

Morris Cohen Is 1993 Turnbull Lecturer

Morris Cohen, professor of materials science and engineering at the Massachusetts Institute of Technology, is the 1993 recipient of the Materials Research Society's David Turnbull Lectureship "for his contributions to the development of physical metallurgy, especially in the mechanism and kinetics of martensitic transformation, and for his leadership in establishing the broader discipline of materials science and engineering." The Turnbull Lectureship recognizes the career of a scientist who has made outstanding contributions to understanding materials phenomena and properties through research, writing, and lecturing, as exemplified by David Turnbull.

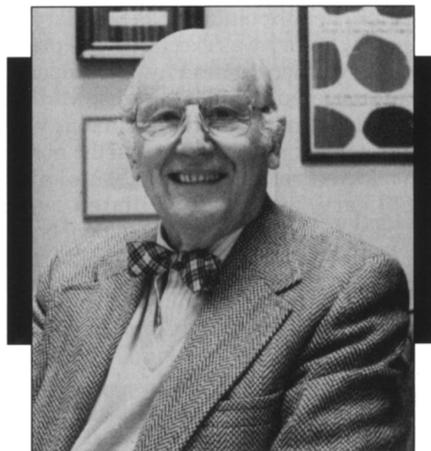
Cohen has been a major force in the development of modern physical metallurgy. He has worked tirelessly to interpret and build materials science, something he has done from a strong research base, notably in the area of solid-state phase transformations. Much of his seminal work involves structure/property relations and broad aspects of microstructural evolution, physical metallurgy, strengthening mechanisms, and mechanical behavior of alloy systems. Cohen's research helped clarify the fundamental understanding of materials in many significant aspects, but his greatest scientific impact has been in his leadership over several decades in the mechanism and kinetics of martensitic transformations.

Cohen's contributions as an educator and communicator are equally notable. His nearly 300 publications, including many celebrated reviews, show his commitment to clarity in writing. He has been broadly sought for his exceptional lecturing ability, yet he is known for expending equal dedication in preparing classroom lectures. His inspiration of more than 100 graduate students has yielded many teaching awards, most recently the ASM Albert Easton White Distinguished Teacher Award. He has received numerous other awards, among them the National Medal of Science (1977), the Kyoto Prize in Advanced Technology (1987), several awards each from ASM and AIME, and awards from metals organizations in India, Japan, and France.

Cohen is a member of the National Academy of Sciences and the National Academy of Engineering, and an honorary member or fellow of many other societies.

During World War II, he was associate director of the Manhattan Project at MIT

and served as an official investigator for the Office of Scientific Research and Development. He has been a consultant to the U.S. Atomic Energy Commission and the Department of Defense, and also a member of several government panels and advisory committees, including the National Materials Advisory Board (1969-1972). He was a member of NASA's Advisory Council (1980-1983) and served on the National Research Council Board on Assessment of NBS Programs (1986-1989).



Through numerous activities, such as his chairmanship (1970-1975) of the study by the Committee on the Survey of Materials Science and Engineering (COSMAT) of the National Academy of Sciences, he has done much to establish the multidisciplinary identity of materials science and engineering worldwide. He also played an important role in developing materials science as an area for graduate studies.

Morris earned his BS degree and PhD degree from the Massachusetts Institute of Technology. He stayed on at MIT, eventually becoming Ford Professor in Materials Science and Engineering in 1962, Institute Professor in 1974, and Institute Professor Emeritus in 1982.

He has given more than three dozen major invited lectures in countries throughout the world, including Korea, Japan, China, Mexico, and the United States.

Morris Cohen will accept his award at the 1993 Fall MRS Meeting during the Awards Session on Wednesday, December 1, at 6 p.m. in Salon E of the Boston Marriott Hotel, Copley Place. His lecture is scheduled for presentation during the 1994 MRS Spring Meeting, April 4-8, in San Francisco.

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