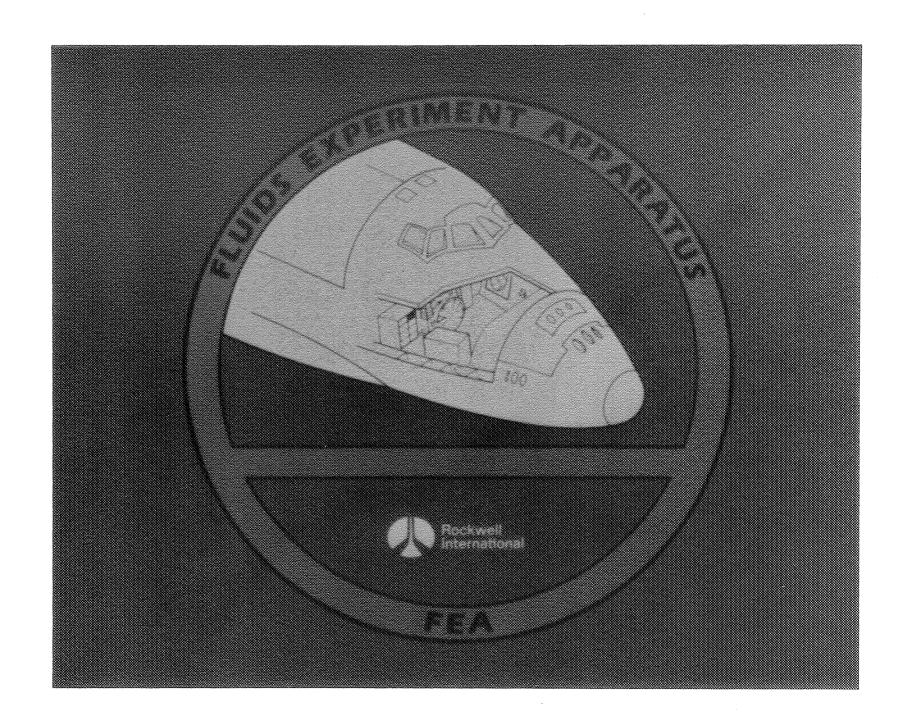
FLUIDS EXPERIMENT APPARATUS (FEA)

by

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ABSTRACT

The FEA is a modular zero gravity chemistry/physics laboratory to support fundamental space processing research. It can be used to conduct basic and applied process or product experiments in general liquid chemistry, crystal growth, fluid mechanics, thermodynamics, and cell culturing. The various FEA subsystems can be readily configured to perform this wide range of investigations. Designed to be operated by a crew member in the orbiter middeck, the FEA can be accommodated on most Space Shuttle missions.

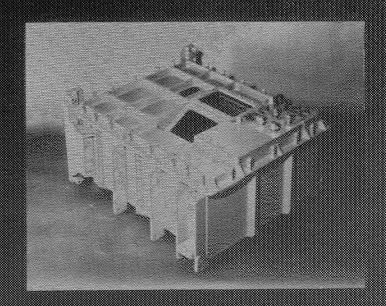


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MODULAR ZERO GRAVITY CHEMISTRY/PHYSICS LABORATORY

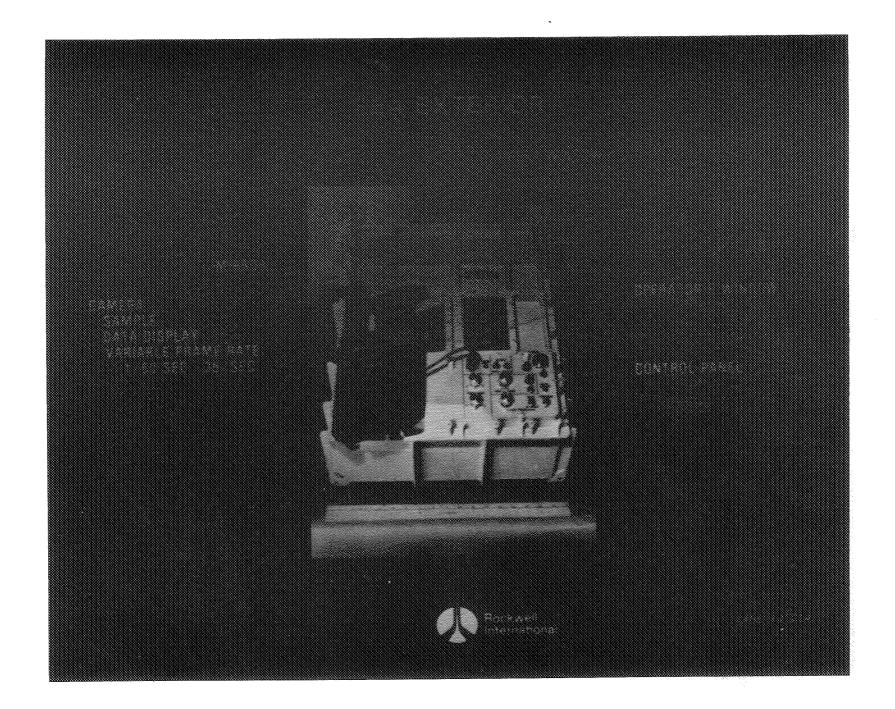
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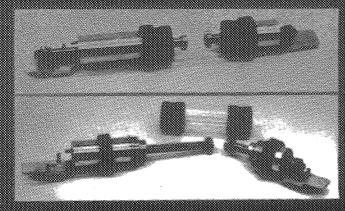




