OFS30 Preliminary Program

30th International Conference on Optical Fiber Sensors

30 November–4 December 2026 | Raleigh Convention Center, Raleigh, USA

All times are Raleigh local time (EST, UTC−5), shown in 24-hour format. This preliminary schedule is subject to change. Updates: ofs30.org.

Monday 30 November 2026

Time	Program
10:30–12:30	**Pre-conference tutorials** Morning sessions **Distributed Fiber-optic Sensing, Including DAS and Related Technologies** Derek Rountree, Luna Innovations **Machine Learning for Optical Fiber Sensing: Generalization, Adaptation, and Real-World Deployment** Shaobo Han, NEC Labs
12:30–13:30	**Lunch** For pre-conference tutorial registrants
13:30–14:30	**Pre-conference tutorials** Afternoon sessions TBD
15:30–18:00	**Workshop: Emerging Trends and Innovations in Integrated Photonics and Sensing**
15:30–16:00	**Wide-Band Nonlinear Optics in Silicon Nitride: Kerr Optical Parametric Oscillation, Photogalvanic Second-Harmonic Generation, and an Emerging Material Platform** Xiyuan Lu
16:00–16:30	**Energy-Efficient Heterogeneous Photonics for Next Generation AI and Hardware Accelerators** Stanley Cheung
16:30–17:00	**Coffee break**
17:00–17:30	**Photonic Integrated Circuit (PIC) Technologies for Chemical and Biological Sensing at AIM Photonics** C. Baiocco, Y. Timalsina, A. Dikshit, G. Leake, J. Wallner, D. Harame, T. Stievater, B. Miller, J. Hu, and A. Agarwal
17:30-18:00	**TBD**
18:00–20:00	**Welcome reception**

Tuesday 1 December 2026

Time	Paper	Presentation title and authors
09:00–09:15	**Opening ceremony**	
09:15–10:15	**Plenary** **Emerging Optical Fiber Technologies and Their Opportunities for Optical Fiber Sensing** Ming-Jun Li Corning Incorporated, USA	
10:15–10:45	**Coffee break**	
10:45–12:00	**Tu1 Distributed reflectometry and thermometry**	
10:45–11:15	Inv.	**Range Expansion of OFDR and Its Applications** Fumihiko Ito Shimane University, Japan
11:15–11:30	110	**Hierarchical Coding enabled Optical Frequency Comb Spectrum-Correlation Reflectometry** Zhonghong Lin
11:30–11:45	46	**Sub-band correlation averaging for large error suppression in WS-COTDR sensing** Xin Lu, Sebastian Chruscicki, Konstantin Hicke
11:45–12:00	185	**Remotely pumped optical fiber heating for distributed active thermometry** Laura Hernández-Martín, Miguel Soriano-Amat, Juan Diego Ania-Castañón, Hugo F. Martins
12:00–13:30	**Lunch**	
13:30–15:00	**Tu2 Brillouin sensing and measurement methods**	
13:30–14:00	Inv.	**Distributed Plastic Optical Fiber Sensing** Heeyoung Lee Shibaura Institute of Technology, Japan
14:00–14:15	37	**Frequency-Modulated Continuous-Wave Encoding for Computational Brillouin Fiber Sensing** Youhei Okawa, Hidemi Tsuchida, Hiromitsu Furukawa
14:15–14:30	45	**Millimeter-Scale Distributed Brillouin Sensing Using a BDG-Based OFDR System** Young Hoon Kim, Kwanil Lee, Kwang Yong Song
14:30–14:45	150	**Pump-Depletion Mitigation in Time-Domain BOCDA Using Anti-Stokes Brillouin Loss Detection** Radomyr Diachenko, Kwanil Lee

Time	Paper	Presentation title and authors
14:45–15:00	123	**Forward stimulated Brillouin scattering in nickel-coated single-mode fibres towards magnetic field sensing** zhang minghua, Yichun Li, Haoran Xie, Jianxiang Wen, Mengshi Zhu, Heming Wei, Fufei Pang, Tingyun Wang, Liang Zhang, Marcelo Soto
15:00–15:30	**Coffee break**	
15:30–17:00	**Tu3 DAS methods and long range telecom fiber sensing**	
15:30–16:00	Inv.	**Optical Polarization-Based Sensing with Submarine Telecom Fibers: Geophysical and Oceanographic Applications** Antonio Mecozzi University of L'Aquila, Italy
16:00–16:15	62	**Sensitivity Limits for ϕ-OTDR** Juan M. Marin, Roman Ermakov, Huwei Wang, Francesco Da Ros, Darko Zibar
16:15–16:30	56	**High Acoustic Bandwidth Distributed Fiber Optic Acoustic Sensor Based on OFDM Modulation** Daniele Orsuti, Luca Palmieri, Luca Schenato, MARTINA CAPPELLETTI, Marco Santagiustina, Andrea Galtarossa, Massimo Zampato, Axel Turolla
16:30–16:45	190	**Environment-Aware Fiber-Health Monitoring for Subsea ϕ-OTDR Systems** Huwei Wang, Lukas Bernhardt, André Sandmann, Marko Tikas, Roman Ermakov, Juan M. Marin, Esther Renner, Francesco Da Ros, Bernhard Schmauss, Darko Zibar
16:45–17:00	76	**Rayleigh Fingerprint-Based DAS over a 688-km Repeatered Fiber Link Using 500-MHz Chirped Pulses** Daniele Orsuti, Luca Palmieri, Ruben Soares Luis, Jun Sakaguchi, MARTINA CAPPELLETTI, Marco Santagiustina, Luca Schenato, Andrea Galtarossa, Hideaki Furukawa
17:30–19:00	**Poster Session I** 64 posters. Listings follow the daily agenda.	

