

THE NATIONAL AEROSPACE PLANE PROGRAM AND THE APL ROLE

The National AeroSpace Plane program aims to develop and demonstrate the requisite aerospace technologies for achieving single-stage-to-orbit flight using airbreathing engines. This goal is to be achieved through the development of two experimental X-30 vehicles and requires extending the state of the art in nearly every major aerospace discipline. Perhaps the biggest challenge is the development of the airbreathing propulsion system of the vehicles. This article is an overview of the National AeroSpace Plane program and summarizes the Laboratory's contributions to the development of the requisite propulsion and propulsion-related technologies.

THE PRINCIPAL CHALLENGE

The ultimate objective of the National AeroSpace Plane (NASP) program is to develop two X-30 aircraft (one of which is shown conceptually in Fig. 1) that are capable of single-stage-to-orbit (SSTO) flight and horizontal takeoff and landing from conventional runways. The aircraft will be hydrogen fueled and will be powered by airbreathing engines to accelerate from takeoff to orbital velocities of more than 17,000 miles per hour, or about Mach 25 (i.e., 25 times the speed of sound). A sophisticated system will power the vehicle up to a flight speed of about Mach 3, at which point the primary ramjet/scramjet engines will take over to power the vehicle up to high hypersonic flight speeds. A rocket will provide the final thrust increment required for orbital insertion and for the reentry burn. Upon completion of the mission,

the X-30 will return to land in a manner similar to the space shuttle; unlike the shuttle, however, the airplane-like qualities of the X-30 will enable the vehicle to be powered on approach to landing and capable of rapid turnaround after landing.

To make the NASP program goals a reality, the concurrent development of revolutionary technologies is required in almost every major aerospace discipline, from new tires to handle the high takeoff velocities, to materials and propulsion systems that have never been demonstrated in flight. Therein lies the real national motivation for NASP; that is, to foster a significant advancement of the state of the art in aerospace technology for high-speed flight. Making this challenge especially formidable is the difficulty, and sometimes the impossibility, of

Figure 1. An artist's rendition of the National AeroSpace Plane X-30 vehicle concept developed by the National Team.



National Aerospace Programs

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Hearing on the Reauthorization of the Space Programs of the National Aeronautics and Space Administration, the Department of Transportation, and the U.S. Department of Commerce United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space, 1995 Major Activities in the Programs of the National Aeronautics and Space Administration United States. National Aeronautics and Space Administration, 1959 **National Science Foundation and National Aeronautics and Space Administration Programs** United States. Congress. House. Committee on the Budget. Task Force on Physical Resources, 1976

Evaluation of the National Aerospace Initiative National Research Council, Division on Engineering and Physical Sciences, Air Force Science and Technology Board, Committee on the National Aerospace Initiative, 2004-06-16 The National Aerospace Initiative NAI was conceived as a joint effort between the Department of Defense DOD and the National Aeronautics and Space Administration NASA to sustain the aerospace leadership of the United States through the acceleration of selected aerospace technologies hypersonic flight access to space and space technologies The Air Force became concerned about the NAI's possible consequences on Air Force programs and budget if NAI program decisions differed from Air Force priorities To examine this issue it asked the NRC for an independent review of the NAI This report presents the results of that assessment It focuses on three questions asked by the Air Force is NAI technically feasible in the time frame laid out is it financially feasible over that period and is it operationally relevant *National Aerospace Plane (NASP) Fiscal Year 1992 RDT&E Budget Request* United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Technology and Competitiveness, 1991 **The National Space Program, Present and Future** United States. Congress. House. Committee on Science and Astronautics. Subcommittee on NASA Oversight, 1970

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States. Congress. House. Committee on Science and Astronautics,1967 *Summary Report, Future Programs Task Group, Report by the National Aeronautics and Space Administration to the President...Serial F.* United States. Congress. House. Science and Astronautics,1965 Future National Space Objectives United States. Congress. House. Committee on Science and Astronautics. Subcommittee on NASA Oversight,1966

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