

Report from the Policy Director

May 27, 2020
GIF PG Tele Conference

Nobuchika KAWASAKI (GIF PD)

GIF TV

GIF contributes Sustainable Energy Supply by Gen IV developers' mutual trust and co-operations.

GIF missions:

- Designs and R&Ds of 6 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
- Appeal our results to the world

Development and deployment of advanced nuclear power technologies to increase the use of low-carbon energy

Generation IV International Forum (GIF):
Developing the nuclear energy systems of the future

GIF is developing six advanced nuclear reactor concepts under four special missions below:

- Regulatory mission
- Market Opportunities
- Enhancement of R&D
- Education and training

Generation IV International Forum (GIF):
Developing the nuclear energy systems of the future

The GIF was launched in 2000 with the goal of developing advanced nuclear systems with sustainability, economics, safety & reliability, proliferation resistance and physical protection.

Today, more than ever, Generation IV systems are needed, together with other low-carbon technologies, to contribute to a sustainable energy future providing reliable, safe and affordable clean energy.

Sustainable, safe, clean, reliable, flexible, affordable energy source for the future

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From the interview video to GIF chair (10mins interview)

<https://www.youtube.com/channel/UCUUBIUGLAISeUU5msbHFmxw>

Designs and R&Ds of 6 types of Gen IV reactors

Technology Roadmap:

issued at January 2014.

After that SFR SSC updated their System Research Plan (r3.2 revised 9 Oct 2019)

VHTR SSC is presently updating their System Research Plan (SRP).

MSR pSSC is preparing their System Research Plan, and upgrading to SSC.

Action we need:

- **EG needs to evaluate System Research Plan whether they have adequate & definite development technical goals, necessary R&Ds to achieve these technical goals. (PG needs to decide action and make a request)**
- **After evaluation of SRPs for SFR, VHTR, MSR. Need to update Roadmap.**

Technology Roadmap Update for Generation IV Nuclear Energy Systems:

Executive Summary of GIF outlook, Preparing the Future through Innovative Nuclear Technology: Outlook for Generation IV Technologies:

https://www.gen-4.org/gif/jcms/c_42188/publications

International standardization of Safety design and apply into Regulation

Regulatory Mission



Alice Caponiti (USA, DOE)

GIF PG Vice-Chair:

Alice Caponiti is the Director of Department of Energy's Office of Nuclear Energy Technologies, which provides strategic direction and execution of nuclear energy programs to improve research infrastructure and industry access to various fields.

The mission of the Vice-Chair on regulatory issues is to **coordinate GIF's activities with various regulatory bodies to harmonize regulatory requirements**. Dialogue between international R&D communities and regulatory communities can facilitate the development of collaborative approaches that

- identify and resolve key regulatory issues,
- identify and address the need of safety research, and
- further harmonize design, safety, and regulatory requirements.

The tasks of the Vice Chair include promoting **Safety Design Criteria (SDC) and Safety Design Guideline (SDG)** for GEN IV Systems and working on **IAEA Safety Standards**.

The Vice Chair also leads GIF's engagement with the **OECD/NEA Working Group on the Safety of Advanced Reactors (WGSAR)** and with appropriate IAEA departments.

Regulatory Mission:

- Identify need of safety research,
- further harmonizing design, safety, and regulatory requirements.

Risk & Safety Working Group

RSWG developed

- Integrated Safety Assessment Methodology (ISAM)
- White papers on ISAM implementation & safety systems

See: https://www.gen-4.org/gif/jcms/c_9366/risk-safety

Proliferation Resistance & Physical Protection Working Group

PRPPWG developed

- Methodology used to evaluate and facilitate the introduction of PRPP through a case study at the earliest possible stage of design
- PRPP white papers on the six GIF systems with SSCs.

See: https://www.gen-4.org/gif/jcms/c_9365/pr-pp

Safety Design Criteria Task Force

SDC TF developed

- Safety design criteria and guidelines for SFRs reviewed by IAEA, WGSAR, and international regulators.

See: https://www.gen-4.org/gif/jcms/c_93020/safety-design-criteria

International standardization of Safety design and apply into Regulation

Ms. Alice CAPONITI (USA, DOE) GIF Vice-Chair on Regulatory Issues



Alice Caponiti is the Director of Department of Energy’s Office of Nuclear Energy Technologies, which provides strategic direction and execution of nuclear energy programs to improve research infrastructure and industry access to various fields.

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- **identify and resolve key regulatory issues,**
- **identify and address the need of safety research, and**
- **further harmonize design, safety, and regulatory requirements.**

From the interview video to GIF chair

Presently this mission is under the charge of Vice Chair on Regulatory issues including post SDC-TF activity and with GIF-IAEA Ws, OECD/NEA WGSAR.

International standardization of Safety design and apply into Regulation

Action we need:

- **Synthesis RSWG safety activities** (Basic safety approach, Risk Informed Performance-Based approach, White papers/ISAM, System safety assessments, SDC/SDG) **and make a world safety standard** (include to apply SMR?)