Wednesday 2 December 2026

Time	Paper	Presentation title and authors
08:30–9:30	**Plenary** **Taking the Pulse of Cities Above and Below Ground with Fiber-Optic Sensing** Biondo Biondi Stanford University, USA	
9:30–10:00	**Coffee break**	
10:00–11:30	**W1 Photonic interrogation and microfabricated sensors**	
10:00–10:30	Inv.	**Distributed Acoustic Sensing and Integrated-Photonic Interrogation** Zuyuan He Shanghai Jiao Tong University, China
10:30–10:45	9	**AIF-assisted silicon photonic integrated interrogator for DAS** Zhicheng Jin, Jiageng Chen, Zhengyuan Xiao, Jiazhen Ji, Zhengwen Li, Hanzhao Li, Keke Hu, Xuhui Yu, ZUYUAN HE
10:45–11:00	114	**Towards OFDR-based distributed fiber sensing on a silicon chip** Sebastian San Martin, Isey Bekele Meka, Javier Elaskar, Yonas Muanenda, Fabrizio Di Pasquale, Marcelo Soto, Claudio Oton
11:00–11:15	111	**High-performance OFDR based on dual electro-optic frequency combs** shuyan chen, Huan He, Jingchuan Wang, Zhiyong Zhao, Ming Tang, Chao Lu
11:15–11:30	108	**Real-Time Characterization of Nanoparticles in Solution Using Fiber-Tip Photonic Crystal Cavities** Hasan Yalcinoglu, René P.J. van Veldhoven, Ewold Verhagen, Andrea Fiore
11:30–13:00	**Lunch**	
13:00–14:30	**W2 Quantum optics and optomechanical sensing**	
13:00–13:30	Inv.	**Ultraminiature Optical Fiber Mass Sensor Based on a 3D Microprinted Fiber-Top Optomechanical Microbalance** Shangming Liu, Peng Wang, Xiuhua Yang, A. Ping Zhang The Hong Kong Polytechnic University (China)
13:30–13:45	43	**Bright Seeded and Quasi-Continuous Two-Mode Intensity Squeezing in Commercial Fiber** Elad Zehavi, Avi Zadok, Alon Bernstein, Michal Natan, Yosef London, Ohad Buch, Avi Pe'er
13:45–14:00	15	**Dual-comb photoacoustic Brillouin spectroscopy in a gas-filled hollow-core optical fiber** Zihang PENG, Hanyu Liao, Haihong BAO, Yingying Wang, Wei Jin

Time	Paper	Presentation title and authors
14:00–14:15	131	**Polarimetric Frequency-Noise Discriminator Based on Brillouin Fiber Ring Lasers** Jorge Canudo, Elena Maldonado Denche, Miguel Soriano-Amat, Maria Rosario Fernández-Ruiz, Sonia Martín López, Miguel González Herráez, Javier Preciado-Garbayo, Pascual Sevillano Reyes, Jesús Subías
14:15–14:30	135	**Condition Monitoring of Pipelines Using Multipoint Ultrasonic Fiber-Optic Acoustic Sensors** Khurram Naeem, Pengdi Zhang, Enrico Sarcinelli, Paul R. Ohdonicki
14:30–15:00	**Coffee break**	
15:00–15:15	**OFS Lifetime Achievement Award**	
15:15–16:15	**W3 Biomedical and wearable sensors**	
15:15–15:45	Inv.	**Fiber-Coupled Optical Microresonator with a Dielectric Pickup for MRI-Relevant RF Electric Field Sensing** Ahmed S. Zikrallah, Jordan L. Edmunds, Onur Afacan, Soner Sonmezoglu Northeastern University (USA), University of California, Berkeley (USA), Harvard Medical School (USA)
15:45–16:00	26	**Multicore Fiber Bragg Sensors for finger motion tracking** Eduarda Marinho, Ricardo Oliveira
16:00–16:15	177	**FBG-Based Wearable Hand Gesture Sensor for Human-Robot Interaction and Rehabilitation** Jingtong Wu, Weiliang Zhao, Jialei Zuo, Xiangpeng Xiao, Qizhen Sun, Zhijun Yan School of Optical and Electronic Information, Huazhong University of Science and Technology, Wuhan, Hubei 430074, China
16:30–18:30	**Plenary Session with Sponsors** Presentation details to be announced	

Thursday 3 December 2026

Time	Paper	Presentation title and authors
08:00–09:00	**Plenary** **Fiber Optic Sensing for Harsh Environment Applications** Christian Petrie Oak Ridge National Laboratory (USA)	
9:00–9:15	**Th1 Harsh environments and radiation sensing**	
9:15–9:45	**Coffee break**	
9:45–11:15	**Th1 Harsh environments and radiation sensing**	
9:45–10:15	Inv.	**Sapphire Photonic Crystal Fiber Bragg Grating Sensor** Tongyu Liu, Mohan Wang, Zipei Song, Richard Reeves, Frank P. Payne, Igor N. Dyson, Kaihui Zhang, Tao Wang, Jian Zhang, Zhitai Jia, Patrick S. Salter, Martin J. Booth, Julian A. J. Fells University of Oxford (UK), Shandong University (China)
10:15–10:30	31	**High-sensitivity Radiation Detection Based on Perovskite Quantum Dot-doped Polymer-silica Fiber** Fan Chen, Jianxiang Wen, Chengyong Hu, Yanhua Dong, Yanhua Luo, Yi Huang, Sujuan Huang, Tingyun Wang
10:30–10:45	44	**Long-term Annealing and Stability at High Temperature of Femtosecond Laser Sapphire Fiber Bragg Grating** Antoine Bourel, Thomas Blanchet, Leo Colliard, Geraud Bouwmans, Sylvain Magne, Guillaume Laffont
10:45–11:00	119	**Near-Infrared Temperature Dependent Radiation-Induced Attenuation in B/Ge-Doped Optical Fibers** Ethan Sinley, Matthew Leoschke, Zachary Van Horn, Federico Scurti
11:00–11:15	165	**Observability-Driven Co-Design of Multi-Sensor Optical Fiber Instrumentation for Nuclear Reactor State Monitoring** Aabid Hassan, Siddhartha P Duttagupta
11:15–12:45	**Lunch**	
12:45-14:15	**Th2 Distributed sensing in infrastructure and field applications**	
12:45–13:15	Inv.	**Environmental monitoring and large-scale early-warning systems** María R. Fernández-Ruiz University of Alcalá, Spain

