



Department of  
Engineering Physics  
UNIVERSITY OF WISCONSIN-MADISON



SAMOFAR

**NUCLEAR ENGINEERING**  
TEXAS A&M UNIVERSITY

**Nuclear Engineering**



## Molten Salt Summer Bootcamp

1-3 July 2019, TU Delft, Netherlands

**Open to:** Graduate students and researchers working or planning to work on molten salt research.

**Course structure:** A series of five hands-on modules. Each module will include a hands-on exercise. The exercise will involve calculations using a software, analyzing and interpreting results of a numerical model, or experimental data, or other type of analysis. The goal of the module is to teach the students and researchers a new skill that they can bring into their research.

- **Module 1:** Multi-physics modeling, safety, and licensing. Max Fratoni, Jean Ragusa, Pablo Rubiolo
- **Module 2:** Thermochemistry and thermophysical properties, electrochemistry. Ondrej Benes, Sylvie Delpech, Anna Smith, Raluca Scarlat.
- **Module 3:** Corrosion & experimental design. Waste conversion. Experimental error analysis. Adrien Couet, Kumar Sridharan, Raluca Scarlat, Luis Ortega, Sean McDevitt, Anna Smith, Sylvie Delpech.
- **Module 4:** Fuel Cycle & Separations and Mass Transport. Jiri Krepel and Pavel Tsvetkov.
- **Module 5:** Stability Analysis of Natural Convection Loop with Internal Heat Generation. Mark Kimber, Stefano Lorenzi and Antonio Cammi.

**Poster competition:** Monday evening (July 1<sup>st</sup>). The poster should include research question, expected results or hypothesis, method, results and error analysis, interpretation and conclusions. A prize will be awarded for best poster on ongoing research.

**Capstone assignment:** Wednesday afternoon (July 3<sup>rd</sup>). You will form a team and define a research proposal. The research proposal will define existing knowledge, knowledge gap, relevance to technology development, research question, and proposed methods. A team prize will be awarded for the best proposal.

**Application:** 100-word statement and CV.

**Application link:** <http://scarlat.nuc.berkeley.edu/moltsaltbootcamp/>

