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THE SATURN V MISSION AND ALABAMA

by

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SATURN HISTORY DOCUMENT
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Gentlemen,

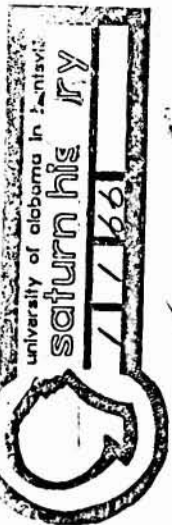
I would like to thank you on behalf of the Marshall Space Flight Center for the invitation to address this group. I plan to cover two major items. The first will be the Saturn V Lunar Mission. I have a short film which gives some background on the overall Saturn program and then covers the basics of the Lunar Mission. After the film I will cover a few other aspects of the Lunar Mission. Second I will discuss the impact of the Saturn V Mission on the Nation and Alabama.

Let's look at the film now. I think you will find it interesting and informative.

13 minute film titled, "Project Apollo - Manned Flight to the Moon"

The Saturn V Vehicle as you have seen in the film is a mammoth rocket. To give you a feeling for how large it is I have a slide here (Slide E5061A) which compares the height of the automobiles you see here at the base of the picture. The building behind the Saturn V is the huge vertical assembly building.

This Saturn V Space Vehicle has involved people of all sections of the United States in it's construction. The present active contracts are depicted by this slide (Slide E729F). As you can see, Alabama has a healthy representation. I will cover Alabama's Space Program ^{later} later.



You may be interested in the actual prime contractors of the Saturn V or Apollo Space Vehicle. This slide (Slide E724C) depicts these contractors. Note the Government Support Equipment Contractor for the facilities at Cape Kennedy. You saw a slide of the huge vertical assembly building. Connected to that building is a highly complex launch control room which has required exacting skill on the part of the American scientist and engineers to perfect. This same skill is responsible for another major GSE item at Cape Kennedy. That is the launch pad, depicted here in this slide (Slide I1200-98). It is from here that the Apollo Space Vehicle will be launched toward the moon.

Let's concentrate now on Alabama and what the space effort has and will mean to our state. As you know the space effort in Huntsville has attracted many thousands of fine engineers, scientist, technicians, and workers to Alabama. The total payroll brings approximately 280 m \$ into the state annually. The benefits of this influx of talent cannot be over emphasized. These people have assembled to solve the many problems of the complex space venture. This slide depicts some of these problems. Of course, this type of effort is expensive, and this expense had brought an impressive amount of money to Alabama. Some of the reasons for this expense are (Slide VL 64-L66) research time available. (Slide VL 64-3-66). Research complexity. (Slide VL 64-4-66). Higher labor cost both due to inflation and the level of skill involved. This cost then is accentuated by the cost spread (Slide VL 64-5-66).

This final slide (Slide E 704 AD) shows that Alabama is one of the most involved states in the space effort. To give you a better feeling of how this affects you I have assembled a breakdown of the major existing NASA Contracts that are the responsibility of Alabama. They go like this:

<u>City</u>	<u>No. of Contracts</u>	<u>Amount</u>
Auburn	27	4 M\$
Birmingham	61	89 M\$
Decatur	2	1 M\$
Hartselle	2	.1 M\$
Huntsville	450	788 M\$
Normal (A&M)	2	.1 M\$
Tuscaloosa	40	5 M\$
Total (State Wide)	586	889 M\$

We have covered, briefly, the Saturn V Apollo Program and the effect it has had and is having on Alabama. It is a challenging program and I hope you have a new appreciation of it through this talk.

If there are any questions I will be glad to try to answer them.