= If this means collaborative activities between GIF and **IAEA**, Mr. Kubo's investigation and suggestion might help to synthesize.

- **To communicate with GIF EMWG/outside related organizations to identify economic benefits of international regulatory collaboration** (See GIF EMWG report/EMWG Status Report and Proposed Studies for Virtual EG/PG meetings) (Future WGSAR, NRC related matters?)
- Also request for faster licensing process proposed in **RDTF position paper** (in TD synthesis report).

Increased Flexibility on Nuclear system as Attractiveness in social Market

Outcomes/direction after GIF Workshop on the Flexibility of Gen IV Systems on 29 May 2019 at Vancouver, Canada:

“POSITION PAPER ON FLEXIBILITY OF GEN IV SYSTEMS” is released on November 2019.

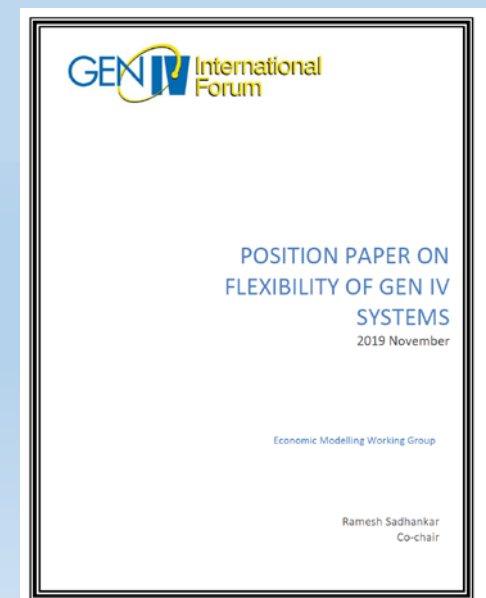
CEM NICE Future new initiative as Flexible Nuclear Campaign started.

(Message about nuclear flexibility with example of GIF reactor systems and other national/organizational examples.)

<http://www.cleanenergyministerial.org/initiative-clean-energy-ministerial/nuclear-innovation-clean-energy-future-nice-future>

Action we need:

- To accelerate flexible campaign with CEM.
- Coordinate EMWG proposed studies with prioritization supported by EG. (See GIF EMWG report/EMWG Status Report and Proposed Studies for Virtual EG/PG meetings)



Increased Flexibility on Nuclear system as Attractiveness in social Market

Market Opportunities and Challenges Mission



Sylvestre Pivet (France, CEA)

GIF PG Vice-Chair:

Sylvestre Pivet is the director of the Innovation and Nuclear Support Division which manages the R&D programs led by the CEA in the field of civilian nuclear energy, covering fuel cycle, and advanced and operating reactors and simulation.

Decarbonization of hybrid energy systems is one of the important topics of Market Opportunities and Challenges. In the future, low-carbon or renewable energy systems will increase the global share in the overall energy mix and need to be complemented by energy storage and dispatchable energy technologies. **Decarbonized hybrid energy derived from Gen IV energy systems** can serve as both low-carbon sources of electricity and heat for industrial and other applications.

The Vice Chair addresses how Gen IV systems should deal with the need and challenge of future energy markets and support the development of innovative reactor concepts in **cooperation with external GIF stakeholders, such as private sectors, policy makers, and investors, and various GIF bodies** such as Systems Steering Committees, Economic Modelling Working Group, and Senior Industrial Advisory Panel.

Market Opportunities and Challenges Mission:

Economic Modelling Working Group

EMWG developed

- Free **cost evaluation software G4ECONS** used to estimate six reactor systems economics
- Guidelines for estimating costs and identifying cost drivers of Gen IV designs

See: https://www.gen-4.org/gif/jcms/c_9364/economics Including "Cost Estimating Guidelines" & "Impact of Increasing Share of Renewables"

Senior Industry Advisory Panel

SIAP strategically reviews

- R&D progress and plans of individual systems from the **industry perspective**
- R&D progress and plans of cross-cutting activities (GIF working groups)
- system deployment and future nuclear energy fuel cycles
- international framework for nuclear safety standards and regulations.

The Vice Chair also coordinates activities of GIF and other multilateral initiatives of international organizations such as IAEA INPRO, NEA IFNEC, NEA NI2050. This coordination can contribute to **further investigating and assessing costs and values of, the roles of private sectors for deploying, and to adjust the policy to develop, Gen IV systems.**



Mr. Sylvestre PIVET (France, CEA)

GIF Vice-Chair

on Market opportunities and Challenges

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From the interview video to GIF chair

From the attached mission leaflet

Presently this mission is under the charge of Vice Chair on Market opportunities and Challenges.

Enhancement on R&D collaboration

Enhancement of R&D Collaborations Mission



Jong-Hyuk Baek
(Republic of Korea, KAERI)

GIF PG Vice-Chair:

Jong-Hyuk Baek is a senior vice president (CTO, Chief Technology Officer) for Innovative Nuclear Reactor Systems at Korea Atomic Energy Research Institute.

