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Association & Member News

FOSA News



FOSA Winter Meeting Features Tour of Atmos Energy Gas City

The Fiber Optic Sensing Association [Winter Meeting](#), sponsored by Texas811, is shaping up to be an outstanding event. In addition to top-tier presentations about the latest fiber optic sensing developments and fun networking opportunities, the meeting will feature an insightful technical tour of the **Atmos Energy Gas City** at the Charles K. Vaughan Center.

Boost your expertise, expand your network, and examine fiber optic solutions firsthand by joining FOSA in Dallas on Nov. 17-19, 2026. We look forward to welcoming our members there!

FOSA welcomes TRAXyL, Inc. to the FOSA member community. TRAXyL delivers high-speed fiber broadband and other infrastructure using existing pavement and rails. We're grateful to have TRAXyL as part of our ever-growing organization.



FOSA is thrilled to welcome our newest bronze member, OTFSI. Based in Switzerland, OTFSI provides specialized consulting and engineering services in optical fiber sensing, with expertise in distributed fiber optic sensing for infrastructure monitoring. Welcome to our ever-growing community of fiber optic sensing system and equipment leaders.



Member News

AP Sensing

[AP Sensing and Sumitomo Electric Enable Monitoring of 600+ km HVDC Submarine Cables](#)

AP Sensing and Sumitomo Electric have demonstrated a new approach to continuous monitoring of long-distance HVDC submarine cables. By combining Distributed Acoustic Sensing (DAS) with advanced optical transmission technology, the solution can monitor cable systems spanning more than 600 km. The joint development received the Best Paper Award for Future Cable Systems and Innovative Cable Applications (Category B1 PS1) at the CIGRE Paris Session 2026.

Clearfield

[Clearfield Expands Wireless Infrastructure Market Reach Through Distribution Agreement with WAV](#)

Seeclearfield.com, September 2, 2026

Clearfield, Inc. has entered into a North American distribution alliance with WAV to expand access to its fiber, power, and wireless network infrastructure solutions, including its FieldSmart® FiberFlex active cabinets and TetherSmart™ terminals. The partnership targets the growing wireless market by leveraging

WAV's technical expertise and logistics reach to help operators simplify complex edge deployments where fiber and wireless technologies converge.

FEBUS Optics

FEBUS Optics: French Innovation Bringing Fiber Optics to the World State

In just ten years, FEBUS Optics has become one of the world's leading players in Distributed Fiber Optic Sensing. From its headquarters in Pau, the company develops technologies capable of transforming miles of optical fiber into intelligent sensors used to monitor critical infrastructure around the world.

Read the [press release](#).

Luna Innovations

WEBINAR: One Fiber Optic Cable, Many Threats: Real-World DFOS Lessons from Natural Gas to CO₂, Ammonia and Sour Gas

Business Wire, July 28, 2026

FOSA Board Member Dane Langen (Global Segment Lead Security & Safety at Luna Innovations) will present a webinar on November 9 exploring how Distributed Fiber Optic Sensing (DFOS) enhances critical pipeline protection. Drawing from major projects like TANAP and BTC, the session highlights how pairing Distributed Acoustic Sensing (DAS) with Distributed Temperature Sensing (DTS) provides continuous, long-distance detection of leaks and third-party threats across pipelines carrying natural gas, CO₂, ammonia, and sour gas.

SAMM Teknoloji

SAMM Teknoloji Earns Elite US Conec MMC & TMT Certification

Business Wire, July 28, 2026

SAMM Teknoloji has officially achieved the MMC Connector and TMT Ferrule Termination Certificate from US Conec LTD under standard TN-1000 (Version 2.0). This validation confirms our team's technical precision and expertise in advanced fiber optic assembly, reinforcing our commitment to delivering high-performance, high-density connectivity solutions to global partners.