Time	Paper	Presentation title and authors
13:15–13:30	34	**Seismic Tomography of a Hydropower Dam Using Distributed Acoustic Sensing and Passive 2D MASW** João Paulo Bazzo, Jean Carlos Cardozo da Silva, Choon Park, Uilian J. Dreyer, Larissa W. Kulik, André B. Di Renzo, Beatriz Brusamarello, Gustavo Macioski, Daniel Pipa, Sidnei H. C. Teixeira, Gilson A. Brunetto, Luis F. P. Melegari, Cicero Martelli
13:30–13:45	104	**Distributed Acoustic Sensing for Crowd Monitoring at a Mass-Participation Road Race** Jorge Canudo, Diego Gella, Pascual Sevillano Reyes, Javier Preciado-Garbayo
13:45–14:00	173	**Field Demonstration of Fiber Route Reconstruction Using Co-Registered Rayleigh DAS/DTSS and Multi-Anchor Correspondence** Jian Fang, Ming-Fang Huang, Tingfeng Li, Scott Kotrla, Jeffrey A. Mundt, Junqiang Hu, Ting Wang, Yoshiaki Aono
14:00–14:15	48	**Optical Continuity Detection in Aerial Optical Cables Using Bend-Induced Light Leakage and Lock-in Thermography** Tomokazu Oda, Ryo Murata, Masami Miyazaki, Hiromu Hashimoto
14:15–14:45	**Coffee Break**	
14:45–16:15	**Th3 Chemical gas and refractive index sensing**	
14:45–15:15	Inv.	**Hetero-Core Optical Fiber Sensors for Chemical, Plasmonic, and Environmental Sensing** Michiko Nishiyama Soka University, Japan
15:15–15:30	13	**Crosslinker-Regulated PEI-Based Ion-Imprinted Reflective Modal Sensors for Cd2+ Detection** Xujie Wang, Abdullah Al Noman, Xuguang Huang, Changyuan Yu
15:30–15:45	58	**Temperature decoupled Hydrogen Sensing with Pd:Au Coated dual-FBG Fabry-Pérot Etalons** Anja Braunmüller, Johannes Roths, Fabian Buchfellner, Markus Becherer
15:45–16:00	66	**Interference-Subtraction Cross-Correlation Fitting for Trace Ethane Detection in High-Methane Background via Hollow-Core Fiber Photothermal Spectroscopy** Mengrui Han, Shuangxiang Zhao, Wei Jin
16:00–16:15	124	**Nested Dual-Cavity Refractive Index Sensor Combining Selective Chemical Etching and Fiber Bragg Gratings** David Barrera, Elena Lorente Cantarero, Emanuele De Cristofaro, Lucía Arques, Elham Nazemosadat, Javier Madrigal, Salvador Sales
16:00–17:30	**Poster Session II** 62 posters. Listings follow Poster Session I.	

Time	Paper	Presentation title and authors
18:30–21:00	**Conference banquet**	

Friday 4 December 2026

Time	Paper	Presentation title and authors
09:00–10:30	**F1 Physical shape and multiparameter fiber sensing**	
09:00–09:30	Inv.	**Large-scale Fiber-optic Sensor Systems for Seismic Imaging** Ole Henrik Waagaard Alcatel Submarine Networks (Norway)
09:30–09:45	63	**Near-Infrared Optical Strain Sensing Based on Cholesteric Liquid Crystal Elastomers** Nahyeon Hwang, Min Yong Jeon, Soyeon Ahn, Min Su Kim, Ji Su Kim, Sung Yoon Cho, Minjun Kim
09:45–10:00	78	**Shape sensing using 500 m optical cable** Hyuga Kurokawa, Hideaki Murayama, Shintaro Nakamoto, Makito Kobayashi, Kiyoshi Kamimura, Nobumoto Hanzawa, Takashi Matsui, Kazuhide Nakajima
10:00–10:15	67	**Multipoint temperature and humidity monitoring in a PEM fuel cell test bench using fiber Bragg gratings** Roman Kruglov, Jonathan Brendle-Behnisch, Bastian Werner, Rainer Engelbrecht
10:15–10:30	92	**Minimal invasive FBG based Temperature Sensing in Thermal Runaway Experiments for Safety Research** Reinhard Klambauer, Hartmut Popp, Andrey Golubkov, Lukas Liedl, Alexander Bergmann
10:30–11:00	**Coffee break**	
11:00–12:30	**Post-deadline session** Papers and authors to be announced	
12:30–13:00	**Closing ceremony**	
13:00–14:00	**Lunch**	

Poster Session I

Tuesday 1 December 2026 | 17:30–19:00 | 66 posters

All posters in this session are presented during the period above. Posters are grouped by topic; the paper number is the submission ID. Paper 189, previously P2-012, is now P1-066 in this session.

OFDR reflectometry and Raman sensing

Poster	Paper	Presentation title and authors
P1-001	8	**Optical fibers for distributed humidity sensing** Michael J. Joyce, Andrei Stolov, Ping Lu, Matthew Popelka, David Burgess
P1-002	64	**Distributed strain rate sensing based on Doppler effect in optical frequency domain reflectometry** Yuyao WANG, Ning DENG
P1-003	83	**Single-frequency Raman temperature sensing in dispersion-compensating fiber based on near-Rayleigh anti-Stokes scattering** Ariasu Tamura, Koki Mita, Yosuke Mizuno
P1-004	99	**Over 20 km OFDR-type dynamic distributed strain measurement using Negative Frequency Component Diffusion Method** Akiko Tada, MASARU KOSHIHARA, Takanori Saitoh
P1-005	100	**High-Precision Distributed Velocity Sensing with Wide Measurement Range** Wei ziqiao, Cuofu Lin, jun yang, Qin Yu Wen
P1-006	152	**High-Precision Large-Strain Demodulation in OFDR Using Spectral-Domain Dynamic Time Warping** Liu Ao, Cuofu Lin, jun yang, Guo Ruihai
P1-007	171	**1-cm Spatial Resolution Distributed Fiber-Optic Ultrasonic Senser Based on OFDR Scheme** Rongrong Niu
P1-008	179	**Frequency-Division-Multiplexed Optical Correlation-Domain Reflectometry for Simultaneous Full-Length and Local Measurements** Soshi Yoshida, Takaki Kiyozumi, Sze Yun Set, Shinji Yamashita, Yosuke Mizuno

Brillouin sensing

Poster	Paper	Presentation title and authors
P1-009	75	**All-Analog Brillouin Optical Correlation Domain Analysis for Ultrafast Real-Time Strain Mapping** Kwang Yong Song

