

2000 CLASS OF ECS FELLOWS

The 2000 Class of Fellows of The Electrochemical Society will be introduced and honored during the ECS Honors and Awards Session, 8:30 AM, Wednesday, October 25, Tucson 36 and 37 of the Phoenix Civic Center. Pictured below, along with their citations, the 2000 Fellows are:



For his fundamental research contributions to the advancement of primary and secondary Li battery technology and electrochemistry through extensive publications in the Society's Journal and proceedings volumes and for significant Society activities through organization of symposia, meeting session chairmanships, and local section activities.

Kuzhikalail M. Abraham was born in Kerala, India. He received his BSc and MSc degrees in chemistry from Kerala University in 1965 and 1967, respectively. He is the recipient of a gold medal from his alma mater for first rank in the BSc examination and a National Merit Scholarship for studies at the MSc level. His PhD degree in chemistry was awarded by Tufts University, Medford, Massachusetts, 1973. After postdoctoral research at Vanderbilt University and the Massachusetts Institute of Technology, Dr. Abraham joined EIC Laboratories, Inc. in 1976 as a senior scientist, and was subsequently promoted to group leader and vice president. He left EIC Laboratories in 1997 to become president of Covalent Associates, Inc. of Woburn, Mass. where he remained until April 2000. Currently, he is the chief technical officer and principal of e-Kem Sciences, a consulting and research firm in Needham, MA.

Dr. Abraham began his research on non-aqueous batteries in 1976 at EIC Labs with the late Dr. Barry Brummer and has continued his research interest in lithium batteries to the present day. Dr. Abraham's battery research has covered four principal areas: studies of the chemical and electrochemical processes in Li primary battery systems; novel rechargeable Na batteries operating in the moderate temperature range of 100-200°C; fundamental studies of Li electrode rechargeability in organic electrolytes; and the development of ambient temperature rechargeable Li batteries, and polymer

electrolytes with high ambient temperature conductivity and Li and Li-ion polymer batteries. His research has resulted in more than 130 publications, of which 44 have been published in the *Journal of the Electrochemical Society* and 18 in the Society's proceedings volumes, 16 U.S. patents and numerous meeting presentations.

Dr. Abraham is a member of The Electrochemical Society, the American Chemical Society, the Materials Research Society, and Sigma Xi. He has been active in The Electrochemical Society, serving as treasurer, vice-chairman, chairman and counselor of the New England Local Section, organizer or co-organizer of several symposia, co-editor of three proceedings volumes and chairman of the Battery Division Research Award Committee. He won the Research Award of the Battery Division of The Electrochemical Society and was recipient in 1995 of the NASA Group Achievement Award for rechargeable lithium battery technology.

He serves as a member of the editorial board of the *Journal of Power Sources*.