Another factor that has slowed the use of computers in the classroom has been the problem of intergrating the computer use with the material covered in traditional courses. A CACHE subcommittee on curriculum is considering this problem. Its first major project will be to compile and publish a collection of one hundred computer programs representing the best of those that have been used successfully in undergraduate courses. The programs will be selected on the basis of a nationwide competition with entries solicited from students and faculty at every institution in the country.

Other CACHE subcommittees and task forces are looking at specific areas of computer applications, including estimation and retrieval of physical property data, computer-aided design, simulation of dynamic systems, on-line monitoring and control of experiments, and computer-aided process synthesis.

The idea to establish a committee such as CACHE originated with Professors Carnahan, Motard, and Seider who organized the first meeting of interested chemical engineering faculty members in Ann Arbor in April, 1969. The committee is patterned after the COSINE Committee which is also sponsored by the NAE and which serves a similar function in electrical engineering. Professor Carnahan served as acting chairman of the CACHE Committee during the two years prior to receiving NSF funding.

Dr. Newman Hall, Executive Director of the NAE Commission of Education remarked that "The most important challenge facing CACHE will be to find ways to achieve an impact on the chemical engineering programs at a large number of universities in addition to those represented by CACHE Committee members." The committee has already invited several additional people to serve on various subcommittees and task forces and many more will be involved as on-going projects develop. A specific CACHE representative will be designated at each of the 135 U.S. Chemical Engineering departments to coordinate communication between his institution and CACHE. A newsletter will be produced by the committee to report news of CACHE activities and other noteworthy developments related to the use of computers in chemical engineering education. Copies of the newsletter will be made available to all interested individuals.

Although there are no representatives of industry on CACHE, the committee plans to have close liaison with industry and to involve people from industry as members of its task forces. Many of the proprietary computer systems developed by industry for process simulation, design, and control have great untapped potential for use in education. Industry also has a special interest in the work of the CACHE Committee, because the ultimate benefit of accelerating use of computers in engineering education is to produce engineering graduates with the training to better meet the needs of industry.

Anyone who wishes to learn more about the work of the CACHE Committee may contact any member or Dr. Newman Hall, Executive Director, National Academy of Engineering, Commission on Education, 2102 Constitution Avenue N.W., Washington, D. C. 20418. The committee welcomes suggestions and contributions from all who are interested in any aspect of its work.