

22nd Annual



International Workshop XII

Rapid Methods and Automation in Microbiology

*A Symposium and Workshop
Shaping the New Millennium
1980-2002*

July 12-19, 2002 Mini-Symposium/Workshop
Kansas State University Manhattan, Kansas



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



Kansas State University

Rapid Methods and
Automation in Microbiology XII
Shaping the New Millennium
July 12-19, 2002

Rapid Methods and Automation in Microbiology XXII



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 2-day mini-symposium will be offered as an integral part of the workshop. Workshop participants must attend both the 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

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, Republic of China, Singapore, Finland, Iceland, Brazil, Thailand, Colombia, Poland, Hungary, Zimbabwe, Chile, Argentina, Hong Kong, the Philippines, Korea and the United States. He has more than 600 publications in journals, books, and proceedings, and is the recipient of the **1997 International Award** given by Institute of Food Technologists because of the uniqueness of this workshop series. He is editor of *Journal of Rapid Methods and Automation in Microbiology*, a Fellow of the American Academy of Microbiology (AAM), Institute of Food Technologists, and International Academy of Food Science and Technology. He presented an invited lecture at Pasteur Institute in Paris during the 100th year commemoration of Pasteur's death in 1995. He won the **2001 Waksman Outstanding Educator Award** given by the Society for Industrial Microbiology.

Visiting Professors



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



Dr. J. Stanley Bailey, is a Research Microbiologist with the United States Department of Agriculture, a Fellow of AAM and adjunct professor with the Poultry Science Department at the University of Georgia. He was the secretary of the **Microbiology Methods Committee of AOAC** and has published over 300 publications in the areas of poultry microbiology and microbiological methods.

Assistant Director



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

Honorary Visiting Professor

Dr. Nelson A. Cox, a research microbiologist, USDA, He is a well known Poultry Microbiologist and was one of the original lecturers in this workshop series in 1981 and participated in more than 15 workshops.

Guest Lecturers

Reginald Bennett, P.C. Vasavada, Cecile Lahellec, Richard Oberst, Ann Marie McNamara and Scott Russell have been guest lecturers in recent years.

Twenty-Second International Symposium/Workshop
Rapid Methods and Automation in Microbiology
Kansas State University • July 12–19, 2002

July 11, Thursday	Arrival (Note 1)	7:00 p.m.	Workshop and Mini-Symposium Opening Banquet (Great Kansas Beef) After Dinner Speech "KSU Food Science Institute: A Golden Opportunity" Dr. Curtis Kastner, Director Aggieville—On your own!
July 12, Friday	All sessions in Holiday Inn		
11:00 a.m.	Food Science Seminar "A Life-time of Interaction with <i>Salmonella</i> in Poultry" Dr. Cecile Labellec, France		
Noon	Registration Visit Exhibits and Posters (Note 2)		
1:00 p.m.	Welcome Remarks Dr. Jack Riley, Department Head Dr. Curtis Kastner, Research Coordinator Animal Sciences and Industry Kansas State University	July 13, Saturday 8:30–10:00 a.m.	Morning Sessions at Holiday Inn "Historical Perspective of Rapid Methods and Automation in Microbiology" "Miniaturized Microbiological Methods" "Comparative Analyses of Viable Cell Counts" Dr. Daniel Y.C. Fung, Director
1:15 p.m.	Paul A. Hartman Memorial Lecture "Rapid Methods: International Harmonization and AOAC Approvals" Dr. Michael Brodsky	10:00–10:30 a.m.	Coffee Break Visit Exhibits and Posters
2:15–3:00 p.m.	Coffee Break Visit Exhibits and Posters	10:30–11:30 a.m.	Open Discussion on Needs and Experiences of Rapid Methods Dr. Randy Phebus, Assistant Director, Discussion Leader
3:00–3:45 p.m.	Distinguished Fellow Lecture "Rapid Methods of Using DNA Microarray Techniques in Detecting Food Pathogens" Dr. Sufian F. Al-Khalidi, FDA	11:30 a.m.– 1:00 p.m.	Luncheon and Review of Immunology (Optional) Dr. Millicent C. Goldschmidt Visit Exhibits and Posters
3:45–4:30 p.m.	Distinguished Fellow Lecture "Rapid Molecular Detection Methods in Food Microbiology: A Singapore Experience" Dr. Doreen Tan, Singapore	1:00 p.m.	End of Mini-Symposium, Exhibits and Posters
4:30–5:15 p.m.	Distinguished Fellow Lecture "Doing, Dashing, Determination Down Under" Dr. Julian Cox, Australia	1:30 p.m.	Start of the Workshop (Call Hall, KSU Campus) Review of Conventional Methods and Organization of Laboratory Sessions
5:15–7:00 p.m.	Wine and Cheese Reception Visit Exhibits and Posters.	2:30–5:00 p.m.	Workshop Laboratory Work Commences Beth Ann Crozier-Dodson, Laboratory Coordinator
		7:00 p.m.	Workshop and Mini-Symposium Reception at the Konza Prairie Lodge

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 KSU parking permit from Dr. Fung starting Monday, July 15.
- 2. Poster Session**—Please indicate on the registration form if you wish to present a scientific poster at the Mini-Symposium. A space will be available for display of posters. A certificate of participation will be issued to the senior author. Top three posters will win awards.

Saturday, July 13, 2002*

Afternoon Laboratory: Viable Cell Counts—Conventional, Petrifilm, Redigel, ISOGRID, Oxyrase, MicroBioLogics, Olympus, Becton Dickinson BioScience, Charm Sciences, Inc., Ecolite Products, Remel

Sunday, July 14, 2002

Morning Lecture: Comparative Analysis of Diagnostic Kits (Dr. J.S. Bailey and Dr. Scott Russell)

Afternoon Laboratory: API, MicroID, Enterotube, Biolog, Crystal, Neogen, Oxyrase, Spiral Biotech, DNA Probe (Gene-Trak)

Monday, July 15, 2002

Morning Lecture: Food Pathogens—*Salmonella*, *Campylobacter*, *Yersinia*, Hemorrhagic *E. coli*, etc. (Dr. Bailey, Dr. Russell)

Afternoon Laboratory: BioControl Products, Tecra (International BioProducts), Neogen, VIDAS (bioMerieux, Inc.), Celsis, SAS Air Sampler, Bioscience International, EM Scientific, Merck

Tuesday, July 16, 2002

Morning Lecture: Mechanization, New approaches, Sophisticated light scattering detection systems, Impedance, Conductance (Dr. M.C. Goldschmidt)

Afternoon Laboratory: Microbiology International, RABIT, Zylux, New Horizons Diagnostic, ELSIA (Organon Teknika), Diffchamb, Detex (Molecular Circuitry, Inc.), Millipore, Umedik

• Workshop Picnic •

Wednesday, July 17, 2002—Molecular Food Microbiology Day

Morning Lecture: Radiometry, Microcalorimetry, ATP Detection (Dr. M. C. Goldschmidt), PCR lecture (Dr. Dick Oberst)

Afternoon Laboratory: Qualicon Bax, Riboprinting, Perkin Elmer, Probelia, BioteCon Diagnostics, Inc. Experiments at the KSU Veterinary College

• Workshop Farewell Banquet •

Thursday, July 18, 2002

Morning Lecture: Emerging Pathogens and Competitive Exclusions (Dr. Russell, Dr. P.C. Vasavada)

Afternoon Laboratory: Detection of emerging pathogens, Conventional vs. Rapid Methods, MUG Motility, Oxoid, Dynal, Chemunex, EiaFoss, and BioTrace

Friday, July 19, 2002

Morning Lecture and Laboratory: Rapid detection of microbial toxins (Reginald Bennett), novel microbiological tests. A look into the future, Presentation of Certificates

Noon: Departure

* The participation of Commercial companies and speakers are 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** with a newly renovated modern laboratory and excellent lecture halls, on the Kansas State University campus.

Transportation

Manhattan has an airport served by U.S. Air-Express. The charming city is approximately 130 miles west of Kansas City on Interstate Highway 70, a scenic drive of about two and one-half hours. KCI Roadrunner/Travelers Express is an airport van shuttle service which 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 \$68 plus tax per night. Please make reservations before **June 21, 2002**, to receive the reduced rate.

Campus student residence hall facilities featuring single rooms with bathroom facilities on each corridor are also available for workshop participants. Reservations include 8 nights (Thursday through Thursday) and 8 optional breakfasts (Friday through Friday). Additional nights are also available. Transportation will be furnished to and from the Holiday Inn. For more information or a reservation for campus residence halls, call 1-785-532-5569.

The deadline for reservations is June 21, 2002.

Workshop Fees

The registration fee for the 2002 *Rapid Methods and Automation in Microbiology Workshop* is \$1,795 (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, a picnic, 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 Fees

The registration fee for the Mini-Symposium of July 12 and 13 is \$500. The fee includes all sessions, handouts, coffee breaks, one lunch, symposium banquet, and a reception.

University Credit

Two hours of graduate credits (optional) are available for an additional \$292.

CEU's

Each participant will receive a Certificate of Participation upon completion of the workshop. Optional CEU's are also available for an additional \$15. Mark the appropriate section of your registration form if you wish to receive these optional CEU's.

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

Registration Information

The workshop registration fee, less a \$100 handling charge, will be cheerfully refunded if notice of cancellation is received on or before **June 21, 2002**. Thereafter, a 75 percent refund will be made.

Questions

If you have questions concerning the workshop scientific content or format, contact Dr. Daniel Y.C. Fung at Tel: (785) 532-5654, Fax: (785) 532-5681, or E-Mail: dfung@oznet.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.).

Graduate Student Fellowships

Fellowships, including tuition, room, and board may be awarded to highly qualified degree-seeking graduate students to participate in the workshop as special assistants. Contact Dr. Daniel Y.C. Fung for details. **Application deadline: April 15, 2001.**

The Rapid International Microbiology Family

Previous Participants, numbering about 2,500 scientists from 1981 to 2001, came from 55 countries and 46 states of United States.

Since, 1990, 24 internationally known scientists were designated as **Distinguished Fellows**. Since 1987, 36 outstanding graduate students and scholars were named **Fellows**.

In the 20th anniversary celebration 15 previous participants were named **Alumnus Fellows** for their special lectures in the Gala occasion.

Fast, Easy Registration



Online Registration: <http://www.dce.ksu.edu/dce/cl/microbiology/>



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



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



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

Cancellation Policy

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.

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. (July 12 and 13)

Web Site

Program and registration information is available via the World Wide Web at <http://www.dce.ksu.edu/dce/cl/microbiology/>

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

Letter of Invitation

If you require a visa to enter the United States and need a letter of invitation to the workshop, please let us know. *(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.)*

Registration Form—Rapid Methods and Automation in Microbiology XXII

• _____
 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 21, 2002 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: _____



_____ \$1,795 Workshop registration fee (includes mini-symposium, July 12-13)

_____ \$500 Mini-Symposium only (July 12-13)

_____ \$292 Two Hours Graduate Credit (optional)

_____ \$15 CEU's (optional)

Method of Payment

- Check (payable to Kansas State University)
 Invoice my company at the address on form
 Charge to: MasterCard  Visa 
 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 info@dce.ksu.edu.

