

## OUTSTANDING FACULTY MENTOR



***DR. I. DANIEL SHIN***(right)  
Fayetteville State University

Dr. I. Daniel Shin earned his B.A. degree in agricultural chemistry from Korea University, Seoul, Korea in 1976. He obtained the M.S. degree in Physical Chemistry at Western Illinois University, Macomb, Illinois in 1988. Subsequently in 1992, he earned the Ph.D. degree in analytical chemistry at North Carolina State University, Raleigh, North Carolina.

Since 1998, Dr. Shin has been an assistant professor of chemistry at Fayetteville State University. His other professional experiences include employment as director of the nuclear magnetic resonance (NMR) facility at North Carolina State University, assistant professor of chemistry at Shaw University, and research scientist at Young-Jin Pharmaceutical Company. He teaches general chemistry, analytical chemistry, instrumental analysis, quantum chemistry, and undergraduate research courses. He also serves on various committees in the department, college, and university, and as a faculty senator for the university. Dr. Shin has published fourteen papers in scientific journals since his graduation from North Carolina State University. In addition, during his tenure at Fayetteville State University, Dr. Shin has written several grant proposals aimed at improving minority undergraduate education and research.

Dr. Shin is a dedicated, enthusiastic, and efficient teacher and mentor. He works closely with the students to build their confidence level through individual contacts and supervision. Dr. Shin has provided hands-on experiences for students and one-to-one instruction. He serves as a mentor for students in the NC-LSAMP/FSU-CAMP Program, and his students have presented their research at annual NC-LSAMP conferences. Dr. Shin has contributed significantly to the development of the students at Fayetteville State University. Most importantly, his strong will to improve the knowledge and the way of thinking of every student he meets is second to none. For this reason, Dr. Shin is highly deserving of the NC-LSAMP Outstanding Faculty Mentor Award.

## OUTSTANDING FACULTY MENTOR



***DR. ALBERT C. ESTERLINE*** (center)  
North Carolina A&T State University

Dr. Albert C. Esterline received the B.A. degree in philosophy from Lawrence University, Wisconsin, the M.Litt. and Ph.D. degrees in philosophy from the University of St. Andrews, Scotland, the M.S. degree in mathematics, and the Ph.D. degree in computer science from the University of Minnesota. In 1993, he joined the faculty in the Department of Computer Science at North Carolina A&T State University.

Dr. Esterline has pursued funded research in multiagent systems, formal methods, human-computer integration, multiagent planning, workflow systems, and knowledge representation. He has taken notions of knowledge, obligation, and action formalized in philosophical research and applied them to societies of computational entities (“agents”) and mixed societies of agents and humans. Rigorous methods derived from mathematical logic and abstract algebra are applied to the specification, design, and analysis of these complex concurrent systems. New techniques are required to manage the complexity of increasingly more powerful computing resources networked together. Dr. Esterline’s research strives to analyze and design such complex systems using concepts that are at the appropriate level of abstraction. In addition, the appropriate concepts facilitate the analysis of the interaction of humans with multiagent systems and with each other via such systems.

Dr. Esterline has supervised the thesis or project work of over 40 master’s students. His undergraduate research group has been active since 1995 and currently includes fourteen research assistants supported by grants. His graduate students regularly present their research at the annual ADMI Minorities Computing Conference, at regional ACM and IEEE conferences, and at other professional conferences. Similarly, his undergraduate students regularly present faculty-mentored research projects at NC-LSAMP Conferences. Since the 1998 NC-LSAMP Conference (then NCAMP), the total number of research presentations from students mentored by Dr. Esterline is approaching 30 including the 2001 participants. At each of these conferences, Dr. Esterline has actively participated as a session moderator and/or judge during the research competition. Moreover, several of his mentees have presented research projects at national LSAMP conferences. Most recently, Dr. Esterline accompanied one of his students to a national

LSAMP Conference in Colorado. Many of Dr. Esterline's Undergraduate students pursue graduate degrees. Finally, every summer for the last few years, Dr. Esterline has been the mentor for up to nine high school students attending NASA-supported research apprenticeship programs.