## MAKING STUFF DAVID NOVA PBS



## SMARTER: APPLICATIONS OF SHAPE-MEMORY MATERIALS



FUNDING FOR NOVA IS PROVIDED BY DAVID H. KOCH, THE HOWARD HUGHES MEDICAL INSTITUTE, THE CORPORATION FOR PUBLIC BROADCASTING, AND PUBLIC TELEVISION VIEWERS. MAJOR FUNDING FOR MAKING STUFF IS PROVIDED BY THE NATIONAL SCIENCE FOUNDATION. PRODUCERS GRATEFULLY ACKNOWLEDGE THE COOPERATION OF THE MATERIALS RESEARCH SOCIETY. ADDITIONAL FUNDING PROVIDED BY THE DEPARTMENT OF ENERGY. MAKING STUFF WAS PRODUCED BY POWDERHOUSE PRODUCTIONS FOR NOVA/WGBH.

DAVID H. KOCH















THIS MAKING STUFF MATERIAL IS BASED UPON WORK SUPPORTED BY THE NATIONAL SCIENCE FOUNDATION UNDER GRANT NO. 0610307. ANY OPINIONS, FINDINGS, AND CONCLUSIONS OR RECOMMENDATIONS EXPRESSED IN THIS MATERIAL ARE THOSE OF THE AUTHOR(S) AND DO NOT NECESSARILY REFLECT THE VIEWS OF THE NATIONAL SCIENCE FOUNDATION. THIS MATERIAL IS BASED UPON WORK SUPPORTED BY THE DEPARTMENT OF ENERGY UNDER AWARD NUMBER DE-SC0004787, DISCLAIMER: THIS REPORT WAS PREPARED AS AN ACCOUNT OF WORK SPONSORED BY AN AGENCY OF THE UNITED STATES GOVERNMENT, NEITHER THE UNITED STATES GOVERNMENT NOR ANY AGENCY THEREOF, NOR ANY OF THEIR EMPLOYEES, MAKES ANY WARRANTY, EXPRESS OR IMPLIED, OR ASSUMES ANY LEGAL LIABILITY OR RESPONSIBILITY FOR THE ACCURACY, COMPLETENESS, OR USEFULNESS OF ANY INFORMATION, APPARATUS, PRODUCT, OR PROCESS DISCLOSED, OR REPRESENTS THAT ITS USE WOULD NOT INFRINGE PRIVATELY OWNED RIGHTS, REFERENCE HERRIN TO ANY SPECIFIC COMMERCIAL PRODUCT, OR SERVICE BY TRADE NAME, TRADEMARK, MANUFACTURER, OR