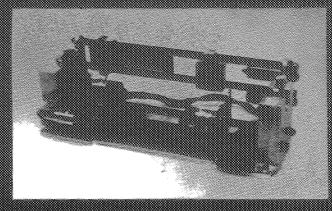
FEA FLOAT ZONE CONFIGURATION



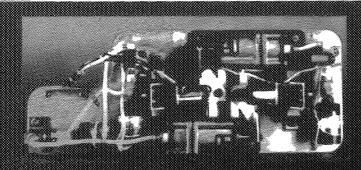
FEA OPTIONAL SUBSYSTEMS



FLUIDS MANIPULATION EXPERIMENT CONTAINER

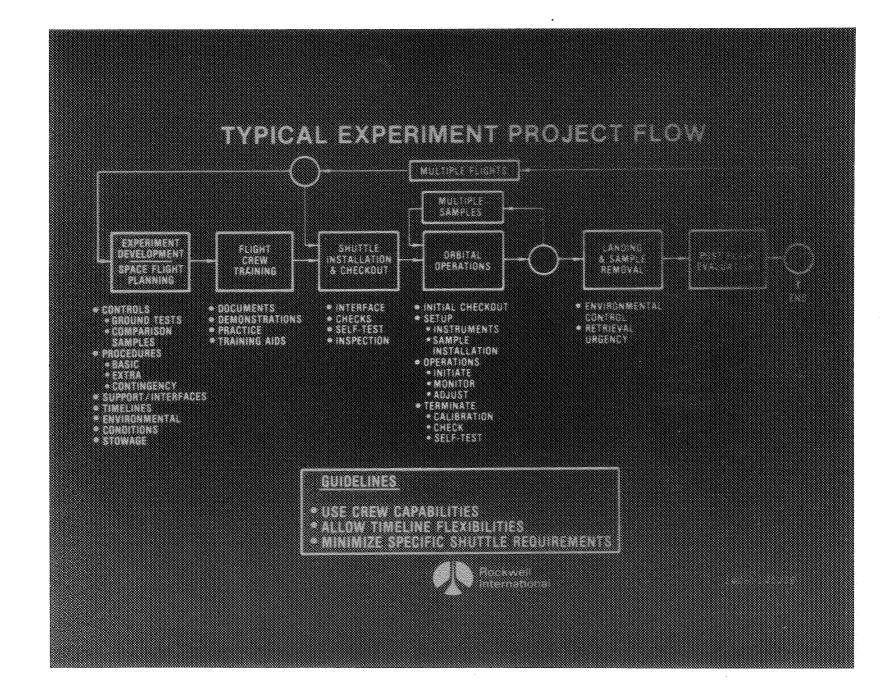


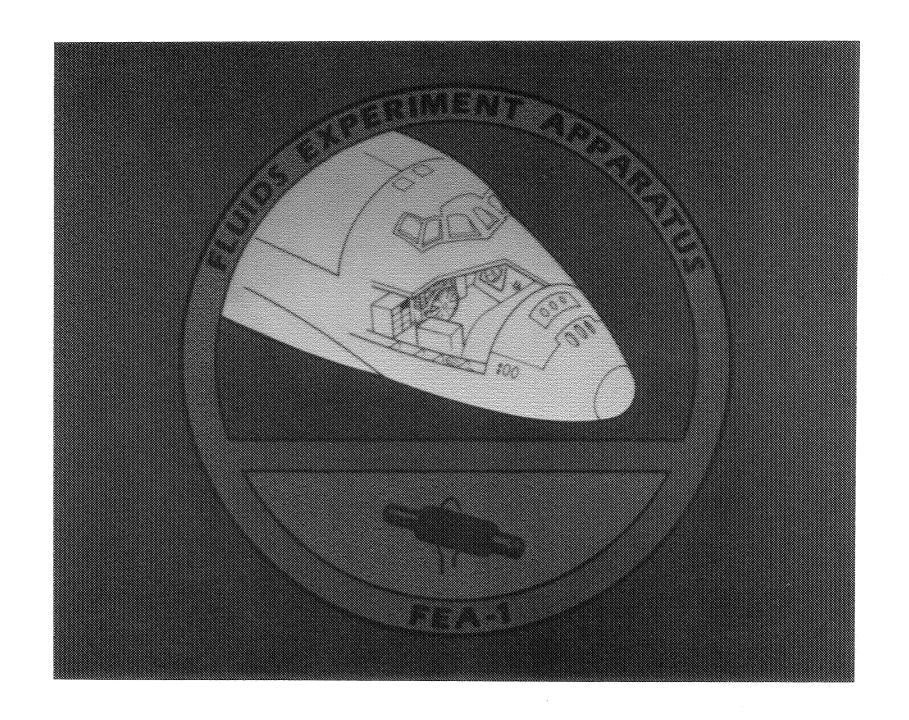
EXPERIMENT MANIPULATION ASSEMBLY



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