



## DR ALI ERDEMIR DEVELOPER OF BORON CLS BOND™

**Dr. Ali Erdemir** is a Staff Scientist in the Tribology Section of Argonne National Laboratory, Argonne, IL. He received his BS in Metallurgy from Istanbul Technical University in 1977 and his M.S. and Ph.D. degrees in Materials Science and Engineering from the Georgia Institute of Technology in 1982 and 1986, respectively. After joining Argonne National Laboratory in 1987 as a principal investigator in the Tribology Section, he has pioneered the development of **several new materials and coatings with exceptional friction and wear properties. Specifically, he has developed self-lubricating boron-based coatings and lubricant additives for a wide range of engine applications; diamond, diamonlike, and nano-structured carbide derived carbon films providing exceptional friction and wear properties; hard nano-structured nitride, carbide and boride coatings for tooling and transportation applications.** In recognition of his pioneering work in the field, Dr. Erdemir has received several prestigious awards and honors, including three R&D-100 Awards (in 1991, 1998, and 2003); two AI Sonntag Awards (in 1992 and 2001) and an Edmond E. Bisson Award (in 1998) from the Society of Tribologists and Lubrication Engineers; the Innovative Research Award of ASME-International in 1999; Discover Magazine Award in 1998; Director's Award of Argonne National Laboratory in 1999; Distinguished Alumni Award of the Georgia Institute of Technology in 2000. He has been elevated to the ranks of a Fellow by ASM-International in 2001 and by the Society of Tribologists and Lubrication Engineers in 2003. Dr. Erdemir has been an active member of several professional societies including ASME, STLE, ASM-International, and AVS. He has published more than 100 refereed journal articles in the field and presented more than 170 papers at international conferences. He holds 6 U.S. patents.