Fiber Optic Sensing News

International Pipeline Geotechnical Conference

The IPG 2027 – International Pipeline Geotechnical Conference will take place in Curitiba, Brazil, from 18–21 May 2027, bringing together leading pipeline operators, specialists, researchers, technology providers and institutions from across the Americas and beyond. The conference will address the critical challenges of geohazard management, pipeline integrity and resilience in the face of climate change, with a strong focus

on monitoring, risk assessment, mitigation and innovative technologies. For the fiber optic sensing community, IPG 2027 offers a highly relevant platform to demonstrate how advanced distributed and monitoring solutions can support earlier threat detection, geohazard management and safer, more resilient pipeline infrastructure. We invite fiber optic sensing and technology leaders to sponsor IPG 2027, showcase their expertise, connect with key decision-makers and help shape the future of pipeline monitoring and integrity. [The abstract submission deadline is October 30, 2026](#).

[See Why Resilient Cities Start with Early Threat Detection](#)

Heading to the Resilient City Expo 2026 in Houston on October 14–15? **FOSA Member Network Integrity Systems (NIS)** will be exhibiting at the George R. Brown Convention Center to showcase the latest innovations in emergency management and resilient infrastructure. Be sure to connect with their team to discover how early threat detection is driving the future of urban resilience.

[AI monitoring enables early conveyor fault detection](#)

Mining Weekly, August 14, 2026

As mines pursue higher productivity and safer operations, the mining industry is moving towards continuous, AI-driven monitoring that will allow for early fault detection and predictive maintenance, says Huawei. By combining distributed acoustic sensing (DAS) with existing fibre-optic cables, Huawei is able to deploy systems to continuously monitor vibration and acoustic signals along an entire conveyor belt system.

[An Optical-Fiber Probe for Glacial Crevasses](#)

Optics & Photonics News, August 2026

Mountaineers, climate scientists and polar explorers all worry about hidden crevasses that can destabilize glaciers and ice shelves. Researchers in Switzerland, a country with plenty of snow and ice, have verified that a type of optical-fiber sensor can reveal the extent of subsurface cracks in glaciers

[In Seconds, Fiber Optic Cables Detect Earthquake Size](#)

Cal Poly Humboldt, July 27, 2026

Researchers from the USGS and Cal Poly Humboldt have discovered a way to estimate the final magnitude of an earthquake using just the first four seconds of seismic wave data. Published in Nature Communications, the study trained machine learning models to detect subtle low-frequency signatures using Distributed Acoustic Sensing (DAS). By offering faster, more precise estimates of earthquake size, this innovation could enhance early warning systems, give communities extra seconds to take safety precautions, and extend monitoring offshore to improve tsunami warnings.

[Battelle Partners with Silicon Audio Seismic to Advance Ground Motion Sensing at NEON Site](#)

EcoMagazine, September 8, 2026

Battelle has partnered with Silicon Audio Seismic and Subsea Data Systems to deploy advanced ground-motion sensing technology at a National Ecological Observatory Network (NEON) site in Fort Collins, Colorado. The joint project combines fiber-optic Distributed Acoustic Sensing (DAS) with high-frequency broadband seismic stations equipped with real-time cloud telemetry and monitoring capabilities. By co-

locating DAS with calibrated seismometers, the team aims to use AI tools to fuse relative and absolute measurements, unlocking deeper insights into ground motion and environmental signals that neither technology can resolve alone.

Safe and sound conveyor monitoring

Australian Mining, August 5, 2026

REMA TIP TOP and Terra15 have teamed up to deploy the Automated Roller Monitoring System (ARMS), an advanced condition-monitoring solution that leverages Distributed Acoustic Sensing (DAS) and machine learning to detect mining conveyor roller failures before they lead to costly downtime. By sending laser pulses down a maintenance-free fiber-optic cable installed along conveyor structures, Terra15's Treble interrogator captures real-time acoustic and vibrational signatures, which are then analyzed using adaptive, multi-algorithm models via REMA TIP TOP's cloud-based AssureSrv platform.

Upcoming Webinars

- [Visit our webinars page for updates](#)

Recent FOSA Webinars

- [DTS for Modern Energy Systems: Early Fault Detection Across Solar PV and Underground Cables](#)
- [Scaling Fiber Optic Sensing for Critical Energy Infrastructure: Lessons from BRUA and the Future of Pipeline Monitoring](#)
- [Advancing Integrity Monitoring for Utility Water Mains](#)

[View More FOSA Webinars on Our YouTube Channel](#)

