**Session 42 Tuesday June 2, 1:30pm**  
**Speaker:** Per Emilsson, UMV Coating Systems AB  
**Title:** The INVO®Tip  
**Abstract:** The INVO Tip is a new soft metering element offering better coverage and a more uniform coating layer than conventional blade and rod coaters. The INVO Tip provides the same high coverage as air knife coaters but at the solids level and speed range of blade coating. The INVO Tip optimizes energy consumption, coating color costs and coat weight level. The INVO Tip can be installed on all blade and rod coaters. Air knife coaters can be retrofitted for the INVO Tip.

**Session 42 Tuesday June 2, 1:38pm**  
**Speaker:** Martin Schmid, Voith Paper Inc.  
**Title:** New Products from Voith Paper to Upgrade Existing Coating Equipment  
**Abstract:** SpeedRod M™ - an innovative metering system for SpeedSizers™ ensuring significant reduction of lost time in case of hose failures. AirEx AT-V™ - deaerator especially designed for curtain coating with best deaeration results even at high coating solids; lowest space requirements. New rebuild possibilities by using the JetFlow F™ applicator to upgrade existing blade coaters for better runnability.

**Session 42 Tuesday June 2, 1:46pm**  
**Speaker:** Thomas Coombes, Pruftechnik Machinery Service  
**Title:** A Method for Roll Alignment by Means of Inertial Technology using PARALIGN® by Pruftechnik  
**Abstract:** PARALIGN® service is a revolutionary method for determining the alignment of rolls in paper and converting mills. Compared to standard techniques, alignment with PARALIGN® offers substantial time savings and a greater return on investment. This device incorporates ring laser gyroscopes to simplify the process. The opportunity for errors due to data interpretation by humans is virtually eliminated at the same time providing an immediate graphical display of the measurements.

**Session 42 Tuesday June 2, 1:54pm**  
**Speaker:** David Williams, The Dow Chemical Company  
**Title:** Superior Technical Service and Consulting - New Tools to Enhance Dow's Analytical Capabilities  
**Abstract:** Dow Chemical is an industry leader in providing state-of-the-art technical service to the paper industry. Recent analytical capability enhancements can assist the paper maker in troubleshooting, optimizing raw materials, and in hypothesis testing. Developments include sample preparation improvements for microscopy and X-ray analysis. Representative examples will be shown for: Ion-Cross-Section Polishing, Focused-Ion-Beam Scanning Electron Microscopy, Low keV X-Ray Capabilities and Cryogenic Scanning Electron Microscopy. These techniques have been successfully applied for evaluation of coated papers.

**Session 42 Tuesday June 2, 2:02pm**  
**Speaker:** Mr. Kari Hilden, Papertech Inc.  
**Title:** Improving Papermaking & Coating Efficiency with Web Inspection Cameras  
**Abstract:** Paper breaks and various defects are an efficiency robbing reality on all types of paper machines, coaters and downstream converting operations. Eliminating breaks and paper defects has become more and more important with the increasing speed and operating complexities of today's paper, board & tissue machines. Papertech's TotalVision™ now offers papermakers a single high speed camera based platform allowing all types of defects (holes, slime, oil, etc.) at the reel to be seamlessly analyzed to their root cause right to the wet-end. This eliminates operator guesswork and rapidly allows breaks and defects to be eliminated.
Session 42 Tuesday June 2, 2:10pm  
Speaker: Dr. Frank Adamsky, PhD, Daikin America, Inc.  
Title: A New, High-Performance PFOA-free Fluorochemical for Oil & Grease Resistant Paper and Paperboard  
Abstract: Daikin America, Inc., the world’s largest basic manufacturer of fluorochemical barrier coating chemicals, is offering a fully-commercial, FDA food contact approved, fluorochemical for oil & grease resistance on paper and paperboard. This product is PFOA-FREE, based on a "carbon-6 (C6)" polymeric backbone, and is intended to replace the traditional "C8", PFOA-containing fluorochemicals. Its unique properties imbue it with performance efficiency equivalent to C8’s and superior to other PFOA-free fluorochemicals and non-fluorochemical barrier coatings currently available.

