

September 9, 2025

**INPEX Employee Presented Best Paper Award from International Technical Journal
for Study on Optical Fiber Sensing Technology**

TOKYO, JAPAN - [INPEX CORPORATION](https://www.inpex.com) (INPEX) announced that employee Shotaro Nakayama's paper on innovative research findings was selected for the 2024 Best Paper Award by The Leading Edge (TLE), an international academic journal published by the Society of Exploration Geophysicists. The research findings address the subject of distributed acoustic sensing (DAS) technology deployed in enhanced oil recovery (EOR) demonstration tests utilizing carbon dioxide (CO₂). The paper was commended at the annual meeting of the Society of Exploration Geophysicists (SEG) held in Houston, Texas, in August 2025, underscoring the international recognition of INPEX's technical capabilities.



INPEX employee Shotaro Nakayama with Society of Exploration Geophysicists (SEG) President Joseph Reilly at the SEG annual meeting award ceremony in Houston, Texas

In the 2025-2027 Mid-term Business Plan formulated in February 2025, INPEX set a goal of acquiring competitive advantages through strategic research and development (R&D). Going forward, the company will continue to combine its existing technologies and capabilities with knowledge acquired through R&D to develop the competitive edge of its existing businesses and create new businesses.

About The Leading Edge (TLE)

Published by the Society of Exploration Geophysicists (SEG), TLE is a globally authoritative technical journal specializing in the field of geophysical exploration that publishes studies on the latest technologies and their applications.

About the winning paper

The paper entitled “Diverse applications of DAS and their added values: A case study from Minami-aga pilot CCUS project, onshore Japan” studies the application of DAS technology in a CO₂EOR demonstration test jointly conducted with the Japan Organization for Metals and Energy Security (JOGMEC) in Agano City, Niigata Prefecture, and describes the industry’s first-ever attempt to acquire and process seismic data using DAS data from multiple wells. The paper was commended for demonstrating the applicability of DAS technology to CCS and other fields. The authors of the paper are as follows:

Nakayama, S., Yamada, Y., Fujita, K., Mouri, T., Bettinelli, P., Le Calvez, J., Maehara, Y., Mizuno, T., Armstrong, P., Podgornova, O. and Bidyck, R.

The paper can be viewed on the following link:

[The Leading Edge, 43\(11\), pp.720-725](#)

About INPEX

INPEX is Japan’s largest exploration and production (E&P) company, engaged in the development and operation of oil and gas projects worldwide. We are committed to contributing to a brighter future by delivering energy in a sustainable way. As part of this commitment, we are also engaging in lower-carbon solutions such as CCS, hydrogen and integrated power supply, while pursuing new opportunities in the evolving energy landscape.

For more information, visit <https://www.inpex.com/english/index.html>.

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