

THE CHANGING ROLE OF THE NATIONAL LABORATORIES IN MATERIALS RESEARCH

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The role of the National Laboratories is summarized from the era of post World War II to the present time. The U.S. federal government policy for the National Laboratories and its influence on their materials science infrastructure is reviewed with respect to: determining overall research strategies, various initiatives to interact with industry (especially in recent years), building facilities that serve the nation, and developing leading edge research in the materials sciences. Despite reductions in support for research in the U.S. in recent years, and uncertainties regarding the specific policies for Research & Development (R&D) in the U.S., there are strong roles for materials research at the National Laboratories. These roles will be centered on the abilities of the National Laboratories to field multidisciplinary teams, the use of unique cutting edge facilities, a focus on areas of strength within each of the labs, increased teaming and partnerships, and the selection of motivated research areas. It is hoped that such teaming opportunities will include new alliances with China, in a manner similar, perhaps, to those recently achieved between the U.S. and other countries.

KEY WORDS U.S. Materials Science, U.S. National Laboratories and Facilities, International Partnerships

The work at National Laboratories should generally be differentiated by scale from that which can be performed at universities, and by national importance and technical risk from that which would be performed by a profit motivated industry. It is proposed that there are at least five characteristics to a successful approach for the future of the National Laboratories, and therefore, to the future of the materials science research carried out within them. First, they must take advantage of their innate ability to perform multidisciplinary work; this ability is well recognized and distinguishes them from most other research institutes. Second, they need to utilize fully their world class major facilities which are extensive as will be described. Third, they must build upon their own individual strengths, i.e., their own world class research areas or core competencies and personnel. Fourth, they must team effectively with other labs, universities, industry, and international partners where appropriate. Fifth, and very importantly, their research areas must have a significant component of "motivated" versus "inspirational" research without becoming caught in the trap of performing only "applied" or "needs driven" research.

"Motivated" research is defined herein as work whose origin lies in a broad area of perceived scientific or technological requirement, and is in response to those

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