

As Requested, here it is!!!

“Beginning Gas Chromatography”

January 11-13, 2005 ...

Presenting MCF's the three day workshop in beginning gas chromatography! Taught by two of our most dedicated instructors, this workshop is offered to provide introductory training in the applications of GC to practical industry and laboratory analytical problems. "Hands On" training with instrumentation from local vendors is included each afternoon!

Program: *Lunch will be provided each day along with morning and afternoon breaks. Parking is available nearby (pay lot).*

Instructors: Professor Gary Reineccius (Dept. of Food Science, University of MN), and John Freeburg (retired from Agilent in Dec 2001, employed by Midwest Scientific)

Date/Time: January 11-13, 2005; 8:00 am - 5:00 pm

Location: University of Minnesota,
Food Science & Nutrition Building
1334 Eckles Avenue (Corner of Eckles & Commonwealth)

Day One

Morning:

- Gas Chromatography Overview
- Column Theory - Packed and Capillary
- Injection Port and Oven

Afternoon:

- Laboratory Exercises

Day Two

Morning:

- Qualitative Analysis
- Quantitative Analysis
- Detectors

Afternoon:

- Laboratory Exercises

Day Three

Morning:

- Operation Parameters
- Trouble-Shooting
- Integrator and Data Systems

Afternoon:

- Laboratory Exercises

For class information, contact Jan Jopke, at (952) 949-2518. For course content information e-mail Gary Reineccius at greinecc@umn.edu. To register for the course, complete the form below and send it with a check for \$700, payable to the Minnesota Chromatography Forum. Visa and MC also accepted.

Mail to:

Minnesota Chromatography Forum
c/o CCS Associates
6611 Countryside Drive
Eden Prairie, MN 55346

or FAX to: (952) 934-6741

Note: Registration
Limited to 24 Students
Register Early!

Name, Title: _____

Institution or company: _____

Street Address: _____

City, State, Zip Code: _____

Telephone/FAX: _____

e-mail Address: _____

Credit Card (Visa, MC): _____ exp _____

Vegetarian lunch? Yes _____ No _____

Cancellation Policy: Refunds (minus a 10% administration fee) will be issued for cancellations prior to the registration deadline. Refunds for cancellations made after the deadline will be made only if the spot is filled with another student.

***Note:** If confirmation is not received within 10 business days, contact Jan at (952) 949-2518.

Deadline for Registration: January 5, 2005

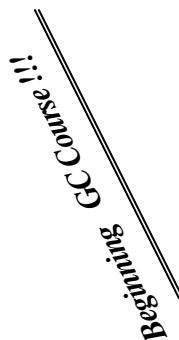
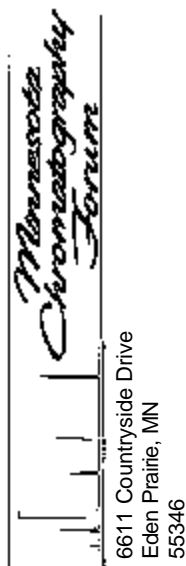
Meet the instructors . . .

Dr. Gary Reineccius is a Professor in the Department of Food Science and Nutrition at the University of Minnesota. He has been actively involved in flavor research for more than 35 years. During this time he has published over 195 research articles. Dr. Reineccius has spent sabbatical leaves with Fritzsche Dodge and Olcott (New York, flavor creation and production), Nestle (Switzerland, reaction flavors) and most recently Robertet S.A. (France, taste modifiers and manufacturing).

Dr. Reineccius teaches courses in Chemical and Instrumental Analysis of Foods, Food Processing and Flavor Chemistry and Technology. He has written a College textbook on food flavors with Henry Heath. This is the first textbook in the flavor area which combines both flavor chemistry and technology. Dr. Risch and he edited, and were major contributors, to two books on flavor encapsulation. He is the editor of the Source Book on Flavors and has recently finished the new edition of his earlier Flavor Chemistry and Technology book.

Dr. Reineccius' achievements have been recognized by several local and international organizations. He is an honorary member of the Society of Flavor Chemists. He has also received the Distinguished Achievement and Service in Agricultural and Food Chemistry Award from the American Chemical Society, Dr Reineccius just became fellow of the American Chemical Society. He has been presented the Stephen S. Chang Award by the Institute of Food Technologists. In addition, the Minnesota Chromatography Forum granted him the Palmer Award for his contribution to chromatography!

John A. Freeburg began training for his career while in the US navy where he served in the Submarine Service. There he received his initial education in electronics and computers. After the navy, John joined the University of Minnesota as a staff electronics technician working primarily with scientific instruments. While there he continued his education by taking classes and began his chromatography career with his first injection on a gas chromatograph (in 1966!). While at the university John developed an instrument for calibrating electrometers in gas chromatographs which was marketed by Alltech.



Beginning Gas Chromatography

January 11-13, 2005

Day One

Morning:

Gas Chromatography Overview
Column Theory - Packed and Capillary
Injection Port and Oven

Afternoon:

Laboratory Exercises

Day Two

Morning:

Qualitative Analysis
Quantitative Analysis
Detectors

Afternoon:

Laboratory Exercises

Day Three

Morning:

Operation Parameters
Trouble-Shooting
Integrator and Data Systems

Afternoon:

Laboratory Exercises

Instructors Cont'd...

John joined Hewlett-Packard (now Agilent!) in December of 1972 as a customer service engineer for the Analytical Products group and was promoted to a Sales Representative in November of 1978. John has continuously encouraged Hewlett-Packard/Agilent to host meetings, contribute gifts, grants and donations to local colleges and universities and to host some of the MCF quarterly meetings. John retired from Agilent Technologies in Dec. of 2001 and worked for Zirchrom Separations Inc. in Anoka Mn. John left Zirchrom Separations in April of 2003 and is currently a sales representative for Midwest Scientific in Blaine Mn.

John has been involved with the MCF since its inception. He has contributed and participated in many ways: Providing MCF photography services, serving as chair of the education committee and contributing personally to the undergraduate award. John has also been a recipient of the MCF's Palmer award (1995). And of course, John's greatest contribution to the MCF is his time to help teach this course almost annually with Gary Reineccius since 1978.