



Arizona Section Newsletter

February 2004

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ASME Honors & Awards Banquet "SR-71 Blackbird – An Engineering Marvel"



**Richard H. Graham, Col.
USAF, (Ret.)**

formed at its very best!

From 1967 to 1990, the SR-71 served seven U.S. Presidents, the Central Intelligence Agency (CIA), the National Security Agency (NSA),

The world's fastest and highest flying aircraft was conceived as early as 1958 by the renowned aircraft engineer, Kelly Johnson. The gigantic leap in technology he and his engineers had to overcome at the Lockheed Skunk Works was phenomenal. Built in total secrecy, the first Blackbird flew on April 26, 1962. The Blackbird's only purpose was to gather highly classified intelligence on hostile countries around the world. Flying at Mach 3+ speeds and cruising at over 85,000 feet, the SR-71 could survey over 100,000 square miles every hour, gathering in millions of bits of intelligence. When cruising at over 2,100 mph, with skin friction temperatures reaching 700 degrees Fahrenheit, the SR-71 per-

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NASA Photo

the Defense

Intelligence Agency (DIA), the Pentagon, and other government agencies. It provided them with the necessary intelligence to make crucial political and military decisions during the Cold War era.

Col. (Ret) Richard Graham flew the Blackbirds for over seven years on operational reconnaissance missions. He was selected to be the Squadron Commander of the SR-71 unit in 1980 and eventually became the Wing Commander at Beale AFB, which included both the SR-71 and U-2 aircraft. With over 15 years of experience with the SR-71 program, he is uniquely qualified to talk on the capabilities of the SR-71.

Date: Thursday February 12, 2004
Time: 5:30 Happy Hour
 6:00 Dinner
 7:00 Awards/Program
Location: Doubletree Hotel
 320 N. 44th St., Phoenix
Cost: \$20 Per Person / \$10 Students
RSVP: By February 10th (see below)

Please RSVP To: Mark Jones
 Phone: 480-759-2958
 Email: jonesm1@asme.org

Before noon Tuesday February 10th

Leave a message with the number in your party and a phone number at which you can be reached.



Brain Teaser

Lew W. Reese, Jr. was seated comfortably in one of the boardrooms of ACRON, Inc. One final test and he would then be hired as one of the company's top executives with a seven-figure monthly salary and all the perks. Exactly for what top-level office, he was not told by the executive search committee. Our Chairman feels strongly about your name, they told him.

After a few minutes, the charming assistant of the Chairman entered the room and gave him a piece of paper marked 44444.

He almost fell from his chair when he read it because he was clueless as to the officers of the company.

The paper read:

A. EXECUTIVE OFFICES

1. PRESIDENT: Mountains of Work. Rush Work. More Work or Bust.
2. CFO: Number Crunches. Value Operations.
3. CORPSEC: monthly meetings every 30 days.
4. VP-PLANNING: Environment and Competition Analysis
5. VP-MARKETING: Market Expansion in all Directions.

B. NAMES OF EXECUTIVES (not in order)

1. Steve A. Norfolk, Jr.
2. Milton David A. Swanson
3. Norman S.E> Waldorf
4. Wilma S. Ocier-Tellaney

Questions:

- a. Who occupies which position?
- b. Why are you being considered for the vacant office aside from your qualifications?

What should be Lew's answers?

This month's Brain teaser is brought to you by Braingle.com

Answer

a. MDAS is CFO. Multiply, Divide, Add and Subtract are the 4 basic arithmetic OPERATIONS.
 SANJ is CORPSEC. Sept. Apr. Nov. and Jun are the 4 MONTHS with 30 days.
 WSOT is VP-PLANNING. Weaknesses, Strengths, Opportunities and Threats are the 4 areas of ANALYSIS in business planning.
 NSEW is VP-MARKETING. North, South, East and West are 4 DIRECTIONS.
 b. LWRL is being considered as PRESIDENT because of his initials Lincoln, Washington, Roosevelt and Jefferson are 4 PRESIDENTS whose BUSTS are in MOUNT RUSH MORE.

