



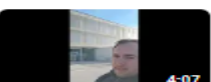
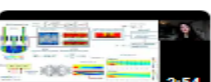
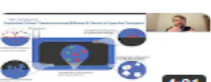

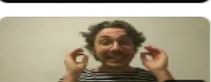


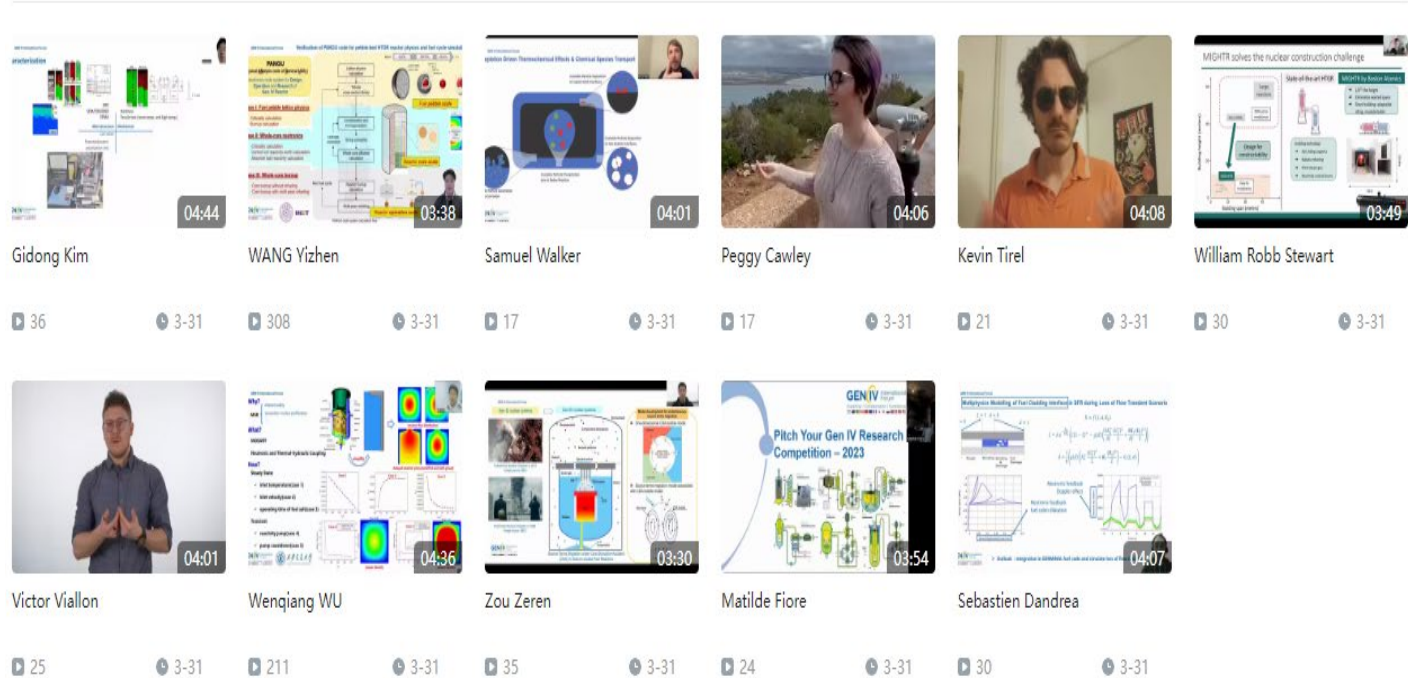


2023 Pitch Your Gen IV Research Competition Videos @YouTube and Bilibili

- 1  **Peggy Cawley: Pitch Your Generation IV Research Competition 2023**
GIF Education and Training Working Group • 358 views • 1 month ago
- 2  **William Robb Stewart: Pitch Your Generation IV Research Competition 2023**
GIF Education and Training Working Group • 221 views • 1 month ago
- 3  **Gidong Kim: Pitch Your Generation IV Research Competition 2023**
GIF Education and Training Working Group • 575 views • 1 month ago
- 4  **Yizhen WANG: Pitch Your Generation IV Research Competition 2023**
GIF Education and Training Working Group • 298 views • 1 month ago
- 5  **Sebastien D'andrea: Pitch Your Generation IV Research Competition 2023**
GIF Education and Training Working Group • 279 views • 1 month ago
- 6  **Matilde Fiore: Pitch Your Generation IV Research Competition 2023**
GIF Education and Training Working Group • 698 views • 1 month ago
- 7  **Samuel Walker: Pitch Your Generation IV Research Competition 2023**
GIF Education and Training Working Group • 259 views • 1 month ago
- 8  **Zeren Zou: Pitch Your Generation IV Research Competition 2023**
GIF Education and Training Working Group • 208 views • 1 month ago
