

Generation-IV International Forum Education and Training Task Force initiatives

K. Mikityuk and P. Paviet
on behalf of GIF-ETTF

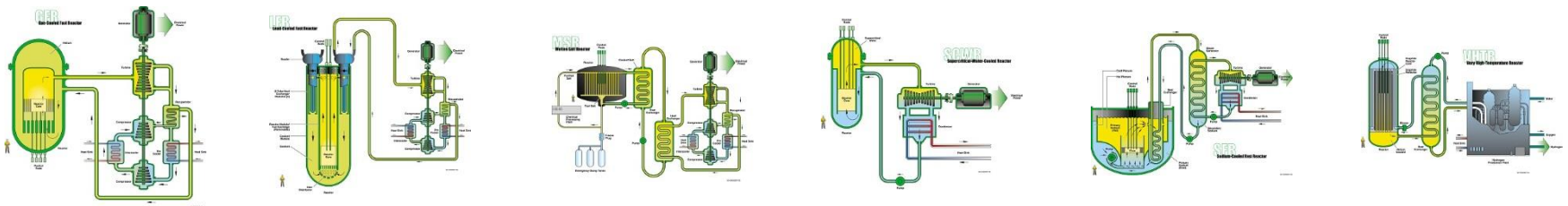


The Generation IV International Forum (GIF) is a co-operative international endeavour which was set up to carry out the R&D needed to establish the feasibility and performance capabilities of the next generation nuclear energy systems.

GIF has 14 Members which are signatories of its founding document, the GIF Charter.

The goals adopted by GIF provided the basis for identifying and selecting six nuclear energy systems for further development.

Depending on their respective degree of technical maturity, the first Generation IV systems are expected to be deployed commercially around 2030-2040.



GIF Education and Training Task Force

Established in 2015 as a platform to promote and enhance open E&T as well as communication & networking in support of GIF. What was done during 3 years:

- a social medium platform to exchange information on Gen-IV R&D topics and related GIF E&T activities



- collaboration with other international E&T networks

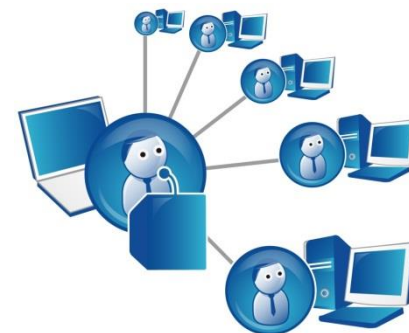


- support of training courses and schools

Summer School
on Nuclear
Reactors
2016



- 18-webinar series dedicated to Gen IV systems and related cross-cutting topics during last 18 months.



Members

- The GIF-ETTF members
 - Nominated by Policy Group members
 - 14 Members from 9 countries + EU



Paviet, Patricia (chair)



Mikityuk, Konstantin (Co-chair)



Alekseev, Pavel



Fazio, Concetta



Fratoni, Massimiliano



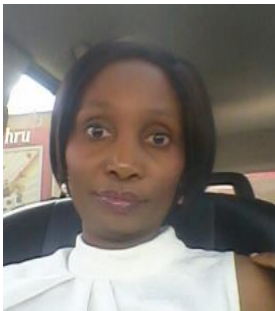
Hwang, Il Soon



Liu, Xiaojing



Mihara, Takatsugu



Mpoza, Nolitha



Nam, Youngmi



Harisson, Grace



Renault, Claude



Sun, Jun



Webinars. Archive on GIF portal

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GIF Portal - Webinars

ORGANIS COOPERATION _ (FR) | https://www.gen-4.org/gif/jcms/c_8427

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GEN IV International Forum

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Technology Systems

A Technology Roadmap for Generation IV Nuclear Energy Systems

Generation IV Goals



Generation IV Systems

Webinars

The GIF Education and Training Task Force has organised a webinar series which features speakers from around the world, explaining why GEN IV reactor systems are crucial for the sustainability of the nuclear fuel cycle. The webinar series was launched with a presentation by former GIF Chair John Kelly on "Atoms for Peace – the Next Generation" and will be followed by monthly webinars.



Series 1: Atoms for Peace - The Next Generation

▶ Webcast: 29 September 2016
Presenter: Dr. John Kelly, Department of Energy, USA

Watch WEBCAST  Download the [presentation](#) 



Series 2: Closing the Fuel Cycle

▶ Webcast: 19 October 2016
Presenter: Prof. Myung Seung Yang, Institute of Energy and Environment
Yongsan University, Republic of Korea

Watch WEBCAST  Download the [presentation](#) 

Series 3: Introduction to Nuclear Reactor Design

▶ 22 November 2016
Presenter: Dr. Claude Renault, CEA, France

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Webinars. Introduction

Atoms for Peace - The Next Generation

Dr. John Kelly
DOE
USA









Introduction to Nuclear Reactor Design

Dr. Claude Renault
CEA
France



Webinars. Gen-IV systems (1)

<p>Sodium Cooled Fast Reactors</p> <p>Dr. Bob Hill ANL USA</p>		
<p>Lead Fast Reactor</p> <p>Prof. Craig Smith US Naval Postgraduate School USA</p>		
<p>Gas Cooled Fast Reactor</p> <p>Dr. Alfredo Vasile CEA France</p>		

Webinars. Gen-IV systems (2)

Very High Temperature Reactors

Dr. Carl Sink
DOE
USA



Supercritical Water Reactors

Dr. Laurence Leung
CNL
Canada



Canadian Nuclear
Laboratories
Laboratoires Nucléaires
Canadiens

Fluoride-Cooled High-Temperature Reactors

Prof. Per Peterson
UC Berkeley
USA



Molten Salt Reactors

Dr. Elsa Merle
CNRS
France



Webinars. Operational experience

Design, Safety Features and Progress of HTR-PM

Prof. Dr. Yujie Dong
INET
Tsinghua University
China









Feedback Phenix and Superphenix

Dr. Joel Guidez
CEA
France



Webinars. Gen-IV cross-cutting topics

<p>Energy Conversion</p> <p>Dr. Richard Stainsby NNL UK</p>		
<p>Estimating Costs of Gen IV Systems</p> <p>Dr. Geoffrey Rothwell OECD/NEA France</p>		
<p>Materials Challenges for Gen IV Reactors</p> <p>Dr. Stu Maloy LANL USA</p>		

Webinars. Fuel types

General Considerations on Thorium as a Nuclear Fuel

Dr. Franco Michel-Sendis
OECD/NEA
France



Metallic Fuel for SFRs

Dr. Steven Hayes
INL
USA



Webinars. Sustainability and fuel cycle

Closing the Fuel Cycle

Prof. Myung Seung
Yang Youngsan University
ROK



Sustainability, A Relevant Approach for Defining Future Nuclear Fuel Cycles

Dr. Christophe Poinssot
CEA
France



What next?

General:

- Enhance communication on Gen IV systems by education and training initiatives e.g. webinars, MOOC, specific events and activities for students/young researchers

Short-term:

- Finish webinars scheduled until December 2018
- Continue cooperation with ENEN, AFRANEST, IAEA and other E&T groups
- Compile all webinars presented
- Database professors in nuclear engineering to promote students exchange

Long-term:

- Elevation of the task force to a GIF working group to explore bigger projects such as MOOC, book, coordination of students and postdocs working on GIF-related topics

“Because of the passion and grass root efforts from Professionals and Educators, the GIF-ETTF’s goal of creating an archive of online Gen IV systems webinar series becomes a reality”

Thank you for your attention

Questions?