



### Club Meeting

Oak Ridge  
Meets at DoubleTree by Hilton  
215 S. Illinois Avenue  
Oak Ridge, TN 37830  
Time: Thursday at 12:00 PM

Oaktarian 24-25 Vol  
LXXV, No. 36



### THE Rotary Club of Oak Ridge



### Club Officers



J.R. Hertwig  
President



Wendie Aurin  
Club Membership  
Chair  
President-Elect



Emily Rice  
President-Nominee  
Club Service Chair  
Community Service  
Chair



Judy Stone Wilson  
Club Executive  
Secretary



Cynthia S. Jeffers  
Treasurer



Chris Copelan  
Public Image Chair



Jeff Phillips  
Vice President



Elaine M. Bunick  
Club Rotary  
Foundation Chair



Nicole Eckert  
Club Youth Services  
Chair



Mark S. Watson  
Past President



Todd W. Bergener  
Vocational Service  
Chair

### Special Announcements

#### Interact TORCH Collection

**Interact TORCH collection**

- Help Interact & FCCLA  
Collect items for TORCH  
Bring items to the  
counseling office.
- Tooth brushes  
Toothpaste  
Deodorant
- Packaged Snacks
- New towels  
New Socks
- We will collect items until  
3/28/25  
Thank you for your help!

**Please bring new items only!!**

### Upcoming Events

#### Club Events

- More to come!

#### District Events

- **May 1st:** District Golf Tournament - Chattanooga - [Learn more.](#)
- **May 2-3rd** - Multi-District Conference - [Learn More](#)
- **May 17th** - Club Leadership Learning Assembly - Location TBA

#### Community Events

- **April 24:** [Emory Valley Center Compassion Fundraiser](#)





[David Rankin](#)  
Club Youth  
Exchange Officer



[Curtis Scott Jamison](#)  
iPast President

## Condolences

Long-time member and currently honorary member Jack Yaggi has passed away. Condolences to his daughter Jenifer Yaggi Campbell and their family and friends.

Condolences are also extended to Cyndi Jeffers and family on the recent loss of her brother.

## Last Week's Program

### Andrea Schneibel: Type One Energy

Andrea Schneibel, Communications Manager, Type One Energy was our speaker on March 20.

Type One Energy (T1E), was founded in 2019. They have sixty employees in four offices - Knoxville is the headquarters. Their fusion energy research and development is well-funded at more than \$82 M after receiving their first round of venture capital in 2023 from an investor syndicate that includes Bill Gates.

Features providing confidence of T1E's success in fusion realization include: (1) By-passing much of the experimental work, T1E has used supercomputing simulations at Oak Ridge National Laboratory to rapidly determine the best fusion machine design.

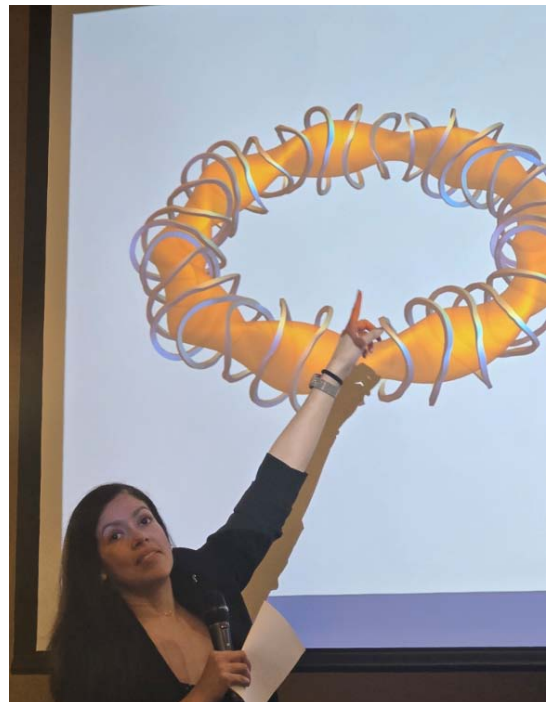
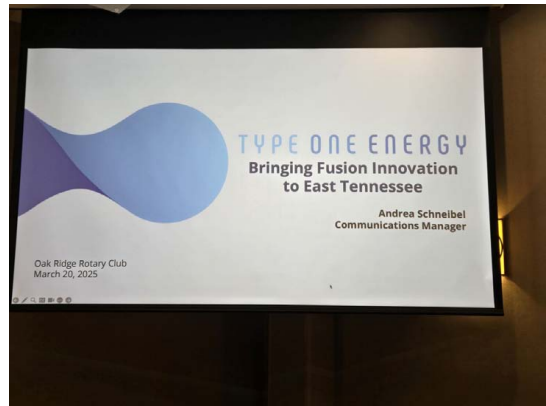
(2) T1E is partnering with TVA to take advantage of their existing energy infrastructure and power delivery expertise to shorten their timeline to commercialization. T1E is the first fusion company to secure an end customer agreement (out of 30 companies).

