

# *AIAA Commercial Space Group*

## *Mojave Visit #2*

**Ken Davidian**

**In preparation for the  
17 September 2009 visit to  
Mojave, California.**

---

### *Executive Summary*

---

- AIAA Commercial Space Group is organizing a visit to established and emerging commercial space activities in the Mojave area.
- The purpose of this visit is to expose AIAA members about commercial space activities.
- This is the second visit to Mojave. The first was conducted on Tuesday, November 18, 2008.
- This visit is open to U.S. citizens only.
- Companies and organizations to be visited include stops at the Mojave Air and Space Port, XCOR Aerospace, and the NASA Dryden Flight Research Center.
- The cost of the visit is \$50 per person, payable in cash or check. Payment will be collected on the bus. Receipts will be provided. The cost will include the day's visits and briefings, informative handouts, snacks and drinks on the bus, and transportation.
- Since there is only one mid-sized bus being used for this visit, there is limited space. Reserve your place now!
- Dress code for the visit is "casual and comfortable". Flat-bottomed, closed-toe, walking shoes are highly recommended. Coats should be appropriate for the season based on weather forecasts.
- Tour attendees will begin to assemble at the Space 2009 Conference registration area at 07:30, and departure is scheduled for 08:00.
- The bus will return to the point of departure at approximately 18:30.

---

**General Visit Information**

- To sign-up for this visit, send an email to Ken Davidian (ken.davidian@faa.gov) or Eleanor Aldrich (eleanora@aiaa.org). Registration will close at the end of the business day on Wednesday, September 9, 2009.

Details of the itinerary for the September 17 visit are presented below.

*General Visit Information*

---

The following is general logistical and administrative information about the Mojave Visit #2.

**AIAA COMMERCIAL  
SPACE GROUP**

The American Institute of Aeronautics and Astronautics (AIAA) Commercial Space Group (CSG) was created in early 2008. The purpose of the CSG is to provide communication of relevant and timely information regarding the established and emerging commercial space sector to target audiences, specifically:

- To the public, communicate information about the emerging commercial space sector for educational purposes.
- To AIAA members and all aerospace professionals, provide them with timely and relevant information about the different aspects, sectors, and people of commercial space and provide volunteer opportunities in this new and dynamic aerospace sector.
- To the emerging commercial space sector, provide the wherewithal to obtain information about, and access to, all of AIAA's available resources and demonstrate the benefits of AIAA Commercial Space Group membership and support.

In support of this purpose, the CSG is organizing a series of visits to organizations operating in or around the Mojave, California area.

**CSG LEADERSHIP**

**Ken Davidian** - Ken Davidian is the “Encourage, Facilitate, and Promote” (EFP) Program Lead at the Federal Aviation Administration’s (FAA’s) Office of Commercial Space Transportation (AST), located in Washington, DC. Ken is also the head of the AIAA CSG and acts as the guide for the Mojave visit.

Below is Ken’s contact information:

- Work Address: FAA AST, 800 Independence Ave SW, Washington DC 20591

---

## General Visit Information

- Tel: (o) 202-267-7214, (c) 202-834-0872
- Email: ken.davidian@faa.gov

**Eleanor Aldrich** - Eleanor Aldrich is the AIAA Executive Liaison to AIAA for CSG visit activities.

Below is Eleanor's contact information:

- Work Address: AIAA, 1801 Alexander Bell Dr, Ste 500, Reston, VA 20191-4344
- Tel: (c) 571-235-0528
- Email: eleanora@aiaa.org

**COST AND PAYMENT** The cost of the visit is \$50 per person, payable in cash or check. Payment will be collected on the bus. Receipts will be provided.

The cost will include the day's visits and briefings, informative handouts, snacks and drinks on the bus, and transportation.

The cost does not include the cost of lunch, which is the responsibility of each participant. The lunch location and approximate costs you can expect to pay are described below.

**DRESS CODE** The suggested dress code for this visit is informal to business casual. In any case, please make sure you wear comfortable, flat-bottomed, closed-toe, walking shoes, and bring appropriate protective wear and gear (i.e. coats, umbrellas) that match the weather forecast for the visit date.

