お知らせ 「Pacifichem 2025」(2025 年 12 月 15 日) への PFAS 対策技術コンソーシアムの参加について」(2025 年 11 月 18 日更新)

2025 年 11 月 18 日更新

最新情報は下記をご確認ください。App インストールで最新プログラムなど更新情報の取得が可能です。

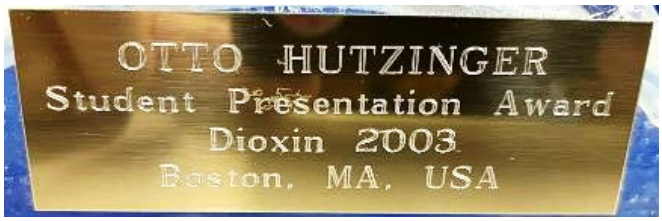
https://pacifichem.org/

「Pacifichem 2025」開催まで一月となりましたので、特に関連性の深い講演者についてご紹介します。 順次更新予定です。

産業技術総合研究所 環境創生研究部門 副部門長
PFAS Total Solutions 代表
https://unit.aist.go.jp/env-mri/img/PFASsol20251105.pdf

谷保佐知 博士



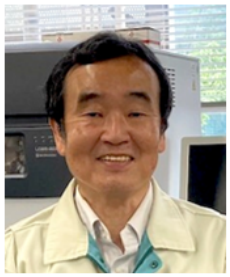


Title of lecture:

Challenges in PFAS Total Analysis: An Interlaboratory Trial of Target, TOP assay, and EOF-CIC Methods for Water, Soil, and Resin Samples,

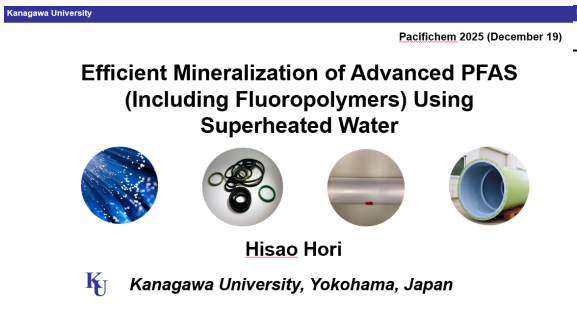
神奈川大学
堀久男　教授

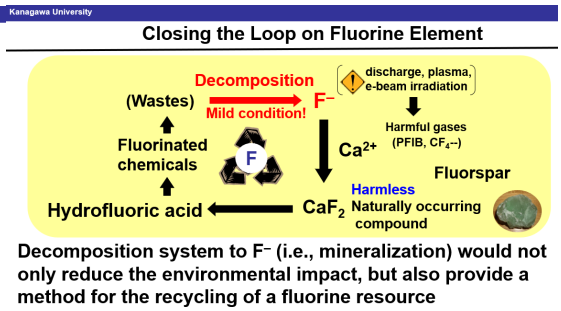
Biography↵
Prof. Dr. Hisao Hori↵



Hisao Hori received his Ph.D. degree in 1990 from Keio University. He worked as a researcher at Toshiba Corporation for three years before joining the National Institute for Resources and Environment (later National Institute of Advanced Industrial Science and Technology, AIST, Tsukuba) as a Senior Researcher. He was also a Visiting Researcher at Max-Planck-Institut für Kohlenforschung (Mülheim an der Ruhr, Germany, 1997-1998). In 2004, he was appointed Group Leader at AIST, and since 2010 he has been a Full Professor at Kanagawa University. ↵

He received the Tsukuba Award for Chemistry and Biological Technology from the Tsukuba Foundation for Chemical and Bio-Technology (2007), the Honda Award for Recycling Technology Development from the Japan Environmental Management Association for Industry (2017), and the Environmental Chemistry Academic Award from the Japan Society for Environmental Chemistry (2024).↵
↵
His current research interests include environmental remediation, resource recovery, and green production related to critical raw materials and functional materials.↵

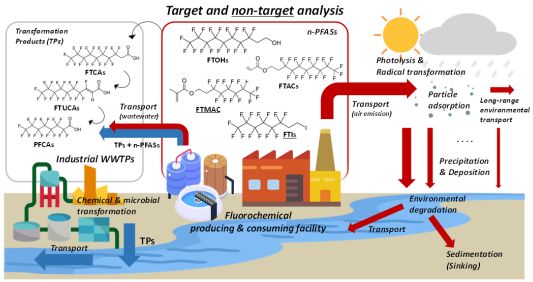


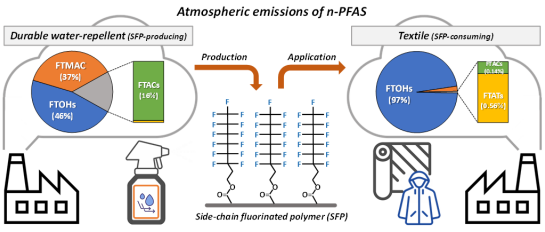


Decomposition system to F^- (i.e., mineralization) would not only reduce the environmental impact, but also provide a method for the recycling of a fluorine resource

