

## James Alan Duke

A native of Birmingham, Alabama, James A. Duke holds three Carolina degrees. He graduated Phi Beta Kappa with the Class of 1952 and went on to earn his M.A. in 1955 and his Ph.D. in Botany in 1961. Following military service, Duke did postdoctoral work at Washington University and the Missouri Botanical Garden which took him on extensive botanical exploration in Peru and Panama. A three-year research project in Panama, in which he investigated the potential effects on the local food chain of canal excavation using nuclear devices, was all it took to set Jim Duke firmly on his life-long career path: an intensive study of neotropical ethnobotany. Simply put, Jim Duke scours the world looking for naturally-occurring botanical substances that have medicinal or nutritional value. Duke consistently points out that herbals are not mysterious curatives being denied to the masses by the medical establishment. Instead, he has been one of the leading scientific voices in identifying the phytochemical constituents of plants and their ethnobotanical uses. While doing so, he stresses caution and debunks much of the pseudoscientific claims made by hucksters and charlatans.

Duke's richly prolific scholarship includes 25 books and more than 200 published articles. He has lectured and conducted research in over 40 countries, has been profiled in the *New York Times*, and has taped dozens of television and radio specials. His magnum opus, *Green Pharmacy*, has been published in English, French, German, Spanish, and Danish. Other major publications include the *CRC Handbook of Medicinal Herbs*, (1985), the *Handbook of Biologically Active Phytochemicals and Their Activities* (1992), and the *Amazonian Ethnobotanical Dictionary* (1994). Duke received the Rachel Carson Award in 1998 and the Distinguished Botanist Award of the Society for Economic Botany in 2000.

Jim Duke's major goal today is to reverse the widespread disdain for alternative medicines in the United States. He is achieving that goal through a combination of good science and good nature. After retiring in 1995 from a thirty-year career as an economic botanist with the United States Department of Agriculture, Duke formed a consulting firm, Duke's Herbal Vineyard, Inc. His Green Pharmacy Garden is a huge organic herb garden with 80 plots, each representing a disease and the more promising herbs for that disease. At the moment, Duke is working on five more books. After finishing these, he threatens to do more taking and less writing as the demand for his lectures, guided field trips, and workshops continues to grow. He has given presentations and book signings at the North Carolina Botanical Garden for times in the past five years, including the Herbarium Gala that celebrated the 90<sup>th</sup> anniversary of the UNC Herbarium.

In a 1991 profile of Jim Duke, The New York Times accused him of being one of those rare botanists who actually eats what he preaches! Extolling the virtues of wild May apples, he sings:

Penobscot Indians up in Maine  
Had a very pithy sayin':  
Rub the root on every day

And it will take your warts away!  
I'll venture to prognosticate  
Before my song is sung:  
This herb will help eradicate  
Cancer of the lung.

For outstanding scientific achievement, the University is pleased to confer on James Alan Duke this Distinguished Alumnus Award.

## **Hugh Leon McColl, Jr.**

Hugh McColl, Class of 1957, is a giant of the banking world and a leading exemplar in his generation of a long line of Tar Heels who have profoundly influenced our nation's business environment. Unlike many captains of business and industry, McColl's career has focused on a single banking institution. In 1959, he joined American Commercial Bank in Charlotte as a trainee. By 1974 he was president of the bank, now named NCNB National Bank. McColl launched NCNB on a path of expansion that in twenty-five years brought it from a regional bank to one of the nation's three largest financial services institutions. When McColl was named Banker of the Year by *The American Banker* magazine in 1983, NCNB has \$12 billion in assets, operated in two states and employed 7,600 people. When he retired in April 2001, the bank had been renamed Bank of America. It had \$610 billion in assets, \$352 billion in deposits, \$7.9 billion in net operating income, operated in 21 states and the District of Columbia, and employed 142,000 people.

Throughout his career, Hugh McColl has been personally committed to the improvement of communities in which the bank operates, especially Charlotte where the bank has always maintained its headquarters. All of the communities served by Bank of America have benefited from the fact that Hugh McColl regards community development to be both good citizenship and good business—a commitment that extends to his personal life as well. Second only to his family, McColl's favorite use of spare time is helping build houses for Habitat for Humanity. He jokes that he is the only Habitat worker to have injured himself twice in one swing of the hammer: "I hit myself in the head with the claw drawing it back," he says, "and I hit my finger when I brought it down." His remarks on that occasion were off the record.

Hugh McColl's service to higher education has been extensive and his devotion to Carolina outstanding. He has served on the board of trustees of The University of North Carolina at Charlotte and Queens College, among others. His service to Carolina includes membership on the Board of Trustees, the Board of Visitors, and the Trustees of the Frank Hawkins Kenan Institute of Private Enterprise, and distinguished service as co-chair of the Bicentennial Campaign Steering Committee. McColl's many benefactions include generous support of the Kenan-Flagler Business School, whose new building is named in his honor, establishment of the Charles Ray Coble Fund for faculty support in the Political Science Department, an endowed fellowship for study of the American South, and an endowed chair in the School of Information and Library Science. McColl delivered the Commencement Address in 1989, and is the recipient of an honorary degree from Carolina and the Board of Trustees' Davie Award.

