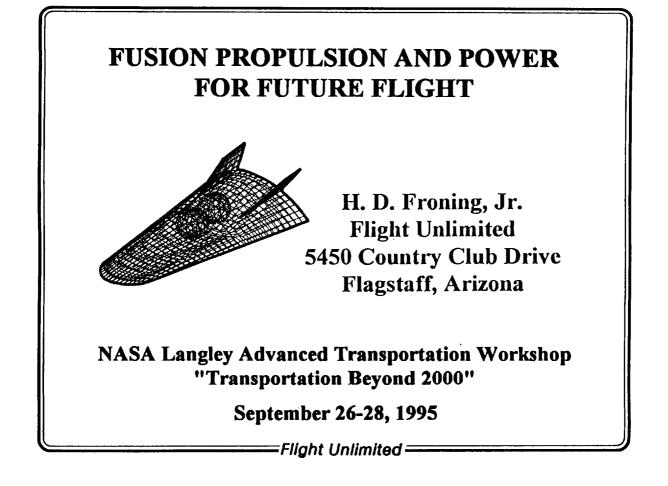
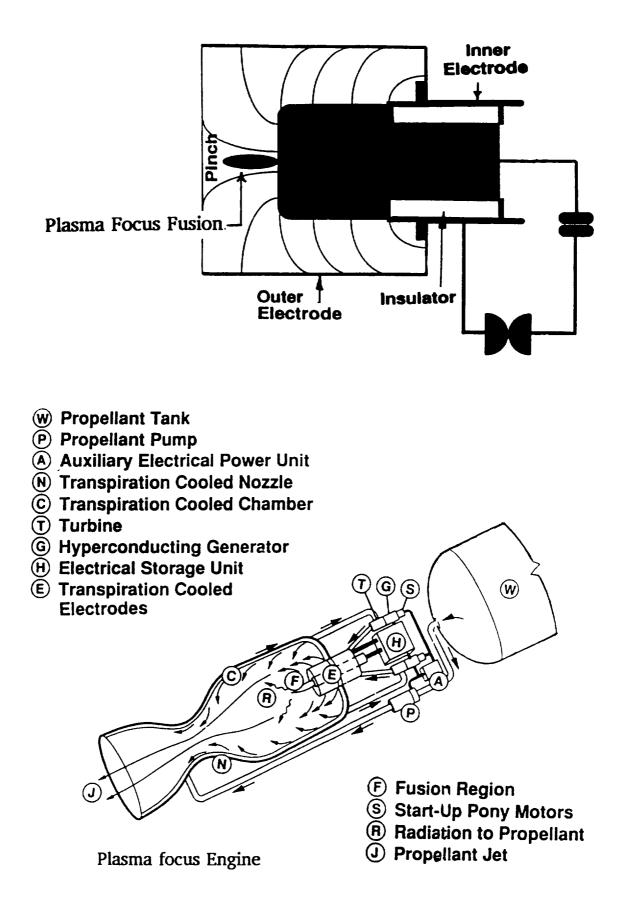
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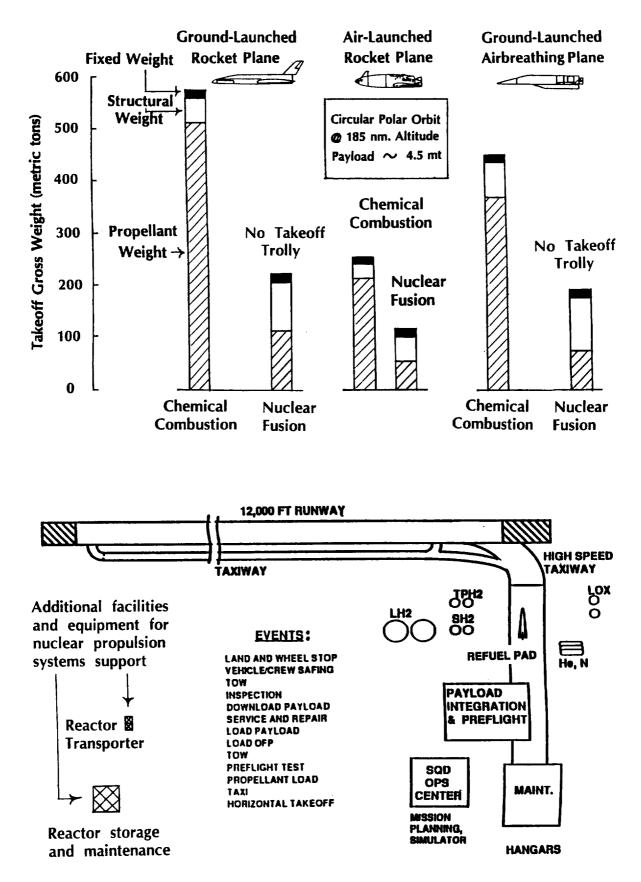


