

NEW FORCES AT WORK

INDUSTRY VIEWS CRITICAL TECHNOLOGIES

RAND

STEVEN M. POPPER CAROLINE E. WAGNER ERIC V. LARSON

New Forces At Work Industry Views Critical Technologies

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New Forces At Work Industry Views Critical Technologies:

New Forces at Work in Mining D. J. Peterson, Tom LaTourrette, James T. Bartis, 2001 Over the past century technology advances have had major impacts on mining practices and the nature of the mine and quarry sites in the United States The evolution of current technologies as well as the introduction of innovations will continue and perhaps accelerate in the new century Several industry objectives will drive future technology change including lowering production costs enhancing the productivity of workers and equipment opening up new reserves and extending the life of existing ore bodies Continuing to meet regulatory and stakeholder requirements in areas such as health and safety environmental impacts and land use Between March and July 2000 the RAND Science and Technology Policy Institute conducted a series of in depth confidential discussions with key members of the mining community to elicit a wide range of views on technology trends in all sectors of the U S mining and quarrying industry The discussions included 58 organizations engaged in coal metals aggregates and industrial minerals production as well as technology providers and research institutions This report brings to light those technologies viewed by industry leaders as critical to the success of the industry currently and critical technologies likely to be implemented between now and 2020 Strategic Approaches to Science and Technology in Development Michael Frederick Crawford, Sarah Farley, Robert Watson, 2003

New Forces at Work Steven W. Popper, Caroline S. Wagner, Eric Victor Larson, 1998 As part of the effort to produce the fourth National Critical Technologies Report the Office of Science and Technology Policy in the Executive Office of the President asked a research team from RAND s Critical Technologies Institute now named Science and Technology Policy Institute to engage business and industry leaders explicitly in a discussion of the issue of critical technologies by gathering private sector views on what technologies are appropriate to consider under this rubric and why The primary substantive input was elicited through extended detailed interviews conducted individually usually with one firm s senior executive per session on site in most cases The report presents and analyzes interviewees responses to what technologies they consider to be critical to their firm or industry explores the question of what critical technology means reports interviewees assessments of the status of U S efforts and performance in the areas of technology they deemed critical considers the respective roles of industry universities and government in contributing to and sustaining the U S technology base suggests a process whereby the dialogue between government and industry on the public policy issues relating to technology might be made more integral and informative to the activities of both The responses of many of the interviewees emphasized the aspect of technology as process over technology as product In line with this vision the authors propose a critical technologies review process that would enable wider more meaningful and ongoing communication among industry government and universities on technology issues

Science, Technology, and Global Economic Competitiveness United States. Congress. House. Committee on Science, 2006 *Rising Above the Gathering Storm* Institute of Medicine, National Academy of Engineering, National Academy of Sciences, Committee on Science, Engineering,

and Public Policy, Committee on Prospering in the Global Economy of the 21st Century: An Agenda for American Science and Technology, 2007-04-08 In a world where advanced knowledge is widespread and low cost labor is readily available U S advantages in the marketplace and in science and technology have begun to erode A comprehensive and coordinated federal effort is urgently needed to bolster U S competitiveness and pre eminence in these areas This congressionally requested report by a pre eminent committee makes four recommendations along with 20 implementation actions that federal policy makers should take to create high quality jobs and focus new science and technology efforts on meeting the nation s needs especially in the area of clean affordable energy 1 Increase America s talent pool by vastly improving K 12 mathematics and science education 2 Sustain and strengthen the nation s commitment to long term basic research 3 Develop recruit and retain top students scientists and engineers from both the U S and abroad and 4 Ensure that the United States is the premier place in the world for innovation Some actions will involve changing existing laws while others will require financial support that would come from reallocating existing budgets or increasing them Rising Above the Gathering Storm will be of great interest to federal and state government agencies educators and schools public decision makers research sponsors regulatory analysts and scholars

Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 2000: Consumer Product Safety Commission United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies, 1999

High Price of Natural Gas United States. Congress. Senate. Committee on Energy and Natural Resources, 2003

Federal Research and Development in the Fiscal Year 2000 Budget United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space, 2001

Selected Rand Abstracts Rand Corporation, 2003 Includes publications previously listed in the supplements to the Index of selected publications of the Rand Corporation Oct 1962 Feb 1963

The Statistical Handbook on Technology Paula Berinstein, 1999-10-25 Examines technological trends in the U S using quantitative data The areas addressed are Basic Technology Indicators Agriculture Business Manufacturing and Materials Communications Computers Construction and Infrastructure Consumer Products and Entertainment Education and Libraries Energy and Environment Military and Law Enforcement Medicine and Biotechnology Space and Transportation

New Forces at Work in Mining: Industry Views of Critical Technologies, 2001 This report presents an overview of technologies critical to the economic health of the mining and quarrying industries in the United States The findings were derived from confidential discussions with leading representatives of 58 mining firms equipment manufacturers research institutions and other organizations who were selected for their prominent positions in the industry and their ability to think broadly and creatively about current technology trends The study was commissioned by the National Institute for Occupational Safety and Health NIOSH of the Centers for Disease Control and Prevention Additional funding was provided by the U S Department of Energy DOE Office of Industrial Technologies with organizational

support from the White House Office of Science and Technology Policy OSTP **Annual Report** Rand Corporation,2003

Science Pathways of Discovery Ivan Amato,2002 A sweeping overview of the most exciting areas in science from the most respected scientific journal in the United States This volume contains twelve essays commissioned by Science magazine to mark the dawn of the new millennium Here the world s leading scientists present historical overviews of the most exciting areas in science today while also speculating on the future for each field Topics range from planetary science and genomics to quantum physics neuroscience and cosmology Along with the articles are detailed chronologies and introductions setting the tone for each chapter The stellar cast of contributors includes Stephen Jay Gould Nobel laureates Eric Kandel and Joshua Lederberg Robert A Weinberg and Sir Martin Rees This authoritative science history offers something for everyone interested in the story of science past present and future **Professional Memoirs, Corps of Engineers, United States**

Army and Engineer Department at Large ,1999 Protecting Emergency Responders: Community views of safety and health risks and personal protection needs Tom LaTourrette,Brian A. Jackson,2003 This report presents a summary of a December 2001 working conference sponsored by the National Institute for Occupational Safety and Health Attending were emergency workers who responded to the bombing of the Murrah Building in Oklahoma City the September 11 attacks on the World Trade Center and the anthrax incidents that occurred during autumn 2001 The report addresses the equipment training and information required to protect emergency responders as they meet the challenge of protecting their communities **Federal Contracts Report** ,1998 Advances in Powder Metallurgy & Particulate Materials ,2001

CIM Bulletin Canadian Institute of Mining, Metallurgy and Petroleum,2004 **Michigan Professional Engineer** ,1999 **International Journal of Powder Metallurgy** ,2002

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