Poster	Paper	Presentation title and authors
P1-010	88	**Sample-count dependence of Brillouin gain spectra in BOCDR with periodic pseudo-random modulation** Takumi Morikawa, Yoshitomo Murata, Yosuke Mizuno, Heeyoung Lee
P1-011	125	**Metal-Coated Optical Fiber for Distributed Corrosion Monitoring using Stimulated Brillouin Scattering** Nageswara Lalam, Badri Mainali, Hari Datta Bhatta, Ruishu F. Wright
P1-012	130	**Detecting hotspots shorter than the spatial resolution in BOTDR with inverse methods** Thibault North, Christian Buntebarth, Benjamin Efunbajo, Arran Gillies, Tobias Zacherle
P1-013	192	**Long Range Gas Pipeline Hoop Strain Monitoring Using PCA - Trained Shallow Probabilistic Neural Network in BOTDA** Hari Datta Bhatta, Nageswara Lalam, Matthew Brister, Sandeep Reddy Bukka, Ruishu F. Wright
P1-064	189	**Benefits and limitations of tailored-probe slope-assisted BOTDA** Avraham Itzhak Shalev, Moshe Tur

DAS methods and telecom links

Poster	Paper	Presentation title and authors
P1-014	17	**A Wrap Consistent Integer Branch Recovery Method for Phase Unwrapping Error Correction in Distributed Acoustic Sensing** Zongrui Ma, Yuzhe Sun, Mengjie Wu, Chao Wang
P1-015	32	**Elliptope-based denoising for distributed acoustic sensing** Konstantinos Theofilos Drylerakis, Mohammad Belal, Rafael Mestre, Timothy J. Norman, Christine Evers
P1-016	65	**Sampling Rate Dependent Representation Trade-offs for Leakage-Safe DAS Event Sensing** Yangmin Ding, Yue Tian, Sarper Ozharar, Yusuf Elbana, Ting Wang
P1-017	72	**Fading-resilient chirped electro-optic frequency-comb ϕ-OTDR using reliability-aware weighted rotated vector summation** Desheng Li, Zhiyong Zhao, Ganggang Li, Faisal Nadeem Khan
P1-018	89	**300km Ultra-Low Frequency Distributed Acoustic Sensing with Inner-Pulse Frequency-Division Fading Suppression** Ke Ai, Cunzheng Fan, Tao He, Yukang Luo, Hao Li, Zhijun Yan, Qizhen Sun
P1-019	115	**Large dynamic range distributed acoustic sensing using ultra-weak fiber Bragg grating array with spectral phase-shift demodulation** Hongyu Huang, Xiangpeng Xiao, Can Chen, Zhonghong Lin, Huan He, Zhiyong Zhao, Zhijun Yan, Ming Tang

Poster	Paper	Presentation title and authors
P1-020	141	**Experimental Characterization of DD-COTDR Distributed Sensing Sensitivity Under High-Speed Optical Communication Co-Propagation** Natalia Herguedas, Pascual Sevillano Reyes, David Izquierdo, Ramón Cajal-Pérez, Jesús Subías, Ignacio Garcés
P1-021	159	**DAS-NanoNet: Scenario-Adaptive Search of Sub-2K Parameter Neural Networks for Distributed Acoustic Sensing Recognition** Gao Yuan, Yu Tao, Xuzhe Zhang, Xuhui Yu, Yanyang Wan, ZUYUAN HE
P1-022	183	**Hybrid Distributed Acoustic and Strain Measurements for Time-Multiplexed Multi-Parameter Sensing** Surabhi Raj, Subbash Padmanabhan, Balaji Srinivasan
P1-023	202	**Fading Mitigation and Event Detection using Distributed Acoustic Sensing in Buried Multi-core Fiber** Elisa Prathibha Mathew, Balaji Srinivasan

DAS field applications

Poster	Paper	Presentation title and authors
P1-024	19	**Identifying Acoustic Signatures of Internal Pipeline Metal Loss Using Fiber-Optic Distributed Acoustic Sensing** Alaaeddine Rjeb, Juan M. Marin, Abderrahim Fakiri, Shaj K. Manjalivalapil, Mohamed Hassan, Abdelsalam AlSarkhi, Ali Al Alwan, Mahmoud A. Mohamdin, Rahul Gajbhiye, Islam Ashry, Boon Ooi
P1-025	47	**Application of Masked Autoencoder to DAS-based Construction Vibration Monitoring Using Telecommunication Optical Fibers** Taichi Murakami, Shuhei Eguchi, Ryota Sumiya, Hiromu Hashimoto
P1-026	132	**25 km Pilot Study on DAS-Based Pipeline Leak and Intrusion Detection Using Bare and HDPE Optical Fibers** Anand VP, Arsath A. Ayubali, Surabhi Raj, P. S. Harrish, Nandhakishore C. S., Rakesh Kumar Mandal, T. P. Yuvaraj, Balaji Srinivasan
P1-027	153	**Microseismic Monitoring in Tunnel Excavation Using Enhanced Distributed Acoustic Sensing** Guoheng Qi, Wentao Zhang, 义钱 黄, Hongbin Xu, Wenzhu Huang, Feng Li, Yanliang Du
P1-028	163	**Distributed Acoustic Sensing for Debris-Flow Monitoring in a Physical Flume: System-Level Challenges and Experimental Results** Silvia Zampato, Luca Schenato, Nora Poursalimi, Yujiao Li, Luca Sarno, Pia Rosella Tecca, Maria Clorinda Mandaglio, Gianluca Marcato, Claudia Guarnaccia, Domenico Rossi, Luca Palmieri, Giacomo Viccione, Alessandro Pasuto, Andrea Galtarossa

Poster	Paper	Presentation title and authors
P1-029	170	**Field Demonstration of PIG Tracking and Acoustic Characterization Using Telecom Fiber and DAS** Sarper Ozharar, Ming-Fang Huang, Mariano Devigili, Aleksandra Kaszubowska-Anandarajah, Daniel Kilper, James Freeman, Phelim Dolan, Yue Tian
P1-030	187	**All-Season Wind-Speed Estimation from Telecom-Fiber DAS with Implications for Dynamic Line Rating** Mohammadreza Bakhtiari, Yangmin Ding, Junhao Ran, Yue Tian, Ting Wang
P1-031	203	**Detection of Low Altitude Drones Using Fiber-Wrapped Balloon and Distributed Acoustic Sensing** Arjunkumar G, Hari Kesava Moorthy, Balaji Srinivasan

