



Rotary Club of Santa Rosa West

Bulletin for November 12, 2007

Global Warming with Fred Zmarzly, Engineer in the Science of Heat Transfer

By Anne Abrams

Preliminaries

President Fred Zmarzly welcomed everyone to the meeting at St. Rose and thanked the following Rotarians for this weeks meeting:
 Cashier: Bob Zeni,
 Set-up: Dale Sipe,
 Greeter: Bill Dodson,
 Tickets: Ginny Pitts,
 Rotary Moment: Harry Rubins,
 Photos: Pam Davis,
 Bulletin: Anne Abrams,
 Program: David Wattell.

The Pledge: **Tarina Hall** lead us in the salute to our flag on Veteran's Day.

The Rotary Moment: **Harry Rubins** lead us in a brief moment of silence for all of the many veterans' who have served our country over generations and we remember especially those veterans in our own club and those close to our hearts and in our memories. And for once the club really was silent for several moments of reflection.

Visiting Rotarians and Guests: We were introduced to just one Rotary visitor today **Larry Miano**. **Marvin Hyman** introduced his daughter **Dori DeVall** and New Ladies Boutique owner, **Deborah Cali**. **Deborah** is a former preschool teacher at the Multi-Cultural Center.

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Coming Up:

11/19 - Artrails with Jewel Kishmirian, Painter

11/26 - Pam Chanter, "Rotary in Peru"

12/3 - Lisa Longhearst (Avalon Assisted Living)

12/10 - Jeff Gilman, SR Rescue Mission

12/17 - Michael Frank, SR Asst City Manager

12/24 - Dark

12/31 - Dark

Announcements and Such:

Fred Zmarzly announced several Birthdays: **Roger Olson** on 11/12, **Bill Fisher** 11/11, and **Janet** lead us in a birthday song for Susan Nowacki whose birthday is today! Happy Birthday all.

Anne Abrams was recognized for her 11th anniversary as a member of the club, **Susan Nowacki** for 8 years in the club, and **Will Richards** for his one-year anniversary.

Fred Zmarzly reminded those who are attending the District 5130 Meeting on Thursday to be at the Sheraton at 745 Baywood, Petaluma for a delicious meal and fellowship with members around the district.

The Foundation Dinner (South) will be announced at a later time by **Harry Rubins**. It will be at the Friedman Center in January.

There is a board meeting this Tuesday at the usual place and time.

Fred Zmarzly has received a new copy of the Rotary Procedures Manual with By-laws if you need to review it.

There is a new roster; please note **Janet Coddling's** new address. She has sold her house to her son and she and Rene are living in Sebastopol

Pam Davis brought baskets for Silent Auction items for the Crab Feed, so please help yourself to one or ask Pam if you need one.

One generous Rotary Member, **Ken Dansie** was recognized for contributing to the live auction two major items:

1) 6 nights and 7 Days on Bermuda's south shore and a picturesque Pompano house with dramatic and intimate views of the shoreline, 2) a 1 week vacation at a log home in the Smokey Mountains not far from Nashville. Thank you **Ken!**

Pete LaMonica, Crab Feed Chairperson, announced tickets would be available next week. Also for \$75 you may buy business card sized announcements for \$75 in the Crab Feed program. Let **Pete** know if you want either a table or an ad.



Our Holiday Party at **Susan Nowacki's** home is on Sunday, December 9, 2007 from 5:00-8:00 PM. Please bring an appetizer or dessert and a bottle of wine or other beverage to share. The address is 3734 Skyfarm Drive, Santa Rosa. Take Fountaingrove Parkway to Thomas Lake Harris Drive. Go one mile to Skyfarm, go up the hill and it's the 4th house on the right. Carpool if you can!! It is steep so wear comfortable shoes.

Recognition

Bob Reinking: fined \$20 for one going to a Vet's Day Parade in Petaluma and for celebrating his birthday by visiting Limerick, Ireland in the company of four women. (**Mike** says he tried that and ended up in court.)

Janet Coddling was recognized for pulling up roots and moving to Sebastopol where pesticides aren't allowed, hybrid cars are highly favored, and where she gets a good deal on a rental while a friend is in Hawaii for a year. Something about a doggie in the pool.....not Janet's.



Ken Dansie was fined \$10 to retrieve a photo of **Ken** with a hat and a woman on his arm. \$10 was exchanged to keep the photo off the Internet.

