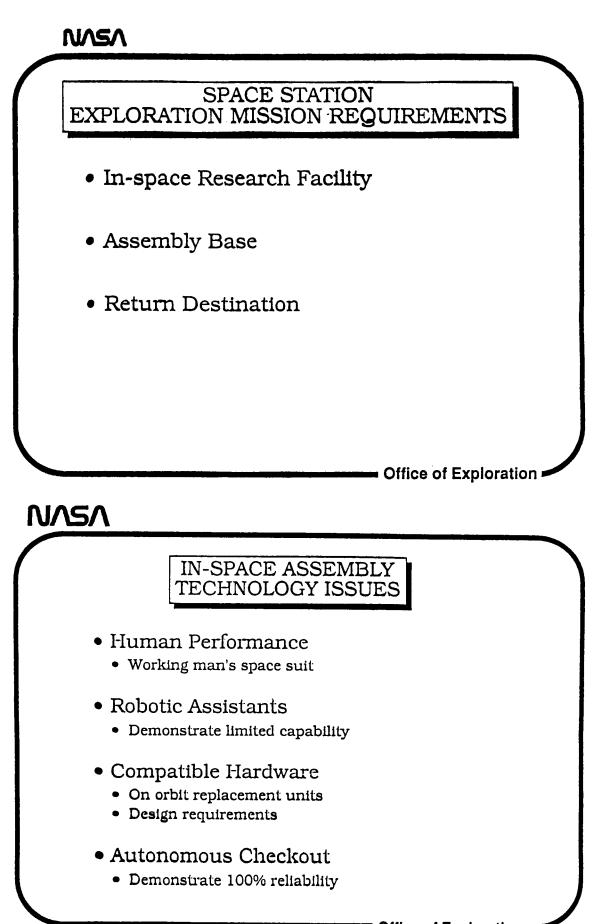
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Technology Requirements for Advanced NASA Missions

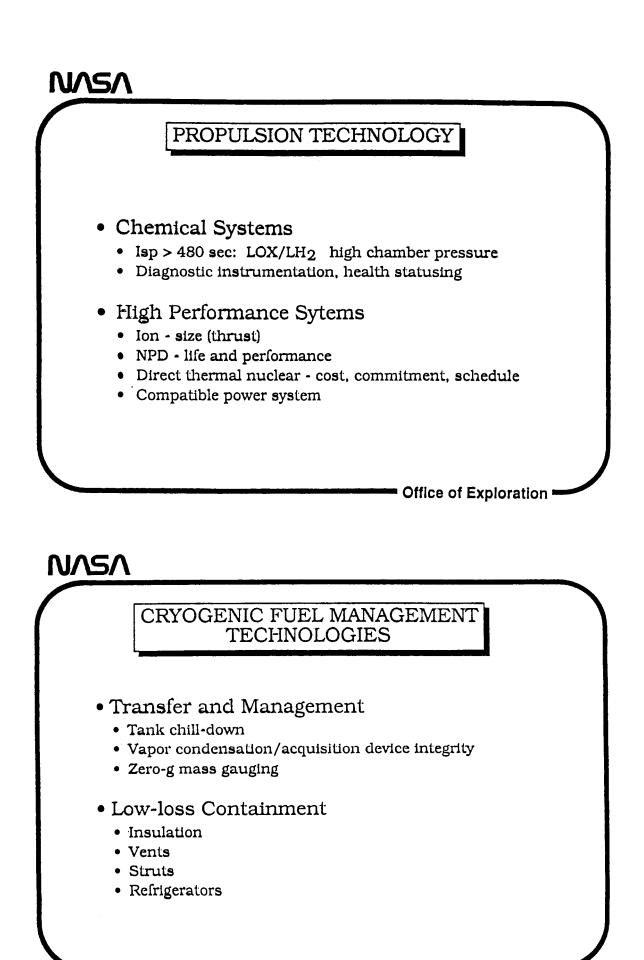
Henry Curtis Office of Exploration NASA Headquarters

Two recent reports, one by the National Commission on Space and the second by the Ride committee, have urged NASA to look at a variety of future missions. Among these are manned missions to Mars and permanent bases on the moon and Mars. This presentation will address a wide variety of technologies needed for such missions as well as areas where power is required. An estimate of power ranges and photovoltaic opportunities will also be presented.

