

CIGS International Symposium "Geoengineering and CCUS: Their Role in Managing Climate Change Risks"

- 【日 時】 2019年10月8日(火) 13:30~16:00 (13:00 受付開始)
- 【会 場】 東京大学弥生講堂 一条ホール
(東京都文京区弥生 1-1-1 東京大学農学部内)
- 【登壇者】 David Keith / デイビット・キース
(Gordon McKay Professor of Applied Physics, Harvard John A. Paulson School of Engineering and Applied Sciences)
Masahiro Sugiyama / 杉山 昌広
(東京大学未来ビジョン研究センター 准教授)
- 【モデレーター】 Taishi Sugiyama / 杉山 大志
(キャノングローバル戦略研究所 研究主幹)
- 【言語】 日本語 / 英語 (同時通訳あり)
- 【定員】 250名
- 【主催】 一般財団法人 キャノングローバル戦略研究所
- 【共催】 東京大学未来ビジョン研究センター 国際エネルギー分析と政策研究ユニット

【講演概要】

Geo-engineering technology, or Solar Radiation Management, has been proposed as a potential technological solution to climate change. One of the techniques is to cool down the earth by injecting sulfur particles into a high layer of atmosphere. It may provide the opportunity to control greenhouse effect in a short period of time at cheap costs.

Carbon Capture, Utilize and Storage (CCUS) is another group of technology that captures CO₂ from either flue gas or the atmosphere in order to utilize or store underground. Prof. David Keith has been developing a process that absorbs CO₂ from the atmosphere and synthesizes with hydrogen, thereby providing carbon neutral fuel.

Prof. David Keith, a leading scholar in R&D and promoter of the above technologies, will present the current status and future outlook. The panelists, with the audience, will share the latest information and discuss the benefits, costs and risks and consider the research, development and risk management strategy of the technologies.

【プログラム】

13:30 - 13:40	Introduction Taishi Sugiyama, Research Director, CIGS
13:40 - 14:40	"Geoengineering and CCUS : Their Role in Managing Climate Change Risks" David Keith, Gordon McKay Professor of Applied Physics, Harvard John A. Paulson School of Engineering and Applied Sciences
14:40 - 15:10	Comments Masahiro Sugiyama, Associate Professor, Institute for Future Initiatives (IFI), University of Tokyo
15:10 - 16:00	Discussion Moderator : Taishi Sugiyama Panelist : David Keith, Masahiro Sugiyama

【発表者プロフィール】

David Keith (デイビット・キース) : Gordon McKay Professor of Applied Physics, Harvard John A. Paulson School of Engineering and Applied Sciences / Professor of Public Policy, Harvard Kennedy School

David Keith has worked near the interface between climate science, energy technology, and public policy for twenty-five years. He took first prize in Canada's national physics prize exam, won MIT's prize for excellence in experimental physics, and was one of TIME magazine's Heroes of the Environment. David is Professor of Applied Physics at the Harvard School of Engineering and Applied Sciences and Professor of Public Policy at the Harvard Kennedy School, and founder of Carbon Engineering, a company developing technology to capture CO₂ from ambient air to make carbon-neutral hydrocarbon fuels. Best known for his work on the science, technology, and public policy of solar geoengineering, David led the development of Harvard's Solar Geoengineering Research Program, a Harvard-wide interfaculty research initiative. His work has ranged from the climatic impacts of large-scale wind power to an early critique of the prospects for hydrogen fuel. David's hardware engineering projects include the first interferometer for atoms, a high-accuracy infrared spectrometer for NASA's ER-2, and currently, the development of pilot plants for Carbon Engineering and the development of a stratospheric propelled balloon experiment for solar geoengineering. David teaches courses on Science and Technology Policy and on Energy and Environmental Systems where he has reached students worldwide with an online edX course. He has writing for the public with A Case for Climate Engineering from MIT Press. Based in Cambridge, David spends about a third of his time in Canmore, Alberta.

Masahiro Sugiyama (杉山 昌広) : 東京大学未来ビジョン研究センター 准教授

米国マサチューセッツ工科大学にて Ph. D. (気候科学) および修士号 (技術と政策) を取得。東京大学サステナビリティ学連携研究機構特任研究員、一般財団法人電力中央研究所社会経済研究所主任研究員を経て 2014 年 4 月より東京大学政策ビジョン研究センター講師、2017 年 4 月より同准教授。主な著書に『気候工学入門-新たな温暖化対策ジオエンジニアリング』(日刊工業新聞社、2011 年)、主な論考に Sugiyama et al. (2016, Nature, <http://doi.org/10.1038/531029a>.)

Taishi Sugiyama (杉山 大志) : キャノングローバル戦略研究所 研究主幹

気候変動に関する政府間パネル (IPCC) において、統括執筆者、主執筆者等として、2007 年および 2014 年の報告書執筆にあたった。現在、1.5 度特別報告書主執筆者を務める。経済産業省産業構造審議会産業技術環境分科会地球環境小委員会委員、経済産業省長期地球温暖化対策プラットフォーム国内投資拡大タスクフォース委員等を歴任。著書に『地球温暖化とのつきあいかた』(2014 年、ウェッジ社)、『地球温暖化問題の探究-リスクを見極め、イノベーションで解決する-』(2018 年、デジタルパブリッシングサービス) 等多数。