

Gold 20th Anniversary



International Workshop XX

Rapid Methods and Automation in Microbiology

*A Symposium and Workshop
Shaping the New Millennium
1980-2000*

*July 6, 2000 Celebration
July 7-14, 2000 Mini-Symposium/Workshop
Kansas State University Manhattan, Kansas*

DOE
Division of
Continuing Education
Kansas State University
Rapid Methods and
Automation in Microbiology
Shaping the New Millennium
July 6-14, 2000

Conferences and
Non-Credit Programs
Division of Continuing Education
241 College Court Building
Manhattan, KS 66506-6006



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Rapid Methods and Automation in Microbiology XX

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 special 20th Anniversary Celebration and a 2-day mini-symposium will be offered as an integral part of the workshop. Workshop participants must attend both the celebration, the symposium and the workshop. Some individuals may opt to attend the celebration and mini-symposium only.

Designed for

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

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.

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, Italy, Republic of China, Singapore, Finland, Iceland, Brazil, Thailand, Colombia, Poland, Hungary, Zimbabwe, Chile, Argentina, Hong Kong, the Philippines and the United States. He has about 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.

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.

Gala Twentieth International Workshop/Symposium

Rapid Methods and Automation in Microbiology

Kansas State University • July 6–14, 2000

July 6 20th Anniversary Celebration

Thursday All sessions at Holidome (Note 1)

5:00 p.m. Arrival, Registration, Exhibits, Posters (Note 2)

6:30 p.m. Food Science Seminar

“Progress on International Harmonization of Food Microbiology Testing: A European Perspective”

Dr. Cecile Lahellec,
Distinguished Fellow (1985)
Director of Food Hygiene, AFSSA, French Agency for Food Safety, Paris, France

7:30 p.m. Greetings and Welcome

Dr. Jack Riley, Dr. Curtis Kastner,
Dr. Randy Phebus, Dean Marc Johnson and
Dean Beth Unger

Reflections

Dr. Nelson Cox,
Distinguished Founding Fellow (1981)
Dr. Millicent Goldschmidt,
Distinguished Founding Fellow (1981)
Dr. Stan Bailey,
Distinguished Lecturer and Fellow (1984)

Presentation of Medallions

Dr. Daniel Y. C. Fung, *Director* and
Distinguished Founding Fellow (1980)

8:00 p.m. **Paul A. Hartman Memorial Lecture**
“Detecting Viruses and Protozoa—The ‘Other’ Foodborne Disease Agents”

Dr. Dean O. Cliver,
Distinguished Lecturer (2000)
Professor, University of California–Davis

9:00 p.m. **Celebration with Food, Spirit,
Fun and Music**

July 7

Friday

**Symposium I.
Molecular Detection Approaches**
All Sessions at Holidome

8:30 a.m. “Molecular Basis for Definitive Identification of Microbes”

Prof. Dr. Karl H. Schleifer,
Distinguished Fellow (2000)
Head, Dept of Microbiology,
Univ. of Munich, Germany

9:30 a.m. “In Situ Identification of Bacteria Using rRNA—Targeted Probes”

Dr. Vijay K. Juneja, *Alumnus Fellow* (1995)
Lead Scientist, USDA, Philadelphia, PA

10:00 a.m. “Rapid PCR Method to Detect Food Yeasts”

Dr. Tibor Deak, *Alumnus Fellow* (1993)
Head, Dept of Microbiology,
Univ. of Horticulture, Budapest, Hungary

10:30 a.m. Coffee Break—Visit Exhibits and Posters

11:00 a.m. “PCR Confirmation Testing of Culture Isolates: Post Harvest Concerns”

Dr. Ingrid Feder, *Alumnus Fellow* (1996)
Research Associate, Vet Medicine,
Kansas State University

11:30 a.m. “Biosensors and Rapid Methods”

Dr. Linda Yu, *Alumnus Fellow* (1988)
Microbiologist, USDA, Philadelphia, PA

12:00 noon Lunch your own—Restaurants in Holidome and Close Proximity

1:30 p.m. **Symposium II.**

Novel and New Approaches

“Eggborne Transmission of *Campylobacter jejuni* from the Mother Hen to Her Offsprings”

Dr. Nelson A. Cox,
Distinguished Founding Fellow (1981)
Research Microbiologist, USDA,
Athens, GA

2:30 p.m. “Microbiological Analysis of Vegetable Proteins Using Conductance/Malthus 2000”

Cesar A. C. Conde, *Alumnus Fellow* (1986)
Food Safety Manager, Santista,
Sao Paulo, Brasil

3:00 p.m. Coffee Break—Visit Exhibits and Posters

3:30 p.m. “Rapid Microbiological Assay for Lysine bioavailability in Poultry feeds”

Dr. Steve Ricke, *Alumnus Fellow* (1999)
Associate Professor, Texas A & M,
College Station, TX

4:00 p.m. “New Rapid Methods to Detect *Salmonella* in Food Products”

