

26th Annual



International Workshop XXI

Rapid Methods and Automation in Microbiology

July 14-21, 2006 Mini-Symposium/Workshop
Kansas State University Manhattan, Kansas

*A Symposium and Workshop
Shaping the New Millennium
1980-2006*

Rapid Methods and
Automation in Microbiology XXVI
Shaping the New Millennium
July 14-21, 2006



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



Rapid Methods and Automation in Microbiology XXVI

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



*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, and the United States. He has more than 800 publications in journals, books, and proceedings, and is the recipient of the **1997 International Award** given by the Institute of Food Technologists (IFT) because of the uniqueness of this workshop series. He is editor of *Journal of Rapid Methods and Automation in Microbiology*, a Fellow of IFT, American Academy of Microbiology (AAM), and International Academy of Food Science and Technology. He presented an invited lecture at Pasteur Institute in Paris during the 100th year commemoration of Pasteur's death in 1995. He won the **2001 Waksman Outstanding Educator Award** given by the Society for Industrial Microbiology. Dr. Catherine L. Fung is an honorary founding fellow.

Visiting Professors



Dr. Millicent C. Goldschmidt, professor of the Dental Branch, Dental Science Institute, at the University of Texas Health Science Center in Houston, has authored more than 250 publications. Her particular expertise in microbiological instrumentation led her to be recognized

as an **Outstanding Woman in Science** in 1985-1986, by the Association for Women in Science. She is a Fellow of AAM and Founding Fellow of the workshop.



Dr. J. Stanley Bailey is a research microbiologist with the United States Department of Agriculture, a Fellow of AAM, Silver Medallion Fellow of the workshop, and adjunct professor with the Poultry Science Department at the University of Georgia. He was the secretary of the

Microbiology Methods Committee of AOAC and has published more than 450 publications in the areas of poultry microbiology and microbiological methods.

Assistant Director



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

Laboratory Coordinator



Dr. Beth Ann Crozier-Dodson, Post-Doc, research associate, 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.

Twenty-Sixth International Symposium/Workshop

Rapid Methods and Automation in Microbiology

Kansas State University • July 14-21, 2006

Thurs., July 13	Arrival (Note 1)	5:15–7:00 pm	Wine and Cheese Reception Visit Exhibits and Posters
Fri., July 14*	All sessions at Holiday Inn Holidome		
11:00 am Holidome	Food Science Seminar: “Food and Water Virology Research in France/Europe” Dr. Sandra Blaise-Boisseau, AFSSA, France	7:00 pm	Workshop and Mini-Symposium Opening Banquet (Great Kansas Beef) After-dinner Speech “Renewing the Land Grant Commitment: Excellence in Research, Teaching, and Extension” Dr. Forrest Chumley, Associate Director, K-State Research and Extension
12:00 Noon	Registration Visit Exhibits and Posters (Note 2)		
1:00 pm	Welcome Remarks Dr. Janice Swanson, Interim Department Head Animal Sciences and Industry Dr. Curtis Kastner, Director Food Science Institute	Sat., July 15*	Morning sessions at Holiday Inn
1:15 pm	Paul A. Hartman Memorial Lecture “The Role of Methods in Regulatory Decisions” Dr. Robert Brackett, Director Center for Food Safety and Applied Nutrition, FDA	8:30–10:00 am	“25 Years of Rapid Methods and Global Market Trends and Predictions” Dr. Daniel Y.C. Fung, Director
2:15–3:00 pm	Coffee Break Visit Exhibits and Posters	10:00–10:30 am	Coffee Break Visit Exhibits and Posters
3:00–3:30 pm	Parade of Participants	10:30–11:30 am	Open Discussion on Needs and Experiences of Rapid Methods Panel of Experts
3:30–4:15 pm	Distinguished and Silver Medallion Fellow Lecture “Use of Rapid Methods in the Food Industry” Dr. Ann Marie McNamara, Silliker Laboratory	11:30 am–1:00 pm	Luncheon and Review of Immunology (Optional) Dr. Millicent C. Goldschmidt Visit Exhibits and Posters
4:15–5:00 pm	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	1:00 pm	End of Mini-Symposium, Exhibits and Posters

* A mini-symposium occurs on July 14 and 15.

A room for scientific poster sessions will be available.
Poster competition awards will be given.