Roster Release

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

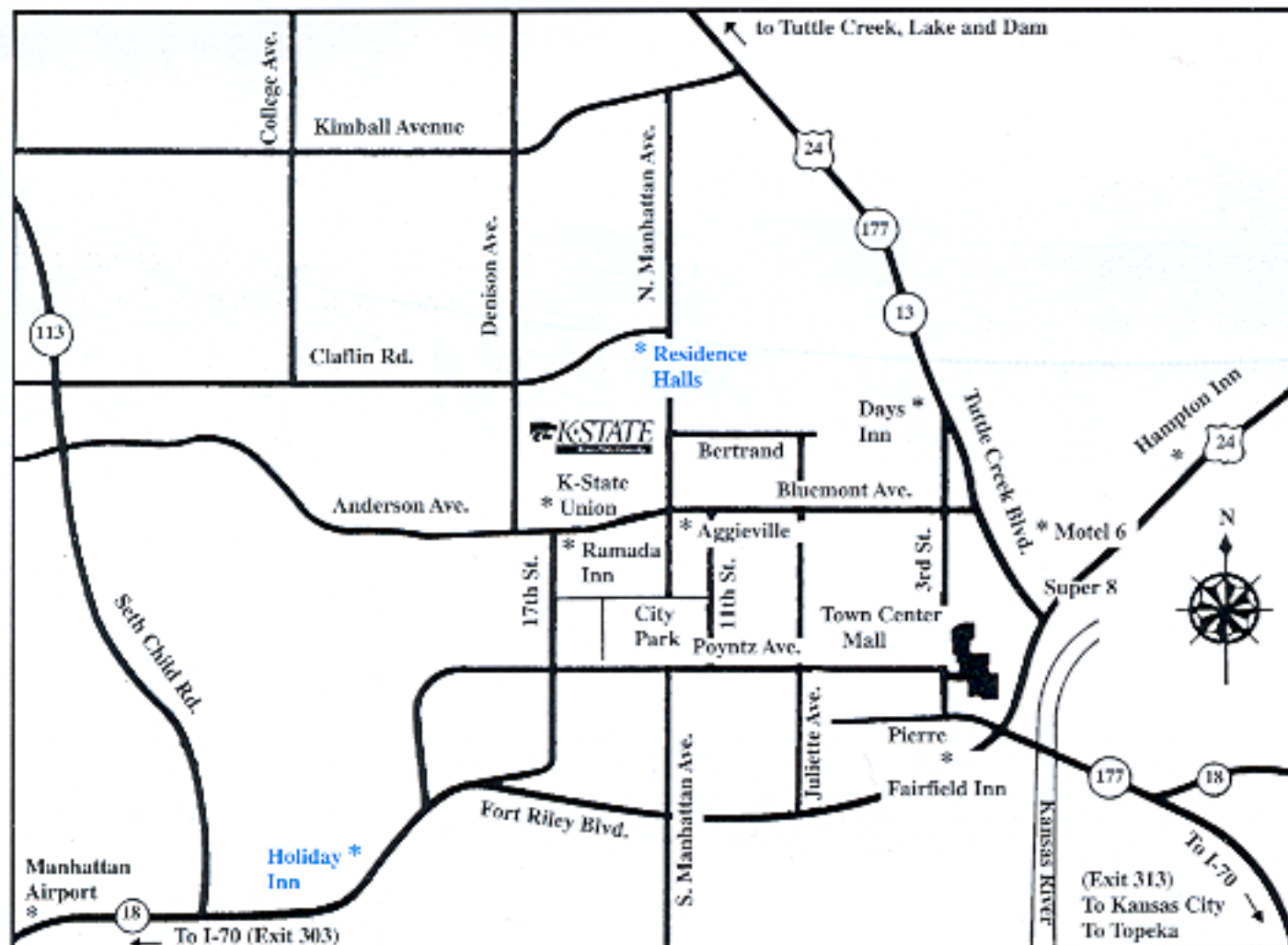
Return this form to:

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 (keep a copy)

See this brochure on the World Wide Web at <http://www.dce.ksu.edu/dce/el/microbiology/>

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 a policy of 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), all as required by applicable laws and regulations. Responsibility for coordination of compliance efforts and receipt of inquiries, including those concerning Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act, has been delegated to Jane D. Rowlett, Ph.D., Director of Unclassified Affairs and University Compliance, Kansas State University, 204 Anderson Hall, Manhattan, KS 66506-0124 (785-532-4392).

24458-1A02-5,050

What a Workshop for the 22nd Time!

We have just completed the 22nd International Workshop on Rapid Methods and Automation in Microbiology at Kansas State University with scientists from more than 15 countries and 20 States. It was a most intensive workshop. We spent 8 days, 12 hours per day, interacting with a large group of participants, industry representatives, professors, students, and guests from all over the world. In the mornings, we had lectures and, in the afternoons, we had laboratory experiments and demonstrations.

A few special lectures made this workshop unique in this series; which was started in 1980.

Dr. Cecile Lahellec from France gave a lecture on her life-long interactions with *Salmonella* research work. It was very moving to listen to a distinguished scientist describing how she began her research work on *Salmonella* in the 70's and how she developed different methods and procedures to isolate, detect, and identify this important foodborne pathogen starting from conventional methods and moved to advanced technologies and, finally, into risk assessment of *Salmonella* in foods. As she was presenting the intriguing story of her life, I thought it would be a great idea to have an outstanding scientist give a talk on a lifetime interaction with one important foodborne pathogen. For example, we can have a talk on "A lifetime with *Clostridium botulinum*" in one year, another year, "A lifetime with *Staphylococcus aureus*". One day I may invite myself to give a talk on "A lifetime with miniaturized microbiological techniques". That would be fun!

Due to the importance of prevention of bioterrorism in the USA and in the world, Dr. Stephen A. Morse of the CDC was invited to give a talk on "Rapid Methods and Bioterrorism Preparedness and Prevention". It was a fantastic talk. He gave a broad review of the issues related to bioterrorism and rapid detection of toxins and microbes related to bioterrorism and then went into specific instruments and procedures to detect organisms from air and water, etc. Did you know that now there are instruments which can complete a PCR detection procedure in only one hour? Most PCR procedures take several hours to complete. Some of the instruments mentioned in Dr. Morse's lecture were demonstrated and discussed in our workshop. The topic was very appropriate for our total program in rapid detection of microbes in the environment. We will have him back to give an update of the developments in protecting the public against bioterrorism.

Another exciting lecture was given by Mike Brodsky, past president of AOAC International, who discussed the need for rapid evaluation of new microbiological technologies by AOAC International. Everyone was interested in the topic because the standard collaborative study of a new system takes more than two years. Even the AOAC Performance Test of a new system takes about nine months or more.

Now with computer technology and the new push for rapid validation of new methods, the plan is to have a new system cleared in a matter of months instead of years. That was great news to everyone interested in developing new technologies and users waiting to apply new technologies in their laboratories.

We also had a Molecular Food Microbiology Day at the Kansas State University Veterinary College. There were six outstanding companies representing the newest and the best technologies in PCR and related technologies in the program. All the participants had a chance to see these new and sophisticated systems in operation. It was truly the largest concentration of PCR technologies in action in the same place at the same time. The experience was unparalleled.

Besides working very hard the participants were treated to delicious banquets, a Mongolian barbecue, a picnic, a swimming pool party, etc. so that they could relax a bit after work. We even took them to the world famous Konza Prairie Research Center where tall grass, natural habitats for unique flora and fauna are preserved and studied. The wonderful tour guide took us all over the huge natural compound in a caravan of cars, vans, and jeeps looking for the free ranging Bison herds. I never knew Kansas has up and down terrains and even some small canyons. We found a herd of Bison and stopped to enjoy the beauty of these huge and magnificent animals. One of the Bison was hand fed by humans from birth. She thought she was a human being and interacted warmly with our brave participants who walked up to her as if she were a domestic cow. It was quite a sight to see five or six people trying to encourage a 500 lb Bison to go back to the rest of the herd. Luckily, nobody was hurt. I was watching the action from the safety of my van.

It is hard to imagine that we have conducted this eight day workshop for 22 years in a row at Kansas State University. The 23rd workshop will be held from June 13 to June 20 in 2003. I encourage my dedicated team of hard working graduate students and research assistants to go on vacations and have some relaxation before the school year begins in August.

As for me, I will have to go to California to a very important committee meeting organized by the National Academy of Sciences to tackle the topic "Indicators for Waterborne Pathogens". It should be a very stimulating and challenging meeting. I am sure I will find time to relax in sunny California and may find some great Chinese and Japanese restaurants to catch up with my culinary adventures around the world.

DANIEL Y. C. FUNG

23rd Annual International Workshop XIII



Rapid Methods and Automation in Microbiology

June 13-20, 2003 Mini-Symposium/Workshop
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Rapid Methods and
Automation in Microbiology XIII
Shaping the New Millennium
June 13-20, 2003



Rapid Methods and Automation in Microbiology XXIII



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



Dr. J. Stanley Bailey, is a Research Microbiologist with the United States Department of Agriculture, a Fellow of AAM, and adjunct professor with the Poultry Science Department at the University of Georgia. He was the secretary of the **Microbiology Methods**

Committee of AOAC and has published over 300 publications in the areas of poultry microbiology and microbiological methods.