In recognition of outstanding contributions to the world of business and in grateful appreciation for his generous contributions of time, talent, and treasure to his alma mater and his fellow man, The University of North Carolina at Chapel Hill is pleased to present to Hugh Leon McColl, Jr., this Distinguished Alumnus Award.

## **Anthony Eden Rand**

Senator Tony Rand has long been a major player in the North Carolina General Assembly and a devoted supporter of Carolina. Rand received his undergraduate degree from Carolina in 1961 and was inducted into the Order of the Golden Fleece. He then entered our Law School and received his law degree in 1964. He joined a leading law firm in Fayetteville and rapidly rose to the top of his profession. In 1981 he was appointed to fill a vacancy in the North Carolina State Senate, a form of public service well suited to Rand's talents and interests. He has been re-elected to the Senate seven times and is currently Majority Leader and Chair of the Committee on Rules and Operations of the Senate.

In the course of his legal and political career, Rand evolved an interest in the development and dissemination of medical technologies. He gained a deep understanding of the impact of medical advances and their place in improving the health of the population. This working knowledge of medicine and technology has led him to become an ardent advocate for Carolina's School of Medicine, and especially for the Lineberger Comprehensive Cancer Center. His keen understanding of the scientific and economic impact of first class biomedical research has been a remarkably effective force in helping Carolina to retain and expand a bedrock of state support both for our health sciences schools in particular and for the University at large.

Tony Rand's record of service to Carolina is truly impressive. He is currently a member of the Board of Directors and Treasurer of the General Alumni Association, and a member of the Carolina First Campaign Committee. Past service includes a term as Chairman of the General Alumni Association, member of the Board of Directors of the Law Alumni Association, and member of the most recent Search Committee for Dean of the School of Law. His honors and awards include the General Alumni Association's Distinguished Service Medal (1998), the William R. Davie Award (1995), the 2000 Legislative Leadership Award presented by the North Carolina Council of Community Programs, and an honorary degree and the Chancellor's Medallion from Fayetteville State University. Among the more intriguing entries in his biography are membership on the Board of Trustees of All Kinds of Minds and the Wake County Chittlin Club.

For outstanding achievement in the field of public service, the University is pleased to confer on Anthony Eden Rand this Distinguished Alumnus Award.

## **P. Kay Wagoner**

Kay Wagoner, Class of 1970, is a triple graduate of Carolina, having received bachelor's and master's degrees in Nursing and a doctorate in Physiology. During work on her master's degree, Wagoner became interested in the processes by which cells use ion channels for signaling, how these channels function, and how this knowledge could be explored for therapeutic discovery. This interest led her to Professor Gerry Oxford's laboratory, where she completed her Ph.D. research in 1986. Her dissertation focused on the mechanism by which potassium ion channels in nerve and endocrine cells discriminate among various ion species to allow potassium to cross cell membranes in a selective manner. The heart of that work was published in a widely quoted paper in the Journal of General Physiology, which still stands as the most comprehensive biophysical analysis of ion permeation in a native ion channel.

Wagoner next completed a postdoctoral fellowship in the laboratory of Professor Barry Pallotta in Carolina's Department of Pharmacology. Here, she published jointly with Pallotta an important article in the prestigious journal *Science* relating to nicotinic acetylcholine receptor channels. Her experience in a pharmacology department seeded her vision of contributing to the design and discovery of therapeutics through her studies of ion channels. This interest led her to become a Senior Scientist at Glaxo Research Institute, where she worked on research in conjunction with drug discovery programs for cardiovascular diseases, diabetes, and osteoporosis. Many of the concepts and ideas for drug discovery that Wagoner initiated and championed are today being implemented in GlaxoSmithKline laboratories in the United States and Europe.

Wagoner left Glaxo in 1993 to found her own company named ICAGEN. It is the first biotechnology company devoted exclusively to employing ion channels as therapeutic agents. While ICAGEN is still a privately held company, its growth and success have not gone unnoticed. In 2000, ICAGEN was cited by the North Carolina Technology Fast 50 program and Deloitte & Touche as the third fastest-growing technology company in North Carolina. The company is a leader in using ion channel genes and ion channel chemistry to move from gene products to drug products. Using proprietary high throughput screening and gene family libraries, ICAGEN has drug discovery programs for cardiovascular, central nervous system, gastrointestinal, urinary, and immunological disorders along with clinical candidate compounds for epilepsy, pain, and sickle cell disease.

Kay Wagoner grew up in Burlington, North Carolina, and lives in Chapel Hill with her husband Dr. Kenneth May, associate dean of Carolina's Dental School. She has a keen sense of devotion to Carolina and a deep desire to see her alma mater continue to excel in all that it undertakes. She, herself, is a prime example of the best talent that this institution develops.

For outstanding contributions to humanity in the fields of scientific research and business, Carolina is pleased to confer on Kay Wagoner this Distinguished Alumna Award.