Interrogation fabrication and microdevices

Poster	Paper	Presentation title and authors
P1-032	21	**PS-FBG with interferometric interrogation achieving 2.5x10-6 pm/√Hz wavelength noise toward DFB fiber laser performance** Lun kai Cheng, Lorenzo Scherino, Wim de Jong, Alvaro Gonzalez Jimenez, Benoit Quesson, Daniele Piras, Kees de Meijere, Paul van Neer, Rob Jansen
P1-033	55	**Thermo-optical control of a hybrid three-section wavelength tunable laser for Fibre Bragg Gratings Interrogation** Gabriel Dogat, Jean-Baptiste Quelene, Benoit Mottet, Thomas Blanchet, Guillaume Laffont
P1-034	113	**Oil-free fabrication of Bragg gratings in coated fibers using adaptive optics** Zipei Song, Tongyu Liu, Mohan Wang, Patrick Salter, Martin J. Booth, Julian Fells
P1-035	158	**Neural-Network-Based Discrimination of Temperature and Strain with π-phase-shifted Fiber Bragg Gratings in Polarization-Maintaining Fiber** Esther Renner, Lukas Bernhardt, Philipp Schnicke, Bernhard Schmauss
P1-036	182	**Laser Frequency Noise Reduction Using a Brillouin-Based Frequency Discriminator and Feedback Control** Elena Maldonado Denche, Jorge Canudo, Elena Pascual-DeLaMorena, Pablo Fermoso, Javier Preciado-Garbayo, Pascual Sevillano Reyes, Jesús Subías, Miguel Soriano-Amat, María R. Fernández-Ruiz, Miguel González Herráez, Sonia Martín López

Optomechanics and acoustic devices

Poster	Paper	Presentation title and authors
P1-037	57	**Forward Brillouin Scattering in Fiber Through Axial Acoustic Modes** Ori Pearl, Avi Zadok, Shahaf Noimark, Shai Ben-Ami, Alon Bernstein, Elad Zehavi, Ohad Buch, Tal Kazlov, Ophir Eliyahu

Poster	Paper	Presentation title and authors
P1-038	101	**Thermally Induced Opto-Mechanical Deformation in PDMS-Filled Microbubble WGM Resonators** Yiming Shen, Zhe Wang, Anand Vadakkedathu Raveendran, Rayhan Habib Jibon, Zhuochen Wang, Rodion Dobretsov, Bo Cai, Qiang Wu, Yuliya Semenova
P1-039	129	**AI-Enabled Cloud Platform for Low-Cost Ultra-Sensitive Fiber Optic Acoustic Sensing** Sandeep Reddy Bukka, Swetha Dokala, Nageswara Lalam, Hari Datta Bhatta, Matthew Brister, Ruishu F. Wright
P1-040	197	**Simulated Guided Wave Tomography Adapted to Quasi-Distributed Fiber Optic Sensor Area Coverage** Enrico Sarcinelli, Prince Panta, Khurram Naeem, pengdi zhang, Paul Ohodnicki

Biomedical and biochemical sensing

Poster	Paper	Presentation title and authors
P1-041	10	**Analysis of the Physical and Mechanical Properties of 3D Printing Resins for Dentistry** Ana Paula Gebert de Oliveira Franco, Hypolito Kalinowski, Danielle Fontenele, Vinicios Pereira silva, Valmir de Oliveira
P1-042	25	**Fiber-Optic Sensor Diameter-Induced Bias in In Situ Pressure Measurements in Small Vessels** Éric Pinet, Georges Baldenberger
P1-043	107	**Bovine Serum Albumin Detection Using a Microbottle Whispering Gallery Mode Microfluidic Resonator** Rodion Dobretsov, Anand Vadakkedathu Raveendran, Ahmed Mahmoud, Zhe Wang, Yiming Shen, Zhuochen Wang, Rayhan Habib Jibon, Yuliya Semenova

Harsh environments and radiation

Poster	Paper	Presentation title and authors
P1-044	35	**Radiation-Induced Bragg Wavelength Shift of Type-I, -R, -II and -III Fiber Bragg Gratings – A Review** Thomas Blanchet, Benjamin Sapaly, Adriana Morana, Emmanuel Marin, Sylvain GIRARD, Sylvain Magne, Guillaume Laffont
P1-045	39	**Monolithic Sapphire Fabry-Pérot Temperature Sensor with Silica Lead-in Fiber for Operation up to above 1000°C** Pritesh Soni, Johannes Roths, Alexander Roehrl, Fabian Buchfellner
P1-046	90	**Investigation of Photobleaching Effect in an Aluminosilicate Optical Fiber for Dosimetry** Alberto Facchini, Hugo Boiron, Adriana Morana, Emmanuel Marin, Aziz Boukenter, Youcef Ouerdane, Thierry Robin, Sylvain GIRARD

Poster	Paper	Presentation title and authors
P1-047	204	**Ultraviolet Radiation-Induced Attenuation in Phosphorus-Doped Optical Fibers for Real-Time Radiation Dosimetry** Gabriel Lebron, Mario Coto, Matthew Leoschke, Adriana Morana, Youcef Ouerdane, Sylvain GIRARD, Federico Scurti
P1-048	208	**Hysteresis-Free, Long-Term-Repeatable Cryogenic Thermometry from 295 K to 20 K with a Pultruded Fiber Bragg Grating** Richard J. Black, Edgar A. Mendoza, Mehrdad Moslehi, Fumio Furuta, Peter Holdsworth, Behzad Moslehi, William Price, Keo Sourichanh

Chemical gas and environmental sensing

Poster	Paper	Presentation title and authors
P1-049	3	**Alginate Nanosphere-Encapsulated Fluorescent Probe for Reusable Chloride Monitoring in Concrete** Liang Fan
P1-050	5	**Coaxial Optical Fiber Sensor for Relative Humidity Measurement** Angel Ignacio Correa Serrano, Marko Galarza, José R. Vento Alvarez, Raphael Jamier, Rosa Ana Perez Herrera, Manuel Lopez-Amo
P1-051	51	**Towards multi-point refractive index sensing using SPR and time-expanded ϕOTDR** Alonso Romero Barrueco, Miguel Soriano-Amat, María Moreno Maldonado, Óscar Esteban, Miriam Cadenas, Fernando Bernabé Naranjo, María Cruz Navarrete, Natalia Díaz Herrera, Sonia Martín López, Miguel González Herráez, Maria Rosario Fernández-Ruiz
P1-052	96	**Evaluation of Cladding Thickness Dependence in Swelling-type POF alcohol Sensors Using a Polystyrene Core** Soma Furugaichi, masayuki morisawa
P1-053	136	**Triple-channel optical fiber sensor integrating SPR-MMI for liquid sample evaluation** Eric D. Galván Navarro, Monserrat Alonso Murias, David Monzon-Hernandez
P1-054	186	**Monitoring underwater volcanic CO2 degassing with packaged fiber Bragg grating sensors** Margot Durou, Julien Govoorts, Corentin Caudron, Christophe Caucheteur

