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SETTING PRIORITIES
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Setting Priorities For Large Research Facility Projects Supported By The National Science Foundation

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Committee on Appropriations.
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Setting Priorities For Large Research Facility Projects Supported By The National Science Foundation:

Setting Priorities for Large Research Facility Projects Supported by the National Science Foundation National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Policy and Global Affairs, Committee on Science, Engineering, and Public Policy, Committee on Setting Priorities for NSF-Sponsored Large Research Facility Projects, 2004-07-15 In 1995 the National Science Foundation NSF created a special account to fund large several tens of millions of dollars research facilities Over the years these facilities have come to represent an increasingly prominent part of the nation's R D portfolio Recently concern has intensified about the way NSF is selecting projects for this account In 2003 six U S Senators including the chair and ranking member of the Senate Subcommittee on VA HUD and Independent Agencies Appropriations expressed these concerns in a letter to the NRC asking it to review the current prioritization process and report to us on how it can be improved This report presents a series of recommendations on how NSF can improve its priority setting process for large research facilities While noting that NSF has improved this process the report states that further strengthening is needed if NSF is to meet future demands for such projects

Setting Priorities For Large Research Facility Projects Supported By the National Science Foundation, 2005 The National Academies Report regarding NSF's process for identifying approving constructing and managing large research facility projects states A number of concerns have been expressed by policy makers and researchers about the process used to rank large research facility projects for funding First the ability of new projects to be considered for approval at the National Science Board NSB level has stalled in the face of a backlog of approved but unfunded projects Second the rationale and criteria used to select projects and set priorities among projects for MREFC funding have not been clearly and publicly articulated Third there is a lack of funding for disciplines to conduct idea generating and project ranking activities and once ideas have some level of approval a lack of funding for conceptual development planning engineering and design information needed when judging whether a project is ready for funding in light of its ranking and for preparing a project for funding if it is selected Those concerns have eroded confidence among policy makers and the research community that large research facility projects are being ranked on the basis of their potential returns to science technology and society The report includes a number of recommendations by the Study Committee for actions by NSF to address these concerns The National Science Foundation NSF embraces the spirit of the Report's recommendations In this response we address the principles of the primary recommendations leaving the detailed mechanisms to be addressed in consultation with our communities the Office of Management and Budget OMB and Congress

National Science Foundation Budget and Management Challenges United States. Congress. House. Committee on Science. Subcommittee on Research, 2005

Commerce, Justice, Science, and Related Agencies Appropriations for Fiscal Year 2007: Justifications: Office of Science and Technology Policy, National Science Foundation, National Aeronautics and Space Administration United States. Congress. Senate.

Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2006 **Departments of Commerce, Justice, Science, and Related Agencies Appropriations for Fiscal Year ...** United States. Congress. Senate. Committee on Appropriations, 2007 **Science, the Departments of State, Justice, and Commerce, and Related Agencies Appropriations for 2007** United States. Congress. House. Committee on Appropriations. Subcommittee on Science, State, Justice, and Commerce, and Related Agencies, 2006 **Commerce, Justice, Science, and Related Agencies Appropriations for Fiscal Year 2007** United States. Congress. Senate. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2006 **Commerce, Justice, Science, and Related Agencies Appropriations for 2009** United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2008 **Advanced Research Instrumentation and Facilities** Institute of Medicine, National Academy of Engineering, National Academy of Sciences, Committee on Science, Engineering, and Public Policy, Committee on Advanced Research Instrumentation, 2007-01-28 In recent years the instrumentation needs of the nation's research communities have changed and expanded The need for particular instruments has become broader crossing scientific and engineering disciplines The growth of interdisciplinary research that focuses on problems defined outside the boundaries of individual disciplines demands more instrumentation Instruments that were once of interest only to specialists are now required by a wide array of scientists to solve critical research problems The need for entirely new types of instruments such as distributed networks cyber tools and sensor arrays is increasing Researchers are increasingly dependent on advanced instruments that require highly specialized knowledge and training for their proper operation and use The National Academies Committee on Science Engineering and Public Policy Committee on Advanced Research Instrumentation was asked to describe the current programs and policies of the major federal research agencies for advanced research instrumentation the current status of advanced mid sized research instrumentation on university campuses and the challenges faced by each The committee was then asked to evaluate the utility of existing federal programs and to determine the need for and if applicable the potential components of an interagency program for advanced research instrumentation departments of committee on appropriations united states senate , **A Strategy for Assessing Science** National Research Council, Division of Behavioral and Social Sciences and Education, Center for Studies of Behavior and Development, Committee on Assessing Behavioral and Social Science Research on Aging, 2007-03-21 A Strategy for Assessing Science offers strategic advice on the perennial issue of assessing rates of progress in different scientific fields It considers available knowledge about how science makes progress and examines a range of decision making strategies for addressing key science policy concerns These include avoiding undue conservatism that may arise from the influence of established disciplines achieving rational high quality accountable and transparent decision processes and establishing an appropriate balance of influence between scientific communities and agency science managers A Strategy for Assessing Science

identifies principles for setting priorities and specific recommendations for the context of behavioral and social research on aging **Commerce, Justice, Science, and Related Agencies Appropriations for 2010** United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies,2009

Collaboration in the New Life Sciences John N. Parker,Niki Vermeulen,Bart Penders,2016-05-23 In recent years the organisation and practice of collaboration in the life sciences has undergone radical transformations owing to the advent of big science enterprises newly developed data gathering and storage technologies increasing levels of interdisciplinarity and changing societal expectations for science Collaboration in the New Life Sciences examines the causes and consequences of changing patterns of scientific collaboration in the life sciences This book presents an understanding of how and why collaboration in the life sciences is changing and the effects of these changes on scientific knowledge the work lives and experiences of scientists social policy and society Through a series of thematically arranged chapters it considers the social technical and organizational facets of collaboration addressing not only the rise of new forms of collaboration in the life sciences but also examining recent developments in two broad research areas ecology and environment and the molecular life sciences With an international team of experts presenting case studies and analyses drawn from the US UK Asia and Europe Collaboration in the New Life Sciences will appeal not only to scholars and students of science and technology studies but also to those interested in science and social policy and the sociology of work and organisations **National Science Foundation's Major Research Facilities** United States. Congress. House. Committee on Science. Subcommittee on Research,2002 **Departments of Commerce, Justice, Science, and Related Agencies Appropriations for Fiscal Year 2006** United States. Congress. Senate. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies,2006 *National Science Foundation Fiscal Year 2007 Budget Request, Programs, and Science Priorities* United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science and Space,2011 **Commerce, Justice, Science, and Related Agencies Appropriations for 2010, Part 5, March 3, 2009, 111-1 Hearings** ,2009 United States Congressional Serial Set, Serial No. 14878, Senate Reports Nos. 343-373 United States. Congress. Senate, Departments of Veterans Affairs and Housing And urban Development, and Independent Agencies appropriations Bill, 2005 United States. Congress. Senate. Committee on Appropriations,2004

Championing Science Roger D. Aines,Amy L. Aines,2019-01-22 Championing Science shows scientists how to persuasively communicate complex scientific ideas to decision makers in government industry and education This comprehensive guide provides real world strategies to help scientists develop the essential communication influence and relationship building skills needed to motivate nonexperts to understand and support their science Instruction interviews and examples demonstrate how inspiring decision makers to act requires scientists to extract the essence of their work craft clear messages simplify visuals bridge paradigm gaps and tell compelling narratives The authors bring these principles to life

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