

## RUNNABILITY SOLUTIONS FROM TECUMSETH

### PRESIDENT'S MESSAGE



We were asked by two mills recently to deliver our Event Capturing System (ECS) demo camera system to help solve some Paper Machine problems. This is the kind of relationship that we respect as we believe that it's our obligation to help our customers solve their problems and optimize their processes. This extra service is offered at no charge to the mills so that Production people can actually quantify problems to then resolve.

The ECS camera system uses the highest frame rates and shuttering speeds to actually freeze the sheet to then detect defects and cross correlate breaks to their source.

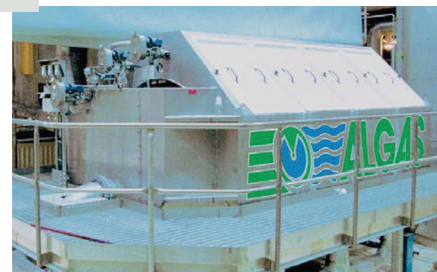
In many instances, we can even rent the system to the mill for a duration that it would take to either solve all the problems or to help justify a small capital project. *(continued on page 2)*

**Ken Klempner**  
President

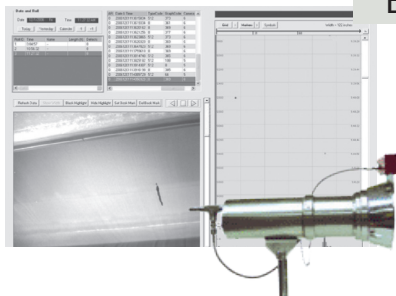
**EXFOR 2009**  
COME SEE US  
IN BOOTH 66

### Algas Microfilter

The ALGAS Concept is to "polish" the mill Whitewater, Filtrate and Pressate lines to reclaim the fibre that would have been lost. This 'polished' water can be reused for showers or other water applications as the fibre length and PPM have been dramatically reduced.



### ECS, Event Capture Systems



ECS systems monitor, quantify, cross correlate all web break and defect events using real-time analysis and video capturing tools. This results in significant savings due to reduced rejects and breaks for papermakers.

### Joh. Clouth Doctor Blades

#### Long blade life and low surface friction

Leading edge technology composite blade material COMBIFIBER®, a carbon fiber material originally developed for the aerospace industry.



### VIB SteamTech - Profiler



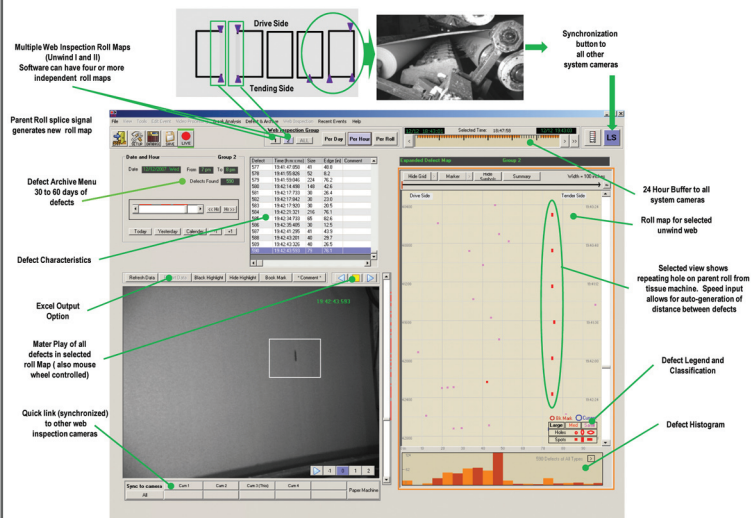
#### Achieving Optimum result in grade quality

VIB Systems offers a wide range of sophisticated solutions to increase your production output and improve the quality of your products.

P2 ECS  
P3 Algas  
P3 Joh. Clouth  
P3 VIB Systems  
P4 News

With our Event Capturing System (ECS) both Defects and Breaks will be reduced by > 80%. Many of your Paper Machine's breaks will be re-classified with our superior technology. ECS has the fastest **frames rates**; **highest shutter speeds** and the **highest camera resolution** to present the clearest, sharpest images of your Defects and Breaks. Remember, only ECS uses **no compression** when storing your images so that they are always viewable at the highest quality.

## Integrated Web Break and Web Inspection



**ECS System offers Web Inspection System (WIS) and Web Break Analysis (WBA) in one.**

- BENEFITS:**
- Fully digital GigE solutions for higher frame rates and resolution
  - Identify quality issues with ECS Defect Detection
  - Reduce breaks up to 80%
  - LIVE data available for many days
  - Easy to use, operator friendly interface



### PRESIDENT'S MESSAGE (from page 1)

Other interesting projects that we are working on are the improvements to Edge Moisture of the sheet. We have delivered many V.I.B Edge Spray Booms (adding water to dry edges) and IRCON IR Edge Dryers (drying wet edges). These low cost units can also be rented and/or purchased and have delivered incredible results.

Part of our commitment to ensure that mill assets are optimized, we have now delivered our 1000<sup>th</sup> V.I.B Steam Valve/actuator to mills who are replacing their high maintenance Devronizer A5/A7/A8 Steam

valves. Our 15 year warranty and our references have demonstrated to many paper mills that our V.I.B Steam Profiler Valves/Actuators are robust and require no maintenance and outperform what they once had.

