

Palo Alto Rotary Pinion

Date: March 21, 2016

Reporter: BRIAN STEEN

Editor: LYLE CONNELL

KATIE SEEDMAN welcomed everyone and started the meeting at 12:30 PM by leading the Pledge of Allegiance.

Our Guests were welcomed by KATIE:

Visiting Rotarians: Bob MacDonald/ West Springfield, MA; Dave Fraser/ Mad River Rotary; Vincent Keunen/ Liege, Belgium
Guests of Rotarians: Joan MacDonald, guest of MIKE WICK; Dr Nelson Pedreiro, guest of JACKIE SCHOELERMAN



Opening Remarks were provided by BRIAN SCHMIDT who presented his observations on "Intersections of Water and Technology". Is the drought over? We are not out of it, not even close. Ground water is still very low. Solutions could include: 1. More recycled water needs to be treated to be potable. 2. Reverse osmosis could be used to treat more water. 3. Cisterns could be set up in a "smart grid" to distribute collected water using programmable pumps.

Interesting!

ANNOUNCEMENTS

GLORIA HOM received birthday wishes and announced this Friday's TGIF social at JACKIE SCHOELERMAN'S, 674 Loma Verde Ave, Palo Alto at 5:30. Bring some wine or a beverage of choice!



ELIZABETH SANTANA invited our members to Rotary Means Business, March 24 at the Palo Alto Chamber of Commerce, 700 Alma Street at 5:30.

MICHAEL WICK received his long awaited Blue badge from KATIE. MICHAEL has been active on the Grants committee and made a President's Club contribution in honor of Dream Catchers, a Palo Alto nonprofit.



The Rotary Foundation is encouraging EVERY member to contribute a minimum of \$30 for Polio Plus during its "flash" March campaign. The Gates Foundation is matching 2:1 all contributions for March only. District 5170's goal is \$120,000.



ED DANGLER contributed to the President's Club since he couldn't be at the Crab Feed and in Viet Nam at the same time!

JON STOUMEN contributed to celebrate his new granddaughter in Portland and to share his triumphant completion of the Stanford 10K run, "running Hearts"



BERT ROSE thanked everyone for the "Get Well" wishes he received. Get well he did!



BRUCE GEE presented preliminary results from the Crab Feed fundraiser, held on March 19. With more than 200 people attending, he projected a net of over \$65,000, which includes \$10,000 raised for the Fund A Need recipient, DreamCatchers, a middle school tutoring program, selected by the Grants Committee. BRUCE summed it up well by saying it was, "Even more fun than we expected!" He thanked our hard working committee, and event volunteers, and of course, the biggest thanks goes to BRUCE for his months of work organizing the event and making it a BIG success!



Check out this Crab Feed video!! Created by BRUCE'S talented sister, Robin. [Check out this Crab Feed video!!](#)

Program: JACKIE SCHOELERMAN introduced Dr. Nelson Pedreiro, Research Science Director at Lockheed Martin (LM) who presented "Driving the Future Through Innovation."



LM is an "anchor tenant" in Silicon Valley, primarily in Sunnyvale, with 126,000 employees of which 60,000



are scientists and engineers. LM is the largest provider of data to the US government. Its role is diverse including participation in US Postal Service data systems and guiding the recent Mars landing. LM is developing deep space imaging systems that eliminate traditional mirror telescopes by using new digital imaging. Other technology developments include minimizing "touch labor" with advanced robotics, using 3D printing to manufacture propellant tanks,

developing avionics not subject to radiation interference and using grapheme to reduce power needed for water desalinization.

Q: Are there problems with LM's Santa Cruz telescopes?

A: Visual accuracy is not as good as Infrared due to clouds and moisture.

Q: What about "space debris", inoperable satellites, etc?

A: Some are detonated; others are pushed further into space using lasers.

Q: Does LM use civilian input?

A: Yes, thanks to US being a democratic society. Need to raise public awareness of LM's programs through education.

Q: Are LM's programs entirely driven by government requests?

A: Both government and LM create initiatives.

KATIE thanked Dr. Pedreiro for his impressive program and encouraged him to stay for further questions. She then thanked all Rotary volunteers for making today's meeting possible.

Reminders: Bring your checkbook to our next meeting to help "End Polio Now". And, plan to attend Friday's TGIF social at Jackie Schoelerman's.

PROGRAMS & EVENTS

March 28, Jerry Kaplan, Entrepreneur and Fellow at the Stanford Center for Legal Informatics: "The Social and Ethical Implications of Artificial Intelligence"

April 4, Sumbul Ali-Karamal: "Islamophobia for Fun and Profit"; author of "The Muslim Next Door: the Qur'an, the Media, and that Veil Thing" This book will be available for purchase at the meeting.

April 11, Adam Levin, Chairman and Co-Founder, Credit.com & Identity Theft 911: "Swiped: How To Protect Yourself In A World Full of Scammers, Phishers and Identity Thieves"

April 18, Bill Liberatore and the Gunn Choir: Musical Program