**REQUIRED INFORMATION** There are six pieces of information that are required from each attendee:

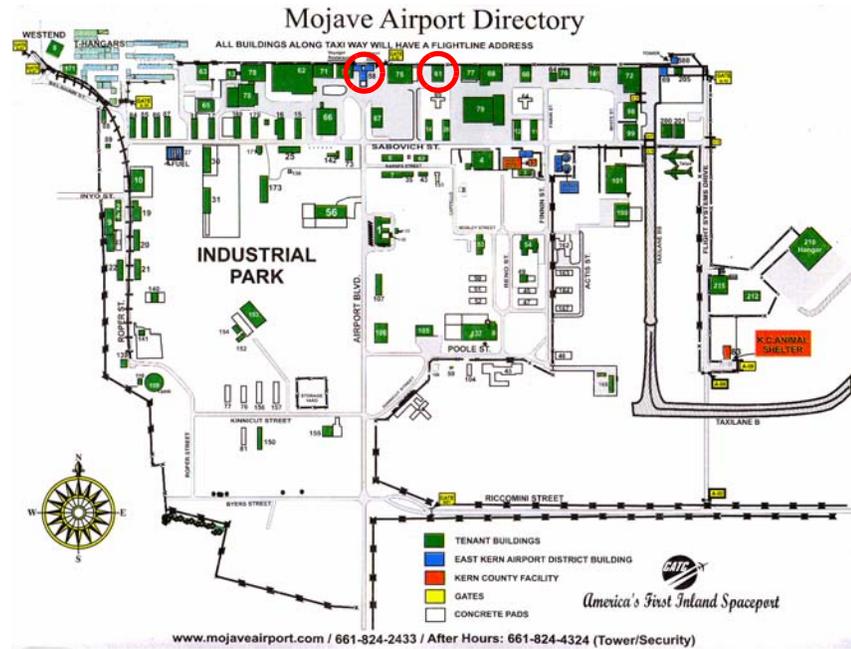
- Name
- Citizenship\*
- Date of Birth
- Place of Birth
- Driver's License Number
- Driver's License State
- Last Six Digits of Your Social Security Number

\*All visit attendees must be U.S. citizens.

**HOW DO I SIGN UP?** To sign-up for this visit, send an email to Ken Davidian (ken.davidian@faa.gov) or Eleanor Aldrich (eleanora@aiaa.org).

---

## Locations on Visit



Registration will close at the end of the business day on Wednesday, September 9, 2009.

---

## Locations on Visit

The following companies and organizations are the sites that will be featured on the upcoming industry visit.

### **MOJAVE AIR & SPACE PORT**

The Mojave Air and Space Port is located in Mojave, California at the northern end of route 14, approximately 100 miles driving distance from Los Angeles International airport (LAX). A map of the Mojave Air and Space Port complex (with the buildings featured during the visit circled in red), are shown in the map on the next page.

### **NASA DRYDEN FLIGHT RESEARCH CENTER<sup>1</sup>**

Located at Edwards, California, in the western Mojave Desert, the Dryden Flight Research Center (DFRC) is NASA's primary center for atmospheric flight research and operations. NASA Dryden is critical in carrying out the agency's missions of space exploration, space operations, scientific discovery, and aeronautical research and development (R&D).

---

1. Quoted, excerpted, and based on material from the NASA DFRC webpage: [www.nasa.gov/centers/dryden/about/overview.html](http://www.nasa.gov/centers/dryden/about/overview.html)

---

**Locations on Visit**

Dryden is the primary alternate landing site for the Space Shuttle and orbital support for the International Space Station.

In support of space exploration, DFRC is managing the launch abort systems testing and integration, in partnership with the Johnson Space Center and Lockheed-Martin, for the Crew Exploration Vehicle.

In support of aeronautical R&D, we are involved many aspects of the Fundamental Aeronautics and Aviation Safety programs, including the X-48 Blended Wing body and Ikhana (Predator B) in support of subsonics.

