



AMY AUSTIN

Science Officer, Atomic Garage Movement, LLC

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Objective

To provide effective, safe, and affordable nuclear energy technology to scientists and governments to mitigate climate change and eradicate global energy poverty.

Education

2031 to Present:

University of Michigan, Nuclear Engineering & Radiological Sciences, PhD Student.

Nuclear chemistry engineering, fuel performance modeling / nuclear thermal propulsion rocketry.

- ◆ Advisor: Dr. Jeremy Smith

2022 to 2030:

Algonquin Central HS 2026 / University of Michigan, MS Chemical Engineering 2030.

- ◆ Thesis: Efficacy of a single fluid burn/breed cycle in Liquid Fluoride Thorium Reactor (LFTR) cores.
- ◆ Advisor: Dr. Todd Allen
- ◆ 2027 to 2030: Internship, Atomic Garage Movement, LLC. Initiated worldwide manufacturing processes for advanced LFTR design.

2019 to 2021:

M-STEM Academies, University of Michigan, M-Engin Academy.

- ◆ Established salt loop testing protocols for advanced LFTR breeder design.
- ◆ Mentor: Robert James, Nuclear Station Operator.

Honors and Awards

32 awards in several areas — applied sciences, physics, mathematics, chemistry, and athletics. The four awards that have defined my work and my life, and that I hold dear are:

- ◆ July 2032, **Winner of the first annual *The Lizzy Award*** for the best international contribution to protect the environment and advance human potential. For initiating the global proliferation of *Walking Leaf* nuclear reactors and fostering the adoption of atmospheric energy transmission technology.
- ◆ December 2030, ***May I Ask? Magazine's Co-Persons of the Year*** to the father–daughter team of Frank and Amy Austin. For their coordinated work in producing an advanced nuclear reactor *Walking Leaf*, made of a novel alloy, *Sartorium*.

- ◆ January 2028, **UNESCO Kalinga Prize** for popularizing science in the public interest. For the most impactful scientific public debate of the decade: Atomic Garage Movement versus Terrestrial Ecology Society over the renewal license of the North Rocky Point Nuclear Power Station (2027).
- ◆ February 2023, Second place prize winner, **Regeneron Science Talent Search** for STEM high school students. Category: Materials Science. Topic: Advanced protocols for shrink-fitting or brazing the joints of the ceramic turbine and metal shaft contemplated for advanced nuclear reactors.

Public Domain Contributions 2025 to present

- ◆ As the Science Officer for the Atomic Garage Movement, LLC, and in conjunction with University of Michigan's School of Nuclear Energy & Radiological Services, I was the principal author for papers and other mediums about scientific-based methodologies for building safe and affordable mini nuclear reactors. These are now collectively known as the Austin/Varm Protocols.
- ◆ 2029 to 2030, Fuel Acquisition & Transportation Protocols. HALEU kindling fuel and thorium blanket core loading procedures. Protocols for mixing and putting the fuels into the core's primary loop for a single burn/breed cycle.
- ◆ 2024 to 2026, Fuel Loop Testing. Core chemistry to achieve burn/breed cycles. Sartorium-fabricated circulatory design for plenum construction. Protocols for fabricating Sartorium based on thermodynamic objectives.

Note: Sartorium is patent-protected with a royalty fee of $\frac{1}{4}$ of 1 percent to any Atomic Garage Movement partners generating revenue from the alloy's commercial use. This income now represents 60 percent of AGM's annual operating budget and is anticipated to fully fund the organization within the next five years.

- ◆ Established the Atomic Garage Movement Strategic (AGM) World Leadership Initiative. Each AGM staff and/or board member must hold one additional leadership position at another innovative organization aligning with our interests. This initiative may be the most important project I've worked on due to its ability to shape energy policies that can be immediately implemented. The AGM representative's title in the Atomic Garage are indicated (in parenthesis) after their names:
 - Power Anywhere Anytime Foundation (2028 to present): Co-Founder, Hank Boudreaux (AGM Logistics). A consortium of private and public organizations advancing the technology of Atmospheric Energy Transmission as "The New Grid."
 - Sulabh International Social Service Organization, India (2024 to present): Board Member, Harshil Varm (AGM Quantitative Analyst - Quant for short). A 50-plus-year-old organization dedicated to public service working to achieve equitable sanitation and hygiene for all Indians. As part of its Clean India Campaign, it had built 1.5 million household toilets and was awarded the Gandhi Peace Prize.
 - World Nuclear Association (2030 to present): Board Member and Liaison with the American Nuclear Society, Amy Austin (AGM Science Officer). An organization that promotes a wider understanding of nuclear energy among key international influencers by producing authoritative information, developing common industry positions, and contributing to the energy debate.
 - Mothers for Nuclear (2027 to present): President for the State of Michigan Chapter. Becky Austin (AGM CFO). A group building a global community of support for clean energy.
 - Women in Nuclear Global (2025 to present): International Liaison, Joline Grassley (AGM Governmental & NGO Affairs). An organization open to all genders working professionally in various areas of nuclear energy and radiation applications.
 - N2N Path to Density International (2028 to present): Rhonda Mattingly, Co-Founder (AGM Strategic

Advisor). A group working to move the world along the dense fuel continuum as fast as possible. N2N means natural gas to nuclear energy

- C2N Conversion Association (2028 to present): Josh Manning (AGM Public Relations & Communication). The association repurposes closed coal plants to be re-opened and powered by *Walking Leaf* or other Small Modular Reactors.
- SpaceX (2021 to present): Stew Grassley, Advisory Board (AGM Nuclear Engineer & Co-Founder). An initiative to make humanity multi-planetary.
- ASM International (2021 to present): Frank Austin, Chairman Emeritus (AGM Co-Founder & Chairman). ASM stands for the American Society for Metals. The organization's mission is to gather, process, and disseminate materials information globally, through education, networking, and professional development.

Public Communication Initiative 2029 to 2031.

- ♦ Atomic Garage Movement 50 City World Tour to educate political leaders, academia, media, and interested citizens on the risk-to-benefit comparisons of adopting Walking Leaf and other Small Modular Reactors a primary source of energy. Presentation: *What Is Real Power in the Age of Climate Change?*
- ♦ September 2031 American Nuclear Society (ANS) Indianapolis, Indiana, USA; Presentation: *Here's How Walking Leaf Works.*
- ♦ October 2031 Last Stop United Nations NYC, Presentation: *Before you ask a child the question, what do you want to be when you grow up? Do this first.*

Vision

I would like to get a lot of people doing a little bit all the time, on a journey to realize full human potential. Join the Atomic Garage Movement. It'll be fun. . .