GIF has been concerned about the R&D collaboration among 6 Gen IV nuclear systems. The mission of the Vice-Chair is to enhance the R&D collaboration within GIF and external organizations. The Vice-Chair with the support of RD TF and AMME TF lead the GIF members to

- **better understand** the drivers, opportunities, and constrains in using large scale facilities for qualification purposes,
- examine various means for **sharing such resources and R&D results** to optimize joint research and shared results, and
- **investigate other R&D topics** (or crosscutting issues) related especially **to research challenge or technical gaps** to further boost the development of GEN-IV reactor systems.

The Vice-Chair points out that it is important to know what makes difficulty in collaborating with others and how we can find the practical solutions.

Enhancement of R&D Collaboration

Mission Focus

- ✓ Strengthening R&D collaboration within GIF
- ✓ Sharing innovative technical idea and issues among the GIF members
- ✓ Promoting collaboration with outside organizations and technology fields

R&D Infrastructure Task Force

RD TF determines

- technological gaps to be filled,
- R&D infrastructure needed to fill the gaps, and
- **promote the use of experimental facilities for collaborative R&D activities**

Advanced Manufacturing / Materials Engineering Task Force

AMME TF identifies

- the interest of both research institutions and nuclear companies in a crosscutting activities and
- **collaboration ways to reduce the time and cost for deployment of Gen IV reactor systems**

Recent GIF activity

- ✓ **Generation –IV Systems’ Experimental Infrastructure Needs**
- ✓ **GIF Workshops with Nuclear Industry including SMR vendors and supply chains:**

Find out more information in : <https://www.gen-4.org/gif/>

Presently this mission is under the charge of Vice Chair on Enhancement of R&D Collaborations. He already started to develop white paper after related GIF workshops.

Enhancement on R&D collaboration



Mr. Jong-Hyuk BAEK (Republic of Korea, KAERI)
GIF Vice-Chair on Enhancement of R&D Collaborations

Jong-Hyuk Baek is a senior vice president(CTO, Chief Technology Officer) for Innovative Nuclear Reactor Systems at Korea Atomic Energy Research Institute.

The mission of the Vice-Chair is to enhance the R&D collaboration within GIF and external organizations. The Vice-Chair with the support of RD TF and AMME TF lead the GIF members to

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- **investigate other R&D topics** (or crosscutting issues) related especially **to research challenge or technical gaps** to further boost the development of GEN-IV reactor systems.

Action we need (Black letters are EG actions):

- **Conclude “GIF workshop on R&D Infrastructures needs and opportunities” and “GIF workshop on Advanced Manufacturing” with proposing next actions. (EG is discussing and TD started synthesis)**
- **Issue R&D Infrastructures position paper. (EG is reviewing)**
- **To start AMME-TF (with expanded man-power) consistent with the present EG discussion. (might be connected with EMWG activities and qualification activities)**
- **To issue R&D collaboration white paper included R&D TF and AMME TF activities.**

What are our results/knowledge/message to share inside/outside GIF?

From the views
of outcomes

➤ Future Plan

- = Roadmaps, Position Paper, (Open)
- = System Research Plan (Partially open, ex. Except budget sections)
- = Project Plan (GIF inside, only for project members)

➤ Present Status/Ongoing technology

- = Outlook(Open), White Paper (GIF inside)
- = Webinar(Open)
- Technical details = GIF Deliverables (GIF inside, only for project members)

➤ Message/News/Leaflets (Open, New genre!)

