung Workshop because,  
You'll learn in a pinch,  
"Rapid Methods" a cinch,  
Just don't get carried off by the flies.

S. Tort

When visiting the fine land of Oz,  
Go to the Dr. Fung Workshop because,  
You'll learn lots of tricks,  
For finding "bugs" quick,  
While you eat and drink without pause!

Mona Whitson

## **'THIS MAN CALLED FUNG'**

by Mike Dodson, 1999

Sung to the tune of "*Crazy Little Thing Called Love*"

This man, called Fung, I just can't handle him;  
He's fast, acts young;  
I just don't know how he gets it all done, but WE LIKE HIM!  
We're crazy over Dr. Fung

This man, called Fung, he tries...to get it all done;  
He woks, he fries;  
he even throws some squid in on the side, SO GET READY!  
We're crazy over Dr. Fung

Well, here comes my test kits;  
He says, No problem son, you'll understand it!  
But it kinda gives me fever, leaves me in a cold, cold, sweat.  
(Wooooo, wahhhh!)

I gotta be cool, relaxed, get hip, and on the right track;  
take a backseat, at school,  
take another look at my manual, and GET READY!  
We're crazy over Dr. Fung

This class, was fun, I thank God that we got it all done;  
It was fast, well run, we learned quite a bit and we had some fun;  
and WE LOVED IT!  
We're crazy over Dr. Fung

(Scott Russell says things in between verses)

## **THE LAND OF FUNG**

by Gloria T. Anderson

July 13, 2000

The summer of 2000 gave me an opportunity  
to visit the wonderful "Land of Fung".

I had no idea that such a place or  
people existed until my visit to this  
wonderful "Place of Fung".

People come from everywhere seeking  
this wonderful "Wizard of Fung".

During our visit there, the "Wizard of  
Fung" and his staff greeted us, fed us,  
educated us and entertained us.

My time in the "World of Fung"  
taught me that many things are possible  
in this world, but without the leadership  
of "Wizard Fung" and the teamwork of his staff  
this wonderful "Land of Fung" would not exist.

Now I return to my world with a  
shiny, gold medallion to remind me of the  
wonderful time but also to let me know that  
this was not a dream, that Dr. Fung, his staff  
and Rapid Methods Technology exist  
at KSU.



# RAPID SOCIETY REFERENCE

## Important Addresses, Telephones and Faxes of Organizations Related to Food and Applied Microbiology

<b>American Society of Microbiology (ASM)</b> 1752 "N" Street, NW Washington, DC 20036-2904	Tel: (202) 737-3600 Fax: (202) 737-0233
<b>Institute of Food Technologists (IFT)</b> 221 LaSalle Street Chicago, IL 60601-9868 IFT EXPRESS (Information on demand)	Tel: (312) 782-8424 Fax: (312) 782-8348  800-234-0270 or 800-IFT-FOOD
<b>International Association for Food Protection</b> 6200 Aurora Avenue, Suite 200W Des Moines, IA 50322	Tel: (515) 276-3344 Fax: (515) 276-8655
<b>National Environmental Health Association</b> 720 South Colorado Boulevard., Suite 970 Denver, CO 80222	Tel: (303) 756-9090
<b>American Meat Science Association</b> 444 North Michigan Avenue Chicago, IL 60611	Tel: (312) 467-5520 Fax: (312) 467-9729
<b>Association of Official Analytical Chemists</b> Suite 400-CE 2200 Wilson Boulevard Arlington, VA 22201-3301	Tel: (703) 522-3032
<b>American Type Culture Collection</b> 12301 Parklawn Drive Rockville, MD 20852-1776	Tel: 800-638-6597
<b>Sigma Xi, The Scientific Research Society</b> 345 Whitney Avenue New Haven, CT 06511	Tel: (203) 624-9883 Fax: (203) 772-1523
<b>National Food Ingredient Association</b> One Corporate Place, Suite 375 West Des Moines, IA 50265	Tel: (515) 225-9611 Fax: (515) 225-6130
<b>Poultry Science</b> 309 West Clark Street Champaign, IL 61820	Tel: (217) 356-3182 Fax: (217) 398-4119
<b>Conference for Food Protection</b> P.O. Box 1468 Ann Arbor, MI 48106	Tel: (313) 769-8010 Fax: (313) 769-0109
<b>Food Quality</b> Carpe Diem Communications, Inc. 208 Floral Vale Boulevard Yardley, PA 19067	Tel: (215) 860-7800 Fax: (215) 860-7900
<b>Food Testing and Analysis</b> 677 Tanglewood Circle McMinnville, OR 97128	Tel: (818) 842-4777

# Kansas State University

Awarded to

*Alicia Subires*

Workshop Speaker

For participation in the

**30th Annual**

**Rapid Methods and Automation in Microbiology**

**Workshop/Symposium**

**June 11-18, 2010**



*James E. Kemp*

Workshop Director

*Debbie Hageman*

Workshop Coordinator





# Kansas State University



Division of Continuing Education

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*Dabhin Hagman*  
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June 16-24, 2005  
Date

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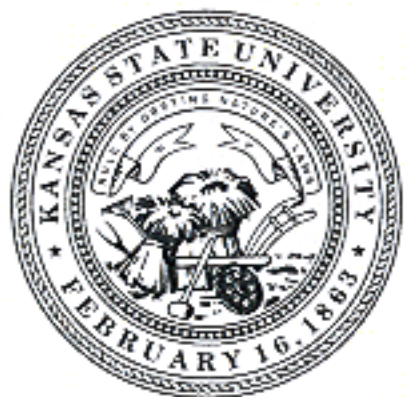
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**Workshop/Symposium**

**June 11-18, 2010**



A handwritten signature in cursive script, reading "Janet C. Fung".

Workshop Director

A handwritten signature in cursive script, reading "Debbie Hageman".

Workshop Coordinator





