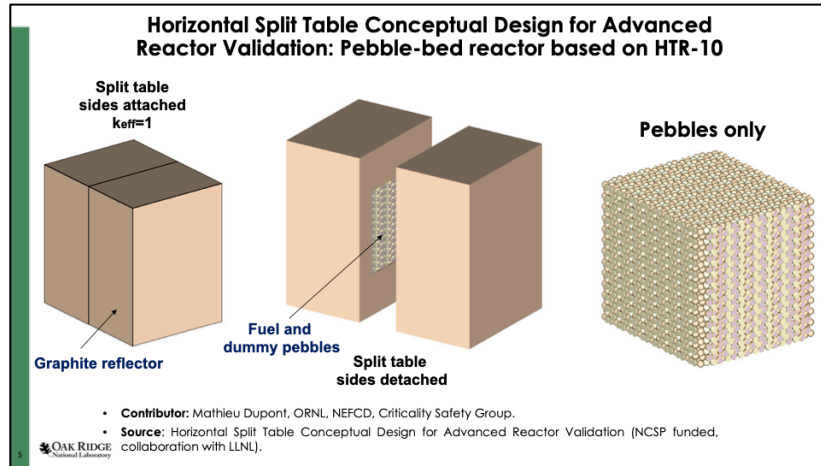# Best SCALE Model Contest 2021: Contestants – 1/2
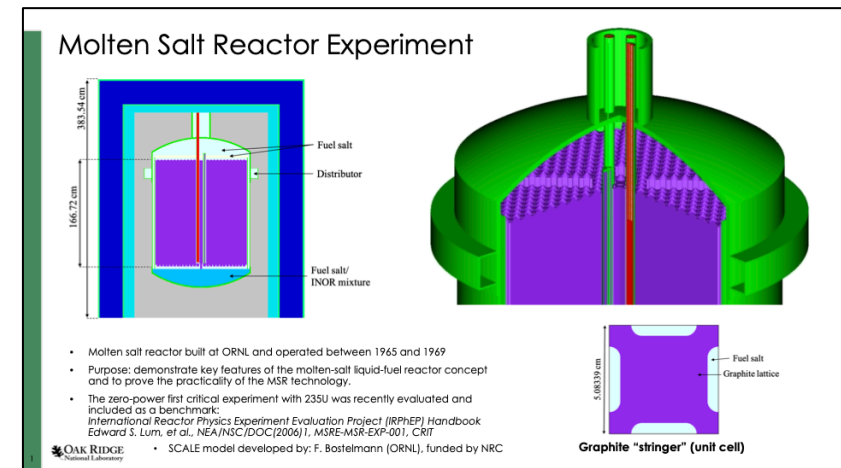

Horizontal Split Table Conceptual Design for Advanced Reactor Validation: Pebble-bed reactor based on HTR-10

M. Dupont (ORNL)

Trisotellites
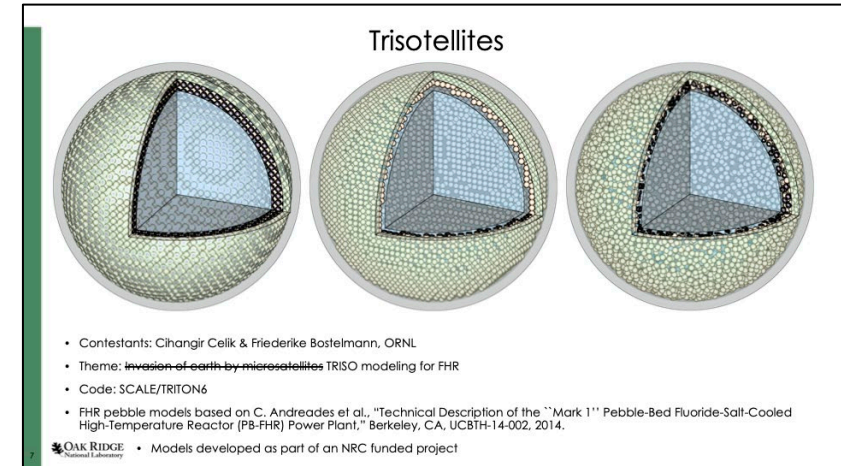
C. Celik (ORNL)

