

ROTARY CLUB OF HAYWARD

High  Gear

July 7, 2008
Volume 85, Issue #49
Editor: Laura Swan
Photographer: Richard Navarro



Kennedy Space Center's Launch Complex 39, Pads A & B



**Shuttle Astronaut
Dr. Tamara Jernigan with
President John Caldwell**



Space Shuttle Discovery



**Ed Bullock's grand niece Veronica Baron,
Dr. Tamara Jernigan & Jessica Brunelli
Fomula One Race Car driver**



President John Caldwell called the meeting to order, Dwight Perry P.D.G. of the C.V. Club led the Pledge of Allegiance. Richard King RI Past Pres, the ‘Quirkettes’ comprised of **Bill Quirk, Greg Jones, Dick Butler, Dale Vigil, Brian Schott, Charley Plummer** and **Bob Carlson** led us singing “America the Beautiful ” and This Land is our Land. Jim Mealey accompanied on the piano. Richard King RI Past Pres gave our Thought for the Day, a quote from Gabriela Mistral. “The child cannot wait. Right now is the time. His boxes are being farmed, his senses being developed, his blood is being made. To him, we cannot answer tomorrow. His name is, today.”

George Famous introduced our many visiting Rotarians;
Past District Governor (90-91) Bill Mayhood, Los Altos Sunset
Past District Governor (94-95) Dwight Perry, Castro Valley
Past District Governor (97-98) Jim Mealey, formerly our club now Los Gatos Morning
Past District Governor (05-06) Arlene Greenberg, Morgan Hill
Assistant Governor Area 2 Bonnie Best, San Leandro
Ed Sanders Pleasanton Rotary - Assisted Hayward with 5 year vision
Dr. Jon & Karen Grant - Foster City Rotary and Wheelchair Foundation.
Clark and Kathy Streeter – Livermore Club
Bob Tucknott from the Dublin Club and current President.

Guests include 11 year old grand-niece Veronica Baron and wife Rosalie with **Ed Bullok**, Anne and husband **Jay Tontz**, Judy and husband **Ken Meirovitz**, Jodi and husband **John Hunter**, Gloria Maita, Robin and husband **John Wilma**, Barbara and husband **Dr. Wayne Wright**, Milly and husband **Steve Rubiolo**, Maria Lana Rivera with **Bill Quirk, Barbara** with husband **Ed Avelar**, Jack Aloto, Mary Garcia and Michael Fitzgerald with **Phyllis Moroney**, Dr. Colleen Schwartz, DPM, Ben Schwartz and Jeffrey Wisoff with **President John Caldwell**.

FINES AND FOOLISHNESS: Recognitions and fines were postponed to allow more time for the Today’s Program.

TODAY’S PROGRAM: Dr. Tamara Jernigan, PhD Shuttle Astronaut — “Destination: Space Station and Beyond” **President John Caldwell** introduced today’s speaker, Dr. Tammy Jernigan, Strategic Human Capital Management Associate Director at Lawrence Livermore National Lab. Dr. Jernigan is a Astronaut, Scientist, and one cool lady! She received her Bachelor’s in Physics and a Masters in Engineering from Stanford while she pursued her varsity volleyball passion. She continued with a MS in astronomy from CAL and a Doctorate in space physics from Rice University in 1988.

Dr. Jernigan is the recipient of over 15 medals and prestigious awards from our government and others.

From Dr. Jernigan’s first launch into space, June 5, 1991, aboard the Columbia to her return from her 5th mission, June 6, 1999, she has circled the globe 1,000 times logging 25,000,000 miles.

Have you visited our website lately? www.haywardrotary.org



Dr. Jernigan's presented a power point and DVD that primarily focused on her 4th and 5th shuttle missions.



Dr. Jernigan talked about how vigorous astronaut training is. Space Shuttle astronaut's backgrounds vary from fighter pilots to engineers to scientists, female and male, American and International. Before a launch and during simulator exercises, a very devious training team assists the astronauts by failing the most impacted shuttle components resulting in the astronauts spending over 1,000 hours diagnosing and resolving problems.

Flight preparation begins 5.5 hours prior to lift-off. Breakfast is followed by a photo session and once launch suits have been put on, the astronauts board the shuttle 3 hours prior to lift-off. Since the Challenger accident, orange suits are worn during launch and re-entry. These suits are pressurized and are equipped with a harness and parachute. The white suits are worn during space walks and provide active cooling, radiation protection as well 30-minutes of oxygen. At the time of lift-off the space shuttle is traveling 100 miles an hour and can reach the speed of 18,000 miles per hour within 8.5 minutes.

Dr. Jernigan explained how her 4th mission was a personal growth experience. Aboard the Space Shuttle Columbia the team successfully deployed and retrieved two satellites. With two space walks scheduled she quickly learned how one non-locking screw can cause a very large problem. Unable to open a hatch, and after verifying to NASA the handle was being turned the correct way, it was determined that one very small non-locking screw had come loose and wedged in an area that prohibited the hatch from being opened. Thankfully, it was not critical and the end result was the hatch had to be removed with a torch, after the Shuttle returned to Earth. Unfortunately, the space walks were cancelled but she did say it was her best flight. Dr. Jernigan feels on this flight she learned a most valuable lesson. Paying attention to detail, and not budget cuts, is the most important thing when you are flying the Space Shuttle.

Dr. Jernigan's 5th space flight was a 10-day mission during which the crew performed the first docking to the International Space Station, and delivered 4 tons of logistics and supplies in preparation for the arrival of the first crew to live on the station. Once lift off is complete from the Space Station the Shuttle will circle twice around the Space Station generating images that will allow all to see that lift off did not compromise the station in any manner.

Upon program completion, Richard King RI Past President presented Dr. Jernigan with a Paul Harris Fellowship Award.

Dr. Jon and Karen Grant presented wheelchair donations in the name of Dr. Jernigan's sons, Jeffrey and Michael.

Hayward Rotary Club Calendar

- July 14 **Dave Behring will talk about Historian D-Day**
- July 21 **Bernie Rosner, Retired General Counsel for Safeway “An Uncommon Friendship”**
- July 28 **Past RI President Cliff Dochterman, When did you become a Rotarian?**
- Aug 11 **Dick Callahan, the voice of the Golden State Warriors.**

Need to find or confirm a Location?

Visit the District 5170 Website @ <http://www.rotary5170.org>



CHARTERED

June 1, 1922 • California
Club No. 482

www.haywardrotary.org

Email: hayrotaryclub@sbcglobal.net

CLUB OFFICERS

President John Caldwell
President-Elect Rob Cook, III
Vice-President Dave Elkins
Secretary Rebecca Avelar
Asst. Secretary Dick Bowman
Treasurer Patrick Early
Asst. Treasurer Jim Hanson
Sgt. at Arms Phyllis Moroney

BOARD OF DIRECTORS

2007-09

2008-10

Larry Lepore	Mona Diamantine
Richard Navarro	Anna Powers
Hamid Nekrawesh	Debby De Angelis
Pam Russo	Bob Senna

5170 DIST. GOVERNOR

Gary Citti • Santa Clara

R. I. PRESIDENT

Dong Kurn (D.K.) Lee • Korea

Hayward Rotary Club
P.O.Box 629
Hayward, CA 94543

First Class Mail

www.haywardrotary.org

