

# OUTLOOK

A PUBLICATION OF THE FOUNDATION OF THE UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY

## NJMS Alumnus Creates Chair

**F**rederick F. Buechel Sr., MD, has distinguished himself in a number of ways since he graduated from the UMDNJ-New Jersey Medical School (NJMS) in 1972 and from the NJMS Orthopaedic Program in 1976. He is an award-winning inventor and surgeon. For the past 20 years he has traveled all over the world giving lectures and surgical demonstrations as a result of his co-invention of the New Jersey LCS Total Knee Replacement System. The New Jersey Inventors Hall of Fame named him and his engineering co-inventor Michael Pappas, PhD, "Inventors of the Year." And, they both received the Pride Award from *New Jersey Monthly* magazine.

*F.F. Buechel, M.D.  
Orthopaedic Surgery*

Outlook: Winner of  
a Bronze Award in the 2003  
CASE District II Accolades  
Award Program

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*Outlook has won a Bronze Award in the CASE District II Accolades Awards program. CASE (Council for Advancement and Support of Education) is the professional organization for advancement professionals who work in communications, alumni relations and development. District II is comprised of Delaware, the District of Columbia, Maryland, New Jersey, New York, Ontario, Pennsylvania, Puerto Rico, the U.S. Virgin Islands and West Virginia.*

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Now, there is one more distinction of which he can be proud. Dr. Buechel has given the largest single gift ever received from a graduate of any UMDNJ school —\$2 million to the New Jersey Medical School Department of Orthopaedics to create the Frederick E. Buechel, MD, Chair for Joint Replacement.

“I am proud to be of help to the NJMS Orthopaedic Program where I received my head-start in the field that I love. My wish is for the Buechel Chair holder to push the frontiers of human joint replacement research into practical, clinical applications,” said Dr. Buechel, currently a clinical professor of orthopaedic surgery at NJMS.

This endowment will also complement the development of a strong clinical program in total joint replacement at University Hospital, with a corresponding clinical and basic science research program.

The holder of the Buechel Chair will work with the New Jersey Institute of Technology (NJIT) to establish the Buechel-Pappas Biomechanical Engineering Liaison between the NJMS Orthopaedic Department and NJIT’s Departments of Biomedical Engineering and Mechanical Engineering to encourage scientific exchange and research collaborations between the two institutions.

This liaison further reinforces the importance Dr. Buechel places on the value of collaboration, for it was this same spirit of collaboration that led to the relationship between Dr. Buechel, an orthopaedic surgical resident at NJMS, and Dr. Pappas, his instructor from NJIT. The two joined forces when Dr. Buechel asked Dr. Pappas for help in constructing a prosthetic ankle. Since then, the two have garnered more than 100 patents for implants and instruments related to replacement ankles, hips, shoulders, knee and finger joints.

In addition to establishing the Buechel Chair, the endowment will also establish the Buechel-Pappas Award for Outstanding Biomedical Engineering Research, presented every other year to the surgeon-engineer team from the two schools that publishes the best collaborative biomechanical research. The endowment will allow for the establishment of a clinical research unit on the Newark campus to promote cutting edge longitudinal and clinical studies.

For more information about the Buechel Chair or about how you can support the New Jersey Medical School, contact Patrick Bower, vice president of development, at (973) 972-8761. ■