Hanyang University, Korea
Hyo-Bang Moon 教授

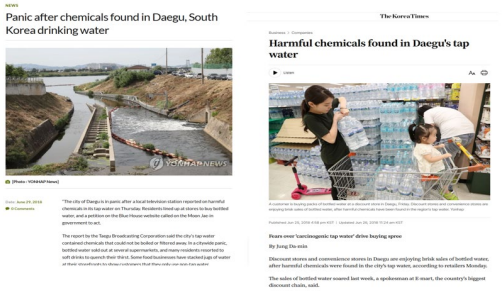
Dr. Hyo-Bang Moon has been a Professor in the Department of Marine Science and Convergence Engineering at Hanyang University, Korea, since 2010. He is an environmental analytical chemist with extensive expertise in environmental chemistry, wildlife ecotoxicology, and human exposure to persistent organic pollutants (POPs) and emerging contaminants. He received his PhD from Pukyong National University in 2003 and worked as a research scientist at the National Institute of Fisheries Science from 1999 to 2010.Since 2000, he has published more than 280 peer-reviewed articles on marine pollution, bioaccumulation processes, analytical method development, and biomonitoring of organic contaminants. His current research focuses on the environmental fate and bioaccumulation of POPs and emerging contaminants in freshwater and coastal ecosystems, top predatory wildlife species (e.g., sharks, marine mammals, and birds), and humans. From 2020 to 2024, he served as a member of the POPs Review Committee (POPRC) under the Stockholm Convention of the United Nations Environment Program (UNEP). He is currently Associate Editors for Ecotoxicology and Environmental Safety (EES) and Frontiers in Marine Science (Marine Pollution) and the editorial boards of several international journals. In 2023-2025, Dr. Moon was listed among the world's top 2% scientists by Stanford University and Elsevier.



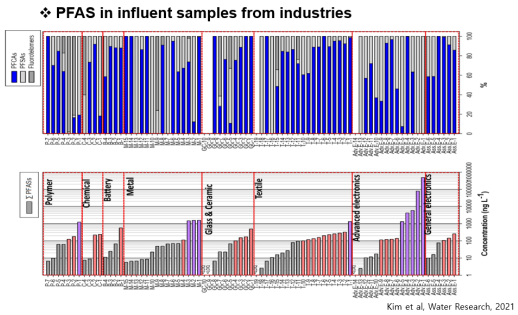


Pusan National University, Korea
Jeong-Eun Oh 教授

Dr. Jeong-Eun Oh is a professor in the Department of Environmental Engineering at Pusan National University in South Korea. She received her Ph.D. degree from POSTECH and completed postdoctoral fellowships at Georgia Tech and US EPA. Currently, she serves as the Director for the Institute of Environment and Energy at Pusan National University and as Associate Editor of Water Research. Since 2004, she has conducted research on the fates and human exposure to persistent organic pollutants and micropollutants using mass spectrometry. In the past decade, she has published over 150 SCI/E papers and edited a book titled "Emerging Halogenated Flame Retardants in the Environment" as part of the comprehensive analytical chemistry book serious in 2020. Her current research interests are "Emerging Contaminants in the Environment and Human Exposure", "Environmental Forensics using High Resolution Mass Spectrometry", "Per and Polyfluorinated Substances in the Environment" and "Assessment of Public Health through Wastewater Based Epidemiology".



- PFAS contamination in tap water of the Nakdong river basin (2018)
- Addition of PFOA, PFOS (70 ppt) and PFHxS (480 ppt) to the chemical watch list in drinking water



Kim et al, Water Research, 2021

2025 年 6 月 13 日更新

「Pacifichem 2025」プログラムが確定しました。

Symposium: Deciphering the impact of PFAS on Environment and Health
Hawaii Convention Center において 3 日間、4 回のセッションとなります。
Session 1, Thursday, December 18, 1:00 PM – 5:00 PM
Session 2, Friday, December 19, 8:00 AM – 12:00 PM
Session 3, Friday, December 19, 1:00 PM – 5:00 PM
Session 4, Saturday, December 20, 8:00 AM – 12:00 PM
現時点で 37 報の研究発表が登録されており、特に重要な招待講演を下記に記載します。

