

GIF 国内ニュースレター #3

3 Aug. 2020



Group photo: Some of the over 60 participants participating in the virtual meeting.

[1] 第14回 GIF-IAEA Interface Meeting

7月8日にWebexを用いて、GIF-IAEA間のインターフェース会合を行いました。本会合は、5月27日に行われたGIFの政策会合での議題のうち、特にIAEAと関係を強化したいトピックスを抽出し、IAEA側と協議を行ったものです。

このGIFとIAEAの関係強化の動きに関しては、IAEA側からも強く歓迎されており、本会合は、Mr Mikhail CHUDAKOV（エネルギー局次長）及びMr Dohee HAHN（原子力部長）のリードのもと、Mr Stefano MONTI（原子力発電技術開発セクション長）、Mr Brian David BOYER（INPROセクション長）、Mr Henri PAILLIERE（計画・経済性検討セクション長）から関連状況の説明が行われたほか、安全局原子力施設安全部からも、今後の協力強化に対する強い要望が提示されています（安全局との協議に関しては、改めて次号以降でお伝えします）。

また、IAEAから「Next Generation Nuclear Reactors: IAEA and GIF Call for Faster Deployment」というタイトルのニュース記事として報告されました。なお、下記IAEAサイトから会議資料を閲覧することが可能です。

<https://www.iaea.org/newscenter/news/next-generation-nuclear-reactors-iaea-and-gif-call-for-faster-deployment>

[https://nucleus.iaea.org/sites/htgr-kb/gif-iaea/SitePages/14th%20GIF-IAEA%20\(2020\).aspx](https://nucleus.iaea.org/sites/htgr-kb/gif-iaea/SitePages/14th%20GIF-IAEA%20(2020).aspx)

13:00	Session I: Opening Session	
13:00	Welcoming Address by NE DDG	Mr M. Chudakov (I)
13:05	Objective introduction and Self-Introduction of Participants (Highlights of GIF activities for material share)	Mr N. Kawasaki (G) Mr D. Hahn (I) / All
13:20	GIF 2019 Annual report	Mr G. Rodriguez (G)
13:30	IAEA activities on Advanced Reactor Technology and areas of cooperation	Mr S Monti (I)
13:40	Discussion to find collaboration items (including QA)	All
13:50	Session II: Opportunities and challenges under the increased flexibility on nuclear systems as attractiveness in social market	
13:50	GIF EMWG analysis for the impact of increasing share of renewables on the deployment of GEN IV Nuclear Systems and future items to be developed	Ms M. Moore (G)
14:00	New INPRO Service on scenario modelling and analysis to support sustainable development of nuclear energy.	Mr B. Boyer (I)
14:10	Overview of current activities and publications in PESS, including costing approaches	Mr Henri Paillere (I)
14:20	Discussion to find collaboration items (including QA)	All
14:30	Session III: International standardization of Safety design and apply into Regulation	
14:30	NSNI Activities and Priorities Related to Advanced Nuclear Reactor Safety	Ms V Rangelova (I)
14:40	GIF RSWG activities for Gen IV safety evaluation and future collaboration with IAEA (including future SMR point of views)	Mr T. Sofu (G) Mr S. Kubo (G)
14:50	Discussion to find collaboration items (including QA)	All
15:05	GIF PRPPWG activities for Gen IV PRPP evaluation	Mr Lap-Yan CHENG (G)
15:15	INPRO activities on Proliferation Resistance	Mr B. Boyer (I)
15:25	Update on Agency Safeguards-by-Design Activities	Mr J. Whitlock (I)
15:35	Discussion to find collaboration items (including QA)	All
15:45	Session IV: Connect our results and appeal to the world (network, education & publicity)	
15:45	GIF webinar activities & networking	Ms P. Paviet (G)
15:55	PowerInvest - Insights into the Costs and Benefits attached to Investments in the Power Sector	Mr S. Dardour (I)
16:05	Discussion to find collaboration items (including QA)	
16:15	Session V: GIF-IAEA cooperation matrix	
16:15	Any other cooperation areas added and agreed in the cooperation matrix, priorities and responsibilities	Mr F. Reitsma (I) Mr G. Rodriguez (G)
Note:	<i>Subject owners should have discussed and already updated the IAEA-GIF Cooperation Matrix before this session. Also add new activities !</i>	
16:25	Closing Remarks	Mr G. Rzentkowski (I) Mr H. Kamide (G)
16:30	Meeting adjourned	