Dr. Anne Brisabois, *Alumnus Fellow* (1997)
Head, Microbiology Unit, Epidemiology of Bacteria, AFSSA, Paris, France

4:30 p.m. "Use of Rapid Methods in Swine Slaughter and Carcasses Dressing Operations"
 Dr. Sam Palumbo, *Alumnus Fellow* (1996)
 Research Microbiologist, USDA,
 Philadelphia, PA

5:00 p.m. "Rapid Analytical Microbiology—It's Academic!"
 Dr. Julian Cox, *Alumnus Fellow* (1999)
 Lecturer, Dept Food Sci and Tech,
 University of New South Wales,
 Sydney, Australia

5:30 p.m. Wine and Cheese reception—
 Visit Exhibits and Posters

7:00 p.m. **Workshop and Mini-Symposium**
Opening Banquet (Great Kansas Beef)
 After dinner Speech
 "Dinosaurs, Microbes, and Entrepreneurs:
 Research Universities in Y2K"
 Dr. R. W. Trewyn, Dean of Graduate School
 and Vice Provost for Research
 Kansas State University
 Aggieville—On your own!

July 8
Saturday

Symposium III.
Practical Application of Rapid Methods
 Morning Sessions in Holidome.
 Afternoon Workshop in Call Hall

8:30 a.m. "Application of Rapid Methods in the Food Industry"
 Pall Hall, *Alumnus Fellow* (1990)
 Director of Quality Assurance, Kraft Foods,
 Glenview, Ill

9:00 a.m. "Practical Application of Rapid Methods in Thailand"
 Dr. Pravate Tuitemwong,
Alumnus Fellow (1990)
 Asso. Prof., Food Sci Tech., KMUT
 Thonburi, Thailand
 Dr. Kooranee Tuetemwong,
Alumnus Fellow (1990)
 Assist. Prof., Dept. Microbiol., Kasetsart
 Univ., Bangkok, Thailand

9:30 a.m. "Rapid Methods for *Campylobacter* and Related Microbes: 10 year Experience"
 Hugo Coignau, *Alumnus Fellow* (1987)
 Medical Technician, U.M.C. Sint Pieter,
 Brussel, Belgium

10:00 a.m. Coffee Break—Visit Exhibits and Posters

10:30 a.m. "Automation and Rapid Methods in a Regulatory Agency Laboratory"
 Mark D. Pratt, *Alumnus Fellow* (1988)
 Supervisory Microbiologist, USDA
 Midwestern Lab., St. Louis, MO

11:00 a.m. "Use of Rapid Methods for Shelf Life Testing at Cryovac"
 Dr. Debbie L. Hoyt, *Alumnus Fellow* (1997)
 Associate Food Tech, Cryovac North
 America, Duncan, SC

11:30 a.m. "Microbial Food Safety Risk Assessment"
 Dr. Anna M. Lammerding,
Alumnus Fellow (1984)
 Chief, Microbial Food Safety Risk
 Assessment, Health Canada,
 Guelph, Canada

12:00 noon Review of Immunology (Optional)
 with Luncheon
 Dr. Millicent Goldschmidt,
Distinguished Founding Fellow (1981)
 Professor, Dental School,
 Univ. Texas at Houston

1:00 p.m. **End of Mini-symposium,**
Exhibits and Posters

1:30 p.m. **Start of the Workshop at Call Hall,**
Kansas State University Campus
 Transportation from Holidome to Call Hall
 will be available



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 10.
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.

International Rapid Methods and Automation in Microbiology Workshop XX Agenda*

Director: Dr. Daniel Y.C. Fung • Assistant Director: Dr. Randy Phebus

Thursday, Friday and Saturday

July 6–8, 2000

Mini-Symposium**

Workshop Commences July 8, 2000

Afternoon Laboratory: Viable Cell Counts—Conventional, Petrifilm, Redigel, ISOGRID, Spiral, Olympus, DIFCO, Charm Sciences, Inc. Ecolite products, Oxyrase.

• Workshop and Mini-Symposium Reception

Sunday

July 9, 2000

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 10, 2000

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, SPS Air Sampler, Bioscience International, Molecular Circuitry (DETEX)

Tuesday

July 11, 2000

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

Afternoon Laboratory: Microbiology International, RABIT, Zylux, MicroBioLogics, New Horizons Diagnostic, ELISA (Organon Teknika), IDEXX, Diffchamb

• Workshop Picnic

Wednesday

July 12, 2000—Molecular Food Microbiology Day

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

Afternoon Laboratory: Bax, RiboPrinting, Perkin Elmer, Probelia experiments at the KSU Veterinary College

• Workshop Farewell Banquet

Thursday

July 13, 2000

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

Afternoon Laboratory: Detection of emerging pathogens, Conventional vs. rapid methods, MUG, Motility, VICAM, Promega, Oxoid, Dynal, Chemunex, EiaFoss, BioTrace

Friday

July 14, 2000

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 celebration and mini-symposium occurs on July 6, 7, and 8.