- 9  **Kevin Tirel: Pitch Your Generation IV Research Competition 2023**
GIF Education and Training Working Group • 411 views • 1 month ago
- 10  **Wenqiang Wu: Pitch Your Generation IV Research Competition 2023**
GIF Education and Training Working Group • 205 views • 1 month ago
- 11  **Victor Viallon: Pitch Your Generation IV Research Competition 2023**
GIF Education and Training Working Group • 521 views • 1 month ago



A grid of 11 video thumbnails from YouTube and Bilibili, each with a title, view count, and duration. The thumbnails show various presentations and speakers.

Speaker	View Count	Duration
Gidong Kim	36	04:44
WANG Yizhen	308	03:38
Samuel Walker	17	04:01
Peggy Cawley	17	04:06
Kevin Tirel	21	04:08
William Robb Stewart	30	03:49
Victor Viallon	25	04:01
Wenqiang WU	211	04:36
Zou Zeren	35	03:30
Matilde Fiore	24	03:54
Sebastien Dandrea	30	04:07

The winners of “Pitch your Gen IV Research Competition 2023”

- **Prizes:** Winners have been selected in both the GIF Jury category and the popular vote category.

GIF Jury Category

The first-place winner is:

- (1) invited to present a webinar in 2024 as part of the GIF Education and Training Working Group webinar series, and
- (2) invited to attend a GIF event planned in 2024 (travel expenses will be reimbursed on the OECD NEA basis).

The second-place winner is:

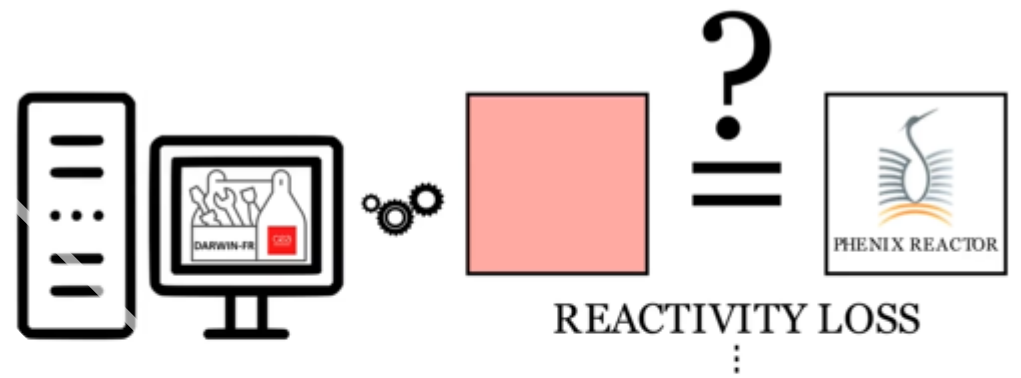
- (1) invited to present a GIF webinar in 2024, and
- (2) invited to attend a future GIF meeting in their region.