Physical shape and structural sensing

Poster	Paper	Presentation title and authors
P1-055	12	**Thermal sensitivity enhancement of Fiber Bragg Grating sensors by copper electroplating** Honggu Son, Dae-Hyun Kim
P1-056	61	**Deep Learning Assisted Curvature Sensing in Randomly Coupled Multicore Fibers** Mingjing Xu, Lin Ma, Tianqi Cheng, Fengrui Yu, ZUYUAN HE

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P1-057	103	**Reciprocity and its effect on local perturbations in reflective Spun Fiber Optical Current Sensors** Philipp Peter Trampitsch, Johannes Mandl, Lukas Liedl, Alexander Bergmann, Reinhard Klambauer
P1-058	121	**Femtosecond-Laser-Inscribed Mach-Zehnder Interferometer in a Multicore Fiber for Temperature Sensing** Lucía Arques, Elham Nazemosadat, David Barrera, Tina Eschrich, Javier Madrigal, Elena Lorente Cantarero, Salvador Sales
P1-059	149	**Optical-Fiber-Coupled YIG Single-Crystal Fiber Magneto-Optic Sensor for DC and AC Magnetic Field Readout** Jun Young Hong, Dolendra Karki, Paul Ohodnicki
P1-060	162	**Fiber-Optic Positioning System Based on Micro-Nano Fabrication for High-Speed Maglev** Shi Xiao
P1-061	181	**Curvature Sensor Based on Micro-Tapered Long-Period Fiber Gratings Fabricated in Double-Cladding Fiber by CO2 Laser** Yi Luo, Yunqi Liu, Xiaolong Fan, Lu Chen, Li-Ao Zuo, SIyu Chen, Chengbo Mou
P1-062	195	**Vector Curvature Sensor Based on a Helical Long-Period Fiber Grating Inscribed in a Four-Core Fiber** Suying Wu, Yunqi Liu, SIyu Chen, Rui Zhang, Wei Chen, Chengbo Mou
P1-063	196	**Study on the Application of Optical Fiber Sensing in Construction Sector** Rajib Kumar Biswas, Takahiro Saito

Poster Session II

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OFDR reflectometry and Raman sensing

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P2-001	16	**Local Temperature Change Detection over 50 m Optical Fiber in Liquid Nitrogen Environment by Using PNC-OFDR** KOKI NAKANO, Shun Asahara, Fumihiko Ito, Naoyuki Amemiya, Yuichi Yoshimura, Michio Imai
P2-002	82	**Single-detector bend sensing using a multi-core FBG via two-photon absorption in a Si-APD and incoherent OFDR with 1 s data acquisition** YUTA KURIHARA, Yosuke Tanaka, TAKUMA SERIZAWA, Kenta Yoneta
P2-003	84	**Polarization-state-controlled OCDR for identifying closely spaced reflection points** Yuto Sekine, Yosuke Mizuno, Yuta Higa, Keisuke Motoda, Takaki Kiyozumi
P2-004	85	**Enhanced Raman temperature sensing in ultrahigh-numerical-aperture optical fiber** Ariasu Tamura, Yosuke Mizuno
P2-005	127	**4,000 km Gated-OFDR Sensing Using a Recirculating Fiber Loop** Yossi Dadush, Moshe Tur, Avishay Eyal
P2-006	157	**FPGA-Accelerated Coherent Correlation Distributed Fiber Sensing Using a DP-BPSK Probe** Botao Yang, Tao Zeng, Te Ke, Yimei Pan, Chen Wang, Ziye Zhong, Ziqing Liu, Ming Luo, Xi Xiao, Hanbing Li
P2-007	176	**Compensation for Nonlinear Frequency Sweep in an Optical Frequency-Domain Reflectometer by Exploitation of the Sawtooth Flyback** Surya Radha Balaji, Anand VP, Balaji Srinivasan

Brillouin sensing

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P2-008	68	**Optical loss compensation in SA-BOTDA using a virtually constructed Brillouin loss spectrum containing both positive and negative linear slope regions** Keita Uematsu, Yosuke Tanaka, Yuya Yamamoto, TAKUMA SERIZAWA, Kenta Yoneta, MOHD SAIFUL DZULKEFLY ZAN
P2-009	86	**Experimental demonstration of measurement-range extension in slope-assisted BOCDR using multiple modulation-frequency ranges** Takumi Morikawa, Yosuke Mizuno, Heeyoung Lee

Poster	Paper	Presentation title and authors
P2-010	102	**Centimeter-Scale Temperature-Strain Characterization Using a Hybrid BOTDA-COTDR Distributed Sensing System** Kun Wang, Marcus Schukar, Xin Lu, Konstantin Hicke
P2-011	126	**BOTDA-based 3D shape reconstruction with compensation of error accumulation** Leonardo Rossi, Francesco Falcetelli, Piero Lovato, Filippo Bastianini, Raffaella Di Sante, gabriele bolognini

