

difficulties arise in the graduate fluid mechanics and thermodynamics courses which follow. As a result, poorly prepared students must follow a more protracted schedule shown in Table 3. About half of our students have encountered this problem. We are attempting to counteract this difficulty through our recruiting program by counseling junior chemistry majors who anticipate seeking admission to our program to take courses in ordinary differential equations and FORTRAN computer programming before they graduate.

Our experience to date indicates that chemistry majors can successfully complete this program for an MS ChE degree and are well qualified to go on to doctoral degree programs in ChE at reputable schools or go to work in industry. We believe that the combination of the intensive special unit operations course coupled with the full undergraduate senior year of ChE courses as a "supporting fields" graduate minor makes our program somewhat unique among the several programs now in existence. We further believe that graduates of our program can legitimately classify themselves as ChE's because they have had exactly the same graduate coursework and thesis experience that regular ChE's do plus most of the technical undergraduate experiences. They are not just "warmed-over" chemists. In our view this program represents a marriage of the best parts of both worlds. □

#### REFERENCES

1. Cussler, E. L., *Chem. Eng. Education*, 11 (4), 176 (Fall 1977).
2. Bethea, R. M., Heichelheim, H. R., and Gully, A. J., *Chem. Eng. Education*, 11 (4), 181 (Fall 1977).
3. McCabe, W. L., and Smith, J. C., *Unit Operations of Chemical Engineering*, 3rd. Ed., McGraw-Hill, New York, 1976.
4. Cussler, E. L., private communication to authors, 1977.



NEWS

#### FIRST WORLD CONFERENCE ON CONTINUING ENGINEERING EDUCATION

April 25-27, 1979 Mexico City

For complete program and registration information write to: John P. Klus, University of Wisconsin—Extension, Department of Engineering & Applied Science, 432 North Lake Street, Madison, WI 53706

## ChE news

### MARATHON RUNNERS

Lloyd Berg reports that at least two chemical engineering department heads completed 26-mile marathons during 1978. Lloyd Berg of Montana State ran the Governor's Cup race in Helena and Tom Owens of North Dakota University completed the Grand Forks run. Any other department heads? Any other chemical engineering faculty?

### LARSON SELECTED AS CHAIRMAN

The Department of Chemical Engineering at Iowa State University is pleased to announce that Dr. Maurice A. Larson has been selected as the new Department Chairman. Dr. Larson is currently Anson Marston Distinguished Professor in Engineering and has been a member of the Chemical Engineering faculty at Iowa State since 1958.

## ChE books received

### Continued from page 19

*Solar Cooling and Heating: Architectural, Engineering and Legal Aspects*, edited by T. Nejat Veziroglu. Hemisphere Publishing Corp., Washington, D.C. 20005. Three Volumes, \$120

*The Chemical Bond*, by J. N. Murrell, S. F. A. Kettle, and J. M. Tedder. Wiley, New York. 1978. 310 pages, \$27.

*Recent Developments in Boiling and Condensation*, by E. R. F. Winter, H. Merte, Jr., and H. M. Herz. Verlag Chemie International, New York. 1977. 106 pages paperback \$16.

*Thermal Effluent Disposal from Power Generation*, edited by Zoran P. Zoric. Hemisphere Publishing Corp., Washington, D.C. 20005. 1978. 375 pages, \$40.

*Two-Phase Transport and Reactor Safety*, edited by T. N. Veziroglu and S. Kakac. Hemisphere Publishing Corp., Washington, D.C. Four volumes, 1416 pages.

*Fuel Economy of the Gasoline Engine*, edited by D. R. Blackmore and A. Thomas. Halsted div. John Wiley, New York. 1977. 268 pages.

*Two-Phase Flows and Heat Transfer*, edited by S. Kakac and F. Mayinger. Hemisphere Publishing Corp., Washington, D.C. Three volumes, 1469 pages.

*Engineering Fundamentals: Examination Review*, 2nd ed., by D. G. Newnan and B. E. Larock. Wiley—Interscience, New York. 1978. 503 pages, \$21.95

*Combustion and Incineration Processes: Applications in Environmental Engineering*, by W. R. Niessen. Marcel Dekker, New York. 1978. 384 pages, \$35

*Integrodifferential Equations and Delay Models in Population Dynamics*, by J. M. Cushing. Springer-Verlog, New York. 1977. 196 pages \$8.30

*Technical Data on Fuels*, ed by J. W. Rose and J. R. Cooper, 1977. Halstead Division of J. Wiley, New York. 343 pages \$70