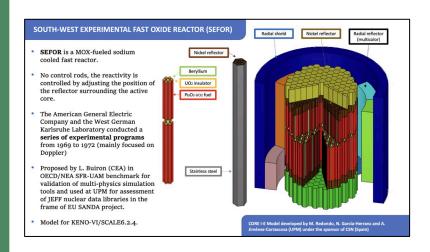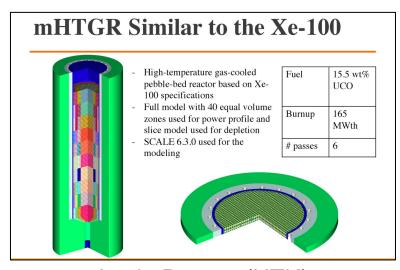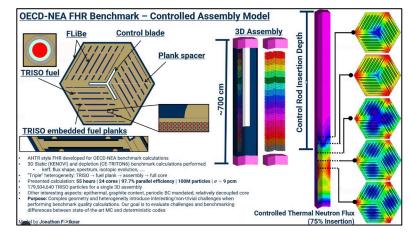# Best SCALE Model Contest 2023: Contestants – 1/3

Mario Redondo Morales (UPM)

Annie Berens (UTK)

Jonathan Faulkner (Georgia Tech)

Ethan Krammer (UNM)

Zoe Richter (UIUC)

Jonathan Wing (UTK)

Best SCALE Model Contest 2023: Contestants – 2/3
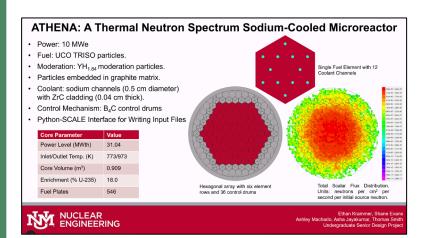

Mathieu Dupont (ORNL)

Rabab Elzohery (ORNL)

Donny Hartanto (ORNL)

Matt Jessee (ORNL)

Kang Seog Kim (ORNL)

Matthew Krupcale (ORNL)

B. J. Marshall (ORNL)

Best SCALE Model Contest 2023
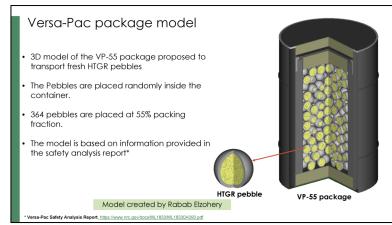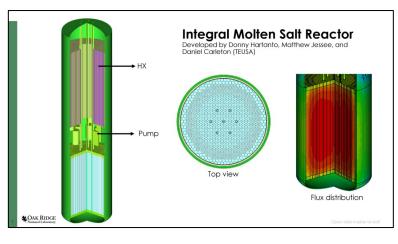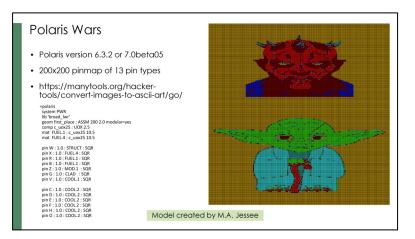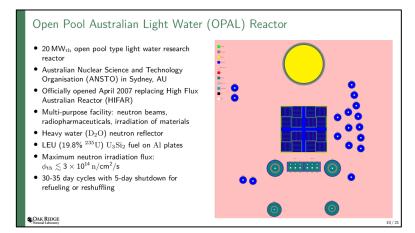
Winner: Best SCALE model

SOUTH-WEST EXPERIMENTAL FAST OXIDE REACTOR (SEFOR)

- **SEFOR** is a MOX-fueled sodium cooled fast reactor.
- No control rods, the reactivity is controlled by adjusting the position of the reflector surrounding the active core.
- The American General Electric Company and the West German Karlsruhe Laboratory conducted a **series of experimental programs** from 1969 to 1972 (mainly focused on Doppler)
- Proposed by L. Buiron (CEA) in OECD/NEA SFR-UAM benchmark for validation of multi-physics simulation tools and used at UPM for assessment of JEFF nuclear data libraries in the frame of EU SANDA project.
- Model for KENO-VI/SCALE6.2.4.

CORE I-E Model developed by M. Redondo, N. García-Herranz and A. Jiménez-Carrascosa (UPM) under the sponsor of CSN (Spain)

Mario Redondo Morales
UPM
28 from 45 votes survey participants (62%)

#3
18 (40%)

#2
22 (49%)

#1
28 (62%)

Congratulations!

OAK RIDGE
National Laboratory

Which is the best model? Select your favorite 3 models.

11% (5)
Mathieu Dupont (ORNL)

40% (18)
Rabab Elzohery (ORNL)

31% (14)
Donny Hartanto (ORNL)

16% (7)
Matt Jessee (ORNL)

4% (2)
Kang Seog Kim (ORNL)

22% (10)
B. J. Marshall (ORNL)

9% (4)
Matthew Krupcale (ORNL)

18% (8)
Annie Berens (UTK)

62% (28)
Mario Redondo Morales (UPM)

49% (22)
Jonathon Faulkner (Georgia Tech)

13% (6)
Ethan Krammer (UNM)

18% (8)
Zoe Richter (UIUC)

7% (3)
Jonathan Wing (UTK)

(135)
Responses

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