

The 2009 Dickson Emeritus Professorship Award honoring emeriti professors at UCLA goes to six men:

- **Leonard Apt**, Professor Emeritus of Ophthalmology, who helped develop the standard method for preparing and sterilizing the eye before surgery and co-founded the UCLA Center to Prevent Childhood Blindness, a preschool vision screening program.
- **Giorgio Buccellati**, Professor Emeritus of Near Eastern Languages and Cultures, who continues work at the Tell Mozan archaeological site in ancient Urkesh and has designed an online archaeological archive where his data can be explored.
- **Frederick Burwick**, Professor Emeritus of English, who has published three books, including an edited text of Samuel Taylor Coleridge's previously unrecognized translation of Goethe's *Faust* while teaching at various levels.
- **Arthur K. Cho**, Professor Emeritus in the Department of Molecular and Medical Pharmacology / Environmental Health Sciences, whose ground-breaking studies of air pollution reveal the underlying mechanisms for the adverse health effects that result from exposure to air pollution.
- **Clarence A. Hall, Jr.**, Professor Emeritus of Earth and Space Sciences, who has written a book synthesizing his extensive knowledge of Southern California's geology and native plants and a paper on the complex history of the state's paleogeography.
- **Charles M. Knobler**, Professor Emeritus of Chemistry and Biochemistry, who has collaborated on path-breaking experimental and theoretical investigations of viral genome packaging and delivery while serving as Associate Dean of Physical Sciences.

More detailed accounts of the winners' achievements since retirement follow.

The Dickson Award was created by an endowment from the late Edward A. Dickson, Regent of the University of California from 1913 to 1946. It honors outstanding research, scholarly work, teaching, and/or educational service to the university and the profession. Departments are allowed to nominate one person each year. The award includes a cash prize.

LEONARD APT

Leonard Apt, Professor Emeritus of Ophthalmology, helped develop the world's standard method of preparing and sterilizing the eye before surgery. He is co-director and co-founder of the UCLA Center to Prevent Childhood Blindness. Dr. Apt continues to serve as the medical adviser to UCLA's large local preschool vision screening program. His "Apt Test," which differentiates fetal from adult hemoglobin, is known worldwide.

Dr. Apt was the first physician to be board-certified in both pediatrics and ophthalmology and is recognized as the founder of academic pediatric ophthalmology, a new subspecialty in medicine. He came to UCLA in 1961 after completing his training at Harvard and the NIH. He created the first full-time division of pediatric ophthalmology at a medical school at UCLA. Dr. Apt became one of the founding members of the Jules Stein Eye Institute.

Dr. Apt teamed with Sherwin J. Isenberg, M.D., in establishing the safety and efficacy of povidone-iodine, a potent antimicrobial agent, for presurgical treatment of the eye and adjacent skin. The two are also examining the use of this inexpensive and readily available drug for treating acute bacterial conjunctivitis and corneal infections. This and Dr. Apt's other work has been disseminated in more than 120 post-retirement publications.

Dr. Apt's philanthropy has benefited a wide range of organizations and activities on and off campus, including the Athletic Department's Coaches Roundtable, Performing Arts Department (Royce Center Circle, Design for Sharing), the Hammer Museum, and the Los Angeles Philharmonic Association.

GIORGIO BUCCELLATI

Giorgio Buccellati, Professor Emeritus of Near Eastern Languages and Cultures, has continued his visionary and innovative work on three fronts since his 1994 retirement: publishing *A Structural of Grammar in Babylonian* and dozens of articles, developing ways to preserve and at the same time develop the Tell Mozan archaeological site in ancient Urkesh, and designing an online archaeological archive and publication platform where his data can be explored.

Tell Mozan consists of layers of mud brick buildings, which would ordinarily be damaged in the process of excavation. Professor Buccellati found a way to drape curtains over metal frames to preserve and eventually display the cultural heritage he is uncovering in northeastern Syria, a method highly praised by the Getty Conservation Institute. His work opens a new chapter in history: the rise of Hurrian territorial states.

Recalled to teach for eight years, Dr. Buccellati also joins in discussions of graduate presentations at the Cotsen Institute. He has integrated digital technology into his research since the 1970s, and his current website allows visitors to explore his database and confirm his analysis. Dr. Buccellati has two PhDs: in Ancient History from Catholic University in Milan and in Oriental Languages from the University of Chicago.