Assistant Director



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June 12, Thurs.	Arrival (Note 1)	7:00 pm	Workshop and Mini-Symposium
June 13, Fri.**	All sessions in Holiday Inn		Opening Banquet—Great Kansas Beef
11:00 am	Food Science Seminar “Harmonization of Food Pathogen Detection and Standards Between USA and Europe” Dr. Bertrand Lombard		After Dinner Speaker “Information Technology for the New Millennium” Dr. Beth Unger, Vice Provost for Academic Services and Technology, Kansas State University
Noon	Registration Visit Exhibits and Posters (Note 2)		Aggieville—On your own!
1:00 pm	Welcome Remarks Dr. Jack Riley, Department Head Animal Sciences and Industry Dr. Curtis Kastner, Director Food Science Institute	June 14, Sat.** 8:30–9:15 am	Morning Sessions at Holiday Inn “History of Rapid Methods and Market Trends” Dr. Daniel Y.C. Fung, Director
1:15 pm	Paul A. Hartman Memorial Lecture “Rapid Methods and Bioterrorism Preparedness and Prevention” Dr. Stephen A. Morse, CDC	9:15–10:00 am	“Use of Rapid Methods in the Food Industry” Dr. Ann Marie McNamara, Sara Lee Incorporated
2:15–3:00 pm	Coffee Break Visit Exhibits and Posters	10:00–10:30 am	Coffee Break Visit Exhibits and Posters
3:00–3:45 pm	Distinguished Fellow Lecture “AOAC Rapid Validation Procedure: Update” Dr. Michael Brodsky, AOAC President and Consultant, Canada	10:30–11:30 am	Open Discussion on Needs and Experiences of Rapid Methods Dr. Randy Phebus, Assistant Director, Discussion Leader
3:45–4:30 pm	Distinguished Fellow Lecture “Use of Rapid Molecular Detection Methods of Food Pathogens in Government Laboratories” Dr. Walt Hill, USDA	11:30 am–1:00 pm	Luncheon and Review of Immunology (Optional) Dr. Millicent C. Goldschmidt Visit Exhibits and Posters
4:30–5:15 pm	Distinguished Fellow Lecture “Rapid Methods: An Update From the Pacific Rim” Dr. Julian Cox, Senior Lecturer, University of New South Wales, Australia	1:00 pm 1:30 pm	End of Mini-Symposium, Exhibits, and Posters Start of the Workshop (Call Hall, KSU Campus) Organization of Laboratory Sessions
5:15–7:00 pm	Wine and Cheese Reception Visit Exhibits and Posters Industry Exhibition and Poster Session all day	2:30–5:00 pm 7:00 pm	Laboratory Work Commences Beth Ann Crozier-Dodson Laboratory Coordinator Workshop and Mini-Symposium Reception at the Konza Prairie Lodge

Note:

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Saturday, June 14, 2003

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Afternoon Laboratory: BioControl Products, Tecra, (International BioProducts), Neogen, VIDAS (bioMerieux, Inc.), Celsis, SAS Air Sampler, BioScience International, Merck, umedik, Inc., EM Science

Tuesday, June 17, 2003

Morning Lecture: Mechanization, New Approaches, Sophisticated light scattering detection systems, Impedance, Conductance (Dr. Millicent Goldschmidt)

Afternoon Laboratory: Microbiology International, RABIT, MicroBioLogics, New Horizons Diagnostic, ELISA (Organon Teknika), Diffchamb, Strategic Diagnostics, Millipore

• Workshop Picnic •

Wednesday, June 18, 2003

Molecular Food Microbiology Day

Morning Lecture: Radiometry, Microcalorimetry, ATP Detection (Dr. M. C. Goldschmidt), PCR lecture (Dr. Dick Oberst)

Afternoon Laboratory: Perkin Elmer, iQ BioRad, Dupont Qualicon, Cepheid, Idaho Technologies, Roche Diagnostics. Experiments at the KSU Veterinary College

• Workshop Farewell Banquet •

Thursday, June 19, 2003

Morning Lecture: Emerging Pathogens and Competitive Exclusions (Dr. Russell, Dr. P. C. Vasavada)

Afternoon Laboratory: Detection of emerging pathogens, Conventional vs. Rapid Methods, MUG, Motility, Oxoid, Dynal, Chemunex, EiaFoss, BioTrace, IGEN

Friday, June 20, 2003

Morning Lecture and Laboratory: Rapid detection of microbial toxins (Reginald Bennett), novel microbiological tests. A look into the future, Presentation of Certificates

Noon: Departure

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

** A mini-symposium occurs on June 13th and 14th. A room for Scientific Poster Sessions will be available. Poster Competition and Awards will be given.

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** with a newly renovated modern laboratory and excellent lecture halls, on the Kansas State University campus.

Transportation

Manhattan has an airport served by U.S. Air-Express. The charming city is approximately 130 miles west of Kansas City on Interstate Highway 70, a scenic drive of about two and one-half hours. KCI Roadrunner/Travelers Express is an airport van shuttle service which 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 \$68 plus tax per night. Please make reservations before **May 12, 2003**, to receive the reduced rate.

Campus student residence hall facilities featuring single rooms with bathroom facilities on each corridor are also available for workshop participants. Reservations include 8 nights (Thursday through Thursday) and 8 optional breakfasts (Friday through Friday). Additional nights are also available. Transportation will be furnished to and from the Holiday Inn. For more information or a reservation for campus residence halls, call 1-785-532-5569.

The deadline for reservations is May 12, 2003.

Workshop Fees

The registration fee for the 2003 *Rapid Methods and Automation in Microbiology Workshop* is \$1,855 (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, a picnic, 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 Fees

The registration fee for the Mini-Symposium of June 13–14 is \$515. The fee includes all sessions, handouts, coffee breaks, one lunch, symposium banquet, and a reception.

University Credit

Two hours of graduate credit (optional) are available for an additional \$378.

CEUs

Each participant will receive a Certificate of Participation upon completion of the workshop. Optional CEUs are also available for an additional \$15. Mark the appropriate section of your registration form if you wish to receive these optional CEUs.

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

Registration Information

The workshop registration fee, less a \$100 handling charge, will be cheerfully refunded if notice of cancellation is received on or before **May 23, 2003**. Thereafter, a 75 percent refund will be made.

Questions

If you have questions concerning the workshop scientific content or format, contact Dr. Daniel Y.C. Fung at Tel: (785) 532-5654, Fax: (785) 532-5681, or E-Mail: dfung@oznet.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.).

Graduate Student Fellowships

Fellowships, including tuition, room, and board, may be awarded to highly qualified degree-seeking graduate students to participate in the workshop as special assistants. Contact Dr. Daniel Y.C. Fung for details. **Application deadline: April 15, 2003.**

The Rapid International Microbiology Family

Previous Participants, numbering about 2,500 scientists from 1981 to 2002, came from 58 countries and 46 states of the United States.

Since 1990, 27 internationally known scientists were designated as **Distinguished Fellows**. Since 1987, 42 outstanding graduate students and scholars were named **Fellows**.

In the 20th anniversary celebration 15 previous participants were named **Alumnus Fellows** for their special lectures in the Gala occasion.

Fast, Easy Registration



Online Registration:
<http://www.dce.ksu.edu/dce/cl/microbiology/>



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



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



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

Cancellation Policy

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.

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. (June 13–14)

Web Site

Program and registration information is available via the World Wide Web at <http://www.dce.ksu.edu/dce/cl/microbiology/>.

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Letter of Invitation

If you require a visa to enter the United States and need a letter of invitation to the workshop, please let us know. *(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.)*

Registration Form—Rapid Methods and Automation in Microbiology XXIII

• _____
 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 23, 2003 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: _____



_____ \$1,855 Workshop registration fee (includes mini-symposium, June 13-14)

_____ \$515 Mini-Symposium only (June 13-14)

_____ \$378 Two Hours Graduate Credit (optional)

_____ \$15 CEUs (optional)

Method of Payment

- Check (payable to Kansas State University)
- Invoice my company at the address on form
- Charge to: MasterCard  Visa 
- 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 **info@dce.ksu.edu**.

Roster Release

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

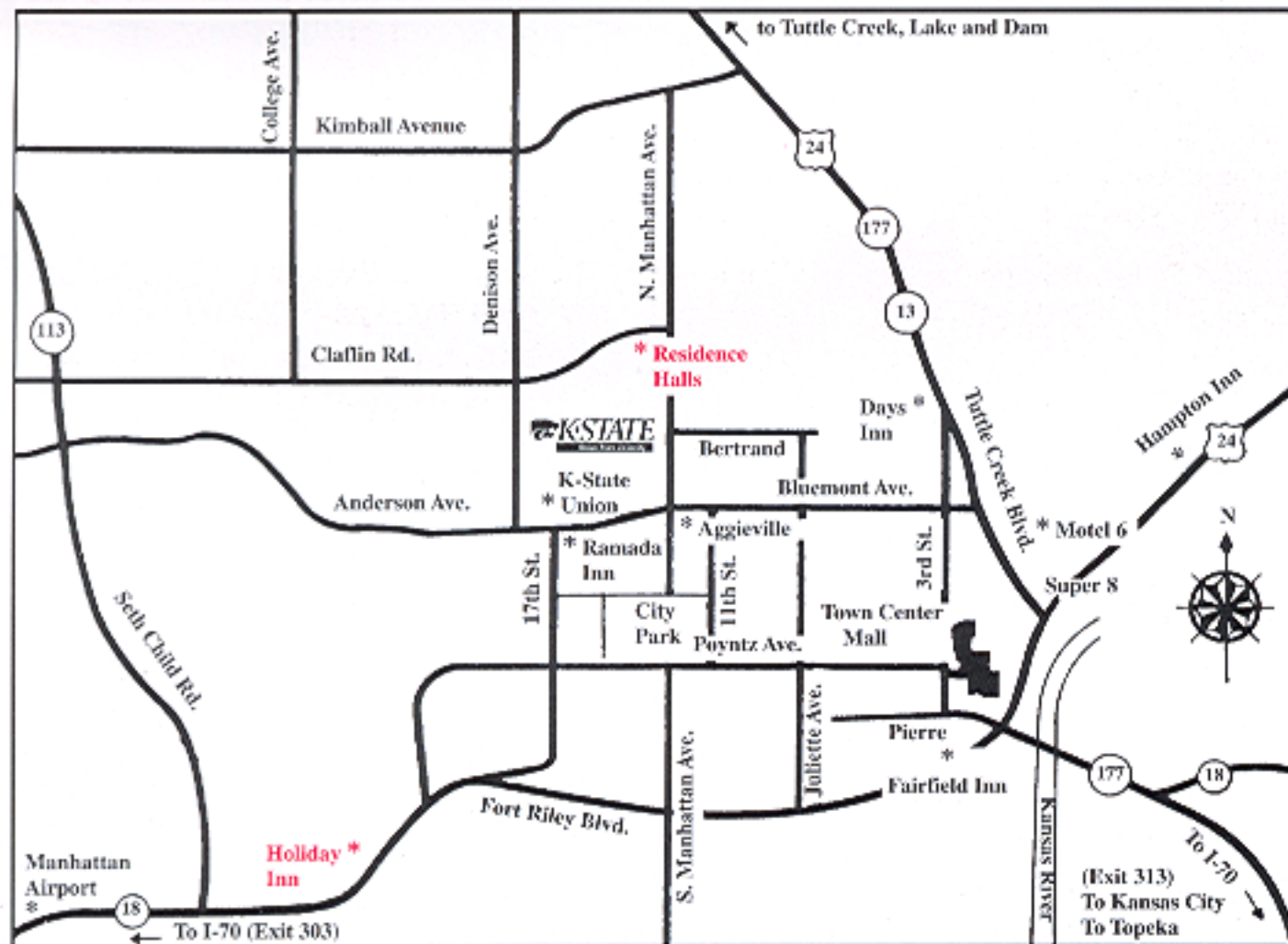
Return this form to:

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 (keep a copy)

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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 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, including those 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, 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, 785-532-6220.

