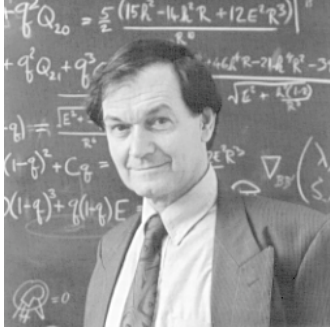


UAF Presents a Science Lecture for a General Audience

Science and the Mind



Lecture presented by Prof. Sir Roger Penrose

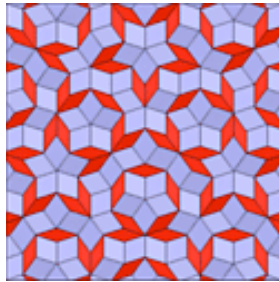
Abstract:

Is the brain a computer? Or does the phenomenon of conscious thought demand something beyond computation? I shall argue that a physical explanation of consciousness will indeed require something more than computation, and that it must lie outside the confines of the physical science of today – though not necessarily of the future.

Tuesday September 9th at 7:30PM in Schaible Auditorium on the UAF Campus

Sponsored by The Society of Physics Students and the UAF Physics Department with support from the UAF Provost's Office, the Office of Vice Provost for Research, the Geophysical Institute and the College of Science, Engineering and Mathematics

Sir Roger Penrose, the Emeritus Rouse Ball Professor of Mathematics at the University of Oxford, was knighted in 1994 for his outstanding contributions to science and mathematics. He has also received a number of prizes and awards including: The 1988 Wolf Prize which he shared with Stephen Hawking for their understanding of the universe, The Royal Society Royal Medal, The Albert Einstein prize, and The Dirac Medal, among others. His 1989 book *The Emperor's New Mind* became a best-seller and won the 1990 (Rhône-Poulenc) Science Book Prize. He has written 3 books since then including the (1994) book *Shadows of the Mind*, *The Nature of Space and Time* (1996) with Stephen Hawking, and *The Large, the Small and the Human Mind* (1997). His research interests vary from geometry, having made contributions to the theory of non-periodic tilings, to relativity theory and the foundation of quantum theory. He has also made remarkable contributions to the science of consciousness. His main research area has been the development of the theory of twisters, which he originated over 30 years ago as an attempt to unite Einstein's general theory of relativity with quantum mechanics. While most of his work pertains to relativity theory and quantum physics, he has been fascinated with a field of geometry known as tessellation, the covering of a surface with tiles of prescribed shapes. Some of these non-periodic tiles have been commercialized as "Penrose tiles" and have actually been used in buildings. Sir Roger currently resides in Oxford with his wife and son.



An example of a Penrose tiling

For more information contact 474-7339 or 474-7858