P. Wolniewicz (SKB)

Molten Salt Reactor Experiment

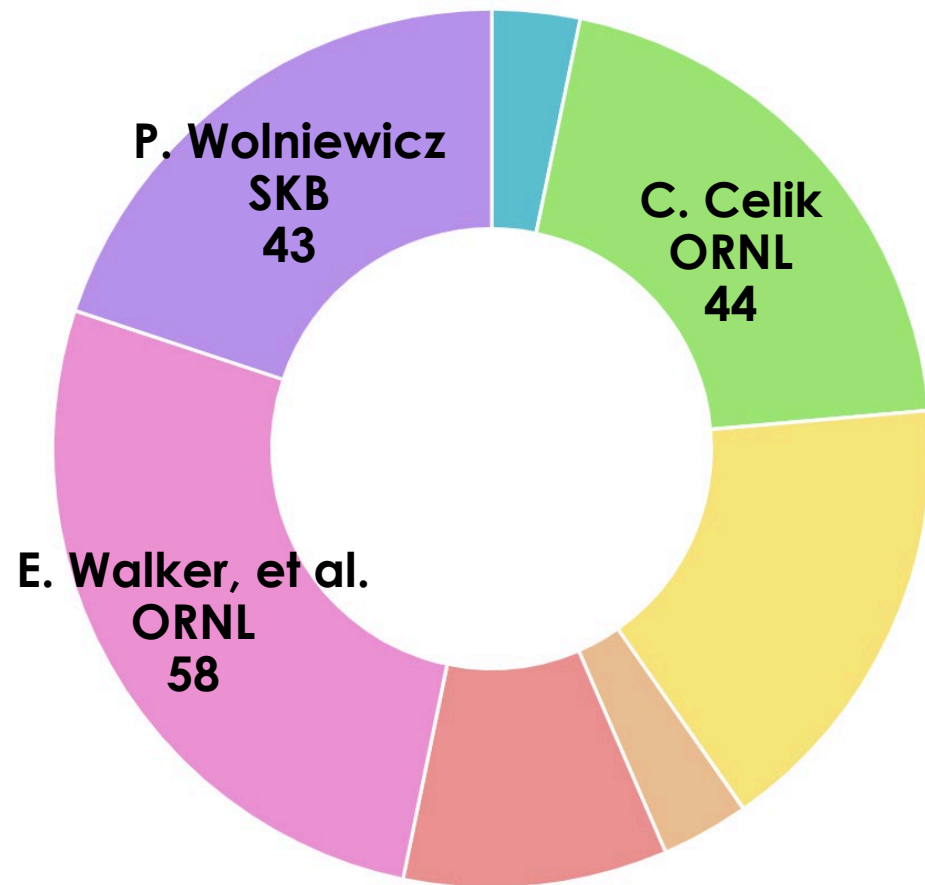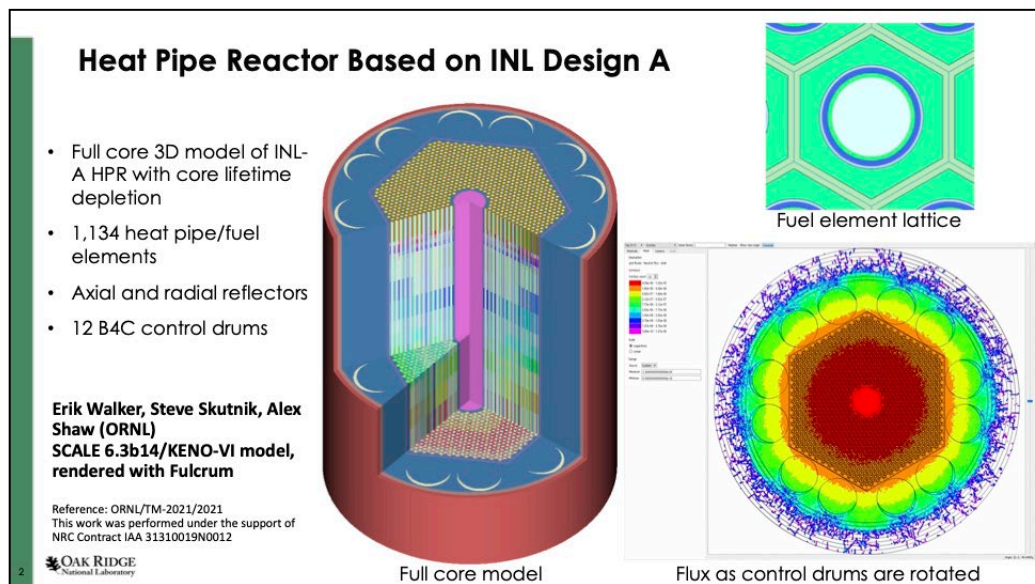F. Bostelmann (ORNL)
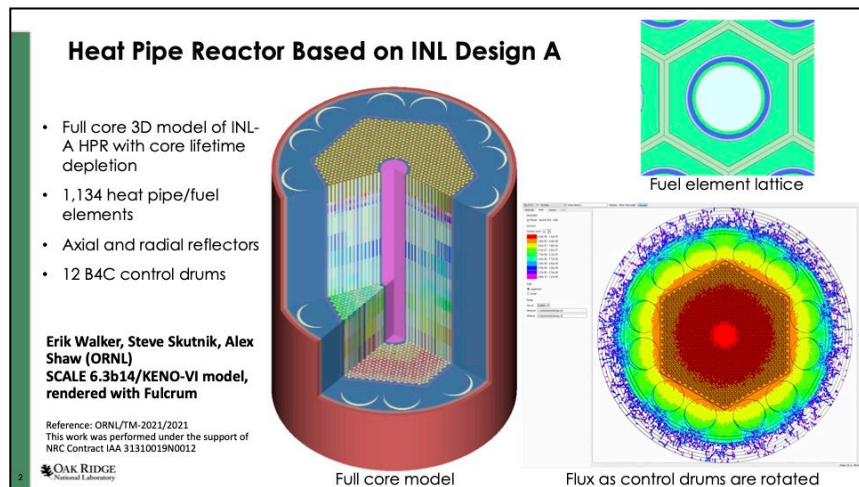
E. Walker, S. Skutnik, A. Shaw (ORNL)
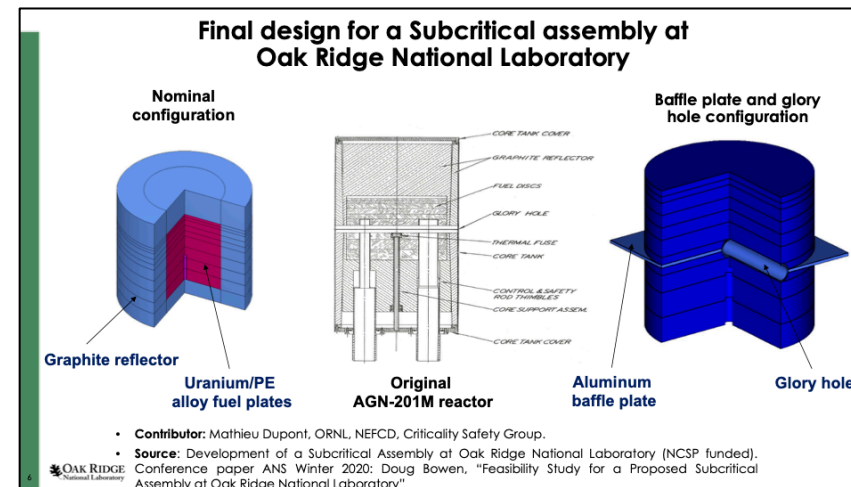
M. Dupont (ORNL)
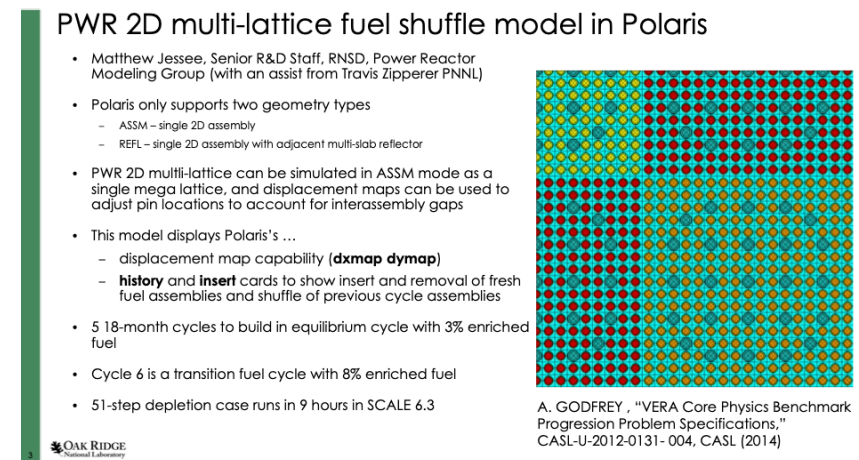
M. Jessee (ORNL)

Thank you for your submissions!

Best SCALE Model Contest 2021

Winner: Best SCALE model

Heat Pipe Reactor Based on INL Design A

- Full core 3D model of INL-A HPR with core lifetime depletion
- 1,134 heat pipe/fuel elements
- Axial and radial reflectors
- 12 B4C control drums

Fuel element lattice

Erik Walker, Steve Skutnik, Alex Shaw (ORNL)
SCALE 6.3b14/KENO-VI model, rendered with Fulcrum

Reference: ORNL/TM-2021/2021
This work was performed under the support of NRC Contract IAA 31310019N0012

Full core model

Flux as control drums are rotated

**E. Walker, S. Skutnik, A. Shaw
ORNL
58 from votes 72 survey participants (81%)**

**P. Wolniewicz
SKB
43**

**C. Celik
ORNL
44**

**E. Walker, et al.
ORNL
58**

Congratulations!

OAK RIDGE
National Laboratory