Andrea said nuclear energy is like a coin with two sides: one side is fission, when atoms split, the released energy is harnessed by our current nuclear plants to provide electricity - but fusion is the opposite. Fusing atoms also releases energy. So far, we have nuclear fission plants generating electricity, but fusion power has eluded us for 75 years. The byproducts of fusion reactions are very safe, whereas nuclear fission releases long-lasting radioactive byproducts.

Fusion is the main energy reaction powering the sun which generates temperatures of 15 million degrees C. T1E has been able to create plasmas as hot or hotter than the sun. But the plasma must generate the triple product: producing plasma hot enough, with the right density, and sustainably. When something that hot is generated, machine durability is critical, so new materials must be developed to survive such harsh conditions.

T1E is using the stellarator strategy, which is a machine that confines and stabilizes the superheated plasma using twisted, complex magnetic coils to guide plasma reactions without relying on electric currents like other prospective fusion devices do.

To shorten the timeline to the triple product, the T1E team has completed more than 140,000 simulations on supercomputers at Oak Ridge National Laboratory. The simulations tell them which configurations of magnets will generate a sustainable fusion triple product. Without these simulations, T1E staff would have had to rely on laborious, lengthy, and costly experiments to come up with improved fusion device designs.



## Invocation Schedule

March 27th Elaine Bunick

April 3rd David Carr

April 10th Maria Catron

April 17th Linda Cloutier

April 24th Tom Connolly

### Upcoming Meetings

March 27th

[Commanding a Nuclear Submarine](#)

**Speaker:** Geoffrey DeBeauclair

**Subject:** Commanding a Nuclear Submarine

April 3rd

[Voices for a Safer TN](#)

**Speaker:** Todd Cruise

**Subject:** Voices for a Safer TN

April 10th

[AdvoKids](#)

**Speaker:** Mindy Wilson

**Subject:** AdvoKids

## Birthdays

No Birthdays this Week

## Anniversaries

Patricia D. Row

04-02-2015

10 Years

David Rankin

03-29-2018

7 Years

T1E's partner, TVA has decades of experience delivering energy to the real world. The prototype - Infinity One - will be located inside Bull Run Steam Plant. It will go online by 2029, but will not produce electricity.

Infinity Two — the Fusion Pilot Power Plant (350 MW)— will be built between 2029-2035. TVA will own the pilot. Investors will weigh in on the pilot location.

Andrea said science is no longer a show-stopper and that T1E is now addressing the engineering portion of the project. Several important research papers will be published the week of March 24. She said we need to think of these fusion devices as being directly pluggable into the electric grid.

For more information: [typeoneenergy.com](http://typeoneenergy.com)

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## This Week's Program

### **Geoff deBeauclair: Commanding A Nuclear Submarine**

Geoff deBeauclair was selected as the manager of the Office of Science Consolidated Service Center in February 2023. In this role he supervises approximately 300 federal and contractor employees, providing critical mission support services in personnel, finance, budget, procurement, property (personal and real), records management, emergency management, security, and financial assistance across DOE Office of Science field sites with a combined annual budget of over \$3 billion.

He was appointed to the Senior Executive Service and joined the Department of Energy (DOE) as Deputy Manager of the Oak Ridge Office / Integrated Support Center – Oak Ridge in May 2017. This organization combined with the Integrated Support Center – Chicago in October 2019 to become the Office of Science Consolidated Service Center.

Prior to joining DOE, Mr. deBeauclair served thirty years as a career nuclear submarine officer in the United States Navy, commanding the USS NEBRASKA, a nuclear-powered ballistic missile submarine, completing four strategic deterrent patrols. His final assignment was command of the Naval Undersea Warfare Center, Newport Division, leading the Navy's one-of-a-kind organization tasked with research, development, testing, evaluation, and engineering in support of the undersea enterprise. Responsible for a \$1 billion budget, he led a workforce of more than 5,000 scientists and engineers, consisting of both government employees and contractors, providing cutting edge technology to the fleet.

Mr. deBeauclair was born and raised in Detroit, Michigan. He graduated from the United States Naval Academy with a Bachelor of Science Degree in Aerospace Engineering and earned a Master of Science degree in Engineering Management from The Catholic University of America. He resides in Oak Ridge, Tennessee with his wife, Jaqkee. Geoff has a life-long passion for aviation and spends his free time flying as a private pilot.





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**WATER, SANITATION  
AND HYGIENE  
MONTH**

*"Water is life, and clean water means health."*

Audrey Hepburn

