

## **NWSOFA Climate Change Thorium, Molten Salt Reactors, and Green Energy**

**Come to this event with an open mind and lots of questions, and be prepared to at least entertain the thought of Thorium as a source of electricity.**

This July 17 educational event, to be presented by Tim Pearson, Vice-President of NEXTCHEM Process Analyzers, Inc., will include a detailed explanation of why Molten Salt Reactors are superior to our present Light Water Reactors, and how they can be designed to use Thorium nuclear waste generated by U.S. wind/solar/ electric car manufacturing, keeping Green Manufacturing jobs in the U.S instead of remaining in China. These Molten Salt Reactors could also be designed to use High Level Nuclear Waste.

Thorium nuclear energy could also be part of the Illinois energy mix related to the EPA Carbon Pollution Standards released June 2. Each state, including Illinois, will be implementing a carbon system to reduce CO<sub>2</sub> emissions 30% by 2030. Each state will individually be assigned flexible criteria to meet its goal. Illinois currently depends on nuclear energy, and good, bad or indifferent realistically it will be part of the Illinois energy mix. An alternative to uranium nuclear energy is thorium nuclear energy.

In regard to Thorium generated electricity, within 10 years 83% of its fission products are stable and can be partitioned and sold. The remaining 17% of its fission products go to geologic isolation for 300 years, compared to all of the uranium fission products, which go to Yucca Mountain for 10,000 years of isolation. Thorium also cannot be converted for atomic bomb purposes, and in the case of a tsunami it would cake up. Long term Thorium could possibly become an important part of our zero carbon future.

Time: Thursday, July 17, 2014 7:00 pm - 9:00 pm (Doors Open at 6:30 pm)

Host: Joe Salvato

Contact Phone: 847-769-1686

Location: First United Methodist Church of Arlington Heights  
1903 East Euclid Avenue, Arlington Heights, IL 60004

Directions: The church is located between NW Highway and Rand Road. Please park in the back of the church, enter the rear doors to the lower level, and follow the signs to the Wesley Room