1. Record Nr. UNINA9910778682603321 Scientific communication and national security [[electronic resource]]: **Titolo** a report // prepared by the Panel on Scientific Communication and National Security, Committee on Science, Engineering, and Public Policy, National Academy of Sciences, National Academy of Engineering, Institute of Medicine Washington, D.C., : National Academy Press, 1982 Pubbl/distr/stampa **ISBN** 1-280-12357-5 9786613527431 0-309-59398-0 1 online resource (205 p.) Descrizione fisica Disciplina 353.0085/5 Soggetti Communication in science National security Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Fifth printing, January 1984. Note generali Includes bibliographical references (p. 78-89). Nota di bibliografia ""BOOK-TITLE"": ""COPYRIGHT""; ""SPONSORS""; ""PREFACE""; Nota di contenuto ""CONTENTS""; ""EXECUTIVE SUMMARY""; ""UNWANTED TRANSFER OF U. S. TECHNOLOGY""; ""UNIVERSITIES AND SCIENTIFIC COMMUNICATION""; ""THE CURRENT CONTROL SYSTEM""; ""COSTS AND BENEFITS OF CONTROLS": ""PRINCIPAL FINDINGS AND RECOMMENDATIONS"": ""Control of University Research Activities""; ""Unrestricted Areas of Research""; ""Classification""; ""Gray Areas""; ""The Export of Domestically Available Technical Data Under ITAR and EAR Regulations""; ""The Use of Voluntary Controls""; ""The Militarily Critical Technologies List"" ""Technology Transfer to the Third World"""INTRODUCTION""; ""1 CURRENT KNOWLEDGE ABOUT UNWANTED TECHNOLOGY TRANSFER AND ITS MILITARY SIGNIFICANCE""; """"; ""THE QUALITY OF THE EVIDENCE""; ""POTENTIAL CHANNELS AND TYPES OF TECHNOLOGY TRANSFER"": ""THE OVERALL PROBLEM"": ""THE ROLE OF THE RESEARCH COMMUNITY""; ""THE SOVIET ACQUISITION EFFORT""; ""THE OVERALL

PROBLEM""; ""THE ROLE OF THE RESEARCH COMMUNITY""; ""EVIDENCE OF THE EXTENT OF UNWANTED TRANSFER""; ""THE OVERALL PROBLEM"";

""THE ROLE OF THE RESEARCH COMMUNITY""; ""EVIDENCE OF THE SOVIET ABSORPTION CAPACITY"" ""EVIDENCE OF THE MILITARY SIGNIFICANCE OF TECHNOLOGY LOSSES"""THE OVERALL PROBLEM""; ""THE ROLE OF THE RESEARCH COMMUNITY""; ""PROJECTIONS FOR CHANGE""; ""2 UNIVERSITIES AND SCIENTIFIC COMMUNICATION"": ""UNIVERSITY RESEARCH AND TEACHING""; ""SCIENTIFIC COMMUNICATION""; ""BILATERAL INTERGOVERNMENTAL AGREEMENTS""; ""NATIONAL ACADEMY OF SCIENCES EXCHANGE PROGRAMS"": ""INTERNATIONAL RESEARCH AND EXCHANGE BOARD PROGRAM""; ""3 THE CURRENT CONTROL SYSTEM""; ""CLASSIFICATION OF INFORMATION""; ""EXPORT CONTROLS""; ""EAA AND EAR"": ""ARMS EXPORT CONTROL ACT AND ITAR"" ""LIMITATIONS OF EXPORT CONTROL AUTHORITY""""CONTRACTUAL RESTRICTIONS""; ""a€œVOLUNTARYa€? RESTRICTIONS""; ""CONTROLS ON FOREIGN VISITORS": ""VISA CONTROLS"": ""EXCHANGE PROGRAMS"": ""4 GENERAL CONCLUSIONS: BALANCING THE COSTS AND BENEFITS OF CONTROLS"": ""PREVENTING SOVIET MILITARY ADVANCES BASED ON U. S. RESEARCH""; ""THE RELATION TO CONTROLS""; ""THE PANEL'S ASSESSMENT"": ""Leakage and the Research Community"": ""FOSTERING U.S. MILITARY AND ECONOMIC STRENGTH""; ""THE RELATION TO CONTROLS""; ""THE PANEL'S ASSESSMENT""; ""Openness and Military Strength""; ""Openness and Economic Strength"" ""Security by Accomplishment""""PROTECTING EDUCATIONAL AND CULTURAL VALUES""; ""THE RELATION TO CONTROLS""; ""THE PANEL'S ASSESSMENT": ""THE FEASIBILITY OF CONTROLS"": ""BALANCING COMPETING OBJECTIVES: THE PANEL'S JUDGMENT""; ""PRINCIPLES FOR UNIVERSITY RESEARCH""; ""GUIDELINES FOR CLASSIFIED AND GRAY-AREA RESEARCH""; ""5 IMPROVING THE CURRENT SYSTEM""; ""THE WORKABILITY OF THE CURRENT SYSTEM CAN BE IMPROVED": ""EXPORT CONTROLS AND DOMESTICALLY AVAILABLE INFORMATION""; ""PRIORITIES WITHIN THE EXPORT CONTROL SYSTEM""; ""MILITARILY CRITICAL TECHNOLOGIES LIST"": ""VOLUNTARY CONTROLS""

""STAFFING DEFICIENCIES""