Long term temporal trends of PFAS in fish in the High Arctic. Evidence for continuing global sources and the influence of climate warming, Derek Muir

Mechanisms of PFAS degradation: Routes to suitable modeling, Angela Wilson
Efficient mineralization of advanced PFAS (including fluoropolymers) using superheated water, Hisao Hori

Challenges in PFAS Total Analysis: An Interlaboratory Trial of Target, TOP assay, and EOF–CIC Methods for Water, Soil, and Resin Samples, Sachi Taniyasu

Target, suspect, and non-target analyses of novel and neutral PFASs surrounding fluorochemical Industries: A call for action on atmospheric emissions, Hyo-Bang Moon
Trifluoroacetic acid – The "forever molecule" formation pathways from hydrofluorocarbons in the atmosphere, Allen Vincent

Sensitive new total organic fluorine method to identify PFAS hotspots in surface waters and detect PFAS in new firefighting foams, Susan Richardson
Potential human health and environmental impacts of trifluoroacetic acid, the ultimate transformation product of some refrigerant gases and many other fluorinated chemicals, Keith Solomon

Electrocatalytic Reactivity of Pyridine–Alkoxide–Based Copper Complexes for the Degradation of PFOA in Organic and Aqueous Environments, Prasenjit Sarkar

Investigation on the Perfluoroalkyl substances (PFAS) removal and degradation mechanisms by Vacuum UV (VUV) /ARP technology, Yi Zhang

いずれも PFAS だけでなく POPs 問題のカリスマ研究者（特に Derek Muir と Keith Solomon ‼)が一堂に会し、最新の PFAS 研究について open discussion を行います。PFAS 対策技術コンソーシアム会員からも発表登録を頂いており、PFAS 環境修復技術についても海外の最先端技術(光分解・生物分解・電気化学分解等、従来の熱分解技術以外の環境安全性の高い技術がクローズアップ ‼ ）について学ぶことができる絶好の機会です。

特に下記、山下の発表とアメリカ化学会前会長の Angela Wilson の発表の際には、現在喫緊の課題となっている「米国研究者の日本国内への受け入れ」について「PFAS 対策技術コンソーシアムとアメリカ化学会協賛」で打ち合わせを予定します。この機会に米国の頭脳との直接コンタクトをご希望の方は本シンポジウムに是非ご参加ください。事前に事務局までご相談いただければセッション以外での研究者との打ち合わせセッティングも可能です。

Session 1, Thursday, December 18, 1:00 PM - 5:00 PM
PFAS 問題解決への日本の挑戦 - PFAS 対策技術コンソーシアムの役割
How to define PFAS problem in Japan - role of CAR-PFAS Japan (the consortium for analysis and remediation of per- and poly-fluoroalkyl substances), Nobuyoshi Yamashita (AIST)

Session 3, Friday, December 19, 1:00 PM - 5:00 PM
PFAS 分解技術最適化のためのモデル化学
Mechanisms of PFAS degradation: Routes to suitable modeling, Angela Wilson (アメリカ化学会前会長)

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お知らせ 「Pacifichem 2025」(2025 年 12 月 15 日）への PFAS 対策技術コンソーシアムの参加について」

アメリカ化学会前会長の Angela K. Wilson 教授からの要請により、PFAS 対策技術コンソーシアムの Pacifichem 2025 (ハワイ, 2025 年 12 月)への参加が決定しました

Pacifichem は 5 年おきに、世界中の研究者が最新研究成果を共有するために、環太平洋の中心に位置するハワイ諸島で開催する世界最大規模の国際研究集会です。PFAS 対策技術コンソーシアムと連携する多数の国内外研究者・産業界の参加を予定しますので、ふるってご参加ください。 PFAS 対策技術コンソーシアムの会員には参加特典も用意しております。

Pacifichem 2025 の開催情報は下記をご確認ください。

https://pacifichem.org/

PFAS 対策技術コンソーシアムがオーガナイザーとなるシンポジウムは下記となります。

Deciphering the impact of PFAS on Environment and Health
Organizers: Narasimhan Loganathan (ACS), Divina Angela Navarro (ACS), Nobuyoshi Yamashita (AIST), Angela Wilson (ACS)

現在、キーノートスピーカー、スポンサー等調整中ですので、積極的な参加をご希望の方は事務局までお知らせください。特に要望があれば、オーガナイザーチームのアメリカ化学会(ACS)やPacifichem2025 事務局他と調整可能です。既に PFAS 対策技術コンソーシアム会員のスポンサー登録も進めており、「日本が開発した PFAS 対策技術を世界的へアピール」する絶好の機会ですので、ふるってご参加ください。