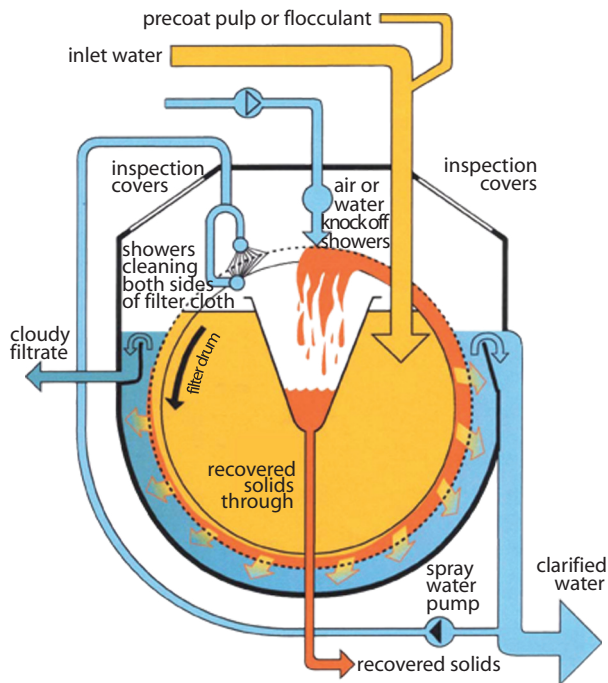
Finally, the most exciting news to date is the incredible response to our ALGAS Microfilter Pilot unit that we are installing in many mills to 'polish' the water to reclaim fibre and chemicals. Many Whitewater, Pressate, Filtrate, BIO applications are loaded with solids after many attempts to reclaim fibre (DAF, Sand Filters, etc.) of which we can further reclaim more than 90% as well as reduce particle lengths to below 30 microns.

**Ken Klempner**  
**President**



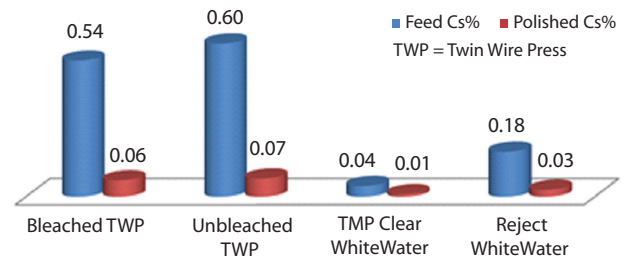
ALGAS cleans, or polishes water, rendering it clean, clear and ready to be recycled back into the process for re-use.

In many instances, the water will be of a sufficiently high temperature to re-use without requiring any further heating, as the ALGAS unit behaves as both a wastewater/water treatment and an effluent/water treatment at the same time.



ALGAS Microfilters reclaim over 95% of all suspended solids.

### ALGAS Fibre Savings - TMP



### ALGAS MICROFILTER ADVANTAGES

Algas offers a number of advantages over traditional water and effluent treatment systems:

- More clear filtrate available for safe re-use
- High fibre recovery efficiency
- Fast, easy and low maintenance
- Self cleaning
- Simple automatic operation
- Easy installation
- No drop leg required
- Small space requirement
- Flexible concept
- Fast payback time

Visit the Algas section on our website to obtain more technical information.



**JOH. CLOUTH®**

Quality · Made in Germany · Since 1874

**Long blade life and low  
surface friction**

Joh. Clouth have an unrivalled reputation for product reliability, customer service and short delivery times, which has made them a key supplier to paper mills around the world.



**VIB Systems offers a  
variety of cost-effective  
solutions to meet all  
requirements of the paper industry.**



Profilers are made from strong 316 Titanium Alloy Stainless Steel. Dedicated I/P for each valve so no 'drifting' from setpoint. 15 year warranty on valves and actuators.



## WHAT'S NEW @ TECUMSETH

- ◆ Metso Automation has delivered its 100<sup>th</sup> kajaani MCA microwave consistency analyzer to the Ontario Mills.
- ◆ An Ontario Mill has purchased a multi cameraEvent Capturing System (ECS) Web Break and Web Inspection System.
- ◆ Norampac Kingsey Falls has purchased four (4) more IRCON IR Edge Dryer Modules.
- ◆ Newpage Port Hawkesbury further upgrades their Devronizers with V.I.B. Steam Valves for longer life and better performance.

## TECUMSETH TODAY

PAPER MACHINE AUTOMATION SPECIALISTS PROVIDING RELIABLE PROVEN PRODUCTS AND SERVICES FROM OUR WORLD CLASS SUPPLIERS

### MEASUREMENT APPLICATION PRODUCTS



### SLUDGE TREATMENT



### APPLIED APPLICATION PRODUCTS



### PAPER MACHINE APPLICATION PRODUCTS



W W W . T E C U M S E T H . C O M

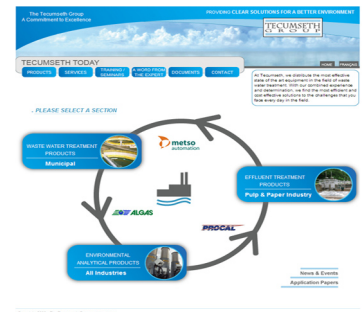
WEB SECTION



Tecumseth website covers two areas of expertise: Pulp and Paper and Waste Water Treatment.



From product description to technical papers and mill applications, the Pulp and Paper section provides you with runnability solutions.



The Waste Water Treatment section informs you on the most effective state of the art equipment in the field of waste water treatment.



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