

University of Cincinnati



Nuclear Renaissance

Campaigning for LFTR

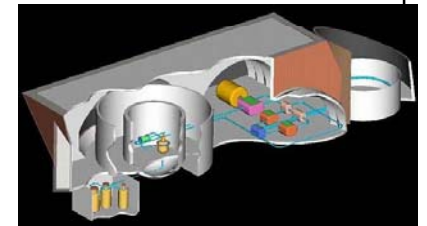
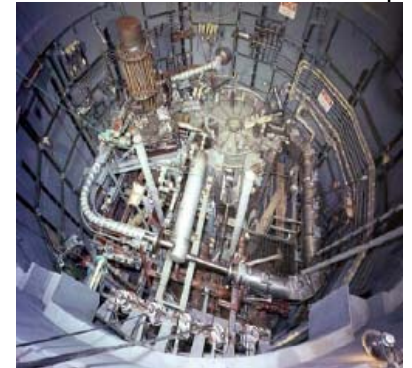
Starting Research at the University of Cincinnati

President: Bryan Hallez

Vice-President: Andrew Cawthorn

UC Nuclear Renaissance

- A multidisciplinary group dedicated to realization of the Liquid Fluoride Thorium Reactor
- Activities consist of education, political activism, and expanding the UC Nuclear Engineering Program
- Follows Thorium Energy Alliance objectives



Thorium Movement Headquarters

- Energy From Thorium
- Thorium Energy Alliance

Nuclear Engineering Department

Help create the case for funding LFTR research

Distance learning course on Fundamentals of Nuclear Engineering

Recruitment of undergraduate students for minor in nuclear

UC Nuclear Renaissance

Education and Awareness

YouTube presentations

Presentations to technical audiences

Presentations to general audiences

Political Activism

Save the U-233 petition

Pro nuclear YouTube response

Mail Campaign

Education and Awareness

- So far we have given 12 presentations in our college of engineering
- We will be attending the American Nuclear Society Student Conference in Ann Arbor Michigan on April 10 and 11
- We have plans to present to non-technical audiences as well such as local libraries and high schools

Political Activism

- Save the uranium-233 petition to Senator George Voinovich
- YouTube pro-nuclear campaign: CitizenTube LFTR question to President Obama.
- Mailing campaign to Congress and other political bodies such as the DOE

UC Nuclear Engineering

- Our group also recruits undergraduate engineering students interested in a nuclear engineering track
- UC has extensive lab facilities including a Co-60 irradiation pool, subcritical reactor, and 10% of Fermi's Chicago Pile-1
- Distinguished nuclear professors include Dr. John Christenson, Dr. Henry Spitz, Dr. Adrian Miron, Dr. Bingjing Su, and Dr. Sam Glover
- We have approached an assistant dean and nuclear engineering faculty about the profound benefits of LFTR

Response to LFTR

- Response from graduate and undergraduate students has been very positive.
- Response from faculty has been both indifferent and positive. Most would like to personally research the concept before making any endorsements.
- Most frequent question is “Why is LFTR not being pursued today?”
- Given the state of our nuclear program, it is important to provide incentives for the college and faculty to support and research this reactor technology.

Requirements for LFTR Research at UC

- Need a young tenured professor interested in LFTR and writing proposals
- Some kind of grant from a corporate entity or the government will be necessary
- Regulatory issues regarding civilian use of highly enriched uranium may need to be reformed if compact reactors are pursued
- More student enrollment will be needed to help increase nuclear department funding and acceptance

LFTR Beyond UC

- In general, we are hoping to increase awareness of the LFTR beyond the local university community
- Duke energy provides power for most of Cincinnati – partnering with them on developing a nuclear reactor would be an excellent step forward for LFTR
- Cincinnati's primary power comes from coal; switching over to LFTR could be a great chance for the world to see the future

Thank You!

Special thanks to Robert Steinhaus for sponsoring our trip to TEAC 2

YOTTAWATTS FROM THORIUM

A YOTTAWATT IS IS A MEASURE OF POWER EQUAL TO 10^{24} OR
1,000,000,000,000,000,000,000,000 WATTS.

yottawattsthorium.blogspot.com