Session 42 Tuesday June 2, 2:18pm  
Speaker: Stéphane Defrance, Bekaert Non Contact Drying  
Title: Energy Recovery System: Solaronics Bekaert  
Abstract: Reduce energy consumption: With our high-efficiency infrared dryers with high power density, the hot IR exhaust can be used as fresh air in air dryers and drastically reduce their energy consumption.  
Up to 20% (3MW) overall energy savings of coating lines have been achieved. Solaronics offers expertise and experience in the design of non-contact drying solutions optimized for energy consumption and quality. Our offer is supported and customized by machine audits and theoretical drying models.

Session 42 Tuesday June 2, 2:26pm  
Speaker: Roland Trepanier, OpTest Equipment Inc.  
Title: OpTiSurt – An Imaging Method for Measuring Surface Roughness of Tissue, Paper and Board  
Abstract: A new optical imaging method measures the surface roughness of sheets. The method provides information about the spatial variation of roughness intensity. It can be applied to a wider range of papers, including grades too difficult to measure by traditional air-leak methods such as porous sheets, soft sheets, sheets with cockle and specialty papers with imposed structures in the surface of the paper.

Session 42 Tuesday June 2, 2:34pm  
Speaker: Helene Olphe-Galliard, IP Leanware  
Title: Br@incube from IP Leanware  
Abstract: Br@incube’s hypercubic analysis technology is new in the paper industry. Br@incube has been awarded “Best New Technology” by the French analog of TAPPI. Br@incube evaluates operations and quality history, and identifies areas of local stability and low density of unwanted outcomes within the “operations space”. Br@incube automatically generates easy-to-implement operating rules whose use greatly improves operating efficiency and quality and reduces costs. Br@incube’s Hypercubic Process Control (HPC) concept delivers amazing results for paper manufacturers.

Session 42 Tuesday June 2, 2:42pm  
Speaker: Keith Hauser, Comer  
Title: Comer DM TW and TS Screen Baskets (DM as new - TW and TS as evolutionary)  
Abstract: Comer has developed a "nestled" wedge wire slotted pressure screen baskets. The design permits a stronger construction with considerably higher open areas per circumvental inch (30-50%). Self supporting wedge wire construction permits a stronger basket even with more slots and thinner wire than conventional technology. Inclined or helical wire angle is possible with this new technology that can help contaminants more quickly towards rejects port.
**Session 49 Tuesday June 2, 3:30pm**  
**Speaker:** Jim Pigott, Tieto  
**Title:** Tieto WebTrim Paper Mill Trimming Solution  
**Abstract:** Tieto WebTrim provides full access to Tieto’s industry-leading paper mill trimming solution without the expenses of software licenses and hardware. Tieto is the first in the industry to offer technologically advanced paper trim optimization as a web service. This service makes it possible to integrate Tieto WebTrim into your system without the cost of additional hardware and software licensing, while renewing and optimizing your existing MES solution with advanced paper trimming function.

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**Session 49 Tuesday June 2, 3:38pm**  
**Speaker:** Steve Folk, Garlock Sealing Technologies  
**Title:** Eliminating oil and Water leak in Production Equipment  
**Abstract:** Seventy percent of gaskets fail due to lack of load. If a gasket could swell and create its own load, then many of these failures could be eliminated. Style 3760 Multi-Swell™, which has the ability to swell in water and oil, and seals at extremely low loads and is twice as compressible as standard sheets, customer testing indicated sealing at 50 psi gasket stress.

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**Session 49 Tuesday June 2, 3:46pm**  
**Speaker:** Jean-Philippe Leboeuf, Albany International Canada  
**Title:** Trial of a New Three Layers Super Stratified Pickup Press Fabric on a Newsprint Machine  
**Abstract:** On paper machine, the increase of speed can bring some issues with the old technology press fabric. On one particular case, a new type of press fabric was designed in order to eliminate the problems and improve start-up. We created a new fabric with a super-stratified structure that would stay open for a longer period of time. The fabric was a three-layer with monofilament multiaxial base and special membrane. Results on the machine were impressive.

