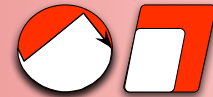


We have included most of the responses from all potential participants, but this could be a first guideline. Please look carefully whether the proposed contribution suits you. Please give feed-back in case something should be changed.

For the final time schedule we would like to ask you for a short abstract of about 50 words.

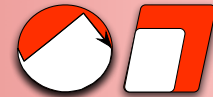
## Monday: Introduction – Get together

14:00	<i>Registration</i>
14:30	<i>Welcome and Organisational Stuff</i>
14:45	H. Poisel/C. Bunge: Overview Modelling Methods <i>Introduction to the workshop – the different modelling methods, which will be discussed throughout the workshop, will be presented in an introductory way.</i>
15:15	H. Poisel: Measurement Techniques at POF-AC <i>An overview of the measurement set-ups that are available at the POF Application Centre. Besides the explanation of the measurements themselves their advantages, short comings, boundary conditions and applications will be presented.</i>
15:45	<i>Coffee Break</i>
16:00	<i>Lab Tour</i>
16:45	<i>Break – Hotel</i>
19:00	<i>Guided Tour through Nuremberg and informal evening</i>



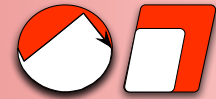
## Tuesday: Modelling Approaches

9:00	T. Ishigure: WKB Method for POF Modelling
9:45	G. Aldabaldetrekü: Numerical implementation of the ray-tracing method in the propagation of light through multimode optical fibres
10:30	<i>Coffee Break</i>
10:50	L. Poladian: Modelling of Holey Fibres
11:35	M. Eguchi: Large-scale Numerical Analysis of Optical Waveguides including Large-Core Multimode Optical Fibers  <i>Plastic optical fibers (POFs) that are a typical large core multi-mode optical fiber support a great number of guided modes. Numerical analysis approaches are very effective for designs of optical fibers having various arbitrary core profiles. Here I introduce details of the modelling of large-core fibers including POFs and holey fibers by numerical techniques.</i>
12:10	<i>Discussion – Workshop</i>
12:30	<i>Lunch Break</i>
14:00	A. Bachmann/K. Klein: Measurement of mPOF – Pitfalls and Problems
14:35	G. Durana: Practical applications of the numerical simulations
15:10	<i>Coffee Break</i>
15:25	<i>M. Haupt: Software-supported Modelling of Optical Components for POF Communication</i>
16:00	M. Bloos: Launching, Fibre Coupling etc. by Ray Tracing
17:00	<i>Summary</i>



## Wednesday: Mode Coupling

9:00	S. Savovic: Power-Flow Equation
9:45	<p>F. Breyer: <i>Getting the impulse response of SI-POF by solving the time-dependent power-flow equation using the Crank-Nicholson scheme</i></p> <p><i>In this presentation the calculation of the impulse response of step-index polymer optical fibre (SI-POF) is shown by solving the time-dependent power-flow equation applying the Crank-Nicholson scheme. There arbitrary angle-dependant input functions can be used for the attenuation, dispersion, diffusion, and launching condition.</i></p>
10:30	Coffee Break
10:50	<p>R. Kruglov: Determination of Mode Coupling Matrix used by Split-Step Algorithm</p> <p><i>This paper presents the results of the complex investigation of mode-mixing effects in the multimode optical fibres, which are caused by the roughness of the core-cladding interface. This model is based on the matrix model for multiple scattering of modes in an optical fibre.</i></p>
11:35	<p>C. Bunge: Statistical Modelling of Propagation Characteristics with Mode Coupling</p> <p><i>A different approach for the determination of the mode-coupling coefficients will be presented. This model is based on statistics in order to calculate the ray distribution at the fibre end, which is estimated by a histogram in the ray-tracing analysis.</i></p>
12:20	Discussion – Workshop
12:45	Lunch Break
14:00	Hiking Tour in the Franconian Switzerland – north of Nuremberg



## Thursday: Applications

9:00	O. Ziemann: POF characterisation – Measurement Techniques
9:30	S. Ralph: Model for the very Large Bandwidth in Small-Core POFs
10:00	S. Louvros: Modelling of POF in several Wavelength Windows and the Idea of a Future WDMA System in GSM/GPRS Expansion Systems
10:30	<i>Coffee Break</i>
10:50	T. Bierhoff: Simulation of Fibre-Optical Bending Sensors
11:20	A. Gavrilov: Improvement of OTDR Measurements using POF Propagation Model
11:50	<i>Final Discussions</i>
12:30	<i>Summary</i>
13:00	<i>End of Workshop</i>