28266-1/03-5M

24th Annual



International Workshop XXIV

Rapid Methods and Automation in Microbiology

June 18-25, 2004 Mini-Symposium/Workshop
Kansas State University Manhattan, Kansas

*A Symposium and Workshop
Shaping the New Millennium
1980-2004*

Rapid Methods and
Automation in Microbiology XXIV
Shaping the New Millennium
June 18-25, 2004



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Continuing Learning
Division of Continuing Education
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Manhattan, KS 66506-6006
Kansas State University

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Rapid Methods and Automation in Microbiology XXIV



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 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

Workshop Director



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

Visiting Professors



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



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

Assistant Director



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

Laboratory Coordinator



Beth Ann Crozier-Dodson, research assistant, will coordinate the hands-on laboratory sessions and functions of the workshop. She has assisted Dr. Fung in workshops in the United States, Mexico, Norway, 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-Fourth International Symposium/Workshop

Rapid Methods and Automation in Microbiology

Kansas State University • June 18–25, 2004

June 17, Thurs.	Arrival (Note 1)	7:00 pm	Workshop and Mini-Symposium Opening Banquet—Great Kansas Beef After Dinner Speaker “Recent Developments of Rapid Methods in Veterinary Medicine” Dr. M. M. Chengappa, University Distinguished Professor, Kansas State University
June 18, Fri.**	All sessions at Holiday Inn		
11:00 am	Food Science Seminar “Origin and Control of <i>Salmonella</i> in Animal Productions” Dr. Marianne Chemaly, AFSSA, France		
Noon	Registration Visit Exhibits and Posters (Note 2)		Aggieville—On your own!
1:00 pm	Welcome Remarks Dr. Jack Riley, Department Head Animal Sciences and Industry Dr. Curtis Kastner, Director Food Science Institute	June 19, Sat.** 8:30–10:00 am	Morning Sessions at Holiday Inn “History of Rapid Methods and Market Trends” Dr. Daniel Y. C. Fung
1:15 pm	Paul A. Hartman Memorial Lecture “Microsystem Based Biosensors for Rapid Detection of Microbes” Dr. Marion Scott, Sandia National Lab	10:00–10:30 am	Coffee Break Visit Exhibits and Posters
2:15–3:00 pm	Coffee Break Visit Exhibits and Posters	10:30–11:30 am	Open Discussion on Needs and Experiences of Rapid Methods Dr. Randy Phebus, Assistant Director, Discussion Leader
3:00–3:30 pm	Parade of Participants	11:30 am–1:00 pm	Luncheon and Review of Immunology (Optional) Dr. Millicent C. Goldschmidt Visit Exhibits and Posters
3:30–4:15 pm	Distinguished Fellow Lecture “Use of Rapid Methods in the Food Industry” Dr. Ann Marie McNamara, Silliker Laboratory	1:00 pm	End of Mini-Symposium, Exhibits and Posters
4:15–5:00 pm	Distinguished Alumni Fellow Lecture “Rapid Methods: An Update from the Pacific Rim” Dr. Julian Cox, Australia	1:30 pm	Start of the Workshop (Call Hall, KSU Campus) Organization of Laboratory Sessions
5:15–7:00 pm	Wine and Cheese Reception Visit Exhibits and Posters Industry Exhibition and Poster Session all day	2:30–5:00 pm	Laboratory Work Commences Beth Ann Crozier-Dodson Laboratory Coordinator
		7:00 pm	Workshop and Mini-Symposium Reception at the Konza Prairie Lodge

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 starting Monday, June 21.
- 2. Poster Session**—Please indicate on the registration form if you wish to present a scientific poster at the mini-symposium. A space will be available for display of posters. A certificate of participation will be issued to the senior author. Top three posters will receive awards.

Saturday, June 19, 2004

Afternoon Laboratory: Viable Cell Counts - Conventional, Petrifilm, Redigel, ISOGRID, Oxyrase, MicroBioLogics, Olympus, Becton Dickinson BioScience, Charm Sciences, Inc., Ecolite Products, Remel

Sunday, June 20, 2004

Morning Lecture: Comparative Analysis of Diagnostic Kits (Dr. J. S. Bailey and Dr. Scott Russell)

Afternoon Laboratory: API, MicroID, Enterotube, Biolog, Crystal, Neogen, Oxyrase, Spiral Biotech, DNA Probe (Gene-Trak), BioSys

Monday, June 21, 2004

Morning Lecture: Food Pathogens - *Salmonella*, *Campylobacter*, *Yersinia*, *Hemorrhagic E. coli*, etc. (Dr. Bailey, Dr. Russell)

Afternoon Laboratory: BioControl Products, Tecra, (International BioProducts), Neogen, VIDAS (bioMerieux, Inc.), Celsis, SAS Air Sampler, BioScience International, EM Science

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Morning Lecture: Mechanization, New Approaches, Sophisticated light scattering detection systems, Impedance, Conductance (Dr. Millicent Goldschmidt)

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• Workshop Picnic •

Wednesday, June 23, 2004

Molecular Food Microbiology Day

Morning Lecture: Radiometry, Microcalorimetry, ATP Detection (Dr. M. C. Goldschmidt), PCR lecture (Dr. Dick Oberst)

Afternoon Laboratory: Perkin Elmer, iQ BioRad, Dupont Qualicon, Cepheid, Idaho Technologies, Roche Diagnostics. Experiments at the KSU Veterinary College

• Workshop Farewell Banquet •

Thursday, June 24, 2004

Morning Lecture: Emerging Pathogens and Competitive Exclusions (Dr. Russell, Dr. P. C. Vasavada)

Afternoon Laboratory: Detection of emerging pathogens, Conventional vs. Rapid Methods, MUG, Motility, Oxoid, Dynal, Chemunex, EiaFoss, BioTrace, IGEN

Friday, June 25, 2004

Morning Lecture and Laboratory: Rapid detection of microbial toxins (Reginald Bennett), novel microbiological tests. A look into the future, Presentation of Certificates

Noon: Departure

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The deadline for reservations is May 15, 2004.

Workshop Fees

The registration fee for the 2004 *Rapid Methods and Automation in Microbiology Workshop* is \$1,895 (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, a picnic, 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 Fees

The registration fee for the Mini-Symposium of June 18–19 is \$515. The fee includes all sessions, handouts, coffee breaks, one lunch, symposium banquet, and a reception.

University Credit

Two hours of graduate credit (optional) are available for an additional \$452.

CEUs

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Bank/Wire Transfer

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Manhattan, KS 66502
785-565-5400
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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 **May 28, 2004**. After that date, a 75 percent refund will be available until **June 17, 2004**. Due to guarantees we must give, no refund will be available after **June 17, 2004**.

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Registration Form—Rapid Methods and Automation in Microbiology XXIV

Register online at: <http://www.dce.ksu.edu/dce/cl/microbiology/>

• _____
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

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• Poster Presentation ___ Yes ___ No
8 feet x 4 feet maximum

Senior Author of Poster: _____

_____ \$1,895 Workshop registration fee (includes mini-symposium, June 18–19)

_____ \$515 Mini-Symposium only (June 18–19)

_____ \$452 Two Hours Graduate Credit (optional)

_____ \$15 CEUs (optional)

Method of Payment

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Invoice my company at the address on form

Charge to: MasterCard  Visa 

Bank Wire Transfer

• _____ Print Cardholder's Name _____ Cardholder's Signature

• _____ Card Number _____ Expiration Date

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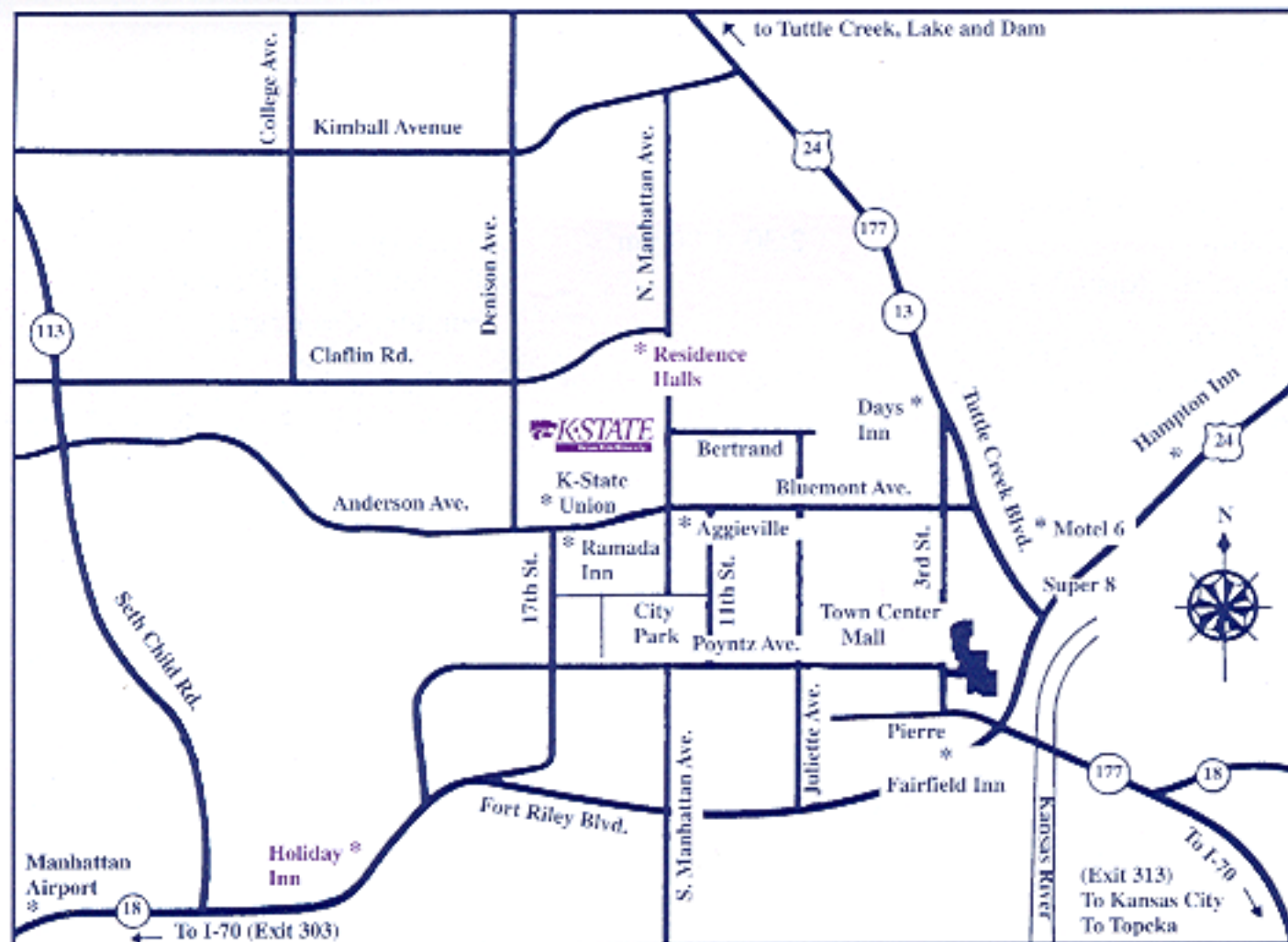
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Manhattan, Kansas