- = Statement(including video), GIF newsletters, GIF leaflets, Webinar Guidebook

➤ Common Method/Standard/Handbook/Database

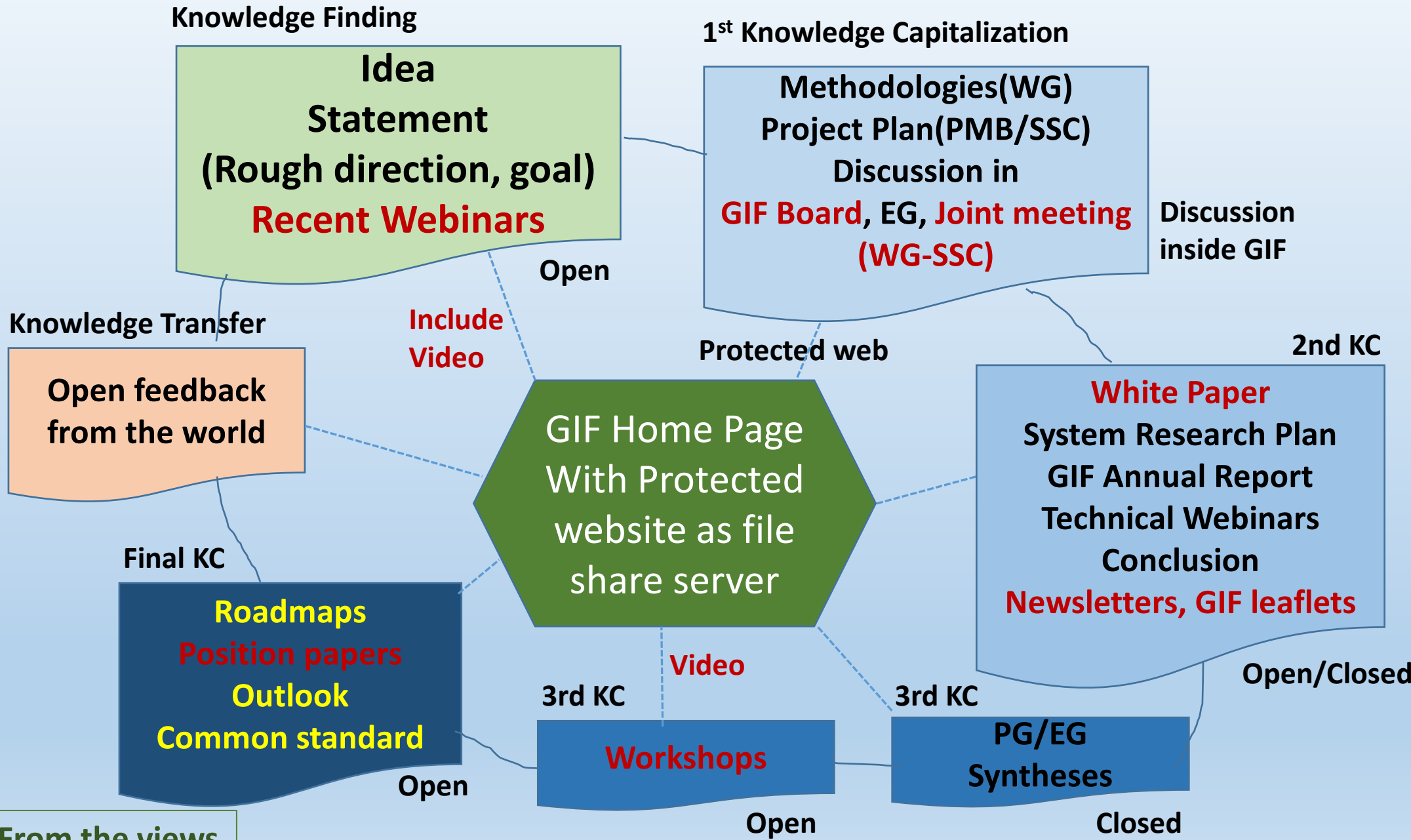
- = GIF methodologies (Safety, Economics, PRPP, etc.) (Basically open/GIF inside)
- = (GIF)-IAEA safety standards (Open & Common standards with outside organizations)
- = Handbook/Database (For present GIF inside)

➤ Common Characteristics

- = Flexibility, Gen IV safety, R&D facilities for Gen IV safety (Severe accident etc.)
Innovation to accelerate Gen IV character (Safety, Economics, Flexibility, PRPP)
- Statement/Conclusion/White paper through joint meeting/workshop/ad hoc iTF