Upcoming FOSA Events

- **10/14/2026** Technology Committee Meeting

- **10/16/2026** Outreach Committee Meeting
- **11/5/2026** Monthly Member Call
- **11/6/2026** Membership Recruitment Committee Meeting
- **11/17-11/19/2026** Winter Meeting in Dallas, Texas

[View FOSA's Event Calendar](#)

Other Industry Related News

Damage Prevention

[Fiber sensing may have helped prevent fiber cut that caused massive flight delays](#)

Fierce Network, September 22, 2026

A recent high-profile East Coast airport disruption highlighted the critical need for proactive infrastructure protection after a severed backup fiber-optic cable grounded major flights. The incident underscores how Fiber Optic Sensing (FOS) technology can safeguard key networks by detecting real-time ground vibrations and warning operators before accidental cuts occur.

Addressing the widespread impact of excavation damage, **FOSA board member and past chairman Paul Dickinson** noted that U.S. underground digging causes over \$80 billion in damages annually. As fiber expansion accelerates to support AI data centers and critical networks, Dickinson urged industry leaders to integrate sensing early.

Subsea Power Cables

[Sumitomo Electric Wins Best Paper Award – World's First Technology to Detect Anomalies in 600 km HVDC Submarine Cables](#)

Sumitomo Electric, September 28, 2026

Sumitomo Electric Industries, Ltd. has successfully developed a world's first technology for early detection of external damage and anomalies in long-distance HVDC submarine cables extending over 600 km.

The technology was demonstrated using ultra-low-loss optical fibre and EDFA technologies combined with a Distributed Acoustic Sensing (DAS) system from AP Sensing GmbH. The paper received the Best Paper Award at CIGRE Paris Session 2026.

[Vineyard Wind, GE Vernova settle lawsuit](#)

Boston Business Journal, September 16, 2026

Vineyard Wind and GE Vernova have reached a confidential settlement, ending their legal dispute following a 2024 turbine blade failure that caused major delays and financial claims.

Transition piece installation at Inch Cape now complete

Energy Global, August 7, 2026

All 54 monopile transition pieces have been installed at the Inch Cape offshore wind farm, enabling the next phases of construction including pin pile installation and turbine deployment.

NATO allies foil Russian subsea cable sabotage plot

The Japan Times, September 10, 2026

NATO forces intercepted Russian submarines simulating deployment of a weapon designed to disable critical subsea cables near Svalbard, prompting the vessels to withdraw.

Export Cables, Offshore Substation In Place at Fengmiao Offshore Wind Farm

Offshore Engineer, August 6, 2026

Taiwan's 495 MW Fengmiao I project has completed installation of two subsea export cables and 99 pin piles, advancing toward full commissioning.

Pipeline Monitoring

LSU develops fiber-optic sensor system to identify pipeline gas leaks

Pipeline & Gas Journal, September 23, 2026

LSU researchers have developed fiber-optic sensor coatings capable of identifying specific escaping gases in real time, eliminating blind spots in early leak detection.

By differentiating between CO₂, nitrogen, methane, humidity, and airflow, operators can respond faster and more precisely to critical leaks.

Why were CT residents woken by jet engine-like sounds?

CT Public Radio, September 29, 2026

Equipment failures at the Oxford Compressor Station caused a massive venting event releasing over 35 million cubic feet of natural gas in under an hour. The high-pressure release produced deafening, jet engine-like noises that alarmed neighboring communities, underscoring critical safety and environmental risks surrounding pipeline infrastructure.

Infrastructure

Rising Power Prices Put Spotlight on Grid Monitoring and Fiber-Based Infrastructure

TipRanks, September 27, 2026

Prisma Photonics highlights the use of existing OPGW fiber for span-level grid monitoring as demand and electricity prices rise.

Nauticus Robotics, Inc. and Strangeworks Collaborate on AI-Optimized Deployment of Undersea Fiber-Optic Sensing Networks

PR Newswire, August 4, 2026

The collaboration pairs Nauticus' autonomous subsea robotics with Strangeworks' advanced compute platform to optimize deployment of distributed fiber-optic sensing networks.

Border Security

Iranian media pushing for regime to sever international undersea fiber-optic cables in Hormuz

Jerusalem Post, September 3, 2026

Hardline Iranian media figures are urging disruption of international subsea cables in the Strait of Hormuz, despite acknowledging such actions would violate international law.

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