INST 154 Apollo at 50 Discussion Questions Session 25: Apollo 15: Lunar Rover

- Our colleagues at the University of Southern California Institute for Creative Technologies (USC-ICT) need to anticipate what questions might be asked so that they can match those questions up with answers. Please (each person in the group) write down at three questions you personally would like to ask Al Worden and upload them to the discussion board for your group. We will share your questions with the team that is building the system that we saw demonstrated.
- 2. The Lunar Rover was originally designed to make it possible for Apollo missions to reach more geologically interesting terrain without compromising safety. The key idea was to make it possible to land far enough away from that terrain to find a reliably flat area, but close enough to drive there. But the lunar rover had many other benefits as well. List all of the other benefits. I can think of at least five, and you can probably think of even more.
- 3. The J missions (Apollo 15, 16 and 17) stretched the capabilities of the Apollo system pretty far, from about 8 hours of moonwalks per mission to more than 20. But of course with some redesign it could be stretched even further. Identify all the things that would have needed to change for the total moonwalk time to be extended by another factor of 2.5, to 50 hours. Could this have been done safely, in a way that could still be launched on a single Saturn V?