(My?) Knowledge Management: **KF/KC/KT** GENIV International Forum™

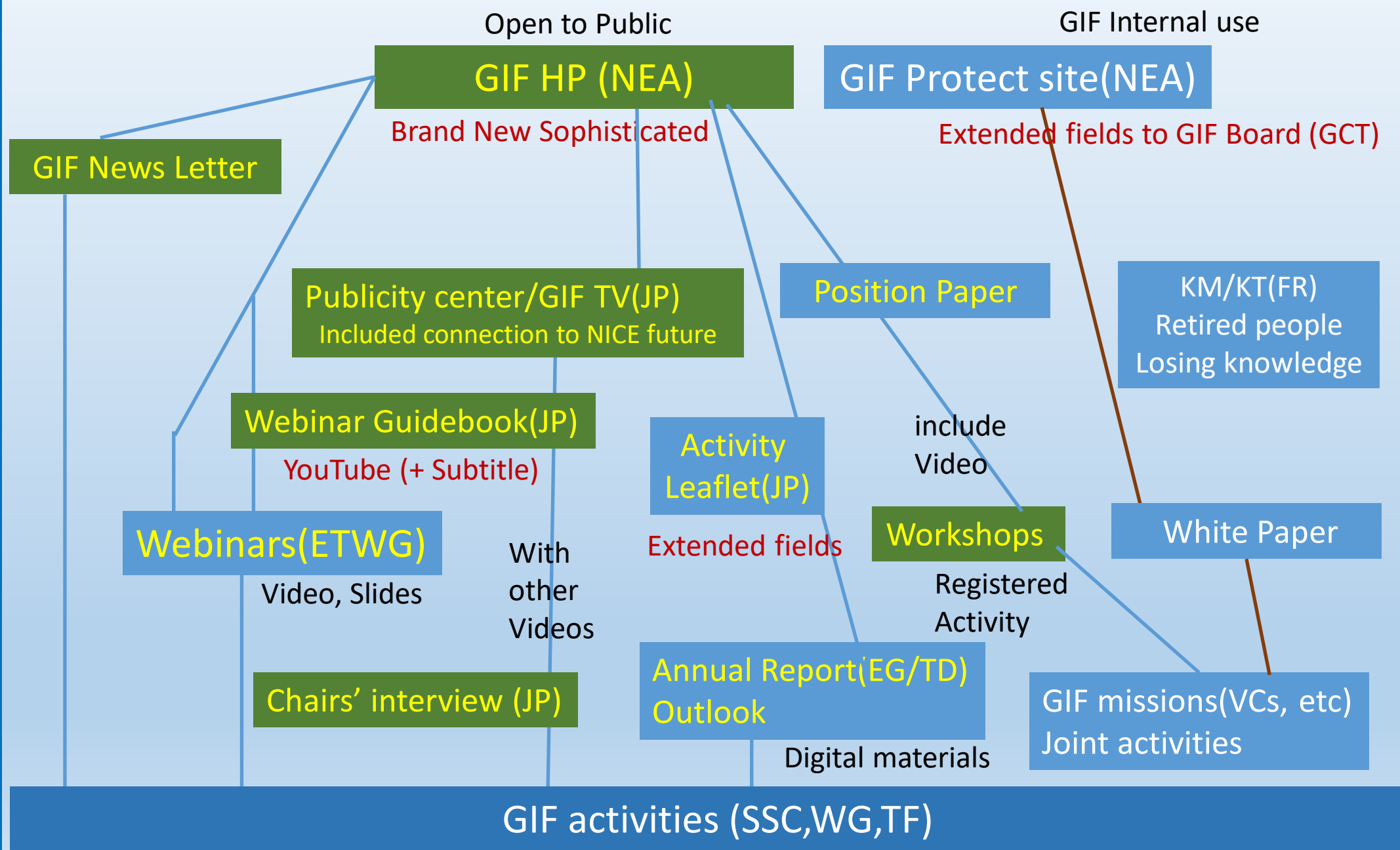
Image: Off course many warps and loops



From the views of process

Knowledge Transfer= To keep open activities/ cross cutting activities

From the point of Capitalization (My image)



GIF TV



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- Increased Flexibility on Nuclear system as Attractiveness in social Market
- Enhancement on R&D collaboration
- Appeal our results to the world



GIF TV

チャンネル登録者数 1 人

Generation IV International Forum (GIF) introduces you messages from GIF and also introduce related videos which have the same objectives of GIF. GIF is a co-operative international endeavor to carry out the research and development (R&D) needed to establish the feasibility and performance capabilities of the next generation nuclear energy systems.

GIF contributes Sustainable Energy Supply by Gen IV developers' mutual trust and co-operations. Developing;

- Designs and R&Ds of 6 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,
- Appeal our results to the world (Knowledge Management/Knowledge Capitalization).

List of GIF TV channels:

* GIF Chairs' interviews:

.. Interview of GIF Chair

.... <https://youtu.be/npzhTGdWqH0>

* GIF Webinars Guide Page:

.. GIF Webinar Series

.... <https://www.youtube.com/playlist?list...>

* GIF Videos:

.. GIF International Workshops with Nuclear Industry including SMR vendors and supply chain SMEs: Workshop on R&D Infrastructures needs and opportunities

.... https://www.gen-4.org/gif/jcms/c_1158...

.. CEM NICE Future initiative webinars (GIF supports this initiatives)

.... <https://www.nice-future.org/webinars>

....

GIF TV (Presently)

- Interview of GIF Chair
- GIF Webinars
- GIF workshop on R&D Infrastructures needs and opportunities
- GIF workshop on Advanced Manufacturing
- CEM Nice future Webinars



10 mins interview

All mission/project leaders can post their interview videos!

Japanese shooting team is ready to help you!

GIF PG Chair interview:

Mr. Hideki KAMIDE (JAEA, Japan) told the objectives, missions, and future of Generation IV International Forum (GIF).

Q1 Objectives of the Generation IV International Forum

Q2 How do you lead this Forum?

Q3 GIF future?

He emphasized that GIF systems can contribute as Sustainable Energy Supply by Gen IV developers' mutual trust and co-operations. He also introduces GIF special 4 missions in his interview:

- International standardization of Safety design and apply into Regulation
- Increased Flexibility on Nuclear system as Attractiveness in social Market
- Enhancement on R&D collaboration
- Appeal our results to the world

Don't miss watching this interview.

