

**The next M&E Course will be held at the
Baxter International, Inc. Corporate Headquarters
located in Deerfield, Illinois (Chicago Area)
April 11, 12, 13, 2012**

Course Objective: The objective of this intensive, three-day, lecture/problem-solving course is to help the student develop an understanding of the basic principles of both the microbiology and engineering aspects of sterilization processes. The content is directed toward heat processes, but the principles are applicable to all sterilization systems.

There are illustrative problems in each topic area of the M&E Course. In addition to the approximately 20 short problems, there are three instructor-led, case-study type sterilization/qualification problems: (1) physical qualification of the process, (2) biological qualification of the process and (3) gathering heat-penetration data, process design, filing, delivery and qualification of moist-heat food processes.

Course Comments: Students' response, over the 30 years that the course has been taught, indicate that working the problems in the classroom was a major contributor to their educational experience.

Who Should Attend: Degreed scientists and technical managers involved in microbial control, in the research, development and manufacture of food, medical devices and pharmaceutical products.

The course fee is \$1,990 (USD) per person, which includes three books and continental breakfast, buffet lunch, mid-morning and afternoon refreshments. The course registration is limited to 35 students. This is a lecture-problem solving course, therefore the limited registration.

To Register for the Course: Download registration form, complete the form, e-mail, fax, or U.S. mail to **Ann Nicholas**. **Registration confirmation will follow upon receipt of completed form.** Please feel free to call Ann at **765.583.2488** or email at **pflug001@umn.edu**. for any questions or for further information. U.S. mail address:

P.O. Box 576 or 9937 E, 800S, Otterbein, IN 47970

Accommodations: A block of rooms are reserved at the Marriott Suites, 2 Parkway North, Deerfield, IL, at a special rate of \$135.00USD/day, single occupancy. The cut-off date for the special rate is **March 19, 2012**. Phone number for the hotel is 847.405.9666. Be sure to tell reservations that you are with Pflug's M&E Course to receive the discount.

Transportation: Chicago International Airport serves the area and transportation to the hotel can be arranged with American Taxi (Rate ≈ \$30); **Phone: 849.566.3131**. Transportation to Baxter from the hotel and back will be provided each day of the course.

If coming by private car, the facility is located just off the I-294 and the Deerfield Road Exit.

You will need a **scientific calculator and straight edge** to work the problems in the course. Please bring a calculator with which you are familiar.

Further information about the course and the hotel:

Email: pflug001@umn.edu

Phone/Fax: 765.583.2488

Facility Location: Baxter International, Inc.
One Baxter Parkway
Deerfield, IL 60015
Phone: 847.948.2000

Sponsors:

Baxter International, Inc.

Dept. of Food Science & Nutrition, Univ. of Minnesota

Environmental Sterilization Laboratory

Faculty:

Kristen D. Evans

Amgen, Thousand Oaks, CA

Executive Director, Global Quality Sciences

John R. Gillis, Ph.D.

Consultant

Margarita Gómez, Ph.D.

Ocean Spray Cranberries, Inc.

Sr. Manager, Corporate Quality

M. Ann Nicholas

Environmental Sterilization, Consultant

Course Coordinator, Consultant and Trainer

Theron E. Odlaug, Ph.D.

Bannockburn, IL

Managing Partner, EIR Healthcare Advisors

Irving J. Pflug, Ph. D.

Professor Emeritus, University of Minnesota

Course Founder & Director

Mark Seybold

Baxter Healthcare, Round Lake, IL

Sr. Manager, Technical Services

Registration Form

Pflug's Microbiology & Engineering Course

Intensive 3-Day Lecture/Problem Course

April 11, 12, 13, 2012

8:00 a.m. to 5:00 p.m.

Baxter International, Inc. Headquarters

One Baxter Parkway

Deerfield, IL 60015

Please Print Legibly

Course Registrant _____

Job Title _____

Company _____

Company Address _____

City, State, Zip _____

Email _____

Phone _____

Fax _____

Fee: \$1,990 per person. This fee includes: 3 text books, breakfast, lunch, mid-morning and afternoon refreshments.

Amount Enclosed: _____

Please make **checks payable to: "Pflug's M & E Course"** or funds (USD) may be directly deposited to Prof. Pflug's personal account. Please call or e-mail for details regarding direct deposit. Checks should be mailed to address below.

We do not take credit cards.

Arrangements for payment should be described when registering, but **payment does not need to accompany the registration form.**

Please mail, fax, or e-mail (pdf) completed Registration Forms to:

M. Ann Nicholas

P.O. Box 576 or 9937 E, 800 S

Otterbein, IN 47970

Email: pflug001@umn.edu

For further information:

Email: pflug001@umn.edu

Phone/Fax: 765.583.2488