



Neil Sloane is a Fellow at AT&T Shannon Labs in Florham Park, NJ. He is a member of the National Academy of Engineering, an IEEE Fellow, and recipient of the IEEE Hamming Medal and the MAA Chauvenet Prize. He is the author or co-author of numerous books, including "The Theory of Error-Correcting Codes" (with F. J. MacWilliams) and "Sphere Packing, Lattices and Groups" (with J. H. Conway).

**4:30-5:30 P.M.**  
**Friday,**  
**April 4, 2008**

**G23 Graduate**  
**School of Public**  
**Health**

**Free and Open**  
**to the Public**

The University of Pittsburgh  
Department of Mathematics

Presents

The Edmund R. Michalik  
Distinguished Lecture in the  
Mathematical Sciences

**Neil J. A. Sloane**

AT&T Shannon Labs, Florham Park, NJ

*The On-Line Encyclopedia of  
Integer Sequences:  
Solved and Unsolved Problems*

ABSTRACT: The On-Line Encyclopedia of Integer Sequences (OEIS) is a free web site that provides information about over 150,000 number sequences. Available in 35 languages, it is used by lovers of numbers, both amateurs and professionals, from all over the world. Questions such as what comes next after 1, 2, 5, 12, 29, 70, 169, ... arise in all cultures and have a universal appeal. Many users have remarked that the OEIS is one of the best examples of international cooperation on the Web. Contemplation of such wonderful discoveries as the Colombian Bernardo Recamán Santos's sequence 0, 1, 3, 6, 2, 7, 13, 20, ... (entry A5132 in the OEIS) provides a welcome escape from the troubles of our planet. The talk will discuss this sequence as well as several others that have arisen recently in connection with problems from number theory, combinatorics and geometry. The talk will also demonstrate a new feature that has recently been added to the OEIS: the ability to listen to the sequence played on a musical instrument.

**Reception Immediately  
Following the Lecture**

This public lecture is part of an annual series in honor of Professor Edmund R. Michalik, established through a gift from the Michalik family.

For further information, email: [math@pitt.edu](mailto:math@pitt.edu)  
Phone: 412-624-8375  
or visit <http://www.mathematics.pitt.edu>