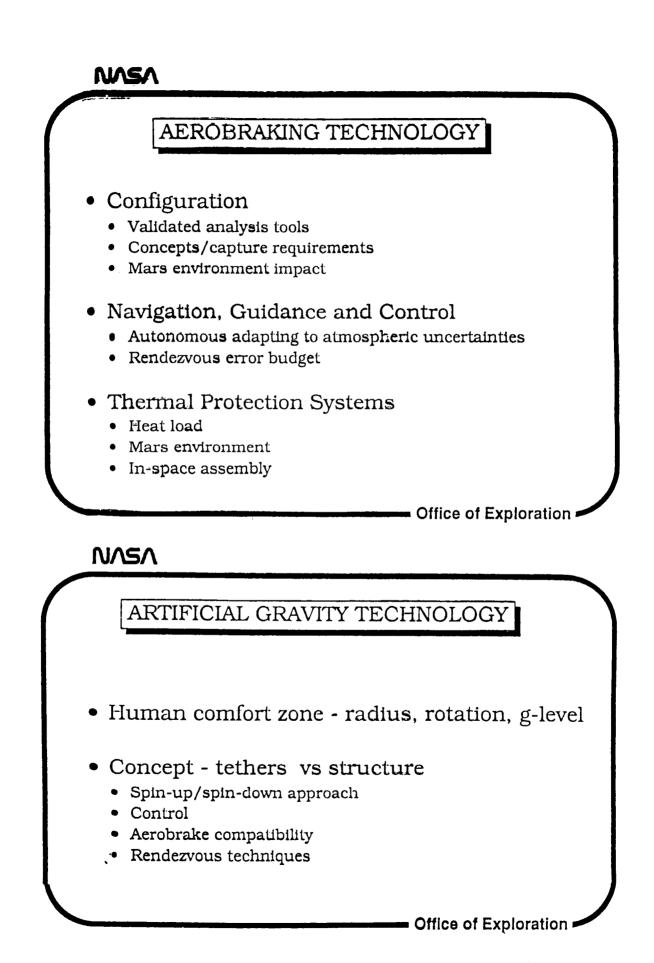
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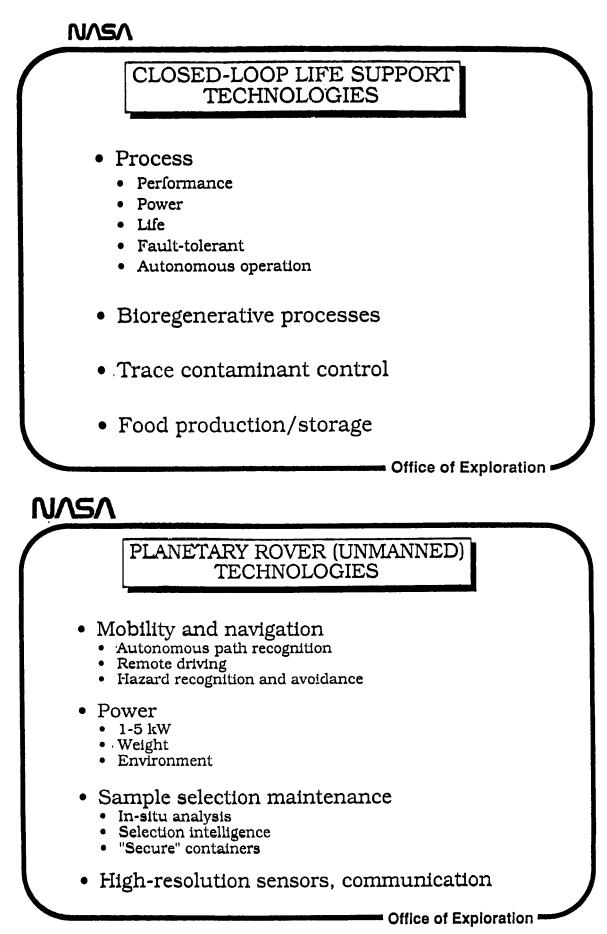


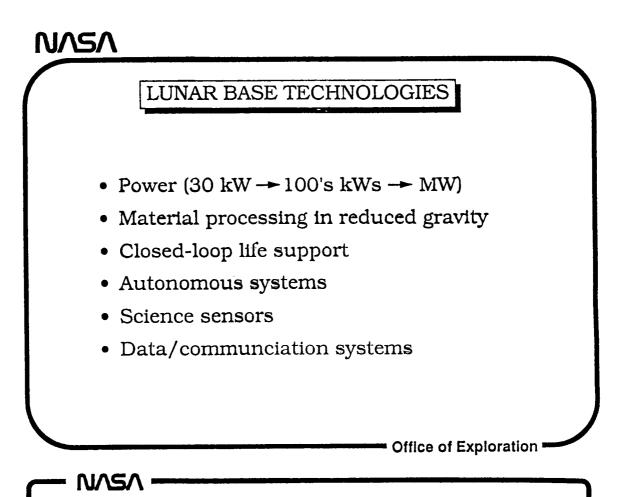
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NEED FOR POWER IS EVERYWHERE

- Electric propulsion
- Earth/Mars and Earth/Lunar vehicles
- Lunar/Mars bases
- Rovers (manned and unmanned)
- Life support
- Assembly at space station
- Permanent manned presence

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