

Wintec has run chromatography courses in conjunction with the NZ Chromatography Group since 1981 and have now trained over 1200 scientists and technicians from throughout NZ.

High Performance Liquid Chromatography (HPLC): 28 June-1 July 2011

This is a basic course with both theoretical and practical aspects. The theory of columns, packings, mobile phases, detectors and quantitation is covered.

The practical work uses ONLY Reversed Phase (RP) HPLC with a variety of mobile phases/modifiers and the emphasis is on trying to give participants an understanding of the processes involved inside the HPLC column. All detection is with UV/Vis variable wavelength detectors.

A variety of HPLC instrumentation may be available, from the simplest manual isocratic systems (which are often the best for learning the basics on) through to fully computer controlled gradient HPLC systems. No 'instrument specific' training is given in detail and there is not time on the course to cover non-reversed phase separations in any depth.

Basic Gas Chromatography - A Practical Course, Date: 28 Nov- 2 Dec 2011

This course has been completely re-designed to accommodate changes in equipment and techniques. The theory content has been revised and expanded and the practical sessions redeveloped. An appealing course for those who have limited experience in gas chromatography, or who have some experience but require a better understanding of the principles involved.

The course material covers:

- basic gas chromatography theory
- different columns, phases
- qualitative identification
- data-capture, quantitation, and integration
- practical applications
- troubleshooting

Emphasis is very much on hands-on operation and setup of GCs and all participants are expected to take part in installing equipment as well as operation of the instruments. A variety of instrumentation will be available, from basic GCs through to fully computer controlled systems. The simpler systems will be used for 'learning the ropes', as it is easier to see what is happening.

The course instruments will have different phase columns installed to illustrate the differences in separating ability. The detectors used are flame ionisation detectors.

Advanced Gas Chromatography: 8-9 Dec 2011

A more advanced course suitable for those who have completed the basic course or who have had experience with chromatographic theory and practice. It is assumed that those attending have some understanding about what is happening inside a GC column and know how to run a GC instrument.

This course covers the various inlet systems in detail with extensive practical work on setting up an instrument to run correctly. Discussion of different detectors and specific analyses eg gases, pyrolysis. Emphasis is on troubleshooting and practical work using different inlet systems.

A variety of instrumentation will be available, but no 'instrument specific' training is given in detail.

These courses are not eligible for Government funding therefore, the fee per course is \$1,426.00 inc. GST.

For further information about enrolment please contact:

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For information about course content contact Chromatography Group organisers:

- ♦ Peter Robinson, Hill Laboratories, Hamilton - Ph: 07 858 2806, Fax: 07 858 2001, Email: peter.robinson@hill-labs.co.nz
- ♦ George Zabkiewicz, SciCon Scientific Consultants Ltd- Ph: 07 345 9056, Email: jamzab@xtra.co.nz

We are dependent on, and gratefully acknowledge the assistance from the companies who supply instrumentation and consumables in NZ. Many of these companies have given instruments, staff, consumables, publicity or other assistance over the years and these courses could not exist without their help. We are unique in NZ in having true 'multifactorial' courses with instruments from several manufacturers on the bench for each course.