

Heinrich M. Jaeger

Heinrich Jaeger started his college education at the University of Kiel in Germany where he completed a Vordiplom in physics (B.S.) in 1979. In 1981 he received a Fulbright Scholarship to study at the University of Minnesota in Minneapolis and obtained a M.S. degree in physics in 1982. After a year back in Germany he returned to Minneapolis and completed his Ph.D. in physics in 1987, working under Allen Goldman on ultrathin superconducting films. He then spent 15 months at the University of Chicago as a James Franck Postdoctoral Fellow before accepting a position as a Senior Researcher at the Delft Institute for Microelectronics and Submicrontechnology in The Netherlands. In 1991 he returned to the University of Chicago, joining the faculty. Jaeger now is a Professor in the Department of Physics, the James Franck Institute and the College. He directed the Chicago Materials Research Center from 2001 – 2006, and currently is director of the UC-Argonne Consortium for Nanoscience Research and of the James Franck Institute at the University of Chicago.

Jaeger received a David and Lucille Packard Fellowship for Science and Engineering in 1991, an Alfred P. Sloan Fellowship in 1992, and a Research Corporation Cottrell Scholarship in 1994. In 1995 he was named one of Crain's Chicago Business' "40 under 40", and in 2001 received the University of Minnesota Outstanding Achievement Award. In 2006 Jaeger received the Llewellyn John and Harriet Manchester Quantrell Award for Excellence in Undergraduate Teaching.

Jaeger's research interests focus on the understanding and control of materials, crossing the boundaries between "hard" condensed matter physics (electronic and magnetic properties of metals, semiconductors and superconductors) and "soft" condensed matter physics (fluid dynamics, bio-physics, nonlinear dynamics). Currently, his group is involved in projects ranging from the assembly of next-generation nanostructures to investigations of the complex nonlinear behavior of granular materials (these materials include grain, gravel, or pharmaceutical pills all the way to ultrafine powders and are key to many of industrial processes). Jaeger is author or co-author of over 130 peer-reviewed scientific publications.