There are innovative magnetic and electric confinement fusion power and propulsion system designs with potential for:

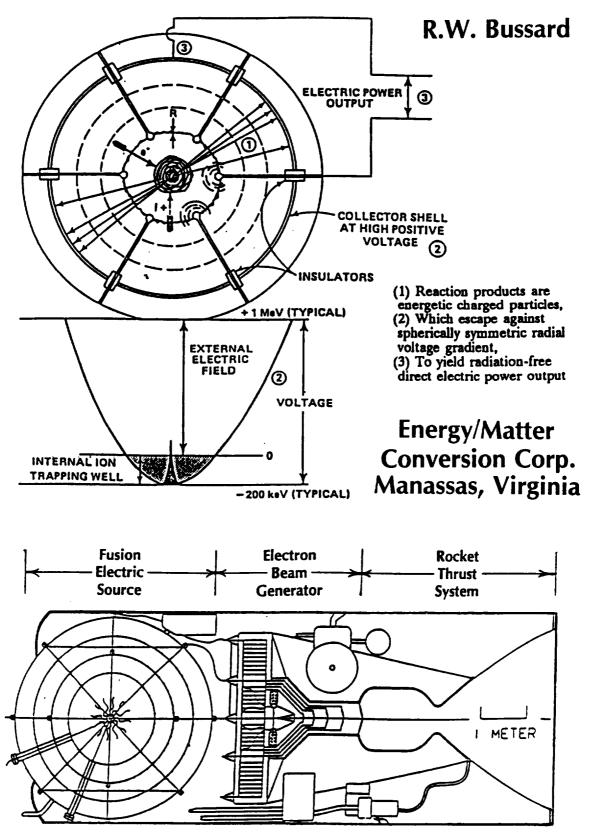
- Vacuum specific impulses of 1500-2000 seconds with rocket engine thrust/mass ratios of 5-10 g's
- Environmentally favorable exhaust emissions if aneutronic fusion propellants can be used
- A 2 to 3-fold reduction in the mass of hypersonic airliners and SSTO aerospace planes
- A 10 to 20 fold reduction in Mars expedition mass and cost (if propellant from planetary atmospheres is used)

And feasibility or in-feasibility of these systems could be confirmed with a modest applied research and exploratory development cost

