

The GIF Newsletter GIFNews n°2 — May 2020

Editorial

Nobuchika KAWASAKI (GIF Policy Director)



For the first I would like to show heartfelt gratitude for all GIF colleagues including all chairs/vice chairs, TD, TSs, PG members. Because after I joined GIF activities, I have felt that inside GIF people keep struggling to find new solutions even under very very difficult situation.

Not only this Corona situation, international collaborations always face lots of difficulties, off course we are searching new goals so that to find unexplored goals is the first difficulty, but many hurdles exist in time, place, man power, language, and so on. Exactly we are doing treasure hunting in the hard difficulty mode.

But every cloud has a silver lining!

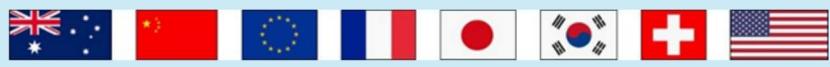
We are in the difficulties, so we can notice that people allow to take challenging trials, share experiences with kind and warm feelings. In another word, GIF is an organization with deep human commitment. In GIF success and failure coexist as same as human being.

As our Technical Director appealed GIF reaches 20th anniversary. Let's conclude our past achievements and celebrate this milestone.

Afterward we can go forward to make successes and failures in pathfinding trials in the field of "Designs and R&Ds of six types of Gen IV reactors", "International standardization of Safety design and apply into Regulation", "Increased Flexibility on Nuclear system as Attractiveness in social Market", "Enhancement on R&D collaboration" and "Appeal our results to the world".

Thank you to keep joining GIF activities.

Amendment of Materials Project Arrangement



Bill Corwin, Chair of VHTR Materials PMB



The amendment of the VHTR Materials Project Arrangement (PA) to welcome Australia's ANSTO as a member of the PMB was successfully completed 27 April 2020.

Among the Signatories to the VHTR SA, 8 members (Australia, China, Euratom, France, Japan, Korea, Switzerland and United States) signed the amendment of the VHTR Materials PA. This amendment not only added Australia as a new Signatory, but also extended the Project Plan (PP) through 2022. All Signatories contribute in at least two of the three major area of materials focus in the PP: graphite, metals & design methods, and ceramics & composites. Over 450 materials reports and thousands of test records have been shared among all Signatories via the PA's technical database, the Gen IV Materials Handbook, since the inception of the Project in 2009. The amendment has now extended the PA for another 10 years, until April 2030, as long as the VHTR System Arrangement remains in effect.

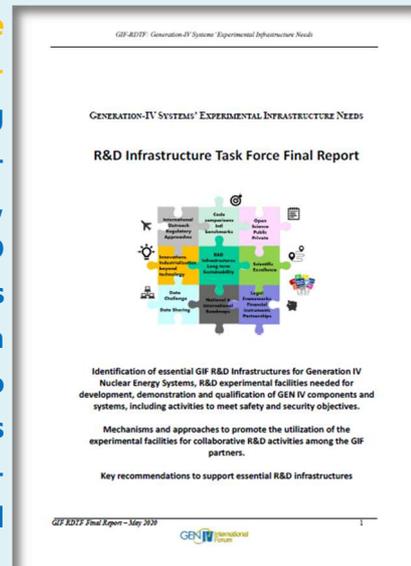
The R&D infrastructure Task Force achievements *Roger GARBIL*



The GIF-R&D infrastructure Task Force (RDTF) was established early 2018, for a period of up to two years. The initial step was to 'Identify essential R&D experimental facilities needed for development, demonstration and qualification of GEN IV components and systems, including activities to meet safety and security objectives'. Major experimental infrastructures needs to support Gen-IV systems in the next decade (viability, performance, or demonstration – depending on the respective system TRL) have been identified, based upon national R&D programs and considering industrial needs. Identification of existing experimental facilities in

response to the aforementioned needs highlighted some gaps.

GIF RDTF second objective is to 'Promote the utilization of the experimental facilities for collaborative R&D activities among the GIF partners'. To this end, identify existing mechanisms and approaches, including organizational points of contact, for obtaining access to relevant R&D facilities in the GIF member countries have been done. This information should then be made accessible to



GIF participants and R&D organization, e.g. on the GIF website, the GIF members network, including closer OECD/NEA, GIF and IAEA international cooperation initiatives, to stimulate joint funding from Member States and/or enterprises, and benefits to be capitalized.

The concretization of this two years Task Force was done in 2020 by two major achievements: a dedicated Workshop in Feb. 2020 at OECD/Paris and the RDTF final report.

With the growing interest of the Private Sector in all SMR' systems, these TF initiatives are an asset to present the potentiality of the GIF facility fleet, and how to get an easier access for its use. The GIF community role is to ease and simplify the way to interconnect worldwide R&D organizations, private sectors with R&D teams, different national projects, in order to reach higher complementarity, efficiency, synergies and a higher use of the facility fleet.

GIF should grab today's opportunity of being in that field an ACTOR and HOST, an INFLUENTIAL NON-PROFIT ORGANISATION, and a FACILITATOR.

Major events — Please save the dates !

- ◆ GIF Webinar: June 24th, see figure.
- ◆ GIF-IAEA Interface meeting: July 8th, 2020 in visioconf Mode.
- ◆ 44th Expert Group / 50th Policy Group meeting: Oct. 19-23, 2020. in Amboise, France.



EDUCATION AND TRAINING TASK FORCE

GIF WEBINAR SERIES

Comparison of 16 Reactors Neutronic Performance in Closed Th-U and U-Pu Cycles
 Dr. Jiri Krepel, Paul Scherrer Institute, Switzerland



Wed, June 24, 2020 2:30 PM - 4:30 PM CEST