ChE EDUCATION PROJECTS COMMITTEE

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The charge of the Chemical Engineering Education Project Committee is to initiate, stimulate and receive from others suggestions for important projects of general interest and value to chemical engineering teaching, and to promote such projects or recommend to Council that arrangement be made for others to do so. The Committee is composed of a large number of subcommittees, each composed of one or several individuals, and the work of the Committee on various projects is carried out through these subcommittees.

A major new activity during 1971 has been the formation of a **Subcommittee on Industrial Participation in Education.** This effort was started with a pilot group charged with identifying meaningful activities in this area. We have kept contact with the work of the Professional Development Committee and have agreed with them that PDC concern will be with the involvement of educators in industry, while our concern is with the involvement of industrial personnel and facilities in education. Two task forces have formulated specific plans for projects; these will be discussed and launched at the annual meeting. One group (King, Kabel and Olson) has developed a plan for publication of a series of short write-ups of current examples of industrial participation in education. **Chemical Engineering Progress** will be sought as the vehicle, with the aim being to catalyze new arrangements inspired by the existing examples. The second group (Danner, Lynn and Watkins) is considering systematic promotion of Visiting Professors and/or advisory committees from industry.

During the year the question was raised to the Committee of AIChE co-sponsorship of the journal, **Chemical Engineering Education**, which is published by the Division of ASEE. A mail poll indicated unanimous support both of this proposal and of another proposal that this Committee volunteer to serve as a liaision body. Several members indicated a desire to work on the project. The recommendation of the Committee was forwarded to EACB, who in turn have forwarded a generally positive response on co-sponsorship to Council.

David Himmelblau is Chairman and Donald Paul is Vice-Chairman of the **Subcommittee on Chemical Engineering Faculties.** This subcommittee published the 20th edition of the directory, Chemical Engeering Faculties, as of September 30, 1971, and plans publication of the 21st edition in October, 1972. 750 copies of the most recent edition were printed, and are being distributed to contributing departments and sold through national AIChE Headquarters. This publication continues to be very well received.

The **Computer Program Exchange Subcommittee** is chaired by Oran Culberson, and is a new, joint activity with the Machine Computations Committee. Brief descriptions of computer programs, which their writers are willing to supply free to anyone interested, are published in **Chemical Engineering Progress** in a classified ad format known as the "Computer Program Swap Shop." The June issue listed three programs, and the August issue, eleven. Over 100 responses have been received on each of several of the programs. CEP has not yet found it possible to allocate a certain amount of space each month for continued listing of the programs on a push-down basis. Such a policy is desirable; otherwise this project will probably not be self-sustaining.

Henry Tucker and Peter Silveston are Co-Chairman of the **Subcommittee on Cooperative Education.** The principle activity during the past year has been to schedule and organize an all-day symposium at the February, 1972, Dallas AIChE meeting, chaired by Henry Tucker and entitled "The AIChE and Cooperative Education." Fourteen papers are scheduled, five of which involve speakers from industry.

The Design Subcommittee, Howard Turner and Scott Lynn, Co-chairmen, organized an all-day symposium on undergraduate and graduate design education at the 1970 Chicago AIChE Meeting. Although overall attendance was good, industrial attendance was small, despite there being several speakers from industry. Another activity of prime interest to this group is the Workshop on Design Education, which includes King and Lynn among the leaders and will be

part of the ASEE Summer School for Faculty, to be held in Boulder, Colorado, in August, 1972. Because of the overlap in concern between this subcommitte and the newly-formed one on Industrial Participation in Education, the Design Subcommittee has been merged into that group.

The **Subcommittee on One-Day Schools** organized a program devoted to pulp and paper technology and hosted by Scott Paper Company in Philadephia in March, 1971. 51 faculty from 17 colleges and universities in the surrounding area attended. Plans for 1972 are in the early stages, with the host company being the FMC Corporation at their Princeton, N.J., Development Center. Subcommittee workers during 1971 included Curtis Clump, Chairman; Q. C. Weaver of Scott Paper, and Robert White.

The Graduate Language Requirement Subcommittee, Robert Kabel, Chairman, has prepared a paper entitled "Foreign Language Requirements for the PhD in Chemical Engineering." authored by Kabel and Thomas F. Evans. This paper is being circulated for Committee approval and is intended for submission to **Chemical Engineering Education**. The paper is based upon surveys made in 1967 and 1971, and it reports a quite dramatic reduction in the requirements.

Robert Hubbard, Chairman of the **Films Subcommittee**, has prepared several short films suitable for instructional use. The intention of the subcommittee at present is to establish contact with various faculty who have prepared films that are not readily available commercially and to help make these films known and/or available to other schools.

The **Subcommittee on Laboratory Experiments** worked with Professor B. E. Lauer on Volume III of "Chemical Engineering Laboratory Experiments," which was published during 1971, with committee approval. The members of the Subcommittee have been Henry Tucker, Chairman, Herbert Bates, James Gary and Angelo Perna. Dr. Perna has also organized a Workshop on Laboratory Instruction for the aforementioned ASEE Summer School. Because of the ad-hoc nature of this subcommittee, its chairman has recommended that it now be dissolved.

The Programed Learning Subcommittee has been disbanded, following the recommendation made in the 1970 Annual Report. It is now recommended that the **Graduate Outcomes Subcommittee** be disbanded, for lack of current active interest in this area.

New committee members during the past year are Ronald Danner (Pennsylvania State University), Nicholas Sylvester (University of Notre Dame), A. C. Olson (Chevron Research Company), Michael Gluckman (C.U.N.Y), and H. Gordon Harris (Tulane University). Committee members who withdrew during the year are Bollen, Christensen, Evans, Gomezplata, Keeffe, Schmidt, Thygeson and Von Rosenberg. Oran Culberson continues as a Vice-Chairman of the Committee, and Robert Kabel has assumed the other Vice-Chairmanship. □

CHE DIVISION ACTIVITIES

CHE SUMMER SCHOOL IN BOULDER-1972

The 1972 Summer School for Chemical Engineering Faculty will be held August 13 through 18, 1972 at the University of Colorado in Boulder. Continuing the tradition of Summer Schools sponsored by the ChE Division of ASEE, the 1972 edition will have a new format designed to permit greater individual participation.

Mornings are devoted to five parallel workshops that explore important frontier areas in ChE education in some depth. Several evenings are set aside for colloquia on controversial topics and most afternoons are free for informal discussions, individual study, or relaxation.

Workshops: Each participant will enroll in one of the five workshops. Although the formats of the workshops differ somewhat, all emphasize individual participation. Enrollment in each workshop is limited to 30. Listed below are the workshop topics.

1. **Chemical Process Design and Engineering**
2. **Integration of Biomedical and Environmental Applications of ChE into Undergraduate Courses**
3. **Application of Molecular Concepts for Predicting Properties Needed for Design**
4. **Numerical Methods for ChE Problems**
5. **New Developments in Undergraduate Laboratories**

Questions should be directed to the Director of the Summer School, L. Bryce Andersen, Newark College of Engineering, Newark, N.J. 07102.