

DEVELOP EXTRAVEHICULAR CAPABILITY

The fifth Gemini objective, to develop extravehicular capability, has been previously covered and was illustrated in the Gemini film. We have developed techniques in over 12 hours of EVA which will be valuable in Apollo. These techniques provide a solid baseline from which we can develop the more sophisticated EVA requirements required in Apollo Applications. I would therefore like to move on to the last Gemini objective, the conduct of scientific experiments, and spend a few moments discussing the results obtained and their contribution to science and the follow-on manned space flight effort.

GEMINI EXPERIMENTS

The Gemini experiments introduced many scientific and technical organizations into the Nation's space program. Some of the Nation's leading scientists were the principal investigators on the manned experiment platform provided by Gemini. In accomplishing this manned space flight objective on Gemini, the experiment program provided additional information on man's ability to perform useful functions in the space environment, and provided data which will materially aid the design of many Apollo and Apollo Applications experiments as those programs progress.

Fifty-two different experiments were conducted in the Gemini program, as summarized in this chart (fig. 5, MC67-5877). Generally

EXPERIMENT PROGRAM SUMMARY

<u>SPONSORING AGENCY</u>	<u>NO. OF EXPERIMENTS</u>	<u>TOTAL EXP MISSIONS</u>
● SCIENTIFIC		
• OSSA(S)	17	47
● TECHNOLOGICAL		
• OART (T)	2	2
• OMSF (MSC)	10	18
• DOD (D)	15	26
● MEDICAL		
• MEDICAL (M)	8	18
TOTALS	52	111

NASA HQ MC 67-5877
2/23/67

FIGURE 5