NASA's Dryden Flight Research Center is situated immediately adjacent to the compass rose on the bed of Rogers Dry Lake at Edwards Air Force Base, Calif. NASA's Dryden Flight Research Center is situated immediately adjacent to the compass rose on the bed of Rogers Dry Lake at Edwards Air Force Base, Calif.

Details about specific points of interest at NASA DFRC can be found at [www.nasa.gov/centers/dryden/news/FactSheets](http://www.nasa.gov/centers/dryden/news/FactSheets).

**TOUR ITINERARY** The following is an overview description of the visit itinerary followed by a more detailed description of each visit stop.

**ITINERARY OVERVIEW** The table below provides an overview of the visit agenda. It is followed by a more detailed description of each agenda item.

<b>Start Time</b>	<b>End Time</b>	<b>Event Description</b>
07:30	08:00	Assembly at Space 2009 Registration Desk
08:00	10:00	Transit to Mojave, Introductory Presentations
10:00	11:00	Visit of XCOR Aerospace
11:00	12:00	Overview of Mojave Air and Space Port with Stu Witt
12:00	13:30	Lunch at Voyager Restaurant; Group Portrait
13:30	14:30	Transit to NASA DFRC
14:00	16:30	Visit of NASA DFRC
16:30	18:30	Return to Space 2009 Registration Desk. End of Visit

**ITINERARY DETAILS** Below is a more detailed description of what will take place at each stop on the visit.

**07:30-08:00 Assembly at Space 2009 Registration Desk**

---

**Locations on Visit**

- Visit attendees will be asked to meet at the Space 2009 registration desk between 07:30 and 07:45.
- The group will be directed to the bus departure location beginning at 07:45.
- The bus will leave at 08:00.

**08:00-10:00 Transit to Mojave**

- The total trip time from the Pasadena Convention Center in Pasadena, California to the Mojave Air and Space Port is approximately 2 hours, depending on traffic.
- En route, visit logistics, commercial space overview presentations, and group discussions will be facilitated by Ken Davidian.
- Water and other beverages will be available on the bus.



**10:00-11:00 XCOR Aerospace, Building 61**

- The group will go first to Building 61.
- The group will assemble in the XCOR conference room to receive a company overview presentation by Jeff Greason, XCOR CEO.
- Following the overview presentation, the group will Visit the rest of the facilities, including the machine shop and hangar, receiving a description of the different projects underway.

**11:00-12:00 Mojave Air and Space Port, Building 58**

- Upon arrival at Building 58, the Visit attendees will leave the bus and be guided into the administration conference room.
- Mojave Air and Space Port General Manager, Stu Witt, will deliver the Welcoming Remarks and give an overview of the facility.
- Approximately 10 minutes before lunch, there will be a break.



**12:00-13:30 Lunch at Voyager Restaurant, Building 58; Group Portrait**

- The group will be assembled at 11:30 in the Voyage Restaurant and we will be seated together.

---

## Locations on Visit

- The restaurant is located in the same building where the Mojave overview presentation will be given.
- There is a full-service menu available with sandwiches and salads costing between \$5-\$10, from which the attendees will be able to order their lunch.
- The restaurant can be found on the web at [www.mojaveairport.com/voyager.htm](http://www.mojaveairport.com/voyager.htm).
- Tour attendees will be able to walk around Legacy Park (picture below) after lunch where will take a group photo in front of the model of SpaceShipOne.



### **13:30-14:30 Transit from MA&SP to the NASA Dryden Flight Research Center**

- The duration of this leg of the trip will depend on which NASA DFRC gate in which we are allowed to enter.

### **14:30-16:30 NASA Dryden Flight Research Center**

- There are many operational aspects of the shuttle program and other historic programs that are available for our visit to DFRC, including the Shuttle Carrier Aircraft (747), the Shuttle mate/demate facility, the original M2-F1 Lifting Body piloted prototype aircraft, and the Lunar Landing Research Vehicle.
- The visit to DFRC will last approximately two hours, with a period for Q&A.

### **16:30-18:30 Return to Pasadena Convention Center**

- The group will board the bus at approximately 16:30 to return to the Pasadena Convention Center.
- Estimated arrival at the Pasadena Convention Center will be at 18:30.