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31436-1103-6M

Participant Directory
for 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991,
1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004

24th Annual



International Workshop **WIW**

Rapid Methods and Automation in Microbiology

June 18-25, 2004

*Director of Workshop, Dr. Daniel Y.C. Fung
Kansas State University, Manhattan, Kansas*

*A Symposium and Workshop
Shaping the New Millennium*

1980-2004

DEDICATION

*This issue of the
Rapid Methods and Automation in Microbiology*

*Workshop Directory is dedicated
to the memories of*

*Dr. Paul A. Hartman,
our first Keynote Speaker, in 1991*

and

*all the wonderful microbiologists
who have graced our workshops
and have passed away.*

*In 1998 the Keynote Lecture
was renamed the
Paul A. Hartman Memorial Lecture.*

2004 Memorial Lecturer

Dr. Marion Scott

In honor of Dr. Paul A. Hartman, a most respected microbiologist and a long-time volunteer of the American Society of Microbiology, who passed away in 1996 (*ASM News*, November 1996, p. 602), the Kansas State University International Workshop on Rapid Methods and Automation in Microbiology established the Paul A. Hartman memorial Lecture in 1998. Peter Feng, Bala Swaminathan, Dean O. Cliver, Larry Beuchat, Mike Brodsky, and Steve Morse were the first lecturers. The seventh lecturer was Marion Scott, who gave a great talk on "Microsystem Based Biosensors for Rapid Detection of Microbes." Daniel Y.C. Fung, a former student of Hartman, is the initiator and director of the KSU Workshop.



June 25, 2004

Animal Sciences and Industry
K-State Research and Extension
139 Call Hall
Manhattan, KS 66506-1600
785-532-5654
Fax: 785-532-5681

Dear 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002 & 2003 Participants:

It is indeed my great pleasure and honor to inform you that the 2004 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 in eight intensive 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!

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.

All in all, it was a most rewarding experience. We made extra copies of the "Handbook of Rapid Methods and Automation in Microbiology 2004". It contains updated information on most of the systems presented in the Workshop. For US\$100 fee we will promptly send this 800 page, spiral bound Handbook and the heavy, 3-ring binders of systems and kits to you plus a free Workshop T-shirt and a tote bag.

The 2003-2004 Cumulative Directory is being made and will be posted on the Internet at <http://www.dce.ksu.edu/dce/cl/microbiology/directory.htm>.

The 25th Gala Quarter Century Workshop will be held from June 17 to June 24, 2005 with a possible additional day of celebration on June 16. Formal announcement will be made as the year progresses.

You are our best ambassadors.

Have a great summer. You will hear from us off and on throughout the year.

Sincerely yours,

Daniel Y.C. Fung, Ph.D., Director and Professor of Food Science
Fellow, American Academy of Microbiology
Fellow, Institute of Food Technologists
Fellow, International Academy of Food Science and Technology
Fellow, Institute of Food Science & Technology (UK)
Winner, International Award, IFT
Winner, 2001 Waksman Outstanding Educator Award, Society of Industrial Microbiology

Kansas State University
Agricultural Experiment
Station and Cooperative
Extension Service

DYCF;bec

"Knowledge
for Life"

EDITOR'S CORNER

A Farewell to the Most Dedicated Secretary of My Career – Barbara Caldwell

Dear Fred,

I cannot begin to tell you how I feel about the loss of Barbara! I could hardly function when I heard the news.

I have had more than 200 secretaries and office assistants in my long career and Barbara was my MOST beloved secretary – ever.

When I heard the news, my heart sank. It was the first time in my life that I dropped my glasses on the floor in disbelief and sadness. My mind went back to so many memories of wonderful, happy times that Barbara provided for the Kansas State University Department of Animal Sciences and Industry, Food Science Institute, my humble office, of the International Rapid Methods Workshop that she loved so much, of all the smiles, the friendships, the encouragements, the corrections of my misuse of the King's English in grammar, misspellings, nuisances, expressions, etc. I have missed her greatly ever since she left Call Hall in retirement. I called her every now and then to find out about her well-being. She always assured me that she was getting better, and her voice was stronger every time I communicated with her. I was sure that she would be better soon.

Her loss was felt by all her beloved faculty members, administrators, coworkers, students, personnel and friends in Call Hall, in Weber Hall and beyond.

She was such a fantastic secretary. In more than 10 years of dedicated service, she had known me so well that I did not have to ask her to do some routine assignments. She would do things before I even asked her. One day, I said to her, "Barbara, you can almost run my workshop since you know all the details!" She smiled and said, "Yes, Dr. Fung, but you always have something unexpected happening in your schedule. I need to keep track of your unpredictable plans at all times!"

One of the most lovely moments in our interactions was the 20th anniversary of the International Workshop on Rapid Methods and Automation in Microbiology when Dr. Catherine L. Fung, my wife, placed a gold medallion on Barbara's neck. Barbara wore a gorgeous black gown for the occasion. They matched perfectly, and Barbara was happy and beaming with pride and joy. I was planning to give her a silver medallion on the 25th anniversary in June 2005. We will dearly miss her this year.

Fred, such is life. Our loss is nothing compared with your loss of a wonderful wife and with your daughter's loss of a wonderful mother. No word can express our sympathy and sorrow in the departure of Barbara.

In this moment of grief, we share with you and pray that with your strength and love for Barbara, all will be fulfilled in the greater plan of life's destiny.

Representing administrators, professors, students and friends in Animal Sciences and Industry (ASI) and Kansas State University (KSU) to the Caldwell family and with the deepest respect and affection,

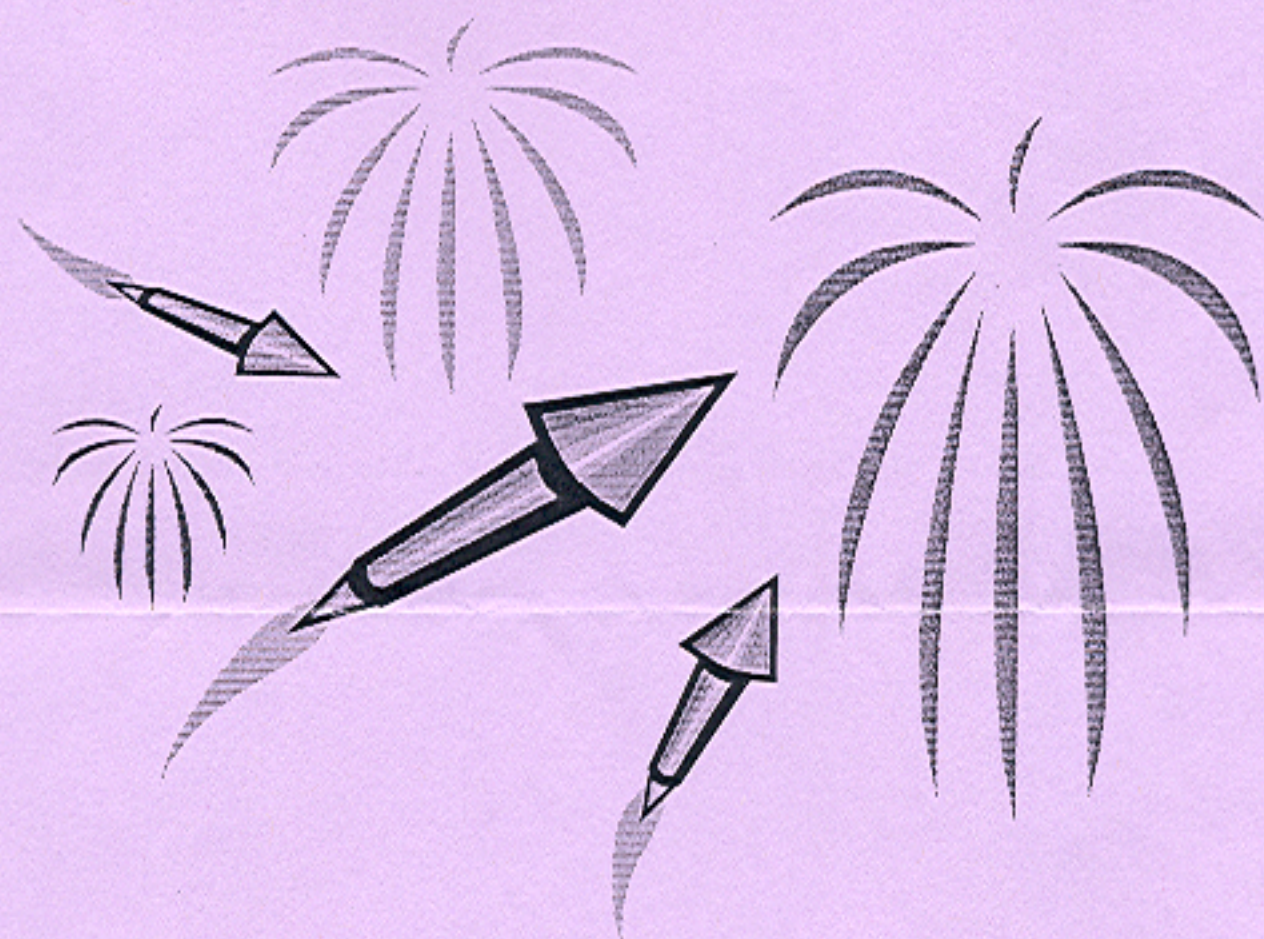
DANIEL Y. C. FUNG

ANNOUNCING

XXV GALA QUARTER CENTURY

*Rapid Methods and Automation
in Microbiology
Symposium/Workshop*

June 17-24, 2005



Anniversary Celebration June 16, 2005

Kansas State University

Manhattan, Kansas

Director Daniel Y.C. Fung

E-mail: dfung@oznet.ksu.edu

**Quarter Century
25th**



International Workshop WW

Rapid Methods and Automation in Microbiology

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

*June 16-24, 2005 Mini-Symposium/Workshop
Kansas State University Manhattan, Kansas*

1980-2005

QUARTER CENTURY GALA
Rapid Methods and
Automation in Microbiology XXV
Shaping the New Millennium
June 16-24, 2005



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

KSTATE
Kansas State University

Rapid Methods and Automation in Microbiology XXV



Workshop Purpose

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

A celebration day and two-day mini-symposium will be offered as an integral part of the workshop. Workshop participants must attend both the celebration/mini-symposium and the workshop. Some individuals may opt to attend the celebration/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, Peoples Republic of China, Singapore, Finland, Iceland, Brazil, Thailand, Colombia, Poland, Hungary, Zimbabwe, Chile, Argentina, Hong Kong, the Philippines, Korea, Taiwan, and the United States. He has more than 600 publications in journals, books, and proceedings, and is the recipient of the **1997 International Award** given by the Institute of Food Technologists because of the uniqueness of this workshop series. He is editor of *Journal of Rapid Methods and Automation in Microbiology*, a Fellow of the American Academy of Microbiology (AAM), Institute of Food Technologists, and International Academy of Food Science and Technology. He presented an invited lecture at Pasteur Institute in Paris during the 100th year commemoration of Pasteur's death in 1995. He won the **2001 Waksman Outstanding Educator Award** given by the Society for Industrial Microbiology. Dr. Catherine L. Fung is an honorary founding fellow.

