

Poster Session

1. **Post-Fabrication Cladding Doping of Commercial PMMA Polymer Optical Fiber**
Pavol Stajanca and Katerina Krebber
2. **Self-healing silicone rubber for fluorescent partial discharge POF sensors in high-voltage cable accessories**
Lena Barnefske
3. **Effects of Localized Pressure in POFs**
Jorge Learte, M^t Angeles Losada, Alicia López, Javier Mateo and Joseba Zubia
4. **Characterization of a Y-coupler for POF**
Alicia Lopez, M^t Angeles Losada, Javier Mateo, Neo Antoniades, Xin Jiang and Dwight Richards
5. **Application of Thermography for Process Control in the Thermal Drawing of Polymer Optical Fibers**
Robert Evert, Daniel Zaremba, Florian Jakobs, Reinhard Caspary, Hans-Hermann Johannes and Wolfgang Kowalsky
6. **Analytical model for mode based insertion loss in ball lensed coupling of graded-index silica and polymer optical fibres**
Andy Schreier, Tilman Jeschke, Klaus Petermann and Katerina Krebber
7. **Bidirectional Gigabit POF link based on GaN LED and KDPOF Gigabit POF Transceiver**
Juri Vinogradov, Roman Kruglov, Jin-Wei Shi, Rainer Engelbrecht and Olaf Ziemann
8. **Sectorial Perturbation Analysis of Fiber Specklegram Using Machine Learning Techniques**
Marco Fontana, Alberto Rodriguez Cueva, Luis Rodriguez Cobo, Javier Mateo and Mauro Lomer
9. **Portable, in-line and low cost refractive index sensor for liquids**
Daniel Duarte, Rogério Nogueira and Lúcia Bilro
10. **Low-Cost Sensitive Liquid Level Monitoring Using Polymer Optical Fibers**
Matthias Baer, Stefan Werzinger, Max Koeppel and Bernhard Schmauss
11. **WDM Transmission over Graded Index Plastics Optical Fiber**
Telmo Almeida, Ricardo Oliveira, Ana Rocha, Paulo André and Rogério Nogueira
12. **A study on simulation of a high-speed optical space transmission system for rail guided vehicles**
Hiroshi Takizuka, Masakazu Ishibashi, Akihito Mitsui, Hitoshi Suzuki, Tetsuya Toma, Shinichi Haruyama and Yasuhiro Koike

13. **Encircled Angular Flux (EAF): A proposed reproducible representation method for MMFs and its application to POF system characteristics**
Manabu Kagami, Akari Kawasaki, Tatsuya Yamashita and Masaru Ogawa
14. **Fiber-length Dependence of Noise Reduction Effects of Low-noise Graded-Index Plastic Optical Fiber**
Hikari Suzuki, Azusa Inoue and Yasuhiro Koike
15. **Design of Launching Condition in Optical Module through Ballpoint-Pen Interconnect for Graded-Index Plastic Optical Fiber**
Tomotaka Yagi, Azusa Inoue and Yasuhiro Koike
16. **Stabilization Mechanism Analyses of Consumer-friendly Optical Link by Low-noise Graded-index Plastic Optical Fiber**
Kenta Muramoto, Azusa Inoue and Yasuhiro Koike
17. **Syntheses of new Polymerizable Organic Dyes for Fibre-Laser Applications**
Jana Kielhorn, Daniel Zaremba, Itxaso Parola, Wolfgang Kowalsky and Hans-Hermann Johannes
18. **Setup for the Investigation of the Influence of a Controlled Cool Down Process on the Mechanical Properties of Thermal Drawn Polymer Optical Fibers**
Florian Jakobs, Robert Evert, Daniel Zaremba, Jana Kielhorn, Hans-Hermann Johannes and Wolfgang Kowalsky
19. **Measurements with an FBG inscribed on a new type of polymer fibre**
Andreas Theodosiou, Oleg Palchik, Nadav Tal, Ehud Shafir, Garry Berkovic, Shlomi Zilberman and Kyriacos Kalli
20. **Advances in POF Bragg grating sensors inscription using only one laser pulse for photonic applications**
Carlos Marques, Andreas Pospori, Luis Pereira, Paulo Antunes, Maria Fátima Domingues, Ole Bang, David Webb and Paulo André
21. **Efficient WDM Transmission over SI-POF with a 4-channel LED Module**
Roman Kruglov, Juri Vinogradov, Wolfgang Huber, Rainer Engelbrecht and Olaf Ziemann
22. **Molecular Dynamics Simulation for the Cooling Behavior of GI-POF**
Markus Beckers, Daniel Grothe, Thomas Gries and Christian-Alexander Bunge
23. **Simultaneous measurement of temperature and humidity using POFBG and Fabry-Perot cavity**
Ricardo Oliveira, Lúcia Bilro and Rogério Nogueira
24. **Stable Fibre Bragg Gratings inscribed in doped microstructured polymer optical fibre based on PMMA**
Rui Min, Beatriz Ortega, Kristian Nielsen and Ole Bang

25. Near-field scanning optical microscopy using plastic optical fibers

Anton Smirnov, Ekaterina Rostova, Giovanni Dietler and Sergey Sekatskii

26. Sensitivity optimization of POF sensors based in intensity low-cost configuration targeting chemical and biochemical sensing

Filipa Sequeira, Rogério Nogueira, Alisa Rudnitskaya, Nunzio Cennamo, Luigi Zeni and Lúcia Bilro