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MEMORANDUM

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# **Physical Science Nsc March 2014 Memo**

**Michael Brown** 

#### **Physical Science Nsc March 2014 Memo:**

Pathways to Exploration National Research Council, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Division on Engineering and Physical Sciences, Space Studies Board, Aeronautics and Space Engineering Board, Committee on Human Spaceflight, 2014-09-30 The United States has publicly funded its human spaceflight program on a continuous basis for more than a half century through three wars and a half dozen recessions from the early Mercury and Gemini suborbital and Earth orbital missions to the lunar landings and thence to the first reusable winged crewed spaceplane that the United States operated for three decades Today the United States is the major partner in a massive orbital facility the International Space Station that is becoming the focal point for the first tentative steps in commercial cargo and crewed orbital space flights And yet the long term future of human spaceflight beyond this project is unclear Pronouncements by multiple presidents of bold new ventures by Americans to the Moon to Mars and to an asteroid in its native orbit have not been matched by the same commitment that accompanied President Kennedy's now fabled 1961 speech namely the substantial increase in NASA funding needed to make it happen Are we still committed to advancing human spaceflight What should a long term goal be and what does the United States need to do to achieve it Pathways to Exploration explores the case for advancing this endeavor drawing on the history of rationales for human spaceflight examining the attitudes of stakeholders and the public and carefully assessing the technical and fiscal realities This report recommends maintaining the long term focus on Mars as the horizon goal for human space exploration With this goal in mind the report considers funding levels necessary to maintain a robust tempo of execution current research and exploration projects and the time resources needed to continue them and international cooperation that could contribute to the achievement of spaceflight to Mars According to Pathways to Exploration a successful U S program would require sustained national commitment and a budget that increases by more than the rate of inflation In reviving a U S human exploration program capable of answering the enduring questions about humanity s destiny beyond our tiny blue planet the nation will need to grapple with the attitudinal and fiscal realities of the nation today while staying true to a small but crucial set of fundamental principles for the conduct of exploration of the endless frontier The recommendations of Pathways to Exploration provide a clear map toward a human spaceflight program that inspires students and citizens by furthering human exploration and discovery while taking into account the long term commitment necessary to achieve this goal Yearbook of International Organizations 2014-2015 (Volume 3) Union Of International Associations, Union of International Associations, 2014-08-20 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and acitvities of international organizations with their events publications and contact details the volumes of the

Yearbook include networks between associations biographies of key people involved and extensive statistical data Volume 3 allows readers to locate organizations by subjects or by fields of activity and specialization and includes an index to Volumes 1 through 3 
Intelligence Mark M. Lowenthal, 2025-08-06 Now in its landmark Tenth Edition Mark M Lowenthal s trusted guide Intelligence is the go to resource for understanding how the intelligence community s history structure procedures and functions affect policy decisions In the new edition the author addresses the implications of new technologies like artificial intelligence the intensified great power competition around the world and updates in cyber intelligence as well as offering significant updates in the chapter on foreign intelligence services 
Computers & Electronics, 1984

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