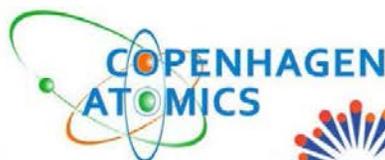
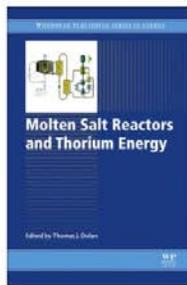




**Thorium Will Power The World**

## TEA Looking Forward to 2022, Supporting Nuclear Ammonia, Set TEA as your Amazon Smile Partner



CLEAN CORE THORIUM ENERGY



As we look forward to 2022, the Thorium Energy Alliance is excited to announce a few of the upcoming goals for next year:

**Thorium Conference 11** (October 2022, National Museum of Nuclear Science and History, Albuquerque, NM) It's been over 2 years since we've been able to hold an in-person conference and we are looking forward to hosting our TEAC11 at a great location again. More details to follow shortly as we plan the event, taking into account the new norms we find ourselves in. This conference will also host the unveiling of the **Thorium/MSRE/Alvin Weinberg Exhibit** within the Nuclear Museum. Pre-planning has already started on the exhibit but we will reach out to our Thorium Community for input as we get into the details. We will be posting updates on our website as well as ways to submit your ideas.

Professor Thomas Dolan has been hard at work updating the **2nd Ed. of Molten Salt Reactors and Thorium Energy** textbook manuscript. As we look through the progress made in this area since the first publication in 2016, we are astounded at the amount of effort being expended on research and development. It is humbling to see work being performed at multiple national labs, universities and private developers, putting in the tough hours and dollars towards a Thorium/MSR-powered future.

ANS 20.2 "**American National Standard Nuclear Safety Design Criteria and Functional Performance Requirements for Liquid-Fuel Molten Salt Reactor Nuclear Power Plants**" is on track to be completed, balloted and published in 2022. The original draft was started in 2015 and over these last few years the team has been able to reach many of the milestones of the standards process and is now in the final phases of completion. This will be an exceptionally important document for developers moving forward with design, siting, licensing, and ultimately completion of an MSR.

We will also be following closely the progress being made at such forward thinking partners such as **Clean Core Thorium Energy, Copenhagen Atomics, ThorCon, ACU/NEXT LAB, Nucleation Capital, national labs**, and multiple universities (far too many to list here). The Thorium and MSR research currently underway is providing much hope for the future.

The Thorium Energy Alliance has always kept a keen eye on **critical legislation** and how it can affect issues relating to Thorium, advanced nuclear development, and domestic power policy. We are still waiting to see the results from the 2020 Energy Act that directed congress to investigate non U-235 nuclear fuels, including Thorium. There will also be many opportunities in the upcoming Build Back Better legislation as more funding and emphasis is put upon decarbonizing our economy. Thorium-fueled MSRs and other advanced reactors will play an increasingly large role in providing the clean, abundant and safe power for generations to follow. These are exciting times indeed!

### Thorium Energy Alliance Supporting Nuclear Ammonia as Bridge to MSR

John Kutsch recently gave a talk at the Ammonia Energy Conference held in November to speak to the advantages in utilizing High-Temperature Advanced Reactors using the Thorium fuel cycle. This is the only logical pathway forward to provide the process heat needed for such industrial sectors like ammonia production. Thermal storage solutions will be a logical bridge to MSRs through the technology development needed to work through containment, pumping, salt storage, and provide relevant working data on heat flow characteristics, natural circulation, material and corrosion

redox, valves and fittings, heat exchangers, and power transport systems to name a few. The current data set for MSRs is minimal at best and could only be improved through real life models and systems.



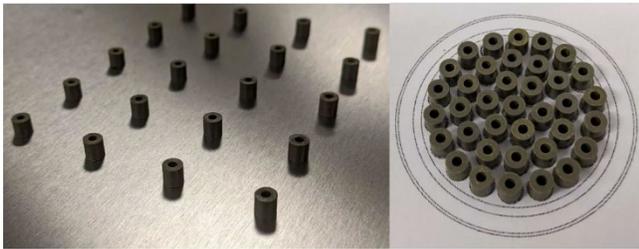
### Amazon Smile - Make TEA your Giving Partner

As we get into the holiday season and beyond, please consider making your Amazon purchases via the [Amazon Smile](#) site and select the Thorium Energy Alliance as your partnering group. It will be your same Amazon account, everything works the same, but TEA will receive a small percentage of your total money spent from Amazon. It's a great way to [leverage our group's purchasing power](#) to support the TEA at no cost to you. We've been a partnering Smile member for many years and have received a substantial amount, helping us work towards our goals of a Thorium Future.



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### CENTRUS ENERGY Partners with Clean Core Thorium, Pursuing Thorium/HALEU Fuel



James Conca recently reported in [Forbes](#) that Nuclear fuel supplier Centrus Energy Corporation and new innovative nuclear fuel designer Clean Core Thorium Energy are working together to develop the advanced nuclear fuel ANEEL by combining Th with HALEU.

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### Happy Holidays from the Thorium Energy Alliance!

We would like to wish everyone a safe and enjoyable holiday season and a very happy New Year! We are looking forward to working with you in 2022 to promote and utilize the myriad of benefits that Thorium offers.

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### Donate That Old Car!

The TEA has recently updated our donation program and is currently accepting cars, boats, RVs and whatever else you need gone. If you're tired of looking at that old car sitting in your garage, today's the day to put that old hunk of metal to good use. [Donate](#) it today to the Thorium Energy Alliance!

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**Thanks to all the support from members new and old, we strive to promote Thorium as the Fuel of the Future. Please consider making a contribution to promote Thorium!**

John Kutsch  
Executive Director

**Support the TEA**