The Popular Vote Category

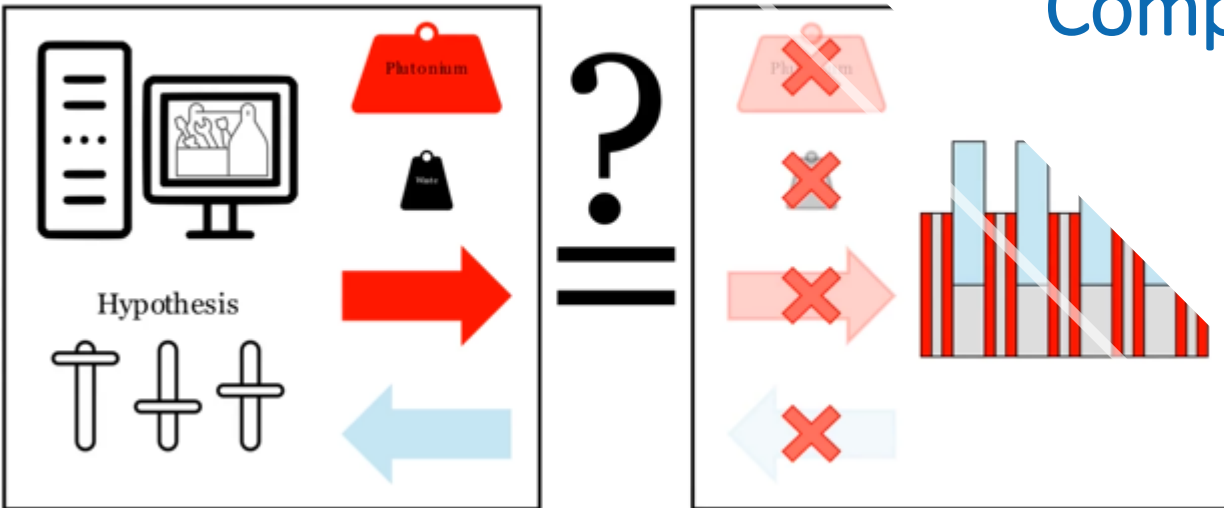
- The winner will be invited to present a GIF webinar in 2024.