DAS methods and telecom links

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P2-012	1	**An Adaptive 2D-TSDEV Algorithm for Multi-point Localization in Distributed Optical Fiber Vibration Sensing Interferometer** Yunke Du, Chao Wang
P2-013	23	**A Cascaded Residual Raman Pump Multiplexing Scheme for Extending the Sensing Limit of Interferometric Distributed Optical Fiber Vibration Sensing** Yang Yan, Yunke Du, Churui Li, Chao Wang College of Smart Materials and Future Energy, Fudan University, Shanghai, China
P2-014	50	**Real-Time Polarization Sensing and Monitoring in 50G-PON** Huan Yang
P2-015	69	**Cross-Domain Event Recognition for Distributed Acoustic Sensing Under Contaminated Training Data Conditions** Gao Yuan, Xuzhe Zhang, Yu Tao, Xuhui Yu, Yanyang Wan, ZUYUAN HE
P2-016	74	**Coherent detection DAS system driven by a short coherence laser** Eran Burstein, Alexander Katsenelson, Moshe Tur, Avishay Eyal
P2-017	120	**Performance Comparison of Standard and Enhanced Optical Fibers for Low-Frequency Distributed Acoustic Sensing** Denis Bolhosa, Jean Carlos Cardozo da Silva, Guilherme Dutra, Guilherme Bordim, Isabelle Santi, Danilo Fernandes Gomes, Guilherme Heim Weber, Eduardo Henrique Dureck, Cicero Martelli, Manoel Feliciano da Silva Junior
P2-018	144	**Agentic-DAS: Agentic Event Detection and Classification for Distributed Acoustic Sensing** Prince Panta, Enrico Sarcinelli, Shovan Raj Shrestha, Khurram Naeem, Sandeep Reddy Bukka, Pengdi Zhang, Ruishu F. Wright, Paul Ohodnicki
P2-019	180	**High-dynamic-range distributed acoustic sensing using diversity-assisted spatial unwrapping** Felipe Muñoz, Hugo F. Martins, Marcelo Soto, Marco Jimenez-Rodriguez
P2-020	188	**Sub-band phase-drift compensation for large strain-rate measurements in OPC-DAS** Miguel Soriano-Amat, Saverio Pellegrini, Hugo F. Martins

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P2-021	200	**Signal to Noise Ratio Limitation on the Maximum Measurable Phase in Distributed Acoustic Sensor** V R Ranjith, Neethu Sasikumar, Anand VP, Balaji Srinivasan
P2-022	201	**Large-strain-rate DAS approach compatible with the conventional chirped-pulse architecture** Yan Ren, Maria Rosario Fernández-Ruiz, Sonia Martín López, Luis Costa, Zhongwen Zhan, Miguel González Herráez

DAS field applications

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P2-023	7	**Field-Validated Fiber-Optic DAS for Power Transformer Fault Detection Using Harmonic-to-Noise Ratio** Haoyu Tong, Alaaeddine Rjeb, Amir Kamil M. Saeed, Mustafa M. A. Seedahmed, Baoshi Sun, Chun Hong Kang, Islam Ashry, Boon Ooi
P2-024	38	**Prospects for the Use of Optical Fiber as Sensors for Infrastructure Management in Japan** Yuki Otsubo, Tomoaki ISHII, Wataru Kobayashi
P2-025	122	**Distributed acoustic sensing for road pavement condition monitoring through vehicle tracking** Dinesh Lakshmanan, Marco Jimenez-Rodriguez, Juan Camilo Prada-Sierra, Felipe Muñoz, Marcelo Soto
P2-026	146	**Statistical Energy Analysis for Vessel Detection and Tracking Using Subsea Distributed Acoustic Sensing** Kishore Kumar, M V Varun Swaminathan, Balaji Srinivasan
P2-027	160	**Intelligent Monitoring for Road Traffic Using Multi-Task Deep Neural Networks Based Optical Fiber DAS System** Tao He, Ming Luo, Hanbing Li, Wu Liu
P2-028	169	**Experimental study on optical phase responses of a fibre cable placed in a vibrating pipe** Kentaro Nakamura, Takuto Nishi
P2-029	174	**Quantitative Spark Discharge Characterization Using Coherent ϕ-OTDR** Nahoussi Nahoussi Dybril, Kivilcim Yüksel, Ruben Lima Ilufa, Jacques Lobry, Marc Wuilpart
P2-030	198	**Tracking bridge eigenfrequency shifts under loading and damage using distributed acoustic sensing** Omar Ettaouaje, Christos Karapanagiotis, Aleksander Wosniok

Interrogation fabrication and microdevices

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P2-031	2	**Dynamic Optical Spectrum Analysis for Fiber Sensing using a Compact VCSEL-Swept Source** Sanghoon CHIN, Séverine DENIS
P2-032	53	**Spectral Demodulation of Tilted Fiber Bragg Grating Optrode Using a Frozen Dual-View Residual Convolutional Neural Network** Yagiz Ugurveren, Hugo Cassano, Karima Chah, Xile Han, Tuan Guo, Christophe Caucheteur
P2-033	109	**Cleaving of Air-Structured Polymer Optical Fibers Fabricated via Drilling, Stacking, and 3D Printing Preforms through Nd: YAG UV Laser** João Preizal, Eduardo A. V. Souza, Ivan Prearo, Ricardo Oliveira, Cristiano M. B. Cordeiro
P2-034	155	**Stable Tuning Method for MG-Y Lasers Based on Stability-Prioritized Feature Point Selection in Grating Section** Jingrun Wang, Linhao Liu, Chengyong Hu, Jindong Liu, Yi Huang, Xiaobei Zhang, Qi Zhang, Yanhua Dong, Sujuan Huang, Tingyun Wang Key Laboratory of Specialty Fiber Optics and Optical Access Networks, Shanghai University, Shanghai, China
P2-035	167	**DiffTMM-Guided Sim-to-Real Learning for Non-Uniform Strain Reconstruction from FBG Spectra** Weiliang Zhao, Zhijun Yan, Ziyuan Guo, Qizhen Sun

Optomechanics and acoustic devices

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P2-036	52	**Fiber-tip optical acoustic transmitter for fully optical sensing systems operating in the tens of kHz range** Lorenzo Scherino, Lun kai Cheng, Alvaro Gonzalez Jimenez, Benoit Quesson, Wim de Jong, Kees de Meijere, Daniele Piras, Paul van Neer, Rob Jansen
P2-037	70	**A Decoupled Multilayer Structure for Simultaneous Enhancement of Mechanical Robustness and Sensitivity in Fiber-Optic Microphones** Xuzhe Zhang, Jiajia Shen, Gao Yuan, Xuhui Yu, Yangyang Wan, ZUYUAN HE
P2-038	112	**Design rules for high-sensitivity FBG ultrasonic sensors: effects of grating length and fiber diameter** Victor Tocanne, Christophe Caucheteur, Karima Chah, Heming Wei
P2-039		**Flow Coating Fiber-Optic Acousto-Optic Couplers** Cameron Marashi, Waliur Rahman, Kara Peters

