

PRELIMINARY SUGGESTIONS FOR DISCUSSION GROUPS

Please note your preferences on the preregistration sheet. It will be possible for each person to attend three different groups and we will try to avoid unhappy conflicts.

- A. Research grants. What programs are available for support of research in liberal arts colleges? What new kinds of funding are needed? Chaired by Gene Wubbels. Resource persons will be present from Research Corporation, ACS Petroleum Research Fund, and NSF Research Equipment Program (69A)
- B. What are the problems of doing research at your institution? Brief presentations by 2 or 3 people, followed by open discussion.
- C. Financing the replacement of laboratory instrumentation. Over the last 15 years most colleges have acquired a number of important instruments through various grant programs. As these instruments begin to wear out, how do we finance their replacement? (Resource person: Dick Wynn, Vice President for Business Affairs at Earlham)
- D. Laboratory Safety. Resource person: Rudy Gerlach, who teaches chemistry at Muskingham College in Ohio and is an instructor for the J.T. Baker short courses on lab safety.
- E. Biochemistry lab experiments that work. Resource person: Anna Wilson, director of the biochemistry lab program at Purdue University.
- F. Use of small computers in chemistry. John Zimmerman from Wabash College will bring his APPLE system again this year. He will demonstrate software which he has developed and hopes that other people will bring their own APPLE software and demonstrate it on the Wabash system.
- G. Instruction in the use of chemical literature. Earlham is known nationally for its program in library instruction which is integrated into all courses, beginning in the freshman year. Find out what is done at Earlham and share your own experiences. This group may also wish to discuss on-line computer searching--costs and methods of teaching.
- H. Interim courses in chemistry. What courses can be taught in a January term? Are there special opportunities which an intensive one-month term provides?
- I. The DELPHI system of computer-assisted instruction. This system, developed at Earlham, is used to facilitate effective discussion in a class. See it demonstrated and talk with faculty who have used it.
- J. Lecture demonstrations. There appears to be a resurgence of interest in the use of demonstrations. What are the purposes of doing demonstrations? Are there particular techniques or skills needed for the effective use of demonstrations? Bring your own ideas about demonstrations which work well.
- K. Improving communication with high school chemistry teachers and students. Are there ways we can build stronger ties with high school teachers? What do chemistry departments do during visitation days for high school students?
- L. Nuts and bolts sharing of ideas--what are you doing in your course?
 - (L1) General chemistry lab program
 - (L2) Analytical
 - (L3) Organic
 - (L4) Instrumental
- M. Inorganic chemistry in the curriculum. How much? Where does it belong? At the recent ACS meeting there was a packed room for a symposium on this topic and an overwhelming sentiment for requiring at least two inorganic courses beyond the first year. How do we cope with this in a liberal arts curriculum?