[2] GIF秘書団からの定期告知内容



GIF秘書団はメーリングリストを用いて活動情報を発信しております。その内容は、毎月開催しているGIFのウェビナーの案内やNEAが発行しているNews Letterの紹介、政策グループ会合の情報共有など多岐にわたっております。

直近の発信内容をご紹介しますと、一つ目は、GIF 2019 Annual Report発行のお知らせです。

7月末に発行した、このAnnual Reportは2019年のGIF各組織の活動状況を示したのですが、プロジェクトの推進状況のみならず、技術的な検討内容や関連論文リストも含んだ内容となっております。

このAnnual Reportは以下のリンクから入手することができます。

https://www.gen-4.org/gif/jcms/c_119024/gif-2019-annual-report

もう一つは、7月29日に開催されたGIFウェビナーの紹介です。IAEA原子力発電技術開発セクションのReitsma氏から、「小型モジュール炉（SMR）技術開発の概要」についてご講演いただきました。約300名の方が視聴するほどの大盛況であり、SMR技術への関心の高さが伺えました。

GIFのウェビナーについては、GIF関係者のメーリングリストだけでなく、日本原子力学会に依頼してAESJ NEWSとしてメーリングリストに配信していただいております。

次回のGIFウェビナーは8月26日に「熔融塩炉の安全評価－米国の見地から－」を開催予定です。皆様どうぞご参加ください。

Join us on July 29, 2020
for the next **GEN IV** webinar
Overview of Small Modular Reactor Technology Development

Nuclear electricity generation started with prototype- and test reactors of a small size and low power. Relatively quickly these were replaced by increasingly larger nuclear power plants due to increased needs, economy of scale and limited available sites. For several years the interest in small modular reactors (SMRs) has increased with over 50 concept designs now under development. The IAEA defines SMRs as advanced nuclear power plants with one or more individual modules that each produce electric power up to 300 MWe. A module may be built in factories and shipped to nuclear sites for installation and added as the need arises. All advanced technologies are included (water cooled, Gen-IV systems and micro-reactors). SMRs claim enhanced passive safety features, simplified design and operations, economy by numbers and the flexibility in hybrid energy systems and non-electric applications. The webinar highlights the attractive features of SMRs, major challenges, the current status of SMR technology and near-term deployment plans.

Free webcast

July 29, 2020 at 8:30 am (EDT) (UTC -4)



Register NOW at
Registration URL:
<https://attendee.gotowebinar.com/register/7016925286117373965>

Who should attend: policy makers, managers, regulators, students, general public

Meet the Presenter...

Mr. Frederik Reitsma is the Team Leader for SMRs in the Nuclear Power Technology Development Section of the International Atomic Energy Agency (IAEA) in Vienna. He joined the IAEA nearly 7 years ago and manages, coordinates and supervises the projects in this area. He provides technical and program leadership by identifying key future trends and technology development needs in cooperation with Member States. Previously, he was head of the High Temperature Gas Cooled Reactor project. Frederik holds a master's degree in Reactor Science and has published more than 90 papers. He has been invited as a speaker to many international workshops and conferences and led several international cooperation projects (such as OECD/NEA and GIF). He is a reactor physicist by training with extensive experience in SMRs and HTGRs nuclear engineering and analysis with core neutronics design and safety as focus areas. He worked on the South African PBMR project in different leadership positions for 13 years. For the first 10 years of his career, he contributed to the OSCAR reactor calculational system development and performed cycle and reload analysis.

