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## Objet: Quantisweb™ Meets Cascades Challenge

The challenge was to optimize the manufacturing process of a paper product that met our customer's specifications at lower cost and constant quality. At the time, nine (9) variables were identified as input ingredients and system parameters controlling the manufacturing process; and five (5) possible measurable desired specifications, were considered and dealt with simultaneously. It sufficed to enter this data, have the software generate the experiments to run; and enter results of the experiments. Only 10 experiments were necessary, although it does provide functionality for the entry of additional experiments, and the software selected a preferred methodology and brought the manufacturing process quickly in the zone of optimality.

The software is easy to use and does not require much time to enter the data. Similar to other existing software, it requires a thorough preparation in defining the objectives and the inputs, prior to generating the experimental values and running the optimization.

It raised questions about our process and brought to light interesting information about the behavioral relationships that exist among this multivariate manufacturing process. Nevertheless it allowed us to produce our product at constant quality and lower cost.

A handwritten signature in blue ink, appearing to read 'Aline Tétreault', is written over a horizontal line.

Aline Tétreault, Chemist  
Research and Development,  
Cascades Canada Inc.

Quantisweb™ a patented web based multivariate optimization software for complex industrial processes is developed and marketed by Quantisweb Technologies Inc.

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