

Comments from the Editors

As readers of CACHE News are aware, a thorough re-examination and re-design of the undergraduate curriculum in chemical engineering is currently under way at ChE departments throughout the U.S. (for example, <http://web.mit.edu/cheme/>). In this issue Tom Edgar looks at this issue from the perspective of Process Control.

Several articles and reports -- provided from the CACHE Task Forces -- address progress in computational fluid dynamics, molecular modeling, bio-systems, new CACHE initiatives, and the industrial affiliates program.

Upcoming CACHE Foundation Conferences in Operations or Design (FOCAPO 2003 AND FOCAPD 2004), and Molecular Modeling and Design (FOMMS 2003) conferences are detailed to help in your planning to attend these conferences

Two articles in this issue discuss FEMLAB/Matlab. Bruce Finlayson's article -- "*On the proper use of computational fluid dynamics for senior research projects and beginning graduate fluids mechanics courses*" -- details some of his experiences with this Computational Fluid Dynamics (CFD) Package. Edward Rosen -- "*Learning FEMLAB/MATLAB for chemical engineering – unsteady-state heat conduction in a one-dimensional slab*" -- illustrates how it can be used to solve a simple classical problem. Your co-editors of CACHE News believe that one-, two-, and three-dimensional computational dynamics software will soon become a major component of undergraduate chemical engineering education. More articles on this subject will appear in future CACHE News issues.

The editors welcome articles – specially those concerning Fluent and FEMLAB software -- from our readers.

Edward Rosen
Scott Fogler
Peter Rony