



The Rotary Club of Cary

Club Chartered June 18, 1964



“The Friendliest Club in District 7710”

Tuesday’s at 12:30pm at 430 St. Andrews Ln Cary, NC

Web: www.thecaryrotaryclub.org Club # 6093



August 9, 2019

Upcoming Programs And Events

August 20th

Retired Justice Bob Orr
Redistricting &
College Sports

August 27th

Jerry Miller
Pen and Ink Tour
Of Cary

September 3rd

Blake Johnson
Park Ranger
US Army Corp. of
Engineers

September 10th

Richard Linton, PhD
NCSU Dean of College
of Agriculture and Life
Sciences

September 17th

Tony Moody, MD, MPH
Associate Professor of
Immunology at Duke

Next Week at Rotary.....

Marie Howard, District Governor of District 7710 will be our speaker so please plan to attend and show your support. She is a member of the Clayton Rotary Club and will tell us more about her Bigger, Better, Bolder plans she has for the District this year.



What Happened at Rotary.....



President Reggie Scales called the meeting to order and welcomed all to the Friendliest Club in District 7710. He then called on C.E. Willie to lead us in the prayer, pledge and the singing of God Bless America and then called on Becky Miller to introduce guests which included a familiar face, Bert Magee a guest of Paul Sausman today. There were no visiting Rotarians today.

President Scales asked for the members to join him in a moment of silence in the wake of the shootings around the country. He then welcomed back Paul Wasylkevych to the club after having been out for some back surgery recently. He then called on Bob Griffin to remind all club member that the new member incentive program is still in place and we will be drawing names of members every two months who bring a guest to Rotary. Just like last year those winners will receive a credit to purchase some Rotary “swag” out of the catalog and then at the end of the year we will draw a winner that will be awarded a \$100 donation in their name to the Rotary Foundation. Reggie also reminded everyone about the upcoming training event on Sept. 28th in Durham for the Rotary Leadership Institute. It’s a great way to learn more about Rotary and the club will reimburse you for attending the training. He also passed along that Dorothy’s Schmelzeis husband’s memorial service will be held next Tuesday at 3pm at Christ the King Church with a reception following at MacGregor Country Club. He encouraged all members to come next week and show our support the Marie Howard our District Governor and since our sergeant at arms was not in attendance he fined all those that have yet to spend some quality time with their family this summer and encouraged all to enjoy the beauty all around us. He then called on Bruce Howell to introduce our speaker today, Tom Sylvester.



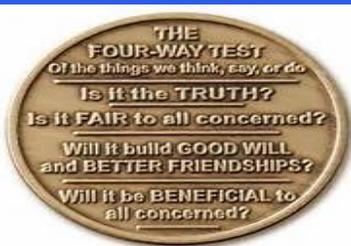


Tom Sylvester was a 1982 graduate of the US Air Force Academy with a degree in Astronautics and Computer Science. He worked as a "rocket scientist" for the Air Force's Ballistic Missile Office and then later as a staff office in Washington DC where he headed the Air Force's Parts Standardization Program. Tom has over 17,000 hours of flying and is an airline pilot. He holds a dozen software copyrights and has written four novels and is an avid guitarist. Tom's topic today is the, History of GPS.

Tom provided a brief overview of his background which for the majority of his career was very regimented he shared given his military and pilot background but he got involved in making some music videos in Nashville which enabled him to utilize his artistic side of the brain and that led him to meet a guy by the name of Dave Gianakos who had built a model of the Apollo 11 on its launch pad from recycled materials. He was in the process of building

a replica of the first weather satellite which was built in 1962. He asked Dave how he got the plans for it and said from the guy who built it, Thomas Haig, who at the time was in his early 90's. Tom thought how cool would it be to interview and hear this guys story and so Dave agreed to set up a meeting which led to his first book entitled, The Satellite Men.

Later he would connect with Aloysius Casey who lead him down the path of writing about the history of GPS in a book entitled, "The Lonely Halls Meeting" as it was in the Pentagon building in September of 1973 with really no one around where Brad Parkinson and a group of retired military guys sketched out the plans for a global positioning device. Brad was a 1957 graduate of the Naval Academy and graduated first in his class and could easily be called the smartest guy in any room he walked into and is considered the Father of GPS. Tom thought how cool would it be to have this group recognized for this amazing technology as most people have never heard their story and yet our daily lives and many things we take for granted are the direct result of this invention. So as he heard their story he was fascinated by the many technical challenges that had to overcome. With no budget they set out to figure out how to determine the center of the Earth as that served as the basis for everything. They encountered issues with getting the atomic clock to be accurate down to 2 billionths of a second. They also had to account for the wobble of the Earth that happens about every 400 days or so and could cause the GPS to off by as much as 120 yards. They also has to take into account Einstein's General and Special Relativity theory before they launched their satellites into space as that would impact their location. Most interesting to him he shared was how they dealt with the ionosphere which would impact the frequency band of transmission and so they decided to send two signals down and then they could measure the distance between the two and make adjustments. So for this group to be able to overcome these obstacles was quite a feat. So in the beginning there were 24 satellites sent up 12,500 miles in space but now there are about 33 as you need at a minimum of 4 at all times. These satellites were originally about 840 lbs. but the new ones are the size of a school bus and more powerful and secure and their lifetime is about 25-30 years after which they are jettied about 20 miles higher into what he referred to as the garbage orbit. The GPS system is owned by the US Military and is the world standard and is open channel so most countries use it. When the first cell phone was created the chip cost about \$200,000 but now the ones in your phone probably cost about \$1.50 so we have come along way. After several other questions Krista Lemery thanked the speaker and Bill Zitek led us out with the Four Way Test.