Visiting Professors



Dr. Millicent C. Goldschmidt, professor of the Dental Branch, Dental Science Institute, at the University of Texas Health Science Center in Houston, has authored more than 200 publications. Her particular expertise in microbiological instrumentation led her to be recognized

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



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

AOAC and has published more than 350 publications in the areas of poultry microbiology and microbiological methods.

Assistant Director



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

Laboratory Coordinator



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

Guest Lecturers and Visiting Professors

Nelson A. Cox (a founding Fellow), **Reginald Bennett**, **P.C. Vasavada**, **Cecile Lahellec**, **Richard Oberst**, **Ann Marie McNamara**, **Julian Cox**, and **Scott Russell** have been guest lecturers in recent years.

Twenty-Fifth Quarter-Century International Symposium/Workshop

Rapid Methods and Automation in Microbiology

Kansas State University • June 16–24, 2005

June 16 Day of Celebration

Thursday

All sessions at Holidome

1:30 p.m.

Arrival and Registration—
Visit Exhibits and Posters

3:00 p.m.

Welcome Remarks

Dr. Jack Riley, Department Head (Emeritus)
Animal Sciences and Industry

Dr. Janice Swanson, Interim Department
Head

Dr. Curtis Kastner, Director, Food Science
Institute

3:30 p.m.

“Rapid Methods in Food Safety and
Security—KSU Perspective”

Dr. Randall Phebus, Assistant Director,
Quarter Century Fellow

4:00 p.m.

“The Role of Rapid Methods in the Food
Industry”

Dr. Pall Hall, Kraft, Quarter Century Fellow

4:45 p.m.

Break—Visit Exhibits and Posters

5:30 p.m.

“Wisdom Lost in Information: Other
Toxicogenic Culprits in the Genus
Staphylococcus”

Reginald Bennett, CFSAN, FDA, Silver
Medallion Fellow

6:15 p.m.

“From Rapid Methods to *Campylobacter* in
Poultry”

Dr. Nelson Cox, USDA, Founding Fellow

7:00 p.m.

Celebration—Food, Fun, Door Prizes

9:00 p.m.

Celebrate on your own!

June 17 Mini-Symposium

Friday

All sessions at Holidome

8:20 a.m.

KSU vans to Holidome

8:30 a.m.

“Impact of Rapid Methods in University
Research and Extension”

Dr. Dong-Hyun Kang, Washington State
University, Quarter Century Fellow

9:15 a.m.

“Organizing Successful Rapid Methods
Workshops in Spain”

Dr. Josep Yuste, Universitat Autònoma de
Barcelona, Quarter Century Fellow

Dr. Marta Capellas, Universitat Autònoma
de Barcelona, Quarter Century Fellow

10:00 a.m.

Break—Visit Exhibits and Posters

10:30 a.m.

Parade of Participants

11:15 a.m.

Food Science Seminar Series

“International Harmonization of
Microbiological Methods”

Dr. Cecile Labellec, Silver Medallion
Fellow

12:00 Noon

Lunch on your own

Visit Exhibits and Posters

1:30 p.m.

Paul A. Hartman Memorial Lecture

“Market Trends and Global Impact of Rapid
Methods Testing”

Dr. Thomas Weschler, Strategic Consulting
Inc., Keynote Lecturer

2:30 p.m.

“Practical Application of Rapid Methods in
the Consulting Laboratories”

Dr. Ann Marie McNamara, Silliker
Laboratory, Silver Medallion Fellow

3:15 p.m.

Break—Visit Exhibits and Posters

4:00 p.m.

“Use of Rapid Methods in Risks
Assessments”

Dr. Anna Lammerding, Health Canada,
Quarter Century Fellow

4:45 p.m.

“Development of Rapid Methods in the
Pacific Rim”

Dr. Julian Cox, University of New South
Wales, Quarter Century Fellow

5:30 p.m.

Wine and Cheese Reception

Visit Exhibits and Posters

7:00 p.m.

Group Picture by the Fountain

Reflections

Dr. Millicent Goldschmidt, Founding Fellow

Dr. Nelson Cox, Founding Fellow

Dr. Stan Bailey, Silver Medallion Fellow

Dr. P.C. Vasavada, Silver Medallion Fellow

Reginald Bennett, Silver Medallion Fellow

Presentations of Medallions—

Dr. Daniel Y. C. Fung

Director and Founding Fellow

Banquet

“Me and My World Map:

25 Years of Places and People”

Dr. Catherine L. Fung, “Self-Discovery for
Good Business,” Consultant and Social

Chair, Honorary Founding Fellow

Music and Fun

9:00 p.m.

Continue celebration on your own!

June 18

Saturday

- 8:20 a.m. KSU van—Dormitory to Holidome
- Holidome**
8:30 a.m. "History of Rapid Methods and Automation in Microbiology"
Dr. Daniel Y.C. Fung, Director
- 9:15 a.m. "Vindication and Validation. Not the Same Old AOAC"
Dr. Mike Brodsky, Past President, AOAC, Quarter Century Fellow
- 10:00 a.m. **Break**—Visit Exhibits and Posters
- 10:30 a.m. Open Discussion on Needs and Experiences of Rapid Methods
Discussion Leader—Dr. Randy Phebus, Assistant Director
- 11:30 a.m. **Luncheon and Review of Immunology** (Optional)
Dr. Millicent C. Goldschmidt
Visit Exhibits and Posters
- 1:00 p.m. **End of Mini-Symposium, Exhibits and Posters**
- 1:15 p.m. Holidome and KSU vans to Call Hall

WORKSHOP STARTS

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

All commercial slots are tentative.

Call Hall

- 1:30 p.m. MicroBioLogics (Forest Reichel)
- 1:45 p.m. Becton Dickinson—"Advanced Chromogenic Media Formulations in Rapid Microbiology"
- 2:15 p.m. 3M
- 3:00 p.m. **Break**
- 3:15 p.m. Assignment of equipment. Discussion of general laboratory format.
Dr. Beth Ann Crozier-Dodson and Dr. Julian Cox
Bring your laboratory coat
Handout of unknowns (24 hr cultures), Streak plates for Sunday
Rehydrate culture and swab onto chromogenic media
Perform conventional tests and inoculate culture into Fung's mini system
Comparative analysis of food samples by conventional viable cell counts and Petrifilm
- 4:30 p.m. Divide into groups: MicroBioLogics, Hychek, Inoculate Staph Petrifilm, Remel
- 6:00 p.m. Call Hall Van to Holidome

Evening:

6:45 p.m.

WELCOME RECEPTION

Holidome Van to Reception Site and KSU Van from Dormitory to Reception Site
Konza Prairie Lodge—A Unique Experience in a Natural Tall Grass Preserve
Maps and directions will be provided.
Lots of interesting foods and beverages
KSU van leaves reception

7:00 p.m.

10:00 p.m.

June 19

Sunday

8:20 a.m.

Holidome

8:25 a.m.

9:05 a.m.

10:05 a.m.

Call Hall

10:15 a.m.

10:45 a.m.

11:30 a.m.

12:00 noon

1:30 p.m.

2:00 p.m.

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

KSU van—Dormitory to Holidome

Trends and Applications of Diagnostic Kits (Dr. Stan Bailey)

BioSys

Van and cars to Call Hall

Bio-Rad

Biolog, Inc.

Microbiology International

Lunch on your own

Remel

Inoculation into API, Crystal Gram (-), Crystal Gram (+) ID kit, Enterotube.

Reading of conventional tests (VCC), Fung's minitest, Petrifilm, and chromogenic media

Streak plates for Monday, including Rapid L'mono and ALOA plates

4:45 p.m.

Divide into groups: BioSys, Biolog, and MicroBioLogics

6:00 p.m.

Complete day's work. Van to Holidome

Evening:

6:45 p.m.

Holidome van leaves Holidome and KSU van leaves dormitory

7:00 p.m.

Optional dinner at Hunam Chinese Restaurant (Great Mongolian Buffet)

June 20

Monday

8:20 a.m.

Holidome

8:30 a.m.

Holidome (Regency B)—Morning Call Hall—Afternoon

KSU Van—Dormitory to Holidome

Food pathogen detection (*Salmonella*, *Listeria*, *Campylobacter*: Conventional versus Rapid Methods (Dr. Stan Bailey and Dr. P.C. Vasavada)

9:30 a.m. "U.S. Army Food Safety Program"
Roger W. Parker (DVM, Ph.D.), Lieutenant
Colonel, U.S. Army Veterinary Corps,
Quarter Century Fellow

10:15 a.m. **Break**

10:30 a.m. Neogen

11:00 a.m. bioMerieux Inc.

12:00 noon **Lunch on your own.**

1:30 p.m. BioControl Products
Discussion and inoculation of BioControl
Products

Call Hall

2:45 p.m. "Innovative Microbiological Approaches to
Food Science"
Dr. Daniel Y. C. Fung, Director

3:15 p.m. International BioProducts: Microbiology
Laboratory Supplies

3:45 p.m. **Break**

4:00 p.m. Read Crystal, API, Crystal Gram (+) ID kit,
Enterotube, and Rapid L'mono plates,
Tabulate data; streak plates inoculate
Listeria ID for Tuesday

4:50 p.m. Divide into groups: Neogen, bioMerieux,
Biolog, and Advanced Instruments/
Spiral Biotech

6:00 p.m. Complete day's work, van to the Holidome

Evening:

6:45 p.m. Van leaves dormitory and the Holidome

7:00 p.m. **Optional dinner at Harry's Uptown**
(fine dining)

June 21

Tuesday

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

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

Holidome

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

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

Call Hall

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

10:30 a.m. Genetrak and Isogrid

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

11:30 a.m. Chemunex

12:00 noon **Lunch on your own.**

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

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

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

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

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

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

7:00 p.m. Holidome Van to Picnic, KSU Van to Picnic.
Picnic at the beautiful Tuttle Creek area.
Dress appropriately. Be sure to have maps if
you drive.

