

## **ASCRS Binkhorst Lecture**

**David F. Chang, MD**

### ***The Greatest Challenge in Cataract Surgery Needed: a 5-minute, \$15 cure for blindness***

Saturday, April 4, 2009  
ASCRS Opening General Session, 10:00 – 11:30 AM  
Moscone Center, San Francisco, CA



### **The Binkhorst Lecture**

ASCRS established the Binkhorst Lecture and Medal to honor Cornelius D. Binkhorst for his pioneering work with intraocular lenses (IOLs). Each year since 1975, ASCRS has conferred the Binkhorst Medal on an individual whose career has made significant contributions to the science and practice of ophthalmology and established that person among the world's most prominent ophthalmologists. This year's honoree is David F. Chang, MD of Los Altos, CA.

### **Dr. Chang's Lecture**

The increasing global backlog of cataract blindness is undoubtedly our greatest challenge in cataract surgery. In the developing world, the obstacles include the high cost of phaco and foldable IOL technology, a critical shortage of ophthalmologists, and insufficient educational infrastructure to train novice phaco surgeons, let alone those skilled enough to tackle the advanced and mature cataracts typically encountered.

Incredibly, a viable and proven model exists for delivering quality, low cost cataract surgery in a high volume setting, which is financially self sustaining. The surgical solution is low tech – a manual ECCE performed through a temporal, sutureless small incision. Equally important is the ability to manufacture affordable, low cost IOLs, OVD, and supplies, and the streamlining of the surgical process through the use of standardized protocols executed by well trained ancillary staff. Such cost containment and efficiency maximize the productivity of the system's most precious asset – the cataract surgeon.

The lecture will review the key elements of the surgical procedure and the surgical delivery system, as practiced and taught at the Aravind Eye Hospitals and the Tilganga Eye Center. Clinical outcomes will be compared to those of phaco with a foldable IOL.

### **David F. Chang, MD**

Dr. Chang is a Summa Cum Laude graduate of Harvard College and earned his M.D. at Harvard Medical School. He completed his ophthalmology residency at the University of California, San Francisco (UCSF) where he is now a clinical professor. Dr. Chang is serving a 5-year term as chairman of the AAO Annual Meeting Program Committee, having previously chaired the Cataract Program Sub-committee. He organized and was the program co-chair for the first eight AAO "Spotlight on Cataracts" Symposia. He is also on the program committees for the ASCRS Annual Meeting and the OSN Hawaiian Eye Meeting.

In addition to the AAO Achievement and Senior Achievement awards, Dr. Chang is a four-time AAO Secretariat Award recipient (2003, 2006, 2007, and 2009). He was the inaugural recipient of the UCSF Department of Ophthalmology's Distinguished Alumni Award (2005) and in 2006 became only the third ophthalmologist to ever receive the Charlotte Baer Award honoring the outstanding clinical faculty member at the UCSF Medical School. Dr. Chang was the third recipient of the Strampelli Medal from the Italian Ophthalmological Society (2007) and will deliver the 2009 Lim Lecture at the Asia Pacific Association of Cataract & Refractive Surgery (APACRS) Meeting. He has delivered 17 named and keynote lectures, including the Wolfe (Iowa), Gettes (Wills), DeVoe (Columbia), Kayes (Barnes), Helen Keller (Alabama), Schutz (MEETH/NYU), Wallace-Evans (Casey Eye), Proctor (UCSF), and Jules Stein (UCLA).

Dr. Chang is chair of the ASCRS Cataract Clinical Committee. He chairs the AAO Cataract Preferred Practice Pattern Panel, and is immediate past chair of the AAO Practicing Ophthalmologists' Curriculum Panel for Cataract and Anterior Segment, which developed the ABO knowledge base for the MOC examination. Dr. Chang is on the Board of Directors for the Pan American Association of Ophthalmology and is the current president of the Cordes Society (UCSF ophthalmology alumni). He served for 5 years as co-chief medical editor for *Cataract and Refractive Surgery Today*. Dr. Chang is the editor of *Mastering Refractive IOLs – the Art and Science* (Slack 2008) and *Curbside Consultation in Cataract Surgery* (Slack 2007), the series editor for the 7 Slack Curbside Consultation Ophthalmology textbooks, and the principal author of *Phaco Chop* (Slack 2004). His co-authored 2005 study on IFIS and tamsulosin is one of the 5 most cited papers from the Journal of Cataract and Refractive Surgery (*Source: Editorial, JCRS 1/08*).

#### **Binkhorst Medal Lecturers**

David F. Chang MD, 2009  
Edward J. Holland, MD, 2008  
Steve C. Schallhorn, MD, 2007  
Stephen S. Lane, MD, 2006  
Graham D. Barrett, MD, 2005  
Roger F. Steinert, MD, 2004  
Richard L. Lindstrom, MD, 2003  
(Lecture moved to ASCRS in 2002)  
Marguerite B. McDonald, MD, 2001  
Robert H. Osher, MD, 2000  
Walter J. Stark, MD, 1999  
Samuel Masket, MD, 1998  
Kenneth J. Hoffer, MD, 1997  
Kensaku Miyake, MD, 1996  
Theo Seiler, MD, 1995  
Howard V. Gimbel, MD, 1994  
Douglas D. Koch, MD, 1993  
Jack T. Holladay, MD, 1992  
Stephen L. Trokel, MD, 1991  
Stephen A. Obstbaum, MD, 1990  
Charles D. Kelman, MD, 1989

David J. Apple, MD, 1988  
Richard P. Kratz, MD, 1987  
Endre A. Balazs, MD, 1986  
Henry M. Clayman, MD, 1985  
Edward Epstein, MD, 1984  
Robert C. Drews, MD, 1982  
D. Peter Choyce, MD, FRCS, 1981  
Henry Hirschman, MD, 1979  
Miles A. Galin, MD, 1978  
Norman S. Jaffe, MD, 1977  
Jan G.F. Worst, MD, 1976  
Cornelius D. Binkhorst, MD, 1975