



Asheboro Rotary Club
District 7690—Area 8
Club # 6052

December 2014 Newsletter

Programs & Club Events ~

Special Events are listed below in blue. All other dates are club meetings.

December 2 — Polio Plus Program

We're so close to eradicating polio completely! We will learn more about how Rotary, in partnership with the Bill Gates Foundation, has made great strides to ending this disease once and for all.

December 9 — Fusion 3 Design “Digital Fabrication Solutions”

We will have someone here from Fusion 3 Design - Digital Fabrication Solutions - demonstrating how a 3D printer works. You do not want to miss this!

December 16 — Providence Grove “Sounds of the Holiday”

The choral ensemble from Providence Grove High School will entertain us with the sounds of the holidays. These students have an amazing talent & we always enjoy listening to them!

December 23 — NO MEETING—Merry Christmas!

December 30—NO MEETING—Happy New Year!

District & RI Events ~

Rotary Leadership Institute RLI - A Dynamic, Interactive & Fun Event for New Rotarians and Prospective & Existing Rotary Club Leaders. Network, Share and Learn with the “Do’ers of Rotary!” Go to www.rli33.org for details and registration. Upcoming sessions:

- ⇒ January 10th in Cary
- ⇒ February 14th in Mooresville
- ⇒ February 28th in Thomasville

Birthdays & Anniversaries ~

Member Birthdays

12/07—Diane Frost

12/09—Jute Ramsey

12/19—Russ Williams

Member Anniversaries

12/11—Joyce Wolford 5 Years

12/15—Duffy Johnson 19 Years

12/16—James Gouty 9 Years

Wedding Anniversaries

12/01 Dale & Regena Lambert 30 Years

12/19 George & Mazie Fleetwood 49 Years

12/27 Candie & Joseph Rudzinski 44 Years

12/27 John & Cathy Grey 28 Years

CLUB OFFICERS:

President
James Gouty
Secretary/Pres-Elect
John Grey
Vice President
Stan Beck
Treasurer
John Revell
Sergeant-At-Arms
Elizabeth Mitchell

Directors
Talmadge Baker
Linda Cranford
Kenny Kidd
Al LaPrade

Exec. Secretary
Christie Smith
Exec. Treasurer
Joyce Wolford

JOIN US:

Weekly - Tuesday
12:00 noon
Pinewood Country
Club Primary Business
Address

CONTACT US:

PO Box 1281
Asheboro, NC 27204-1281

VISIT US ON THE WEB:

www.AsheboroRotary.com

Rotary



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December 2nd—Polio Plus Program

The program today is Polio Plus day, and the speakers are Elbert Lassiter, our chairman of our Polio Campaign introduced by Jaci Betts.

Did you ever think we would eliminate Polio in India? Well we did! Elbert showed videos and stated we are so close to making history and eradicating polio from the world. This film is shown ending polio from the world. The website is endpolionow.org.

There are only three countries left with polio, Nigeria, Afghanistan, and Pakistan. Pakistan has had a spike in cases because of the unrest and some of the work has been stopped. In June they started again to give the polio drops. Vaccination teams are unstoppable and deep working in spite of the danger in these countries. The team members often have a family member with the disease. We are 100% sure we will overcome the problems and beat this disease. We need to get the rest of the job done.

The second film showed we have reduced polio by 99% globally!

Elbert shared that there are 416 cases of polio in the world year to date. 306 this year worldwide. Other cases are 94% are in these 3 countries. These 19 cases, 10 are contributed to crossing the borders. Only 9 cases outside these three countries. Pakistan has the largest case numbers. October 21 was Polio Day and Rotary gave 44 Mil dollars to help. 18.5 Mil are for these 3 countries. 9.5 million are for the countries that border those countries and 10 million are for countries like India to keep it down and the other 6.5 million is for research. Rotary got involved in 1968. Classes in his church talk about how you can help the world and most people think they don't have the gifts to make a difference. It is great to be in Rotary to be involved in an organization that does make a difference in the world!