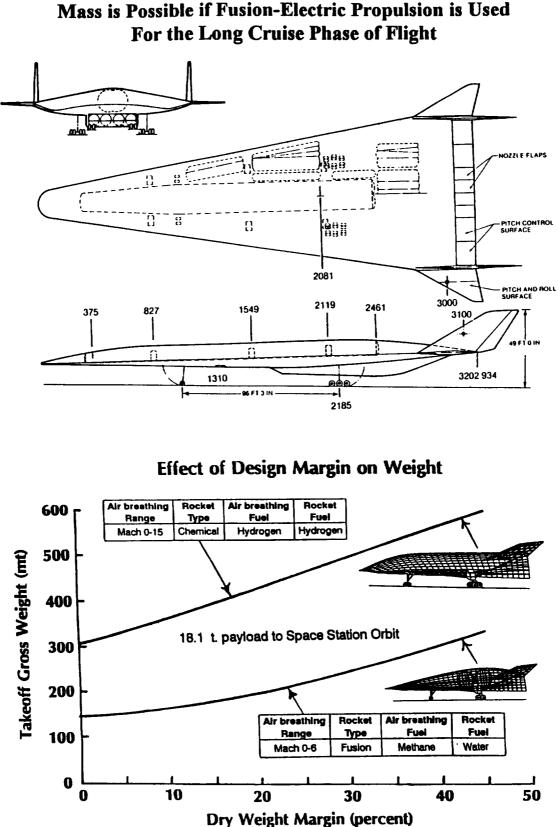




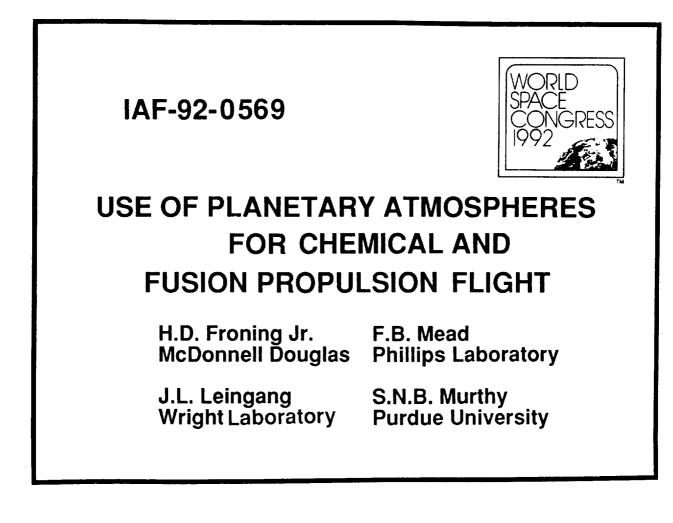
Facility, Operation, and Support



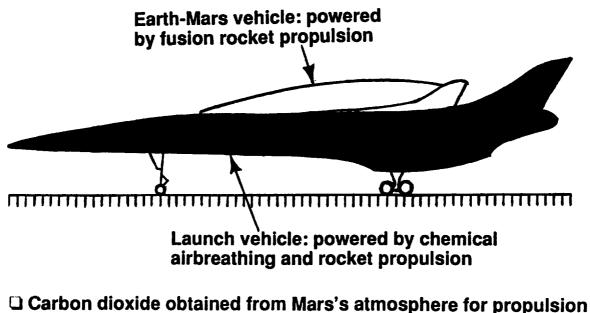
Typical Integration of Subsystems for Fusion-Electric Rocket

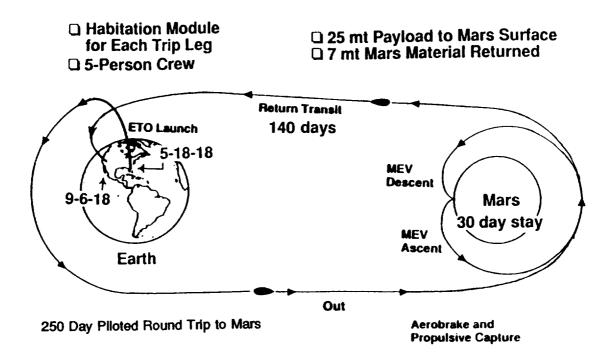


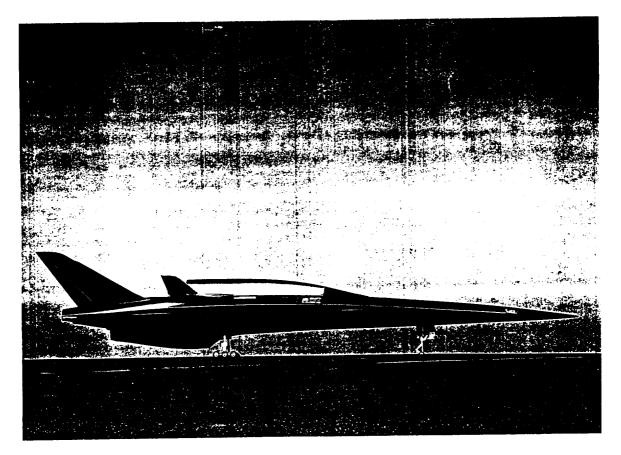
A 2 to 3-Fold Reduction in Hypersonic Airliner Mass is Possible if Fusion-Electric Propulsion is Used



Oxygen and nitrogen obtained from Earth's atmosphere for propulsion from Earth to Mars







A Mars Expedition Takeoff Mass of 2.5 to 5 Million Pounds is Possible – Depending upon the Fusion Propulsion Efficiency Achieved During the Trip