FREDERICK BURWICK

Frederick Burwick, Professor Emeritus of English, has published three books since his 2004 retirement, including an edited text of Samuel Taylor Coleridge's previously unrecognized translation of Goethe's *Faust*. A Romanticist of international renown, Professor Burwick was also Faculty-in-Residence for two of those five years, continued to mentor doctoral students, and was faculty guide for UCLA Alumni Tours.

Because of the success of Professor Burwick's work on *Faust*, he was commissioned to edit the new *Oxford Handbook of Coleridge*. He also wrote *Romantic Drama: Acting and Reacting*, which explores changes in acting style, stage design, theatrical nationalism, and dramatic forms that emerged during the Romantic period. He used computer-based stylistic analyses to corroborate Coleridge's authorship of the *Faust* manuscript and has also provided an electronic edition of John Waldie's journals as a service to the scholarly community.

Besides his on-campus residence at Hedrick Hall, Professor Burwick has taught several classes and conducted three Wordsworth Summer Programs for English majors in the Lake District of England. He has also given presentations at conferences around the world. Professor Burwick received his PhD from the University of Wisconsin, Madison.

ARTHUR K. CHO

Arthur K. Cho, Professor Emeritus in the Department of Molecular and Medical Pharmacology / Environmental Health Sciences, took up ground-breaking studies of air pollution after his 1995 retirement, while continuing his work in pharmacology. In the process, he has become a national leader in the study of the underlying mechanisms for the adverse health effects that result from exposure to air pollution, demonstrating, for example, the mechanistic pathways by which air pollution exacerbates asthma.

In collaboration with the Department of Environmental Health Sciences, Professor Cho has developed four mechanically based assays that make it possible to characterize early steps of toxicity related to air pollution, and he has trained international students in their use. His novel methodologies make it

possible to assess the role of oxidant stress in the mechanism of action of entire classes of air contaminants.

During the same period, Professor Cho organized the first meeting of a faculty group, leading to a new interdisciplinary program in molecular toxicology. He has also continued to teach in his home department and to mentor graduate students and postdoctoral fellows. Dr. Cho received his PhD in Chemistry from UCLA.

CLARENCE A. HALL, JR.

Clarence A. Hall, Jr., Professor Emeritus of Earth and Space Sciences, has written two classic works since his 1993 retirement. A Geological Society of America paper brings together extensive knowledge about the tertiary fauna of California, shedding light on the complex history of California paleogeography. The other is an *Introduction to the Geology of Southern California and Its Native Plants*, which will be consulted by everyone from field geologists like himself to inquisitive hikers. Also an experienced map maker, Professor Hall contributed the geologic maps to both of his books.

In the first two years of his retirement, Professor Hall held administrative appointments as Dean of Physical Sciences and Director of the White Mountain Research Center, where the lodge now bears his name. The White-Inyo range is among his areas of extensive study, which also include the central coast of California and the San Joaquin Valley. He has an encyclopedic knowledge of both geology and native plants.

Professor Hall's introductory geology book is based on a course, Natural History of Southern California, which he still teaches. There is usually a waiting list for the demanding limited-enrollment class. Professor Hall has a PhD from Stanford University.

CHARLES M. KNOBLER

Charles M. Knobler, Professor Emeritus of Chemistry and Biochemistry, retired in 2004 so he could pursue a new avenue of research: experimental and theoretical investigations of viral genome packaging and delivery. At the same time, he took on a demanding position as Associate Dean of Physical Sciences, responsible for reviewing merit raises, appointments, and promotions.

Working with Professor William M. Gelbart, Professor Knobler designed physical experiments on relatively simple viruses with the goal of demonstrating how viral genomes are delivered to host cells. Among their findings was that certain viruses make use of osmotic pressure differences to expel DNA into their hosts. If the osmotic pressure is raised high enough, the DNA is not expelled at all. High-profile papers and presentations have compared bacterial, plant, and animal viruses.

His service as associate dean reflects his sense of dedication to UCLA and to his colleagues. Honored twice for his teaching, Professor Knobler continues a lifetime of mentoring, not only with the undergraduates, doctoral students, and postdoctoral fellows in his virus research group, but also with former students and younger colleagues. Professor Knobler has a PhD from the University of Leiden, Netherlands.