San Diego Chapter
P.O. Box 262055
San Diego, CA 92196-2055

The INCOSE San Diego Chapter will hold its next membership meeting on **Wednesday, November 10, 2010**. This will be a free dinner meeting for INCOSE members and their guests.

TIME:

5:00 PM – 6:00 PM	Sign-in and Networking/Dinner
6:00 PM	Speaker Presentation
7:00 PM	Adjourn

LOCATION: Point Loma Sports Grill and Pub (in Liberty Station next to Ace Hardware)
2750 Dewey Road
San Diego, CA 92106
Phone: (619) 523-1940

SPEAKER: Sherwood (Woody) Spring, (Retired Army Colonel and Former NASA Astronaut)
Professor of Systems Engineering, Defense Acquisition University

TOPIC: ***Manned Space Flight: NASA Mission 61B***

ABSTRACT: This mission landed six weeks before the Challenger accident. Some of the engineering aspects of preparing to fly as a crew member, training, and crew composition will be discussed. NASA Mission 61-B is the focus of this topic, the 23rd Shuttle mission, NASA's second night launch, and the second flight of Space Shuttle Atlantis.

An 18 minute video of the mission will be shown, narrated by the speaker. A follow on 30 minute slide presentation provides an audio and visual discussion on the personal aspect of space flight, preparation, and the conduct of the mission itself. Low Earth Orbit (LEO) observations around the world with multiple visible phenomenon (unique to LEO) will be discussed to include physical oceanography, weather, and manmade objects from space.

The presentation ends with a few life in space topics, the International Space Station, and the questionable future of NASA's continued presence and leadership in the manned space flight arena. Open question forum during and after the slide presentation.

RSVP To: Joyce D. Williams at **joycedwilliams@sbcglobal.net** **by Friday, November 5, 2010.** This meeting is open to both members and non-members. **Bring a friend or colleague!**

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ABOUT THE SPEAKER: Woody Spring is a retired Army Colonel and current professor with the Defense Acquisition University in San Diego. As a West Pointer, class of 1967, he graduated right into the Viet Nam war, so graduation consisted of a month's vacation, Airborne, Ranger, and Basic Course training, then over into theater. He basically served two tours back-to-back with the 101 Airborne Division then the 1st Calvary Division, separated by flight school. Upon his return, he earned his MS degree in Aerospace Engineering from the University of Arizona plus some additional flight training in route to the US NAVY Test Pilot School at Patuxent River, Maryland. Then spent the next four years at Edwards Air Force Base in California as a Test Pilot. During this period (1974-1979) the Army was evaluating and modifying its Viet Nam vintage Aircraft, both Helicopters and Airplanes for viability in the Cold War and potential conflict with the Soviet Union. We were also doing the down select for the next generation systems, the Blackhawk and the Apache helicopters.

Following his Test Pilot tour, Woody applied for and was accepted by NASA as an Astronaut with the class of 1980. Along with training for his own mission, other jobs he held within the Astronaut office include SAIL (Shuttle Avionics Integration Lab), basically regression testing of all software upgrades and patches prior to incorporation into the shuttle software suite. VITT (Vehicle Integration and Test Team) lead, basically working as liaison to Kennedy Space Center tracking all Shuttle anomalies, issues, upgrades, flight readiness certification and testing, payload integration, pathfinder for NRO satellites, and final crew switch list and close out for five missions. In November 1985 he flew on Atlantis, launched three communications satellites, one target satellite, and performed two space walks or EVAs (Extra Vehicular Activities) performing prototype and time-and-motion studies for Space Station construction and EVA satellite repair. He was also the office EVA lead for two years.

In1988, he returned to the Army, to run the Army Space Program Office and the TENCAP (Tactical Exploitation of National Capabilities) program, a classified program that brought NRO satellite data directly to the battlefield.

After retirement in 1994, he joined industry working the beltway around DC for 14 years as program manager, and senior manager, division manager for a series of innovative companies in the Aero space, intelligence, and Command and Control arena. Customers included the NRO, CIA, DARPA, ONR, DIA, AFRL and multiple other related agencies and organizations. He joined the Defense Acquisition University in January 1989. He teaches intermediate and advanced Systems Engineering, Test and Evaluation, plus Science and Technology Management, and is branching into multiple other venues.

His daughter, Sarah, 29 is a Captain in the Army, and is currently finishing her residency as a Pediatrician in San Antonio, Texas. His son, Justin, 26, was a member of the Bronze-Medal Men's Gymnastics Team in the 2008 Olympics in Beijing, and is currently the Head Coach for the Men's Gymnastics Program for the University of Illinois in Champaign, IL.