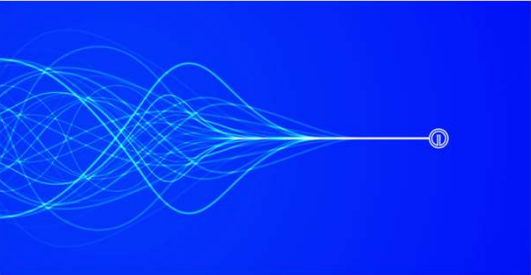


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We measure with light

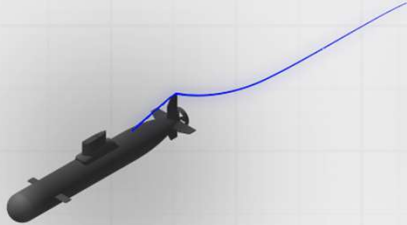


—
🏆 “The world's thinnest and most sensitive fiber optic hydrophone array”

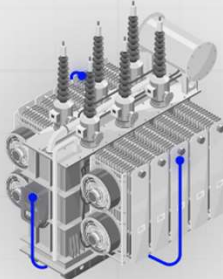
—
🏆 “The world's only commercial fiber optic acoustic emission sensing system for partial discharge monitoring”

—
🏆 “The world's most sensitive and accurate FBG monitoring system”

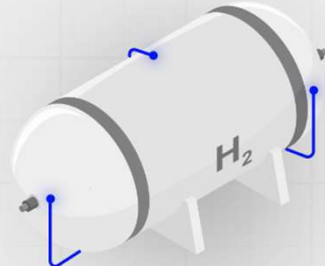
Defense



Energy



Industrial



Fiber Optic Sensing systems @ Optics11

OptiFender

The world's only fiber optic sensing system for partial discharge monitoring



NovaFAZ

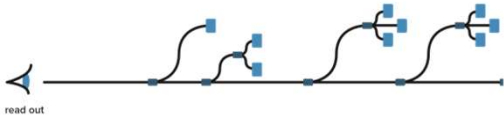
Accurate and precise fiber optic monitoring system



- Strain
- Temperature
- Acceleration
- Pressure
- Tilt

DeltaSens

Extremely sensitive acceleration sensing system



OTADES

Thin and highly sensitive fiber optic hydrophone array



The Opportunity

Possible sensing needs

- Temperature and T gradient
- Pressure
- Vacuum compromise (cryogenic storage has high vacuum insulation)
- Flow sensing
- Photo-acoustic Spectroscopy (Fiber-Optics allows multiplexing) for H₂ and O₂ concentrations
- Acoustic Leak detection
- Flame and fire (heat, H₂ flame is hard to detect visually)
- Strain
- Vibration and shock (accelerometers)
- ...

Sensing purpose

- Safety monitoring (e.g. leakage)
- Process monitoring (e.g. flow, concentration, ...)
- Process control, life-time extension (fuel cells)
- Structural health monitoring
- Predictive maintenance
- Process modelling
- R&D stages of new installations
- Metering (custody transfer)

Netherlands

Opportunities on Fiber Optic Sensing:

- PhD team exchange of experience
- Mutual guest lecture
- Common development projects on FOS
- POC and pilot projects
- Project execution and support

I would love to continue the conversation.

Please e-mail us at meus.vanderpoel@optics11.c

Optics11:
Sensitivity and Accuracy
in harsh environments



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