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**Session 49 Tuesday June 2, 3:54pm**  
**Speaker:** Marc Labrie, HumEng International Inc.  
**Title:** The School Without Walls: A New On-Line and Collaborative Training Solution  
**Abstract:** A unique collaboration whereby HumEng, Albany International, Metso Paper, and Nalco joined forces to create a new training solution called the School Without Walls. Using state of the art technology, we designed crew training that combines best practices in eLearning with best practices in papermaking, based on the partners’ core knowledge. Imbedded eLearning delivery with SWW partner’s mill site services maximizes the mills investment by providing high quality, targeted crew training not otherwise affordable.

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**Session 49 Tuesday June 2, 4:02pm**  
**Speaker:** Jon Kerr, Andritz  
**Title:** New Deinking System for Newsprint  
**Abstract:** Andritz’s new concept is introduced to replace the first flotation stage (as well as the following disc filter) by a single washing stage. From the washer, only the accepts are fed to the disperser system, whereas the filtrate with the ink particles and fines are bypassed and mixed with the dispersed stock after the bleaching tower. From there, all the ink particles will be removed by the flotation stage in the second loop.  
The advantages of this new system are:

- Lower capital costs due to lower equipment requirements
- Less energy consumption: no first flotation stage and only 70 – 75% of total line capacity is fed to the dispersing stage
- Higher yield compared with a two-loop system due to just one flotation stage
- Higher brightness and dirt removal compared with a single loop system
- More efficient bleaching of the good long fibre in absence of ashes and fines
Session 49 Tuesday June 2, 4:10pm  
Speaker: Anthony Algiers, Southern Erectors, Inc.  
Title: Updated Ventilation in Today’s Machine Room  
Abstract: You’ve just been given a brand new machine floor plan and can institute, carte blanche, the perfect ventilation system. What do you do and why do you do it? Most managers have some of the features we are about to present, but few have them all. Adding to what you have could mean the difference between profit and loss. Can you afford to take the chance that you are as up-to-date with ventilation as you should be?

Session 49 Tuesday June 2, 4:18pm  
Speaker: Bill Butterfield, Stowe Woodward  
Title: SMART® Roll CONTINUOUS NIP PROFILING  
Abstract: A real time embedded sensor system called SMART® Roll has been used to monitor the loading profiles of nipped press rolls. This real time knowledge provides an opportunity to increase machine production, improve product quality, and lower product costs. Traditional nip maintenance tools, which require downtime and measure static conditions, are inherently less effective. This embedded sensor system has been implemented in a number of paper mills.

Session 49 Tuesday June 2, 4:26pm  
Speaker: Mark Zempel, AkzoNobel – Eka Chemicals  
Title: Eka NP 2180 New Nanoparticle Silica Technology Pushes Retention and Dewatering Performance  
Abstract: Eka NP 2180 redefines the performance of the Compozil® retention and drainage program. New methods for developing highly structured, high surface area, surface modified silica sols have resulted in an exiting new product. This new technology has been shown to increase the maximum attainable fines retention, filler retention, dewatering, and productivity in numerous lab and machine trials in coated freesheet, liquid packaging board, uncoated freesheet, lightweight coated and news.

Session 49 Tuesday June 2, 4:34pm  
Speaker: William Randall, Aeration Industries Int'l., Inc.  
Title: Innovative Wastewater Aeration & Mixing Equipment Reduces Operating Costs, Energy Consumption  

Session 49 Tuesday June 2, 4:42pm  
Speaker: Per-Olof P. Warendh, Lorentzen & Wettre USA, Inc.  
Title: L&W Introduce a New Fast On-line Pulp Quality Testing with Laboratory Precision for Reduced Variability  
Abstract: A new concept in laboratory automation for measurement of pulp quality is presented. The L&W Pulp Tester measurements conform to established international standards, and together with the latest and fastest technique it is a major help in achieving optimal process settings and process control for reduced variability, good runnability and a high production rate.

Session 49 Tuesday June 2, 4:50pm  
Speaker: Timo Kukko, Moventas Inc.  
Title: Moventas New Test Stand Technology for Roll Gearboxes  
Abstract: Moventas’ Service Center in Greenville, SC offers comprehensive roll gearbox maintenance, diagnostic and modernization services for paper and board making of all grades. With our new test stand technology, all serviced gear units are test run under a loaded condition in order to ensure reliable performance and to reduce lifecycle costs of roll gear maintenance. Moventas offers full range of expert services for new gearboxes, upgrades, rebuilds and spars parts – regardless of the original manufacturer.