Cary Rotary Club Annual Charity Golf Tournament

Benefiting: Wake Tech's Fostering Bright Futures & The Cary Rotary Charitable Foundation



Pork Chop with Rice
and Chef's Choice of
Vegetables

Click here
to register or sponsor:
<https://birdeasepro.com/>
caryrotarygolf/

Event Contact

Kent Thompson
Email: kthompson134@nc.rr.com
Phone: 919-630-4001

Event Times

Monday, October 14, 2019

Registration Start Time	11:00 AM
Event Start Time	12:00 PM
Dinner Start Time	05:00 PM

Member News and Notes



The next Rotary Leadership Institute training will take place on Saturday, September 28 in Durham from 9:00 - 4:30. More details and registration can be found on the site: rli33.org

Proposing a New Rotarian for

The Rotary Club of Cary

It's as easy as 1-2-3

1. **Invite**
invite prospective members to be your guest at a regularly scheduled club meeting. Following the meeting they will receive information about Rotary and the Rotary Club of Cary.
2. **Propose**
As their sponsor, follow up and determine their interest and if they and the club are a good fit. If so, propose them for membership using the one-page Membership Proposal Form.
3. **Mentor**
After board approval and member acceptance, coordinate a time to be inducted to get their Rotary pin and Red Badge. As the sponsor, it is important that you mentor and guide them through the "Blue-sheet" onboarding process to get their permanent Blue Badge.



Jesse Sorrell
August 11th



Koka Booth
August 12th



Scott Schneider
August 15th



Drew Rufty
August 16th



Tim & Michelle
Naehring
August 13th



Hal & Gail
Jordan
August 15th



Rod & Terry
Brooks
August 16th



John Halada
1 Year
Aug. 14th

MAKE UP OPPORTUNITIES

Monday		
Cary Central	Mayton Inn	7:00 AM
Tuesday		
Apex Sunrise	MacGregor Downs	7:15 AM
Morrisville	Prestonwood CC	12:00 PM
Wednesday		
Cary MacGregor	MacGregor Downs	12:30 PM
Holly Springs	Devils Ridge	7:30 AM
Thursday		
Cary Kildaire	Mayton Inn	6:15 PM
Apex Rotary	Carabba's Grill	12:30 PM
Friday		
Cary Page	MacGregor Downs	7:00 AM

Online Make-Ups: www.rotaryclubone.org

Choose a program, review it and then print out the make up slip and turn in to secretary Kent Thompson at your next visit. You can also gain make-ups from every hour of Rotary service you give so don't forget to email Kent if you have a committee meeting or volunteer for a service project.



**THE ROTARY CLUB OF CARY
2019-2020
Officers & Board Chairs**

President	Reggie Scales
President Elect	Scott Schneider
Vice President	Paul Wasykewych
Secretary	Kent Thompson
Treasurer	Carolyn Wasdell
iPast President	Chris Fleming
Sergeant-At-Arms	Brian Reid

Club Board Chairs

Membership Chair	Bob Moore
Club Services	Renee Spell
Vocational Services	Bill Fletcher
International Services	Rod Brooks
Community Services	TBA
Rotary Foundation	Mary Kamm
Programs	Ben Shivar

Family of Rotary

Do you know of a fellow Rotarian member that might be dealing with an illness or who has experienced a death in their family?

**If so contact Renee Spell
She can send flowers or a donation**

**Email Renee at
sewnup01@bellsouth.net**

To update your picture or include your birthday, or anniversary please access DACdb by clicking on the link below. If you need help please contact Kent Thompson



Rotary Club of Cary Committee Meetings

Memory Café	Every 3rd Tues. @ 4pm	Senior Center
Program	1st Tues @ 1:30	After Club Meeting
Vocational	4th Tuesday @ 1:30	After Club Meeting
International	TBD	
Membership	2nd Tuesday @ 1:45	After Club Meeting
Community Services	TBD	
Club Services	TBD	
Foundation	TBD	
Board Meeting	1st Wed @ 8am	Dorcas



Ideas for the newsletter or announcements should be emailed to ksain@bbandt.com