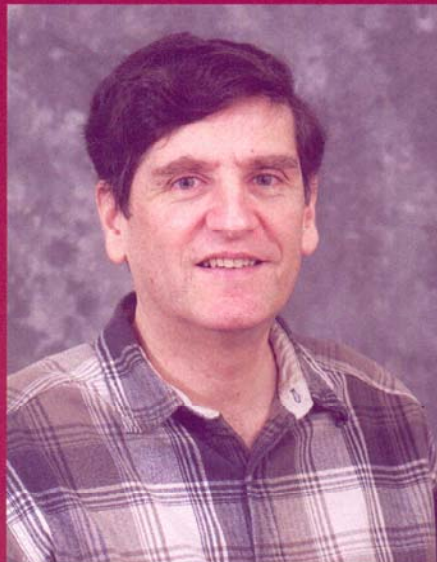


# A New Primal Screen



**Dr. Carl Pomerance**, a noted Number Theorist, is currently a member of Technical Staff at Bell Laboratories, Lucent Technologies and a Research Professor Emeritus at the University of Georgia. He received his B.A. from Brown University in 1966 and his Ph.D. from Harvard University in 1972. He has held visiting positions at the University of Illinois at Urbana-Champaign, the University of Limoges, Bell Communications Research, and the Institute for Advanced Study.

Dr. Pomerance was an invited speaker at the 1994 International Congress of Mathematicians, the Mathematical Association of America Polya Lecturer in 1993—95, and the MAA Hedrick Lecturer in 1999. He has won the Chauvenet Prize (1985), the Haimo Award for Distinguished Teaching in the USA (1997), and the Conant Prize (2001). In addition he is the co-author with Richard Crandall of the new book, *Prime Numbers: A Computational Perspective*.

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## Dr. Carl Pomerance

Prime numbers are as old as Euclid, but we are still finding out amazing new things about them, and equally amazing new uses. Once considered only a plaything of mathematicians, they are the basis of methods to ensure the accuracy and privacy of Internet communications. Prime numbers are even used to make messages universally understandable, so they might be understood by aliens on other worlds.

Last August, the mathematics and computer science communities were stunned by the discovery of a new and speedy screen for finding prime numbers. Even more startling was the fact that two of the three discoverers had just received their bachelors degrees in June.

This talk will describe some of the principal ideas in the new test, as well as its applications.

## *Free and Open to the Public*

7:00 p.m.

Thursday

April 3, 2003

Middleton Auditorium

Strickler Hall 101

Co-sponsored by the Bullitt Endowment and the University of Louisville Department of Mathematics

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