Jaci Betts then shared her trip to India and stated how proud she is to be a Rotarian. Thank you for all your help. This is the largest effort in the world and so successful. In India, there was a lot of conflict about being able to beat this disease in India, due to large population, remote areas, unsanitary conditions, etc. In 1995 India decided they were going to beat this so Rotary and the World Health Organization and several other organizations came together to attack this and they were very successful. In this year, India celebrated not having a single case for 3 years. We went to help celebrate this for this country this year. There were so many celebrations all over to honor this. Now our challenge is to continue this ability to change children's lives. It is wonderful to think that this occurred in our lifetimes. To beat polio in this lifetime. We are the hands and heart of Rotary. We can bring about help and hope in India. People with disabilities in any country are a burden on society. It is an affliction for the families and for the communities and for society. India is a very crowded country. There are people, and cars, and camels, and cows, and so many people in the streets. We witnessed Rotary at work. We went to a school that was sponsored by Rotary and that was in a poor neighborhood and Rotary provided that school. We also went to a place where feet were constructed for people with polio. 1.3 million people get care at this clinic. It cost \$35 for folks for a prosthesis which can cost \$8000 for people in America. We went to a hospital where they have a whole ward where they treat just this, and have a sign over their beds, "POLIO". Some signs in the Hospital, "DO NOT SPIT", "CAREFUL OF PICKPOCKETS", etc. 2 drops are given and then you paint the finger of the child to show they have been vaccinated. You set out in a community where people are not so accepting of this kind of thing. They broadcast this to let the people know where to go to get this done. We went the next day to the children door to door to give them the vaccine. Our team went out with the World Health Organization. We gathered a crowd where ever we went and people thought us very interesting. The women were very accepting but the men were very suspicious. In one home, a man was holding onto the child and the mother was trying to get this child to us and he took off his shoe, and threw it at us. As we were invited to the Chief's home, a young man came and said you are trying to kill our children and we still have to educate them that this is to heal so that they can overcome their suspicions. Conditions are very unsanitary. Open sewage can be seen and we had to walk through it to administer the vaccine. Children said 2, 2 drops is the only thing that will prevent. In the Chief's home, we were invited to tea and shown we are friendly and not there to hurt. The people there are very happy with this celebration and if we can do it in India, we can do it in these other 3 countries.

Please contribute to this cause so we can totally beat this disease. Please make a contribution to Polio Plus today! \$398 head start on our Polio Plus for the year from our attendance at Sandler Training Polio Fundraiser.

Rotary



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December 9th—Fusion 3 Fusion Design “Digital Fabrication Solutions”

The Program speaker today is Chris Padgett. Chris is the founder and CEO of Fusion 3 Designs. Chris states that a 3D printer is rather like a milling machine except with fuse fabrication. This printer we are watching has a very small hot glue gun that is moved around by robotics. The printer is provided with a set of instructions and it moves around and creates the item per specifications. Chris shared with us “I saw this in school and thought that this was so cool, and became so interested in it and thought that this had a real business potential”.

There is low cost and a real consumer device, but it was not very powerful and not very reliable for consumer use. Other companies build 3D printers that range from \$50,000 up to \$2 million. You can do all sorts of cool stuff with these printers, but at the mid-range level you can still do a lot. This machine can do 90% of the \$50,000 machine for about \$4,000, which focus on the small to medium sized businesses. They have sold to some of the smaller high tech businesses and also the universities such as High Point University. While the prototype is being created, you can check fit and function. Without the 3D printer, you send your specifications to a machine shop which can make 2,000-3,000 units, takes 2 to 6 weeks and costs \$5,000 to \$80,000. If you have a 3D printer, you can really cut that down.

Q&A:

How do you tell it what to do? Basically, you design your part in your computer with CAD software. Next you feed that into a second file with instructions to tell the printer exactly what to do.

How do you know how strong it is going to be? Strength of the 3D parts is fairly complicated. The weak point is generally layer to layer bonding. If you have a failure, you go back and increase the density.

How long does it take to program? It generally takes about a minute to load. I did this when I arrived.

Suppose I had a flower? Can you scan and replicate it? Yes, you can scan and replicate it. There are several steps in between. What you can do with this technology is build a temp mold with plastic and burn the plastic around it and burn the mold around it. There are some intricacies as to how it is done. There are some things done in the medical world as to prosthetics such as hands and those are done in plastics. In The consumer market, it is a cool toy, so until someone figures out how to make it as useful as the word processor it remains.

How many employees? I have 6 employees and located in Greensboro with a few thousand feet of warehouse at present. We are considering a possible move in January.

What types of materials are used? There are a number of materials you can use. Thermoplastics, nylon, etc. All of the black parts on this machine are made from the 3D printer. We are talking hundreds of thousands of dollars in parts savings. Designs stay flexible. We can go back in and rethink the design and remake it, cutting cost and speed up processing. This machine can maintain the speed you need and maintain the quality and reliability. We can run 16 jobs and maintain the quality. We have 3 machines with 3,500 hrs runtime to maintain quality.

Is your printer patented? We do actually have a patent on some of the aspects of this machine. This has been around since the 1980's, but we have a patent on some of it.

3D printers will never completely replace the metal machine shop, but it will help it. It will never replace injections molding, but if you need 10 or 100 or 1,000 of something created, then this will be pretty cost competitive. Chris feels like there is a huge market for this.

After our meeting we were able to go up front to view the beautiful pink vase-like object being made during the meeting.