Note:

1. **Arrival**—At Manhattan Municipal Airport, call Holiday Inn (direct phone line in baggage area) for courtesy van to Holidome or KSU dormitory. If you rent a car be sure to obtain a KSU parking permit from Dr. Fung before Monday, July 17.
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 2005, came from 60 countries and 46 states of the United States. 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, July 15

WORKSHOP STARTS** (Call Hall, KSU Campus)

General Laboratory Coordinator - Dr. Beth Ann Crozier-Dodson

Afternoon Laboratory: Viable Cell Counts—Conventional, Petrifilm, BBL CHROMagar, Spiral plater, Hyccheck, BD Diagnostics, 3M, Remel

Welcome Reception and Tour at Konza Prairie

Sunday, July 16

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

Afternoon Laboratory: API, Crystal, Enterotube, Centrus International, ISO-FUNG DT, MicroBioLogics

**Optional Dinner at Hunam Chinese Restaurant
(Great Mongolian Buffet)**

Monday, July 17

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

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

**Optional Dinner at Harry's Uptown Restaurant
(Fine Dining)**

Tuesday, July 18

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

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

Workshop Picnic at Tuttle Creek

Wednesday, July 19 **MOLECULAR DETECTION DAY**

Morning Lecture: Instrumentation (Dr. Millicent Goldschmidt), Basic Principles and Applications of PCR (Dr. Richard Oberst)

Afternoon Laboratory: TaqMan, Bax, DuPont Qualicon, Cepheid, Warnex, Core MicroSolutions, Applied BioSystems
Purdue University Biosensor Mini-Nanotechnology Workshop

Dr. Richard Linton, director, and a panel of experts from Purdue University and USDA-ARS

Workshop Farewell Banquet at Holidome

Thursday, July 20

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

Afternoon Laboratory: Food Microbiology and Third Party Regulation of Food Safety (Rob Dawson), KSU Innovative Air and Water Sampling Research (Dr. Beth Ann Crozier-Dodson), New Horizons, Centrus International

Farewell Pool Party at Holidome

Friday, July 21

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 **Holiday Inn/Holidome** in Manhattan, Kansas, and **Call Hall** and **Veterinary Medical Complex**—with modern laboratory and excellent lecture halls—on the Kansas State University campus.

Transportation

Manhattan has an airport served by U.S. Airlines. 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 Manhattan Holiday Inn/Holidome, 530 Richards Drive. **Please refer to the workshop when making reservations directly with the Holiday Inn/Holidome at 1-785-539-5311, FAX: 1-785-539-8368.** The rate for a single or double room is \$70 plus tax per night. Please make reservations before **June 21, 2006**, 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 will be furnished to and from the Holiday Inn. Meals are available for purchase in the residence hall dining center. For more information or to reserve residence hall housing, call 1-785-532-5569. **The deadline for reservations is June 21, 2006.**

Website

Program and registration information is available at www.dce.ksu.edu/rapidmethods/.

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

Workshop Fees

The registration fee for the 2006 *Rapid Methods and Automation in Microbiology Workshop* is \$1,995 (includes the mini-symposium). 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 Fee

The registration fee for the mini-symposium of July 14-15 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 July 19. The day includes a Biosensor Mini-Workshop conducted by Purdue University. This single-day registration fee is \$250.

University Credit

Two hours of graduate credit (optional) are available for an additional \$672. To register for credit, go to www.dce.ksu.edu and click "Course Offerings." Enter course number (FDSCI 713) or reference number (90396) 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.

Bank/Wire Transfer

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

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

Refund/Cancellation Information

The workshop registration fee, less a \$100 handling charge, will be cheerfully refunded if notice of cancellation is received on or before **June 28, 2006**. After that date, a 75 percent refund will be available until **July 7, 2006**. Due to guarantees we must give, no refund will be available after **July 7, 2006**.

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

Graduate Student Fellowships

Fellowships, including tuition, room, and board, may be awarded to highly qualified degree-seeking graduate students to participate in the workshop as special assistants. Contact Dr. Daniel Y.C. Fung for details. **Application deadline: May 15, 2006.**

Questions

If you have questions concerning the workshop scientific content or format, contact Dr. Daniel Y.C. Fung at Tel: 1-785-532-1208, Fax: 1-785-532-3295, or E-Mail: dfung@ksu.edu or Dr. Beth Ann Crozier-Dodson at Tel: 1-785-532-1298 or e-mail 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/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 July 14-15 or the Molecular Detection Day on July 19.

