

the SPILLWAY express

August 4, 2016



Rotary Club of Redding
District 5160 | Club Number 456

Ray Stewart
Club President

Fred Collignon
District Governor

Cancer Sniffing Dogs

Today's Introductions

Greg Balkovek introduced the members of Team 5. Those who helped out in today's meeting: **Joe Girmonte** led the flag salute. **Mike Mangas** gave the invocation. Past President **Ross Domke** introduced our guests and visitors. **Richard Malotky** and **Joe Ayer** were the Sergeant-at-Arms. **Kurt Starman**, **Jason Parker**, and **Diane Kempley** were our greeters, Keyway greeters were **Jessica Whitlow** and **Aaron Williams**.



Marjeanne Stone
providing the pre-meeting
entertainment

On the mic today...



Greg Balkovek...
introducing his team



Mike Mangus...
with the invocation



Ross Domke...
welcoming our guests



President Ray...
the man in charge

Calendar

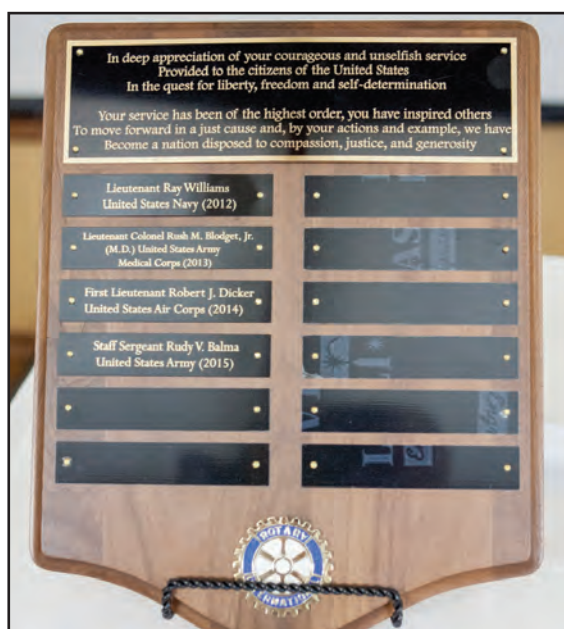
August 11	Chief Rob Paoletti, Plans For the Police Department
August 18	Charter Schools / Public Schools: Differences and Similarities
August 25	Laurie Baker, Shasta Cascade Wonderland Assoc. / Redding Convention Bureau

Announcements

- **Mike Mangas** gave us a sunshine report about **Dave West**. He's been in the hospital with back problems but is home recovering now.
- **Kristi Davis** announced that this year's Lobster Feed will take place on October 15th, details to follow.
- **Jeff Avery** announced that our new incoming exchange student, **Mathilde**, will arrive at the Redding Airport next Wednesday at 3:55 pm. We're encouraged to turn out to welcome her to Redding.
- **Lisa Jeter** let us know that there are 4 extra tickets left for the Giants game in September. If you're interested in going, please see **Lisa**.



Congrats to **Leslie Williem** on the presentation of her blue badge



Veterans' Recognition Plaque

President Ray reminded us about this very important plaque which will be displayed at each of our first-of-the-month meetings. This plaque, which began in 2012, annually recognizes one of our own Redding Rotary veterans. Those honored to-date are:

- 2012 - **Ray Williams**
- 2013 - **Rush Blodget**
- 2014 - **Bob Dicker**
- 2015 - **Rudy Balma**
-

The inscription on the top of the plaque reads:

"In deep appreciation of your courageous and unselfish service provided to the citizens of the United States in the quest for liberty, freedom and self-determination.

Your service has been of the highest order, you have inspired others to move forward in a just cause and, by your actions and example, we have become a nation disposed to compassion, justice, and generosity."

Recognitions

- **Kurt Starman** was recognized for gaining a new daughter in law, and for buying a new vehicle, \$100 to the club and \$100 to his Paul Harris

Another Paul Harris Fellow

Many thanks to **Ed Rullman** for his continued support of the Rotary Foundation by earning yet another Paul Harris, and doing so in honor of his son Bradley Rullman. Presentation was made last week, but we get to say "thank you" to **Ed and Bradley** this week!