1st Place Winner of the Pitch Your Gen IV Research Competition



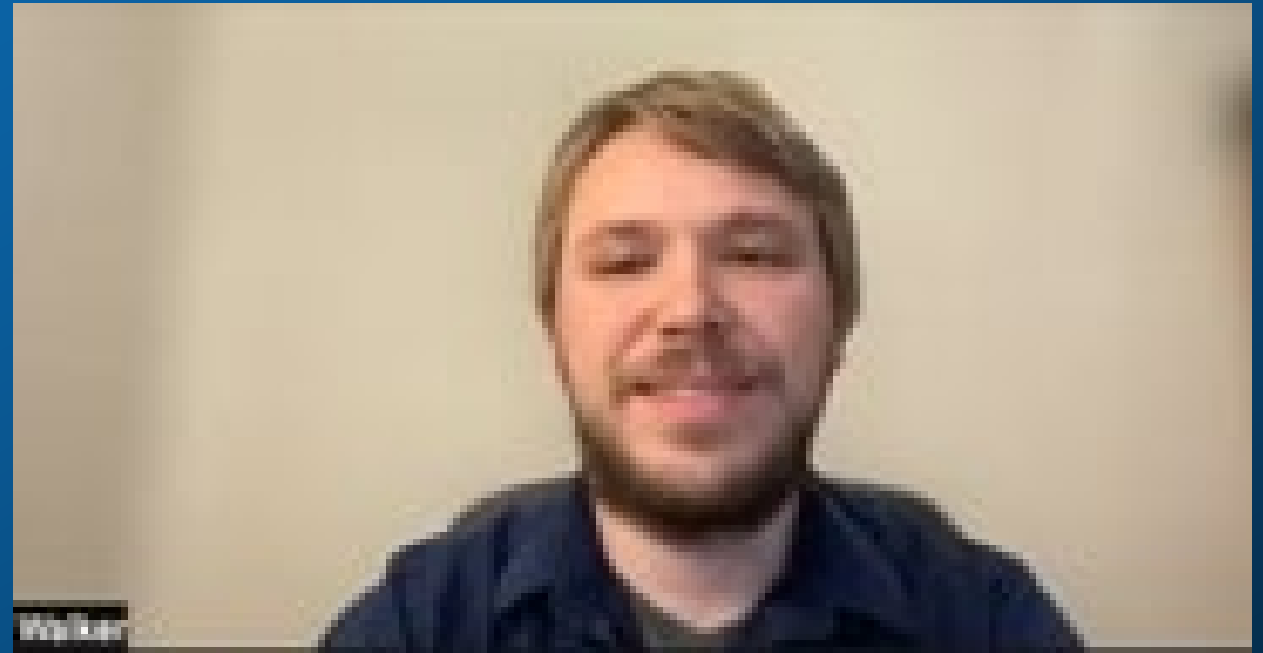
EXPERIMENTAL VALIDATION



the reactivity loss of the Phenix core cycles
with DARWIN-FR code package

Victor VIALLON
CEA Cadarache
DES / IRESNE / DER / SPRC / LEPH
13115 St-Paul-Lez-Durance, France
26/03/2023
victor.viallon@cea.fr

2nd Place Winner of the Pitch Your Gen IV Research Competition



GEN IV International Forum
Depletion Driven Thermochemical Effects & Chemical Species Transport

Off-Gas System

Insoluble Particle Deposition on Liquid-Gas Interfaces

Insoluble Particle Deposition on Liquid-Solid Interfaces

Insoluble Particle Deposition on Gas Bubble Interfaces

Soluble Particle Generation Due to Corrosion

Insoluble Particle Precipitation due to Redox Reaction

1. Redox Potential Control → Corrosion Mitigation

Reformatted by Permission from Oak Ridge National Laboratory: J. R. Engel, P. N. Haubenreich and A. Houtzeel, "Spray, mist, bubbles, and foam in the Molten Salt Reactor Experiment," Oak Ridge Nat. Lab., Oak Ridge, TN, USA, ORNL-TM-3027, Jun. 1970

GEN IV International Forum
Expertise | Collaboration | Excellence

GEN IV International Forum

Multiphysics Depletion Modeling of Molten Salt Reactors

Samuel Walker
Nuclear/Reactor Engineer, Idaho National Laboratory
03/23/2023
Samuel.walker@inl.gov

GEN IV International Forum
Expertise | Collaboration | Excellence

INL Idaho National Laboratory



A Study on Directed Energy Deposition Process of Corrosion Resistant Coating for Lead-Bismuth Eutectic Environment

Gidong Kim

Department of Nuclear Engineering, Ulsan National Institute of Science and Technology

March 2023

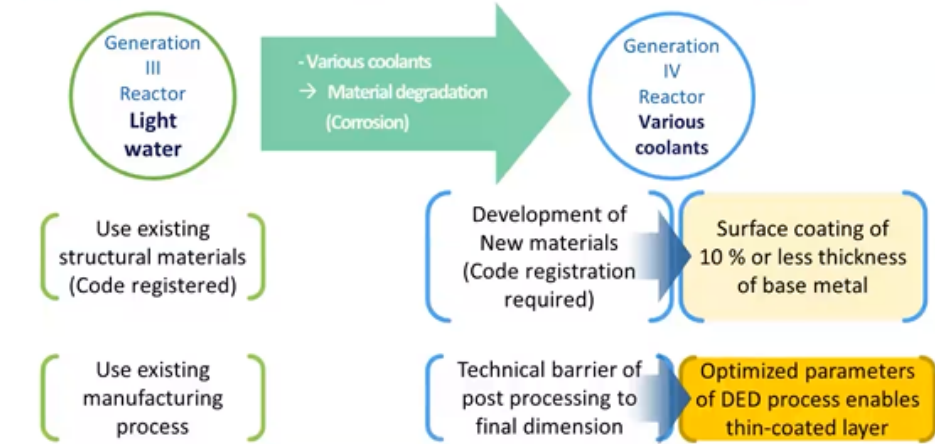
gdkim@kims.re.kr



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Approach Nuclear energy : carbon-free, massive energy source



F.J. Martin-Munoz et al., Journal of Nuclear Materials, 2011

- Lead-Bismuth Eutectic corrosion resistant materials
- Alumina forming austenite
 - Fe-Cr-Si
 - Fe-Cr-Al

Popular Vote Winner of the Pitch Your Gen IV Research Competition