<https://youtu.be/GOjnUMYOEWI>

Contents of interview



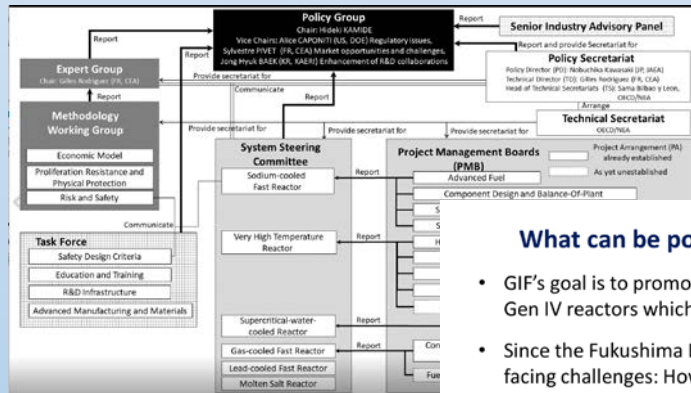
Interview to the Chair of
Generation IV International Forum.

Mr. Hideki Kamide
GIF 2019-2021 Chair

Title including Bio



Interview



Figures/Charts

What can be possible through international collaboration?

- GIF's goal is to promote international collaboration toward the commercialization of Gen IV reactors which serve as sustainable energy sources.
- Since the Fukushima Daiichi nuclear power plant accident, nuclear energy has been facing challenges: How can understanding from public be gained? How can its marketability be better with renewable power sources?
- Gen IV reactors will be sustainable energy sources for centuries by overcoming these challenges.
- Making the best of country-level collaboration provided by GIF enables faster reactor developments to accelerate R&D that can solve the challenges. To have global standards that enhance reactor safety, and to show the significance and feasibility of Gen IV reactors to stakeholders including governments and private sectors.

Summary

Technical Secretariat

The OECD Nuclear Energy Agency has been supporting the activities of the Generation IV International Forum since 2005. It provides technical secretariat services; archiving records and documents, as well as maintaining the Forum's internal and external websites. The NEA Technical Secretariat consists of 15 staff members on both a full-time and part-time basis.



Screen shot of TD/TS Monthly meeting with G. Rodriguez (TD, Top-right) and P. Terrason (CEA, Bottom-right)

Attended NEA Technical Secretariat
Top: S. Anglade-Constantin, S. Chang
Middle: S. Bilbao Y Leon, S. Okajima, M. Demeshko
Bottom: M. Berthelemy, A. Vaya Soler

NEA Technical Secretariat not appearing in the photo
C. Besnier, M. Bossant, S. Cornet, E. Lacroix, E. Leguillon, N. Soppera, X. Vasquez-Maignan, D. Zayani

Team members

Off course three Vice chairs appear

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Message

Action: Contact to Japanese shooting team (PD), if you would like to make it!

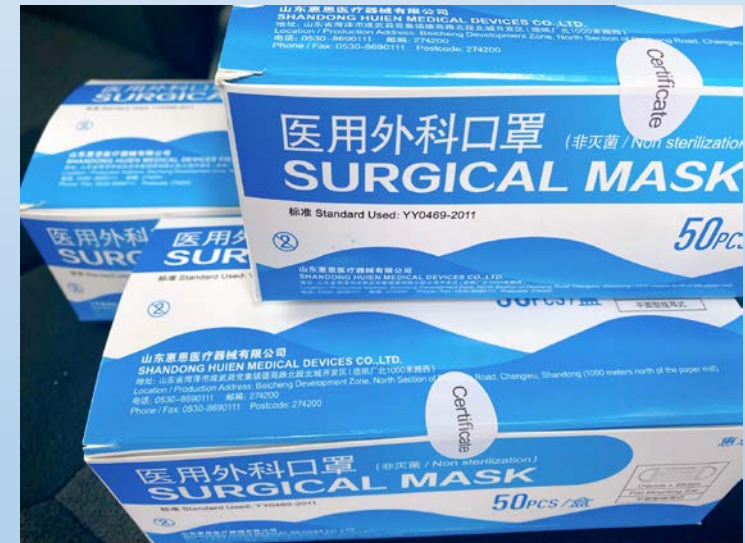
Other types of message video



Say hello under the lockdown

Japanese GIF team made a Greeting film to our GIF friends.

Any kind of methods are acceptable.
Thanks China for your masks.



Action: Click the below link.

<https://youtu.be/tjHap0ZxBel>

Webinar-GuideBook

Webinar-GuideBook

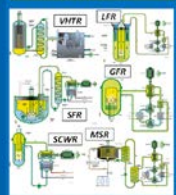
GIF Webinar Series

The GIF Education and Training Working Group invites you to participate in monthly webinars presented by speakers from around the world, explaining why GEN IV reactor systems are crucial for the sustainability of the nuclear fuel cycle. Launched in September 2016, the current webinar series includes 35 recordings of lectures already conducted and upcoming presentations tentatively scheduled through 2020.



Mission Statement

The GIF-ETTP serves as a platform to enhance open education and training as well as communication and networking of people and organizations in support of GIF.