June 22 Molecular Detection Day

Wednesday

Holidome, then Veterinary School

8:20 a.m. Dormitory Van to Holidome

Holidome

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

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

Veterinary School

10:15 a.m. "Basic Principles and Applications of PCR"
Dr. Richard Oberst, Quarter Century Fellow

11:00 a.m. Introduction of cultures into PCR units:
Thermal Cyclers begin
Applied BioSystems, Dupont Qualicon,
Cepheid, and Warnex Diagnostics

11:30 noon **Working Lunch at the Veterinary School**

1:30 p.m. **Break**

1:45 p.m. Rotations Begin—TaqMan, Bax and
Qualicon, Cepheid, Warnex Diagnostics

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

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

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

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

"Nontechnology and Micro Fluidics for
Pathogen Detection," Dr. Rashid Bashir,
Associate Professor, Electrical and
Computer Engineering

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

"Phage-display Method for Antibody
Production and New Sandwich Methods for
Pathogen Detection," George Paoli and
Andrew Gehring, Research Scientists,
USDA-ARS

- 6:15 p.m. KSU Van—Dormitory to Holidome
Evening: Workshop Banquet—Holidome
 6:00 p.m. **Cash Bar**
 7:00 p.m. **Banquet—Western (Cowboy) Barbeque**
 Dress appropriately. FUN!
 8:00 p.m. **Talent Show**
 Those with talents please volunteer!

June 23

Thursday

- Holidome (Regency B)—Morning
 Call Hall—Afternoon
 8:20 a.m. KSU Van—Dormitory to Holidome
Holidome
 8:30 a.m. “Advantages to Using Rapid Methods for
 Monitoring Sanitation in Food Processing
 facilities”
 Dr. Scott Russell, Quarter Century Fellow
 9:45 a.m. AutoJet Technologies
 10:30 a.m. **Break**
 11:00 a.m. Review of Data and Group Discussion (Dr.
 Randy Phebus)
 12:00 noon **Lunch on your own**
 1:20 p.m. Holidome Van to Call Hall
Call Hall
 1:30 p.m. New Horizons Diagnostic
 2:15 p.m. Biotrace
 3:00 p.m. Demonstrations of New Horizons
 and Biotrace
 3:30 p.m. “Innovative Microbiological Approaches to
 Food Science”
 Dr. Daniel Y. C. Fung, Director
 4:00 p.m. Open Session
 5:00 p.m. Free activity. Shopping, packing, etc.
 7:15 p.m. KSU Van—Dormitory to Holidome
 7:30 p.m. **Swimming pool farewell at Holidome**

June 24

Friday

- Holidome (Regency B1)—All Day
 8:20 a.m. KSU Van—Dormitory to Holidome
Holidome
 8:30 a.m. “Microbial Toxins and Food Safety”
 Reginald Bennett, FDA, Silver Medallion
 Fellow
 10:00 a.m. **Break**
 10:30 a.m. Innovative agar media (*E. coli* O157:H7,
 etc.) and toxin systems demonstrations
 General discussion and presentation of
 certificates (Fung)
 12:00 noon Workshop adjournment

We will organize departure van activities.

HAVE A SAFE TRIP HOME!

Social Activities

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

Location

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

Transportation

Manhattan has an airport served by U.S. Air-Express. The charming city is approximately 130 miles west of Kansas City on Interstate Highway 70, a scenic drive of about two and one-half hours. KCI Roadrunner is an airport van shuttle service that runs between the Kansas City International Airport and Manhattan. For schedule information and reservations, call 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 at 1-785-539-5311, FAX: 1-785-539-8368.** The rate for a single or double room is \$70 plus tax per night. Please make reservations before **May 15, 2005**, to receive the reduced rate.

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

Note:

- 1. Arrival**—At Manhattan Municipal Airport, call Holiday Inn (direct phone line in baggage area) for courtesy van to Holiday Inn or KSU dormitory. If you rent a car be sure to obtain a KSU parking permit from Dr. Fung starting Monday, June 20.
- 2. Poster Session**—Please indicate on the registration form if you wish to present a scientific poster at the mini-symposium. A space will be available for display of posters. A certificate of participation will be issued to the senior author. Top three posters will receive awards.

Workshop Fees

The registration fee for the 2005 *Rapid Methods and Automation in Microbiology Workshop* is \$1,995 (includes the celebration/mini-symposium). This includes nine days of program sessions and laboratories, all handout materials, and a one-year subscription to *Journal of Rapid Methods and Automation in Microbiology*. Also included are the celebration, two banquets, one lunch, one picnic, refreshment breaks and receptions. Other meals, lodging, and transportation are not included. **Payment must be in U.S. dollars or by World Wide Money Order.**

Mini-Symposium and Celebration Fees

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

Molecular Detection Day

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

University Credit

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

CEUs

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

Bank/Wire Transfer

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

Account Name: State Fee 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 **May 28, 2005**. After that date, a 75 percent refund will be available until **June 15, 2005**. Due to guarantees we must give, no refund will be available after **June 15, 2005**.

The Division of Continuing Education may cancel or postpone any course or activity because of insufficient enrollment or other unforeseen circumstances. If a program is

anceled or postponed, the Division of Continuing Education will refund registration fees but cannot be held responsible for other costs, charges, or expenses, including cancellation/change charges assessed by airlines or travel agencies.

Graduate Student Fellowships

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

Questions

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

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

Fast, Easy Registration



Online Registration:

<http://www.dce.ksu.edu/dce/cl/rapidmethods/>



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



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



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

Limited Enrollment

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

Web Site

Program and registration information is available at <http://www.dce.ksu.edu/dce/cl/rapidmethods/>.

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

Letter of Invitation

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

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

Registration Form—Rapid Methods and Automation in Microbiology XXV

Register online at: <http://www.dce.ksu.edu/dce/cl/rapidmethods/2005/>

• _____
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 28, 2005 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 celebration/
mini-symposium, June 16–18)

_____ \$615 Celebration/Mini-Symposium only (June 16–18)

_____ \$200 Molecular Detection Day only (June 22)

_____ \$15 CEUs (optional)

To register for two credit hours of graduate credit, go to www.dce.ksu.edu and click "Course Offerings"

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 informationdce@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

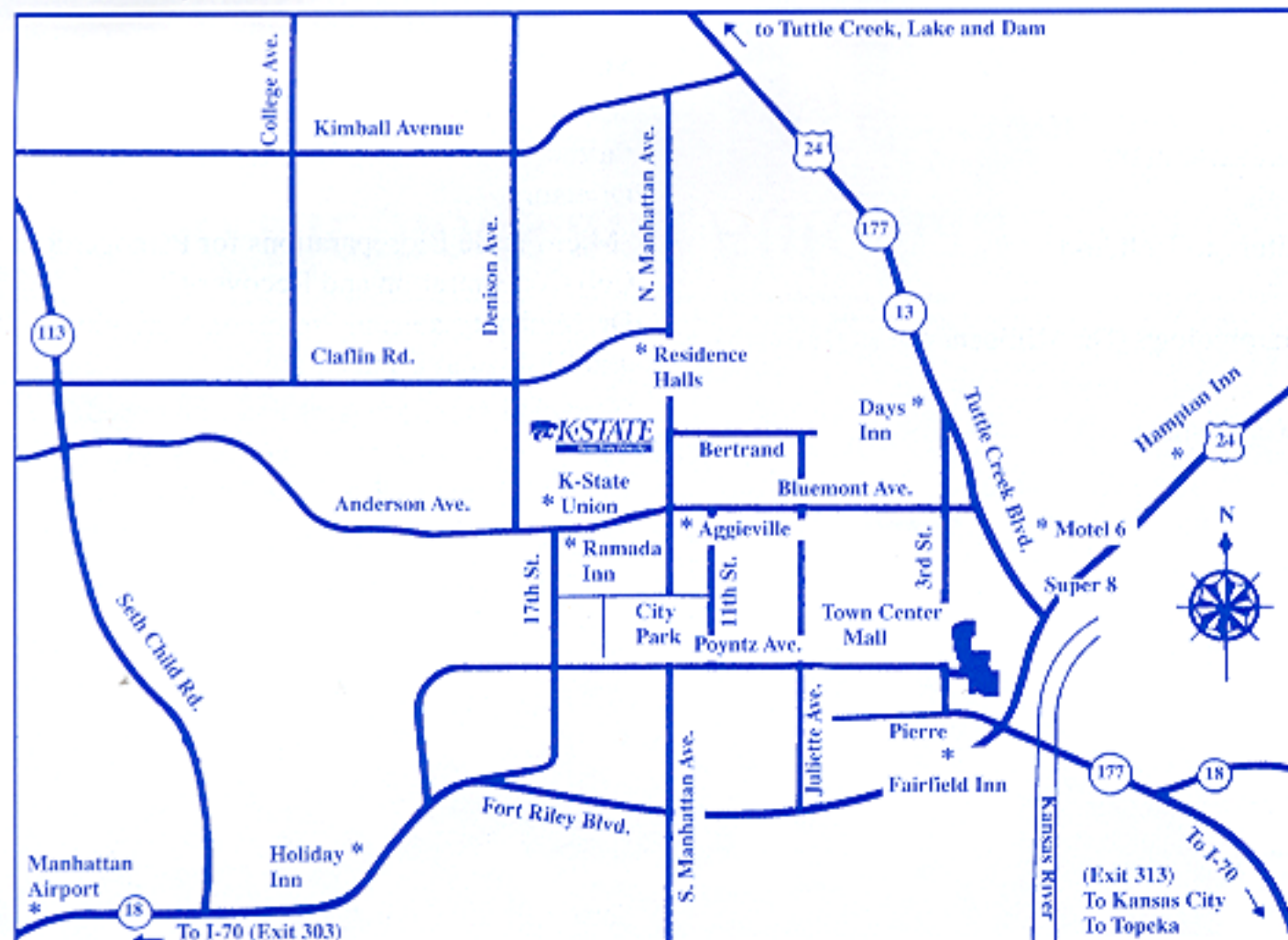
131 College Court Building

Manhattan, KS 66506-6015 USA

cut and mail (keep a copy)

See this brochure on the World Wide Web at <http://www.dce.ksu.edu/dce/cl/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 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.

Dear Daniel and Catherine,

I hope this letter finds the two of you much like I remember you when I left the workshop, wonderful... I am writing to express my gratitude for the terrific workshop, and the extraordinary hospitality that we all felt while we were there. On a technical level, the workshop was everything we had hoped for, and Darrin and I discovered some important information that will be useful for us as we continue to develop our laboratory procedures. This workshop is more than about learning science though. For me, it was as much spiritual as it was educational. The warmth, kindness, and generosity that you two share with each other as well as with others was incredible, and I was deeply touched. It pleases me greatly to know a couple such as yourselves and there is no doubt that you have touched the lives of many people, demonstrated by the endless number of friends that you share throughout the world. Special attracts special, and as you continue to live your lives in your own wonderful way, may you continue to surround yourself with life's true treasure, real friendship.