• A room for Scientific Poster Sessions will be available. Poster Competition and Awards will be given.

Introducing an Opportunity to Share in the Rapid Methods and Automation in Microbiology Resources on the Web

The site features past workshop highlights, current information, microbiology links, and resources.

Browse the pages at

<http://www.dce.ksu.edu/dce/conf/microbiology/>

Social Activities

A celebration, welcome and farewell receptions, one lunch, three 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 \$67 plus tax per night. Please make reservations before **June 21, 2000**, 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, 2000.

Workshop Fees

The registration fee for the 2000 *Rapid Methods and Automation in Microbiology Workshop* is \$1,695 (includes the celebration and 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 three 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 Celebration and Mini-Symposium of July 6, 7, and 8 is \$455. The fee includes all sessions, handouts, coffee breaks, one lunch, celebration, symposium banquet, and a reception.

University Credit

Two hours of graduate credits (optional) are available for an additional \$268.80

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

Wire transfers must include an additional \$20 to cover wire transfer costs. Be sure to attach a copy of the bank remittance to your Registration Form so the funds can be credited to your registration.

Account Name: State Fee Acct. Account No.: 670106232 Commerce Bank 727 Poyntz Ave. Manhattan, KS 66502 785-537-1234 Routing No.: 10-1100540 Sort or Swift Code: CBKCUS44

Registration Information

The workshop registration fee, less a \$50 handling charge, will be cheerfully refunded if notice of cancellation is received on or before **June 21, 2000**. 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

Department of Animal Sciences & Industry
Kansas State University
Manhattan, KS 66506
Tel: (785) 532-5654
Fax: (785) 532-5681
E-Mail: dfung@oz.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/conf/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) 532-5637. 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 Celebration and Mini-Symposium. (July 6, 7, and 8)

Web Site

Program and registration information is available via the World Wide Web at <http://www.dce.ksu.edu/dce/conf/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.*)

Previous Participants

Participants in the 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999 workshops, came from 45 states in the United States, Algeria, Argentina, Australia, Belgium, Brazil, Canada, Chile, Colombia, Denmark, Egypt, El Salvador, Finland, France, Germany, Great Britain, Guatemala, Guyana, Honduras, Hong Kong, Hungary, Iceland, Indonesia, Iran, Iraq, Ireland, Israel, Italy, Jamaica, Japan, Jordan, Korea, Macedonia,

Mexico, The Netherlands, New Zealand, Norway, Pakistan, Phillipines, Portugal, People's Republic of China, Russia, Saudi Arabia, Singapore, Spain, Sweden, Taiwan, Thailand, Turkey, Venezuela, and the West Indies.

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, 2000.**

Fellows

1987: Marilyn Hattier, Kathy Richter; 1988: Margie Lee, Kim Payne, Elliot Ryser; 1989: Hassan Gourama, Adela Aguirre; 1990: Elaine Berry; 1991: Dianne Peters, W. Payton Pruett, Jr., Kishore D. Rane; 1992: Kathleen Glass, Scott M. Russell; 1993: Brian A. Anthony, Mark Berrang, Mary Ann Drake; 1994: Paul Park, Ruth Yong; 1995: Lisa Flores, Jean Schoeni; 1996: Sally Foong, Peter Gabor, Gary Scott; 1997: Fu-Chi Hsu, Sekulovski V. Paule, Eric Wong; 1998: Indauê G. Mello, Eliane Santos, Semir Loncarevic; 1999: William Shaw, Robert Williams, Jintanart Wongchavalit.

Distinguished Fellows

1990: Dr. Stephanie Doores, Dr. Leroy Blankenship; 1991: Dr. Robert Anderson, Dr. Gary Acuff; 1992: Dr. Daniel L. Fletcher, Dr. James A. Lindsay; 1993: Dr. Ann Draughon, Dr. Tibor Deak, Dr. Bernadette Franco; 1994: Dr. Thomas Montville, Dr. Michael Davidson; 1995: Paul Hall, Dr. Victor Lachica; 1996: Dr. Steve Knabel, Dr. John Sofos; 1997: Dr. Eric Line, Dr. Leora Shelef; 1998: Dr. Lee-Ann Jaykus, Dr. Gregory Siragusa; 1999: Dr. Julian Cox, Dr. Doug Marshall, Dr. Steven Ricke.

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, 225 Anderson Hall, Manhattan, KS 66506-0124 (785-532-4392).

15584-1299-11.5M

Registration Form—Rapid Methods and Automation in Microbiology XX

- 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, 2000 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: _____

- _____ \$1,695 Workshop registration fee (includes the celebration and mini-symposium, July 6–8)
- _____ \$455 Celebration and Mini-Symposium only (July 6–8)
- _____ \$268.80 Two Hours Graduate Credit (optional)
- _____ \$20 Bank Wire Transfers Fee
- _____ \$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 **1-785-532-5637** 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/conf/microbiology>

Manhattan, Kansas

