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Dialogue as a valuable prime mover

The right mix of specialized lectures, B2B talk and social gathering made TBP Piesslinger's Customer Day 2005 a successful event indeed. Customers, partners and media people received ample information on innovations in the pulp and paper industry and its vast optimization potential.

For over 50 years now, TBP Piesslinger has stood for customer orientation and technical competence. With the "Customer Day", the Austrian engineering office has installed an efficient platform to communicate the latest developments in compact form to a specialized audience. "We regard dialogue as a decisive motive force in the process of permanent improvement", says Ferdinand Wimmer, general manager of TBP Piesslinger: "For ourselves, for our customers and for the entire sector."

This motto was borne out by a wide spectrum of subjects presented by lecturers coming both from Piesslinger themselves but also from partner organisations, touching on all aspects of smooth project handling as well as on novel detailed solutions designed to heighten the standard of planning and the level of safety, while at the same time ensuring cost improvements:

- Innovative Project Handling, the core competence of TBP, by the use of state of the art software tools, like the intelligent 3D-Design, linking data from flow sheets, 3D engineering (PDS, PDMS) and even maintenance. From recording existing plants with the aid of laser grammetry to the virtual construction sequence with full integration of erection timetables to the 3D model the birth of the paper mill can be followed stage by stage in the form of animation.



- By balancing complex processes with FlowMac heat balance, COD balance and even colour switch become transparent and can be handled and optimized in a highliy efficient way.

- In terms of the continuous improvement of existing engineering standards TBP has developed a standard to comply with the latest regulations (Pressure Vessel Guideline 97/23/EC), covering the most common applications in the paper and pulp industry. Upon request, TBP furnishes indications for special pipe classes based on the AD-2000 leaflets and the TRD (collection of Official Computation Methods). The TBP Pipeline Standard is not modelled on the originally Scandinavian standard widely used in the paper industry. It is a fundamentally new basic model designed to afford plant operators certainty of law.

- Stock pump head design for up to 5% consistency using TBP software "PAP", which was developed by TBP to calculate head for stock and water pumps. A new software that allows the localisation of pressure losses in pipe systems. Even the most experienced fluid mechanics specialists would admit that the actual mathematical computation of the pressure loss in stock lines is virtually impossible. For this very reason pre-existing, empirically determined pressure loss curves were included in the "PAP" software and appropriately digitalized. Moreover, PAP allows the simple schematic representation of the subject piping system by means of an integrated sketch editor.

- Fire fighting by means of high-pressure water-fog spray, a highly efficient alternative technology to protect paper machines from the risk of a fire. It is based on the use of pure water sprayed at a minimum pressure of 100 bar producing micro-droplets spreading in an almost gas-like pattern. Due to its sophisticated and highly sensitive electronic circuitry, the system will react to smoke, heat and flames at an early stage providing an ample safety margin.

- TRF filtration (MinerWa) by the use of high-dynamic membrane filtration process. Actual applications of TRF filtration in the paper industry and the respective results show us that, given appropriate process technology and accumulated experience, membrane filtration is bound to become state of the art.

The definitely positive echo from the visitors confirms Ferdinand Wimmer in his intention to repeat this kind of intra-sector dialogue at yearly intervals. Customer Day 2006 will take place in the new TBP Piesslinger headquarters in Linz.