

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

The Changing Role Of Government Research Laboratories

Lisa Börjesson, Isto Huvila



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The Changing Role of Government Research Laboratories Organisation for Economic Co-operation and Development, 1989 **CHANGING ROLE OF GOVERNMENT RESEARCH LABORATORIES.** Organisation for Economic Co-operation and Development, 1989 Government Laboratories Deborah Cox, Philip Gummatt, Katharine Barker, 2001
Based on a 1999 NATO Advanced Research Workshop titled Reform of Government Scientific Laboratories held at the U of Manchester with which the editors are affiliated these 14 selected papers analyze the global trend toward new public management of university labs Selections feature case studies illuminating the themes of government research amidst political and economic crisis in Central and Eastern Europe lab reform in the market economies of Western Europe and Canada and responses in the US and elsewhere to such challenges as funding brain drains to the private sector and changing relationships among actors in an increasingly commercialized innovation system Lacks a subject index c Book News Inc

The Changing Role of Geological Surveys P.R. Hill, D. Lebel, M. Hitzman, M. Smelror, H. Thorleifson, 2020-12-07 Senior managers and Heads of Geological Survey Organizations GSOs from around the world have contributed a collection of papers to provide a benchmark on how GSOs are responding to national and international needs in a rapidly changing world GSOs continue to provide key scientific information about Earth systems natural hazards and climate change As countries adopt sustainable development principles and the public increasingly turns to social media to find information about resource and environmental issues the generation and communication of Earth science knowledge become increasingly important This volume provides a snapshot of how GSOs are adapting their activities to this changing world The different national perspectives presented converge around several common themes related to resources environment and big data Climate change and the UN s Sustainable Development Goals provide an increased incentive for GSOs of the world to work in harmony to generate knowledge of Earth systems and to provide solutions for sustainable management of the planet

Public Research Institutions Mapping Sector Trends OECD, 2011-09-02 This publication provides new information on public research institutions PRIs and government strategies showing how they have evolved **Technology Policy and Practice in Africa** International Development Research Centre (Canada), 1995 Technology Policy and Practice in Africa

Research Outside The Academy Lisa Börjesson, Isto Huvila, 2018-09-04 This book analyses the practical information related dimensions of professional knowledge making and communication in extra academic organisations It treats the sites where research takes place and where knowledge is created outside academia in the light among other things of new digital resources It provides valuable insight into the practices through which extra academic research data and results are produced and made available and the settings in which this takes place With case studies of knowledge making in government organizations and state research institutes as well as in cultural and heritage institutions this book broadens the perspective on knowledge sharing communication and publication and how knowing changes as a result of the professional

knowledge making practices in the digital age Research outside the Academy is ideal for students at all levels looking for an introduction to the topic of research and knowledge making in society Moreover researchers and professionals in the fields of library and information science and science and technology studies will find the book to be adding to previous understandings of scholarly documentation and communication

Advanced studies on structural concrete contributions to the 1993 Lisbon workshop in tribute to J Ferry Borges FIB - International Federation for Structural Concrete, 1994-10-01 Technology and the Wealth of Nations, 1992-10

Most discussions of U S economic competitiveness focus on the creation of new technologies but the abundant evidence presented in this timely book indicates that the key factor underpinning U S competitiveness is not the development of technology itself but the factors that influence the commercialization of technology The importance of effective management and performance in the commercialization of new technologies reflects today s changing environment The post war decades of undisputed U S scientific and technological hegemony have been replaced by a period in which U S firms are challenged by foreign competitors in some fields and struggling to regain their former positions in others Although the U S scientific research establishment arguably has lost little if any of its post war preeminence the same cannot be said with respect to the performance of U S firms as developers adapters and managers of new technologies largely because government policies have not been conducive to successful commercialization of technology As we enter the last decade of the twentieth century economic policy and performance are being linked more and more closely to technology related issues Technology commercialization is now recognized as critical to this linkage and this book constitutes a state of the art analysis of this vital but often overlooked aspect of technological innovation The sixteen papers in this volume contribute to three important tasks First they draw on new developments in theoretical and empirical analysis to integrate the macro and microeconomic dimensions of technological innovation and commercialization Second they extend and enrich the macroeconomic analysis of growth capital formation and international economic interactions to highlight the influences of macroeconomic variables on technology commercialization Technology and capital investment are shown to be complementary inputs to the growth process which means that favorable investment conditions are prerequisites for higher growth rates Third they also extend and enrich the microeconomic analysis of technological innovation and commercialization in the process providing guidance for managers seeking to improve performance in both of the areas

The Digital Flood James W. Cortada, 2012-09-27 The history of how computers spread to over 20 nations globally in less than six decades exploring economic political social and technological reasons and consequences It is based on extensive research into primary and secondary sources and concludes with a discussion of implications for key players in the globalized economy

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