

Webinar

GIF talks with industry series #4

LFR Developers: *newcleo*

Hosted by the GIF LFR provisional SSC

Join us on May 27, 2025, 14:30 CEST (UTC+2)

newcleo's materials strategy for Gen-IV LFR research and development

Join us for a GIF hosted webinar to explore *newcleo's* material research and development (R&D) for Lead-cooled Fast Reactors (LFRs). *newcleo*, an innovative player in the nuclear energy field, is working to design, build and operate Gen-IV Advanced Modular Reactors (AMRs) cooled by liquid lead. As one of the main players in the lead-cooled reactors technology, *newcleo* has an extensive R&D programme as part of their engineering activities.

This includes a strategic programme on materials & chemistry, dedicated to several technical areas in the progression from standard steels to innovative new materials. As a coolant, lead brings a host of advantages: design simplification, a high degree of inherent safety, high operating temperature and high efficiency, but also engineering challenges. Much of the research programme within the materials division tackles lead corrosion in various conditions to enable the high temperatures which are a feature of *newcleo's* offering to the market.

newcleo's materials strategy involves 5 core R&D programmes:

1. Standard steels
2. Surface modifications
3. New materials
4. Chemistry
5. Irradiations

Details of *newcleo's* mission and progress as well as their materials strategy will be discussed during this webinar.

A Q&A session will follow the presentation, providing an opportunity to further understand how *newcleo* is working to bring a Gen IV reactor to reality.

This webinar is the fourth of a series where GIF engages with industry representatives to bridge national and international R&D programs, industry needs and challenges. It is also aimed at and exploring new avenues for fruitful cooperation within the GIF community.

Dr. Mariano Tarantino from ENEA, the Euratom representative at the GIF LFR provisional steering committee, will facilitate this webinar.

Free webcast!

Register NOW at:

https://us02web.zoom.us/join/register/WN_KGaFe2rLTj2P5A_Ws1s_C_Q#/registration



Or scan the code

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Who should attend:
policymakers, industry professionals, regulators, researchers, students, general public

Speaker

Dr. Francisco Garcia Ferré is a global R&D management professional, with 15 years' experience leading academic and industrial innovation. He has held a number of roles at CEA, Istituto Italiano di Tecnologia, and ABB, ranging from Researcher and Research Team Manager to Technology Center Manager and Global R&D Lead. Francisco holds a Master of Science in Nuclear Engineering and a PhD in Energy and Nuclear Science and Technology, both from Politecnico di Milano with Honors.

In *newcleo* Francisco is Area Manager - Materials & Chemistry. This department is responsible for all R&D activities on materials & chemistry. The activities include materials fabrication and processing, additive manufacturing, advanced characterisations, corrosion and mechanical tests, as well as irradiation studies.