Providing Opportunities to learn about advanced reactors

- Identify the stakeholder groups, and assess their needs for Generation IV E&T
- Create and maintain a social medium platform to exchange information and ideas on general Gen IV R&D topics as well as related GIF E&T activities
- Develop and launch webinar series on Gen IV systems and cross-cutting methodologies
- Propose, organize and/or support Gen IV E&T seminars

https://www.gen-4.org/gif/jcms/c_82831/webinars

Webinar list

- Introduction
 - 1-1. Atoms for Peace. The Next Generation
 - 1-2. Introduction to Nuclear Reactor Design
- Safety & Regulation
 - 2-1. Safety of Generation IV Reactors
 - 2-2. SFR Safety Design Criteria (SDC) and Safety Design Guidelines (SDGs)
 - 2-3. Passive Decay Heat Removal System
- Sustainability and Fuel Cycle
 - 3-1. Closing Nuclear Fuel Cycle
 - 3-2. Sustainability a Powerful and Relevant Approach for Defining Future Nuclear Fuel Cycles
 - 3-3. Scientific and Technical Problems of Closed Nuclear Fuel Cycle in Two Component Nuclear Energetics
 - 3-4. Molten Salt Actinide Recycler and Transforming System with and Without Th-U support: MOSART
- Generation IV System Design and Related Technology
 - 4.1. Fast Reactors in Performance and Feasibility stages and related technology
 - 4-1-1. Sodium Cooled Fast Reactors (SFR)
 - 4-1-2. European Sodium Fast Reactor: An Introduction
 - 4-1-3. Lead Cooled Fast Reactor (LFR)
 - 4-1-4. Advanced Lead Fast Reactor European Demonstrator : ALFRED Project
 - 4-1-5. MYRRHA an Accelerator Driven System Based on LFR Technology
 - 4-1-6. Gas Cooled Fast Reactor (GFR)
 - 4-1-7. The ALLEGRO Experimental Gas-Cooled Fast Reactor Project

1. Introduction

1-1. ATOMS FOR PEACE The Next Generation

Summary / Objectives:

This webinar provides a historical perspective on the Atoms for Peace program, which launched the development of nuclear power around the globe, and describes the current outlook for the development and deployment on the next generation of nuclear power (Generation IV).

Meet the Presenter:

Dr. John E. Kelly is the Deputy Assistant Secretary for Nuclear Reactor Technologies in the Office of Nuclear Energy, U.S. Department of Energy. He is responsible for the U.S. civilian nuclear reactor research and development portfolio, which includes programs on Small Modular Reactors, Light Water Reactor sustainability, and Generation IV reactors.



Main topics:

ATOMS FOR PEACE as the initiation program:
The President Eisenhower made in a very important speech at the United Nations, 1953. The speech is called the Atoms for Peace speech.

Main topics:

Risk and Safety Working Group :

The primary objective of GIF Risk and Safety Working Group (RSWG) is "Promote a consistent approach on safety, risk, and regulatory issues between Generation IV systems".
For this purpose, RSWG developed and has promoted a technology-neutral Integrated Safety Assessment Methodology (ISAM).

System	Neutron Spectrum	Coolant	Pressure (MPa)	Temperature at PCC (°C)	Fuel Cycle	Size (MWth)
LFR	Fast	Sodium	~15.5	~400	Closed	~3000
LFR	Fast	Lead	15.5-16.0	~400-450	Closed	~10-1000
MSR	Fast or Thermal	Thermostable Molten Salts	700-800	~500-550	Closed	~3000-10000
MSR	Fast	Sulfuric	15.5-16.0	500	Closed	50-1000
MSR	Thermal or Fast	NaCl-KCl	~20	520-535	Open-through or Closed	~3000-10000
VHTR	Thermal	Sulfuric	~15.5	~800-900	Open-Through	~100-400

Explanation of Safety & Reliability Goals (Defence in Depth) :

GIF Safety & Reliability Goals are corresponding with the concept of Defence in Depth.

- Excel in Operational Safety and Reliability
 - DiD Level 1-2 (N.O., AOO)
- Very low likelihood & degree of reactor core damage
 - DiD Level 2-3 [Design for severe accident prevention]
- Eliminate the need for offsite emergency response
 - DiD Level 4 [Design for severe accident mitigation]



Japanese Special webinar team is making Webinar Guidebook. 4 pages introduction for each webinar. (Meeting attachment pdf)

Complete until GIF 20th anniversary!

Members of GIF Education and Training Task Force



Chair: Patricia Paviet

Co-Chair: Konstantin Mikityuk

Members (13) in alphabetical order:

- | | | |
|----------------------|-----------------------|-------------------|
| Bucalossi, Andrea | Fratoni, Massimiliano | Harrison, Grace |
| Hwang, Il Soon | Kulikov, Evgeny | Jun, Sun |
| Latge, Christian | Liu, Xiaojing | Mihara, Takatsugu |
| Mikityuk, Konstantin | Mpoza, Nolutha | Nam, Youngmi |
| Paviet, Patricia | | |

As of Oct 2019

GIF leaflets



GIF Position Paper

GIF Webinars Leaflet

GIF Mission Leaflet

GIF Overall Leaflet

Presently transforming to fit web style.