Take great care always,

Sincerely,



Roy Patrick Pivonka

Dear Professor Fung, My
dear friend Daniel:

I wanted to thank you much earlier for inviting me to the Gala Workshop on Rapid Methods. My hectic time after resuming home has hindered me to express my gratitude to you in due time.

The series of Rapid Methods Workshops were clearly a very large contribution of our time to the extension of up-to-date methods in food microbiology, and the outstanding work of you, your co-workers and staff members have justifiably earned a world-wide reputation. This has been reflected appropriately at the 25th Gala Workshop considering the addresses by the authorities of the KSU and peers, the extremely wide international participation of speakers, students and companies. It has been a great pleasure working with you, and I thank you for your collaboration and friendship. With all good wishes,

Sincerely,

tibor
(T. Deak, Ph.D., D.Sc.,
Professor)



25th Gala Anniversary Rapid Methods and Automation in Microbiology

EDITOR'S CORNER

Kansas State University Celebrated the Silver Anniversary Workshop on Rapid Methods and Automation in Microbiology, June 2005

With a 30-min, fourth-of-July-style fireworks display, Kansas State University (KSU) celebrated the Silver Anniversary of the International Workshop on Rapid Methods and Automation in Microbiology in Manhattan, Kansas, from June 16 to 24, 2005. More than 125 scientists and guests from many countries and states attended the workshop. A Silver Medallion crafted for the occasion was presented by the Honorary Founding Fellow to the three Founding Fellows, five Silver Medallion Fellows and 13 Quarter Century Fellows.* All participants and special guests also received the handsome Medallion throughout the workshop.

The 9-day workshop consisted of a presentation of a wide range of lectures and hands-on laboratory sessions dealing with the practical application of conventional and new commercial systems of rapid isolation, identification, enumeration and characterization of microorganisms from medical specimens, foods, water

* Founding Fellows: Daniel Y.C. Fung, Millicent C. Goldschmidt and Nelson A. Cox; Honorary Founding Fellow: Catherine L. Fung; Silver Medallion Fellows: Reginald Bennett, J. Stan Bailey, P.C. Vasavada, Cecile Lahellec and Ann Marie McNamara; Quarter Century Fellows: Randall Phebus, Beth Ann Crozier-Dodson, Scott Russell, Julian Cox, Pall Hall, Dong-Hyun Kang, Josep Yuste, Marta Capellas, Maha Hajmeer, Mike Brodsky, Thomas Weschler, Roger W. Parker and Robert Dawson.

and the environment. A special "Molecular Microbiology Detection Day," concentrating on advanced polymerase chain reactions, microarray, nanotechnology, etc., was conducted at the KSU Veterinary School with special guests from Purdue University.

Daniel Y.C. Fung, Professor of Food Science and the Director, started this workshop in 1980 as a graduate course at KSU and has offered the course to the public since 1981. A large number of outstanding scientists and friends* worked with him through the years to provide the newest and best applied microbiological technologies to the participants. Industry support to the workshop has been outstanding. More than 3500 scientists from 60 countries and 46 states have attended this workshop. Besides intensive scientific sessions, the workshop also provided delightful social activities, banquets, picnics, etc., to welcome the participants to Manhattan, KS, the "Little Apple" of the Midwest!

The 26th workshop will be held from July 14 to 21, 2006.

DANIEL Y.C. FUNG

July 8, 2005



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

It is indeed my great pleasure and honor to inform you that the 2005 Gala 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 in nine intensive 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! We even had a 30-minute fireworks display at the beginning of the celebration!! It gave Manhattan, KS quite a blast before July 4th.

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 sent a team of nanotechnology experts to present lectures and make the day truly "molecular". It was worthwhile just to come back for that one day.

All in all, it was a most rewarding experience. We made extra copies of the "Handbook of Rapid Methods and Automation in Microbiology 2005". It contains updated information on most of the systems presented in the Workshop. For a US\$150 fee, we will promptly send this 800-page handbook, 3-ring binders of systems and kits, a commemorative XXV Silver Medallion and a beautiful Workshop T-shirt.

The 2005 Cumulative Directory is being made and will be posted on the Internet at <http://www.dce.ksu.edu/dce/cl/microbiology/directory.html>.

The 26th Workshop will be held from July 14-21, 2006 (we must move to July because IFT will be in June 2006). Formal announcement will be made as the year progresses.

You are our best ambassadors.

Have a great summer. You will hear from us off and on throughout the year.

Sincerely yours,

Daniel Y.C. Fung, Ph.D., Director and Professor of Food Science
Fellow, American Academy of Microbiology
Fellow, Institute of Food Technologists
Fellow, International Academy of Food Science and Technology
Fellow, Institute of Food Science & Technology (UK)
Winner, International Award, IFT
Winner, Waksman Outstanding Educator Award, Society of Industrial Microbiology

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and U.S. Department of
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religion, national origin,
sex, age, or disability.

"Knowledge
for Life"

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

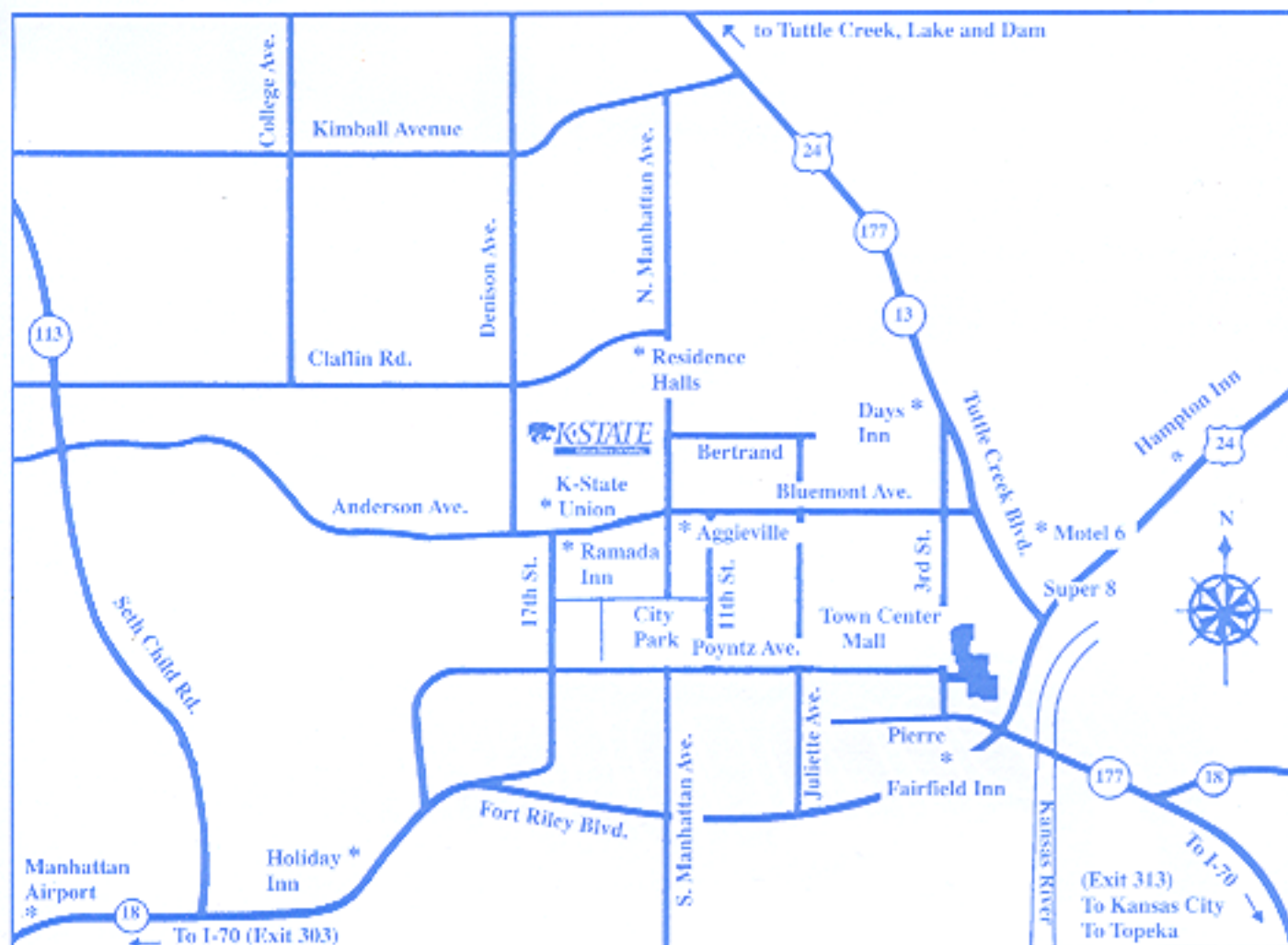
131 College Court Building

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

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EDITOR'S CORNER

Automation and Nanotechnology Special Issue Part I*

The Journal of Rapid Methods and Automation in Microbiology Volume 15 Issue 1 is a special issue concentrated on nanotechnology and automation review and research papers. The idea came from organizers of the Molecular Detection Day Program of the International Workshop on Rapid Methods in Microbiology held at Kansas State University during the 2005 and 2006 Workshops.

The Molecular Detection Day started about 10 years ago as a part of the week-long Workshop. During this particular day, many scientists from university, industry and government presented outstanding lectures covering many important topics related to automation, rapid methods, molecular biology and nanotechnology issues. Along with the presentations, industrial experts came to present and demonstrate their latest systems and materials to the participants. The participants had detailed information of each system and observed the actual operation of the units in a large, spacious and functional laboratory at the Kansas State University Veterinary School. It was a very intensive day but a lot was accomplished.

The Editor was so impressed with the presentations that he thought it would be great to collect these materials and publish them in a special issue of this Journal. Most of the writers of the articles are from Purdue University and USDA as they came to the workshop and participated in the program. A couple of articles are also included, as the topics are appropriate for the total concept of this issue.

I hope the readers enjoy this collection and will use it as a reference material in their research, teaching and extension activities.

Special people to thank are:

Dr. Millicent Goldschmidt, Associate Editor

Dr. Donghyun Kang, Assistant Editor

Dr. Beth Ann Crozier-Dodson, Assistant to the Director of the Workshop

Dr. Richard Oberst, for arrangement of facilities at the Vet School and Industry personnel

Dr. Richard Linton, for coordination of the speakers from Purdue University

Dr. Tu Shu-I, for coordination of the speakers from USDA, Wyndmoor, PA

Contributors of articles who are directly and indirectly related to the Workshop

DANIEL Y.C. FUNG

Editor and Director of the Workshop

*Part II will be published in JRMAM volume 15, issue 2.