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P2-040	205	**Four-channel fiber-coil acoustic emission sensor system using a self-injection-locked diode laser** Mohammed Alshammari, Ming Han, Ayush Chinmay, Xiaoli Wang, Ethan Staley, Musaddeque Syed, Babak Moeinimaleki, Ainslee Proffer, Ryan Yount, Benjamin L. Grisso

Biomedical and biochemical sensing

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P2-041	20	**Extrinsic Polymer-based Detector Using Fiber Bragg Grating for Optoacoustic Sensing** Maximilian Gotsch, Fabian Buchfellner, Alexander Roehrl, Alexander Prebeck, Ivy Curren, Johannes Roths, Vasilis Ntziachristos
P2-042	27	**Simultaneous Carotid and Radial Pulse Wave Monitoring for Pulse Wave Velocity Assessment Using Fiber Bragg Grating Sensors** Seongmun Jeong, Chang Hyun Park, Min Hur, Youngjoo Chung, Chang-Seok Kim, Hwidon Lee
P2-043	81	**Wide-Dynamic-Range Tomographic Sensing Based on Dual-Channel Signal Reconstruction in Swept-Source OCT** Jaeheung Kim, Yeongbin Jeon, Minho Kim, Chang-Seok Kim, Hwidon Lee

Harsh environments and radiation

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P2-044	30	**Radiation-resistant erbium-doped optical fiber fabricated by ALD combining with MCVD technology for space applications** Qiuyu Wang, Jianxiang Wen, Bo Liu, Sujuan Huang, Yi Huang, Yanhua Dong, Yanhua Luo, Tingyun Wang
P2-045	36	**In-situ Monitoring of Spatiotemporal Evolution of Photodarkening in Active High-Power Fiber Lasers** Mingye Fu, ye yuan, Liang Gao, Cuofu Lin, Shun Wang, jun yang
P2-046	42	**Monitoring of 14 MeV Neutron Flux using Sol-Gel-Based Radioluminescent Optical Fibers** Luca Weninger, Adriana Morana, Andrea Colangeli, Fiammetta Fricano, Youcef Ouerdane, Emmanuel Marin, Aziz Boukenter, Stefano Loreti, Hicham El Hamzaoui, Bruno Capoen, Mohamed Bouazaoui, Antonino Pietropaolo, Sylvain GIRARD
P2-047	133	**Long-term stability and in-situ recalibration of regenerated fiber Bragg grating sensors for temperature sensing in solid oxide cell stacks** Shengzhi Liang, Dominik Schäfer, Johannes Roths, Remzi Can Samsun, Rüdiger Eichel
P2-048	166	**Diagnostics and Prognostics of Electrical Cables in Nuclear Power Plants via Multi-Modal Distributed Fiber Optics Sensing** Matheus de Morais, Federico Scurti, Karla Nathalia Herrera-Guzmann, Zachary Van Horn

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P2-049	207	**Fiber Bragg grating sensorized lunar rover wheels for in-situ ML-assisted terrain classification** Olivia Velten-Lomelin, Richard J. Black, Mark R. Cutkosky, Behzad Moslehi, William Price, Keo Sourichanh

Chemical gas and environmental sensing

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P2-050	4	**Functionalized Fibre Gratings for Real-Time Environmental Monitoring Applications** Kin Kee Chow
P2-051	14	**Copolymerized Hydrogels-Functionalized Modal Interferometer for Reusable pH Sensing** Xujie Wang, Abdullah Al Noman, Xuguang Huang, Changyuan Yu
P2-052	54	**Optical amplification-enhanced low-concentration hydrogen sensing using a Pt/WO3-coated tilted fiber Bragg grating** Ana Isabel Romero Cabrera, Korina Hartmann, Remco Nieuwland, Karima Chah, Christophe Caucheteur
P2-053	105	**Investigation of Tapered Optical Microfibre Coupler for High-Sensitivity Refractive Index Sensing** Rayhan Habib Jibon, Zhe Wang, Zhuochen Wang, Yiming Shen, Anand Vadakkedathu Raveendran, Rodion Dobretsov, Baljit Singh, Yuliya Semenova
P2-054	147	**Plasmon sensitized silica nanocomposite layers for distributed fiber optic pH sensing** Devika Mohan, Tulika Khanikar, Alexander Shumski, Jahid Inam Chowdhury, Khurram Naeem, Ruishu F. Wright, Paul Ohodnicki
P2-055	199	**LPFG-Induced Cladding-Mode Coupling Enhancement in Asymmetric Dual-Core Fiber for Highly Sensitive H2S Detection** Yu Qiu, Yi Huang, Feng Zhu, Chengyong Hu, Chuanlu Deng, He yy, Yanhua Dong, Sujuan Huang, Tingyun Wang

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P2-056	11	**Spectral response of a helical macrobending optical fiber sensor under combined curvature and torsion** Vinicius Carvalho, Jose Fabris, Marcia Muller
P2-057	60	**Magnetic-Field-Induced Polarization Modulation in a Selectively Magnetic-Fluid-Filled Hollow-Core NANF** Qingyu Wei, Yucheng Yao, Jianjin Gong, Peng Li, Zhiyong Zhao, Ming Tang

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P2-058	91	**High bandwidth and minimum latency demodulation for modulated fiber optic current transducers** Lukas Liedl, Philipp Peter Trampitsch, Reinhard Klambauer, Alexander Bergmann
P2-059	134	**Towards Smart Composite Wings: Embedded Fiber Bragg Grating-Based Strain Sensing** Gustavo Saturno, Carlos Marques, Tulio Gonçalves, Magner Gusse, Andreas Ioannou, Jan Nedoma, Kyriacos Kalli
P2-060	161	**High Sensitive Optical Fibre Accelerometers with Intrinsic Quasi-Zero Stiffness Based on Chiral Mechanical Meta-structure** Yuxin Wang, Changrui Liao, Weida Huang, Dezhi Zhu, Dejun Liu, Ying Wang, Yiping Wang
P2-061	172	**Flexible MC-FBG Sensor for Meter-Scale 3D Shape Scanning Reconstruction and Triaxial Tip Force Detection** Jialei Zuo
P2-062	193	**Optical Fiber Sensor for DC and Low-Frequency Lightning-Current Measurement** Margarita Varón Durán, Andrés Triana, Fabien Destic, Timothee Hamant, Santiago Camargo, Angélique Rissons