Arizona Section ASME SANTAN GENERATING STATION TOUR FEBRUARY 28, 2004



The Salt River Project will host a tour of their Unit 2 Hot Gas Path Inspection scheduled to begin in mid-February. The plant was built in the early to mid-1970's and consists of four GE Frame 7B combined cycle units originally rated at 83 MW each on light oil fuel. Natural gas was run into the plant in 1982 and the units were converted to fuel gas with light oil as a backup. This unit was upgraded with new hot gas parts and a new Dry Low NOx (DLN) combustion system approximately 3 years ago and this will be the first time the unit has been opened to inspect it since the upgrade. We should be able to see DLN fuel nozzles, combustion chamber liners and transition pieces, turbine blades and turbine nozzles with approximately 8000 fired hours of service prior to their being repaired and returned to service.

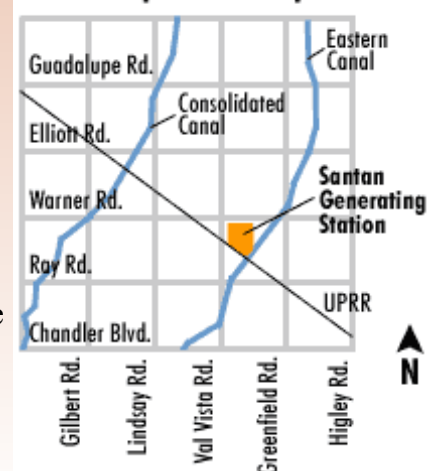
The tour will start at 10:00 AM and last for approximately an hour.

The plant is located on the southeast corner of Warner Road and Val Vista Drive in Gilbert, AZ. Take US 60 (Superstition Freeway) to the Val Vista exit and turn south. Travel approximately ¼ mile south of Warner drive and turn east into the plant entrance road parallel to the RR tracks. The plant entrance gate is on the left at the first fork in the entrance road.

For reservations call Mark Jones at 480-759-2958 or Webb Etheridge at 480-922-0213. The tour will be limited to the first 20 people to sign up. You must provide your drivers license number or your social security number when making reservations. Reservations are required no later than February 21, 2004.

- Owner/operator:** Owned and operated by SRP.
- Description:** Four combined cycle, combustion and steam generation units.
- Capacity:** Approximately 360 megawatts, from four units
- Fuel source:** The station is authorized to burn natural gas.
- Fuel consumption:** The units use 69,100,000 cubic feet a day at full load.
- Plant construction:** Construction began in early 1973. Units 1 and 3 were completed in October 1974. Unit 2 was completed in December 1974. Unit 4 went on-line in May 1975. For information on the Santan Expansion Project, please see www.santanfacts.org.
- Construction cost:** \$55 million.

Santan Expansion Project





Your Section Executive Committee and Operating Board for '03 -'04

If we can help you, please feel free to contact us. We look forward to serving the AZ Section members.

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ASME International

The following has been quoted from the Constitution of the American Society of Mechanical Engineers. Revised to October, 1991.

C5.1.2 The provisions of the Constitution, By-Laws and Policies and Procedures established by the Board of Governors of the Society shall govern the procedure of all components of the Society but no action or obligation of such components shall be considered an action or obligation of the society as a whole. This provision shall be imprinted on any publication issued by such components.

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2003-2004 Calendar of Events

Feb 10	Board Meeting -APS Building
Feb 12	Honors & Awards Banquet -TBD
Feb 21-22	RAC -Berkley, CA
Feb 23-28	Engineer's Week
Feb 28	SRP Santan Plant Tour
Mar 9	Board Meeting -APS Building
Mar 11	Palo Verde Steam Generator - TBD
TBD	Engineering Careers Panel Discussion - ASU
Apr 6	Board Meeting -APS Building
Apr 7	Industry Breakfast - TBD
Apr 8	Sand Rail Design - TBD
May 11	Board Meeting -APS Building
May 13	Steak Fry -Pera Club