Bringing it back! The Card Game fund raiser is back again this year, the first contestant - **Dave Dennis**

Program - Cancer Sniffing Dogs



Program presenter and dog trainer
Dina Zaphiris

Mike Mangas introduced our program today, about how dogs are being trained locally to detect cancer. **Dina Zaphiris**, who is based in Chico, gave a very interesting and informative program about work she is doing in this field.

Dina has been in the forefront of medical scent detection training and has trained the dogs used for two federally funded studies. In 2003 she assisted in dog training 5 dogs to detect early stage lung and breast cancer with 99% accuracy (sensitivity). The study is published in the Journal of Integrative Cancer Therapies.

In 2012 Dina was hired to train 9 more dogs to detect ovarian cancer. This study is currently undergoing peer review and analysis for publication. Dina also trained 10 dogs to detect urinary tract infections in disabled people. The dogs are trained to detect E.coli, the bacteria that causes a common type of UTI. Disabled people often die from urinary tract infections because of catheter use and the lack of physical sensation. They have no warning signs. Now, the dogs can alert their partners that something is wrong.

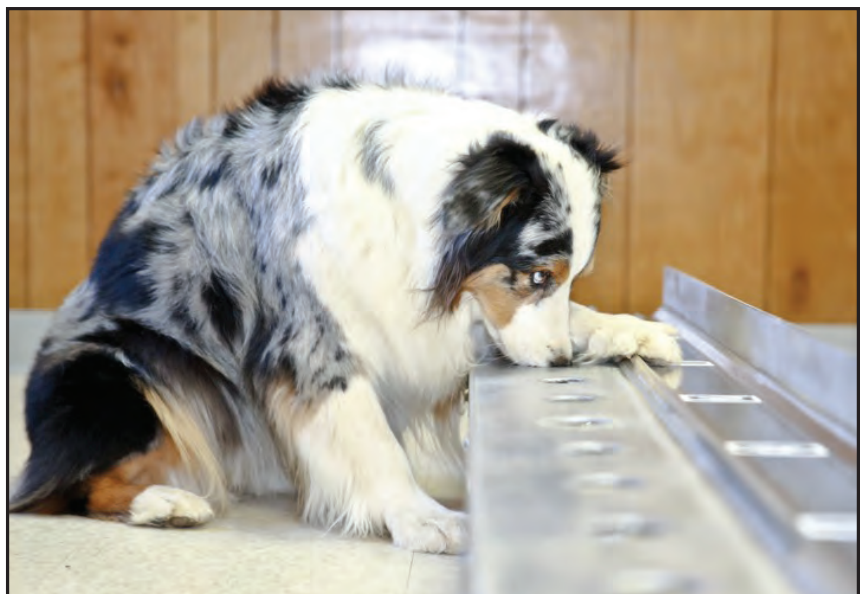
People generally don't understand how powerful a tool these cancer-scenting dogs are. Not only are they 98% accurate, but they're also capable of early detection. Radiography (X-Ray) under diagnoses cancer, where the MRI over-diagnoses, or gives false positives, resulting in biopsy and unnecessary surgeries.

One of the more interesting parts of the presentation was an explanation of the power of the canine nose. One example **Dina** gave was comparing how a human can detect a particular perfume in average-sized room, whereas a dog can detect that same perfume in a space the size of a stadium.

There is international interest in this research and the hope is that teams from around the world will come to Chico to learn how to train dogs in their respected countries.

Dina also spoke about the long-time relationship of humans and their dogs. In addition to things that we currently recognize that dogs do for humans, like herding, hunting, tracking, guarding, etc., there is some fascinating history about the human race that we owe to dogs. It's believed that because dogs assisted early humans with tracking, killing, and guarding such prey as woolly mammoths, humans were able to thrive and develop.

The unfortunate message in today's program is that this ground breaking work is still limited to the research phase and has not been approved by the FDA yet. We're all hoping that changes soon.



One of **Dina's** dogs giving a "positive" response that cancer has been detected

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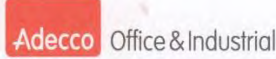
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