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 XXVI

Register online at www.dce.ksu.edu/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 June 15, 2006 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: _____

_____ \$1,995 Workshop registration fee (includes mini-symposium and Molecular Detection Day)

_____ \$650 Mini-Symposium only (July 14–15)

_____ \$250 Molecular Detection Day only (July 19)

_____ \$25 CEUs (optional)

To register for two hours of graduate credit, go to 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.

Roster Release

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

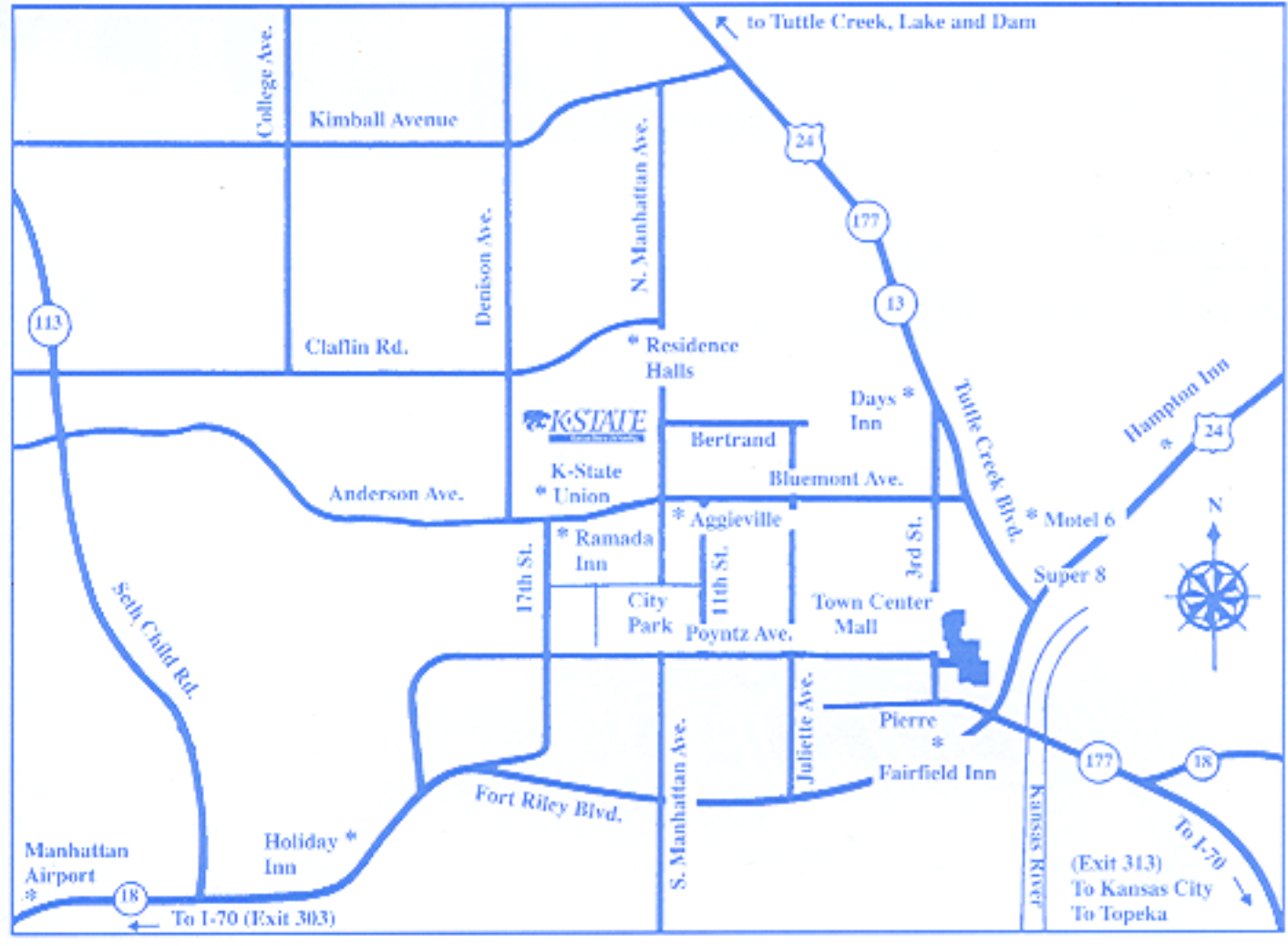
Return this form to:

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/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) 532-5566 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 nonment 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. Paid for by K-State.