Complete until GIF 20th anniversary!

Presently expanding them to fit 5 important field.

➤ GIF TV

Channel setting is finished. Continue to post, when new videos appear.

<https://www.youtube.com/channel/UCUUBIUGLAISeUU5msbHFmxw>

➤ GIF Chairs' interviews (including Corona Greeting video)

Kamide-san complete his interview. Who challenge the next?

If you can accept we connect the contents into GIF HP.

<https://youtu.be/GOjnUMYOEWI>

<https://youtu.be/tjHap0ZxBel>

➤ Webinar-GuideBook (attachment 1)

70% complete! Finish before 50th anniversary.

After ETWG/EG reviews, version 1 will be released.

➤ GIF leaflets (attachment 2,3)

A position paper, a webinar leaflet, two mission leaflets.

Convert into web style and connected into GIF HP.

Also will be distributed in PG-50!

Action:

Accept Knowledge Management activity supported by ETWG.

To hold Face to Face ETWG and consolidate related activities and make synergy!

Important meeting schedule (PG/EG, GIF symposium, GIF-IAEA, CEM Nice future)

PG-47/EG-41 in spring 2019 at Vancouver
 with GIF Flexibility WS (EMWG/SIAP-SSCs),
 SMR round table, CEM10 NICE future

PG-48/EG-42 in fall 2019 at Weihai
 = ANESS (China – GIF interface WS), LFR pSSC signature

GIF WS on R&D Infrastructures needs and opportunities
GIF WS on Advanced Manufacturing in Feb 2020
 = Industry –(Regulatory)– GIF interface in AMME, R&D collab.

PG-49/EG-43 in spring 2020, Virtual meeting

Future important meeting schedule

GIF-IAEA interface tele meeting in 8 July

=one 3 hour virtual meeting to discuss key points, starting 11:00GMT or later.

=Collaborations for Reactors, Safety, Market, R&D collab., PRPP, ET(KM/KT)
between GIF and IAEA

Main participants:

IAEA, PG chair, VCs, TD, TS, PD, SSC/WG/TF chairs

https://www.gen-4.org/gif/jcms/c_9493/external-collaborators

Find and strengthen collaboration with IAEA by direct presentations from each SSC/WG/TF level. (Because maximum 3hrs)

Future important meeting schedule

PG-50/EG-44 on 19-23 October, 2020, at Amboise, France

Original plan

= Joint WG-SSC (PRPP, RSWG),

= Ceremony for accession (as same as LFR pSSC at China)

= 20 years anniversary, 50th PG

Possibility/Necessity of Hybrid meeting style (Face to Face + Virtual meeting)

Option A: Face to Face meeting (+ Virtual meeting)

Option B: In case of 2nd wave of corona, another Virtual meeting

Option C: Others

Action:

We realized awfulness of virus and at the same time effectiveness of innovative tele technology and importance of face to face communication.

Need opinion/feedbacks from members about meeting style. We will gather opinion/feedbacks in June.

Example of detail for PG-50/EG-44

- **Day 1 - Oct 19 - EG only**
- **Day 2 - Oct 20 - EG + PG --> SSC, TF, WG updates presentations**
- **Day 3 - Oct 21 - PG only**
- **Day 4 - Oct 22 - Tour of Clos Lucé (Leonardo da Vinci's house)
and gala dinner to celebrate the 20th anniversary of GIF**
- **SIAP and EMWG meetings will be also held – need to communicate with TS**
- **PRPPWG is considering to have meetings in Amboise. Yet to be confirmed.**
- **We asked all SSCs, TFs, WGs to let the secretariat know if anyone wanted to co-locate an in-person meeting in Amboise, since most groups have missed many in-person meetings this year. No responses have been received so far.**
- **And with Gilles's exiting ideas!**

World Nuclear Exhibition (WNE) : Another 20 years anniversary event

8-10 December, 2020, at Paris-Nord Villepinte, France

Objectives: Publicity, Communication with outside GIF

Expected participants: NEA(TSs), PD, TD, PG VC(s), PG chair

<https://www.world-nuclear-exhibition.com/en-gb.html>

PG-51/EG-45 in spring 2021, Sydney (Need to reflect feedbacks)

accompanied SIAP and EMWG meetings (and AMME workshop?)

17-21 May, 2021, at Sydney, Australia

= We never miss to visit Sydney!

Proposed future PG/EGs:

PG-52/EG-46 in fall 2021 = EU (Need to reflect feedbacks)

= we need to start preparation.

(PG-53/EG-47 in spring 2022 = Switzerland?)

=decision with Amboise's feedbacks

GIF Symposium: not to conflict with FR21, so in 2022 or after

= need of candidate host for GIF Symposium