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Dr. Pachter is a member of the scientific and technical cadre of senior executives, appointed in 2001 as a senior scientist at the Materials and Manufacturing Directorate, Air Force Research Laboratory. She joined the Materials Directorate in 1991 from Stanford University. In 1994, she was appointed a physical scientist at the National Institute of Standards and Technology, co-located at Wright Laboratory, and in 1997 became a principal physical scientist in AFRL. Dr. Pachter received her undergraduate degree in chemistry and physics from the Hebrew University, Israel, and her graduate degrees in theoretical chemistry from the Technion, Israel Institute of Technology, and the University of South Africa. Dr. Pachter's research interests center on computational chemistry and materials science, with application to optical and electronic materials that address Air Force needs. Dr. Pachter is author and co-author of more than 170 refereed publications and book chapters, including invited articles. Ruth presented more than 80 invited lectures, served on international journal editorial boards, conference program committees and advisory technical committees, is active in professional societies, and organizer of national and international symposia and workshops.