

Report of Instrumental Analysis- Who is doing what in lecture and the laboratory in the 1980s
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Two sessions were held, 37 present in the first and 12 in the second.
~~In the First Session there were 36 present plus the convener and in the second session there were 11 present plus the convener.~~ In both sessions each person described the analytical chemistry course (time for lectures, laboratories, if yearly or alternate year) at his or her college. ^{At} Most all have ^{one} or ^{two} 3-hour labs/week and some have Apple computer simulated labs. The group discussed the problem of surveying many instruments or studying a few in depth. The topics selected are often ^{made} according to the equipment available at ^{the particular} many schools. Instrumental analysis has grown so large in the last few years that just mentioning the new evolving methods when the equipment is not available is about all that can be done. The students need a basic background to understand the sophisticated equipment. The difficulty of choosing ^{review} a text was discussed: most text books do not have much interpretation, but ^{more} on the function of the instrument. Also ^{there} is the question of too much electronics or too little? Are we emphasizing chemical instrumentation or just instrumentation? What is the happy medium? A Separate course in electronics? Also discussed was the idea of a MACTLAC Lab Manual--it was felt that the merit would be in the sharing of the experiments in the original form to keep the items current and to have a rapid exchange of ideas. A printed lab manual would be too time consuming and would probably be out of date before it was ready. ^{it was felt that they} The use of films was discussed and ^{does} add meaning if used wisely. ~~As~~ Another method of keeping current is to arrange for an instrument sales demonstration on campus for the students (this keeping current is good for both the student and the faculty). The ^{matter} ~~item~~ of interfacing was discussed and automated analysis--where does this leave the thinking of the student in an analytical problem? Both groups also heard the results of a survey which the convener had done in the spring of 1981 with a 75/120 response.

Submitted by Anne Sherren as a
~~this is a~~ condensation of the two
reports by Pat Fish and Alan Childs