

Production and Use of Lime and Gypsum Plaster in the Pre-Pottery Neolithic Near East," *J. Field Archaeology* 15 (1988) p. 219-244.

4. A.H. Simmons, I. Koehler-Rollefson, G.O. Rollefson, R. Mandel, and Z. Kafafi, "Ain Ghazal: A Major Neolithic Settlement in Central Jordan," *Science* 240 (1988) p. 35-39.

5. J. Garstang, "Jericho: City and Necropolis," *Liverpool Annals of Archaeology and Anthropology* 23 (1936) p. 67-100, *ibid.*, 22 (1935) p. 166-167; and T. Noy, Y. Israeli, and M. Tadmor et al.,

*Treasures of the Holy Land: Ancient Art from the Israel Museum* (Metropolitan Museum of Art, New York, 1986).

6. W.H. Gourdin and W.D. Kingery, "The Beginnings of Pyrotechnology: Neolithic and Egyptian Lime Plaster," *J. Field Archaeology* 2 (1975) p. 133-150.

7. W.D. Kingery, H.K. Bowen, and D.R. Uhlmann, *Introduction to Ceramics* (Wiley, New York, 1976) p. 414-420.

8. T. Noy, "A Radial Decoration on Human Face

Images from the PPNB Period," *Israel Museum J.* 7 (1988) p. 109-112.

9. M.J. Mellink, "Archaeology in Anatolia," *Am. J. Archaeology* 95 (1991) p. 123-130.

10. For further study of this period, read H.J. Nissen, *The Early History of the Ancient Near East, 9000-2000 B.C.* (University of Chicago Press, Chicago, 1988) and M. Roaf, *Cultural Atlas of Mesopotamia and the Ancient Near East*, Facts on File, Inc. □

## MRS NEWS

### Koch, Pennycook, and White Will Chair 1992 MRS Fall Meeting November 30-December 4, 1992, Boston, Massachusetts



Carl C. Koch



Steven J. Pennycook



Alice White

**Carl C. Koch** is a professor of materials science and engineering and associate department head at North Carolina State University. His present research interests are in nonequilibrium processing, intermetallic compounds, and the new high transition temperature superconducting oxides. His current research projects include a study of solid-state amorphization by plastic deformation (mechanical alloying), the effect of interstitial alloying on the phase stability and the mechanical behavior of intermetallic compounds, and a study of the factors that influence the superconducting critical current density in the high T<sub>c</sub> oxide superconductors. Koch received a PhD in metallurgy from Case Western Reserve University and was a National Science Foundation Fellow at Birmingham University, England. Afterward, he joined Oak Ridge National Laboratory until appointed professor at North Carolina State in 1983. Koch is a fellow of the American Physical Society, ASM International, and the American Association for the Advancement of Science, and a member of AIME and MRS. He has received a Department of Energy Metallurgy and Ceramics Award, an I-R 100 Award, an NSF Research Award for Special Creativity, and the ALCOA Distin-

guished Research Award. Co-holder of three U.S. patents, Koch has co-edited four books and authored or co-authored over 110 papers.

**Steven J. Pennycook** is a senior research scientist and leader of the Electron Microscopy Group in the Solid State Division of Oak Ridge National Laboratory. His main research interests are currently the study of growth mechanisms and interfacial properties in semiconductors and superconductors through the technique of Z-contrast scanning transmission electron microscopy. The development of this technique earned him a Department of Energy award for outstanding scientific accomplishment in 1989 and, jointly with VG Microscopes, an R&D 100 award in 1990. Pennycook received his BA, MA, and PhD degrees in physics from the University of Cambridge. After completing his thesis research in 1978, he continued at the Cavendish Laboratory until 1982 when he joined the Oak Ridge staff to work on ion implantation in semiconductors. Pennycook is a member of the Materials Research Society, the Electron Microscopy Society of America, and a fellow of the American Physical Society.

**Alice White** is head of the Physics of Materials Research Department at AT&T Bell Laboratories, and has responsibility for activities spanning femtosecond spectroscopy, high T<sub>c</sub> superconductors, and nonlinear optics. Her personal research program focuses on the properties of metallic and semiconducting layers formed in silicon by high dose ion implantation. She has also studied electron localization effects in disordered 1-D and 2-D damage on high T<sub>c</sub> superconductors. White received her BA *summa cum laude* in physics from Middlebury College, and her MA and PhD degrees in physics from Harvard, working with Michael Tinkham. Her graduate studies were supported by a fellowship from Bell Laboratories. During that time, she also consulted in the Submicrometer Technology Group at MIT Lincoln Laboratories. In addition to being an elected Councillor-at-Large of the American Physical Society, White is an active member of the Materials Research Society and co-organized an MRS symposium on Materials Modification and Growth Using Ion Beams in 1987. She was awarded the American Physical Society's Maria Goeppert-Mayer Award in 1991. □