Carson Mitchell was asked to tell us something of his gadabouts (like a dentist and a root canal to get him to tell) He can't recall and was fined \$10 for sparing us the hearing of a good limerick. He forked over a few ones which Mike called "stripper money".



Raffle

Jim Hinton won a chance at the \$300 raffle this week but was not lucky at marbles. **John Withers** won the wine with the correct ticket number.

Program: Global Warming with Fred Zmarzly

Fred talked briefly about his work as an engineer with "heat transfer" issues with NASA Space Agency, which qualifies him as an expert on global warming, the topic of the day.

Fred defines Global Warming as the increased global temperature as measured near the earth's surface and the oceans that has been observed in recent decades. Since 1900, the average global temperature has increased by 1.3°F. That equates to 100th of a degree per year.



Greenhouse Gases make up just 1% of the atmosphere. They contribute to the warming of earth's atmosphere by not allowing heat to escape. Water Vapor is the largest of these contributing ½ of greenhouse gasses. Others are carbon dioxide at 380 parts per million, nitrogen at .038%, methane at .005%, and others at smaller amounts. These gases have strength in concentration; they absorb sun's energy and warm the earth. Nitrogen and oxygen are completely transparent to the sunlight. If not for greenhouse gases it would be 20-30% cooler so a little bit is very good for Earth and too much would make our planet too hot. It is 700-800 degrees on Venus for example. Greenhouse gases are produced by nature and by activities of mankind.

American public learning about Global Warming comes from journalists and politicians largely and not scientists. The role of journalists in the last few years has changed. Journalists in the past related facts to the public, but now this has changed with competition of the Internet. Now their job is to write an interesting story, not necessarily to educate the American Public. Articles on complex subjects offer often just a piece of the picture not the entire picture.

Examples of Global Warming do not reflect the accurate picture to the public reading audience and frequently portray mankind as the main cause of Global Warming. A story about Oyster farming in Alaska in natural beds in the sea in Alaska infers that GW and mankind have caused an increase in warmer waters from 54 to 57 degrees. However it is really caused by natural shifts in oceans currents, which are always changing. A story about St Louis attributes "hottest 10 years on record" for that area to Global Warming.

However there are weather fluctuations and statistically averages don't apply in every instance. Other areas might experience colder than usual temperatures. Another example of how global warming is portrayed by media is two pictures of glaciers in Alaska one showing half the snow gone and another 65 years previous image showing snow-covered peaks. What we are seeing are air currents/jet streams moving air around causing temperatures to vary.

So is climate change inevitable and is their global warming? Yes. But it is not due to human activity as so often portrayed in the news. Yes, we can influence climate but Mother Nature is the main contributor. America's "can do" attitude contributes to our feeling that we can change anything and influence the weather. Other cultures accept "mother nature" influences more readily. Some of the ideas proposed are good things to do, not because of global warming, but because we are running out of fuel.

Other considerations are that "spin" of the Earth on its axis evens out the temperatures. Cloud coverage determines warmth from the sun. Molten rock and iron moves within Earth at different rates from the spin of the earth. This affects the Earth giving it its magnetism. Eventually the poles will reverse causing migrating birds to fly the wrong way.

Fires burning human waste in India and China are a concern for the amount of residue of carbon particles it puts into the atmosphere. Fred referred briefly to NASA Physicist, James Hanson who is concerned about the levels of carbon in the atmosphere. For an article on James Hanson see:
<http://www.nytimes.com/2006/01/29/science/earth/29climate.html>

Climate change is not constant. The sun's output is not constant but increasing slightly. Over the evolution of suns and stars, in 5 billion years the sun will grow in diameter and turn red, engulfing the earth. Thus the sun could be a cause of Global Warming. (*Gee, I feel better already, Fred*). There are several things that could cause the Earth to heat and contribute to Global Warming.

10,000 years ago North America was covered with mile-thick glaciers. Sea levels dropped and Asia and Alaska were connected, allowing migration from Asia to North and South America. Glaciers receded leaving the Great Lakes as the largest source of fresh water.

The study of Global Warming is complex and President Bush has been criticized for not doing enough. But the president and NASA have been studying this complex issue for several years in hopes that we might be able to take action to assure quality life on planet Earth.

Your Bulletin Reporter:

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Your Bulletin Editor:

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