ANNOUNCEMENTS

New CACHE Trustee

Peter T. Cummings

Peter T. Cummings received his B. Math. (with First Class Honors and University Medal) from the University of Newcastle (Australia) in 1976, and his Ph.D. in applied mathematics from the University of Melbourne (Australia) in 1980. After post-doctoral appointments in Physics at the University of Guelph (Ontario, Canada) in 1980 and in Chemistry and Mechanical Engineering at the State University of New York at Stony Brook, 1981-83, he joined the Department of Chemical Engineering at the University of Virginia as an Assistant Professor in 1983, attaining the rank of full professor in 1991. In January, 1994, he assumed his current joint position as Distinguished Professor in the Department of Chemical Engineering at the University of Tennessee and Distinguished Scientist in the Chemical Technology Division at Oak Ridge National Laboratory. Professor Cummings is the recipient of many awards, including a prestigious Commonwealth Scientific and Industrial Research Organization Post-Doctoral Fellowship from the Australian government in 1980, a Camille and Henry Dreyfus Foundation Research Award for Newly Appointed Faculty in the Chemical Sciences in 1983, the inaugural Gold Medal for Professional Excellence awarded by the Convocation (alumni association) of the University of Newcastle in 1988, and co-recipient of the University of Virginia President's and Board of Visitors' Prize for outstanding research in the life sciences in 1996. Since 1991, he has been a member of the editorial boards of two international statistical mechanics journals, Molecular Physics and Fluid Phase Equilibria. He is a member of the American Physical Society, American Institute of Chemical Engineers, American Chemical Society, Sigma Xi, Society of Rheology, and Materials Research Society. He has held several visiting positions: Visiting Fellow in the Research School of Chemistry at the Australian National University in Canberra, Australia, Distinguished Visiting Scholar in the Department of Chemical Engineering at the University of Massachusetts, and Faculty Research Participant in the Oak Ridge Associated Universities Program at Oak Ridge National Laboratory.

Professor Cummings is well-known for his research on molecular approaches to predicting physical properties in systems of industrial interest, such as supercritical aqueous solutions, alkane fluids, and polymer solutions. He is among the leaders in the application of massively parallel supercomputers to predicting thermophysical properties. In recent years, in collaboration with Roseanne Ford of the University of Virginia, he has been applying concepts from the statistical mechanics of transport processes to the description of bacterial migration in porous media. Professor Cummings is the author of over 150 refereed publications, a frequent invited speaker at international conferences and a consultant to several companies. His research is supported by the National Science Foundation (Chemical and Thermal Systems Division and Engineering Education and Centers Division), the Department of Energy Chemical Sciences Division, the Department of Energy Environmental Management Science Program, Lockheed-Martin Energy Research Corporation and the Chemical Technology Division and the Chemistry and Analytical Sciences Division of Oak Ridge National Laboratory. He has been a past recipient of grants from the Dreyfus Foundation, the Petroleum Research Fund, the Virginia Center for Innovative Technology, Aqualon Company (a joint venture of Hercules and Henkel), Exxon Educational Foundation, Linnhoff-March Consulting, and Commonwealth Aluminum Company (COMALCO) of Australia.

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