



**RAY PITTS**

Co-principal Investigator for OSCAR  
Orbital Syngas/Commodity Augmentation Reactor

1

00:00:27,600 --> 00:00:32,000

My name is Ray Pitts and I'm the Co-principal  
Investigator of the OSCAR project,\h\h

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00:00:32,000 --> 00:00:37,760

the Orbital Syngas/Commodity Augmentation  
Reactor. OSCAR is a sustainable technology.\h\h

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00:00:39,040 --> 00:00:43,200

With the the dawn of long duration  
spaceflight going to the moon,\h\h

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00:00:43,200 --> 00:00:48,080

potentially back to mars in the future, we need  
to be as sustainable as we possibly can. So in\h\h

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00:00:48,080 --> 00:00:57,840

order to do so, we need to be able to reutilize  
and repurpose everything that we bring with us.

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00:01:00,640 --> 00:01:05,120

So we only had a few modifications since the  
first flight, and two of the most notable ones\h\h

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00:01:05,120 --> 00:01:09,520

was we increased the number of weldments we have  
on the system to make it as leak tight as possible\h\h

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00:01:09,520 --> 00:01:14,400

going into our second flight. The second was that  
we had an improved design on our gas line heaters\h\h

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00:01:14,400 --> 00:01:19,280

and working with STMD's Flight Opportunities has  
been a great opportunity and they supported us in\h\h

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00:01:19,280 --> 00:01:23,280

terms of their belief in the science and this  
research and what this technology is going to\h\h

