

**PITA
ANNUAL
REVIEW**

2015-2016

Valmet

FORWARD



Paper Industry Technical Association
5 Frecheville Court,
Bury, Lancashire
BL9 0UF



functional solutions for papermaking

Serving your market, meeting your needs

			
Tissue & Towel <ul style="list-style-type: none">• Yankee Coating• Wet Strength Resins• Dry Strength• Fibre Modification• Re-Pulping• Antiscale• Foam Control	Packaging <ul style="list-style-type: none">• Wet Strength• Dry Strength• Sizing• Foam Control• Antiscale	Printing & Writing <ul style="list-style-type: none">• Wet Strength• CMC• Dry Strength• Sizing• Coating• Foam Control• Antiscale	Speciality <ul style="list-style-type: none">• Wet Strength• Sizing• Foam Control• Antiscale• Coating

Developing our future together

Mare is a privately owned company with a proud heritage of producing and supplying functional products to the paper industry for over 75 years. Our products demonstrate “optimised” cost effective solutions for the customer, allowing the benefits of reduced cost, improved flexibility and increased competitiveness.

We are committed to offering our customers tailor-made services, providing innovative products of the highest quality, while offering very competitive prices. We are also dedicated to maintaining the highest environmental and safety standards within the construction and operation of our production facilities. These facilities represent the latest in technology and guarantee the highest quality standards whilst protecting both our employees and the environment.

Our constant attention to quality is reflected by UNI EN ISO 9001:2008 certification, which we have held since 1993. This dedication drives our product development process, assuring our customers the finest and newest technologies in the industry. Innovative technology and extensive production capacity, combined with constant attention to quality and to customer requirements, gives Mare a distinct advantage over competitors in various markets.

Mare has production facilities located in locations throughout Europe, perfectly located to meet the needs of its customers. Choosing Mare will give you a more intimate, flexible and focused supplier response, designed to meet your needs today and in the future.

For more information please go to our website www.mare.com or contact Scott Wilkinson, Managing Director, Mare (UK) Ltd at scott.wilkinson@mare.com or call 00 44 (0) 1539 728719



Annual Review 2015-2016

Compiled by the PITA Office

P I T A

Paper Industry Technical Association

5 Frecheville Court, Bury, Lancashire BL9 0UF.

Tel: 0300 3020 150 / (+44 (0)161 764 5858)

Fax: 0300 3020 160 / (+44 (0)161 764 5353)

e.mail: info@pita.co.uk

website: www.pita.co.uk

Copyright & Published by PITA

Typeset and designed by Upstream Ltd, London

Printed by Mixam, Watford



Valmet Corporation is a leading global developer and supplier of services and technologies for the pulp, paper and energy industries. Valmet's services cover everything from maintenance outsourcing to mill and plant improvements and spare parts. Its strong technology offering includes entire pulp mills, tissue, board and paper production lines, as well as power plants for bio-energy production. The company has over 200 years of industrial history and was reborn through the demerger of the pulp, paper and power businesses from Metso Group in December 2013. Valmet's head office is in Espoo, Finland and its shares are listed on the NASDAQ OMX Helsinki Ltd.

Paper Industry Technical Association

Annual Review

2015-2016



Contents listing

Chairman's Message by Graham Moore.	4
PITA Board/Office	5
Nipman Paper Technology	6
C☆iFilm® coating starch.	8
Review of the Year.	11-19
Conference / Exhibition / Meeting Reports	8
Energy Review	15
Newsprint Review	16
Environment Review	17
Tissue Review	18
Wood-Based Panels Review.	19
Corrugated Board Review	20
Industry Statistics	21-23
EUCEPA	24
World Paper Industry Technical Associations.	25
Corporate Membership List.	26-29
Mills in the UK	30-34
Paper Mills.	30-32
Panel Board Mills	33
Moulded Pulp Mills	33
UK and Eire Map	34
Mills in the Benelux Region	35-37
Mills in the Middle East Region	38-39
Mills in Norway	40
Mills in the Eastern European Region.	41-48

Advertising List

Aikawa Fiber Technologies	7
Axchem	18
Blackburn Chemicals	14
Cargill.....	9
GL&V.....	4
Jarshire.....	11
Konecranes	5
Honeywell.....	13
Mare	FC (inside)
Spraying Systems Ltd	15
Valmet	FC, 1, 3
Zellcheming	BC

A Date for your Diary: **5th July 2016**

Paper Matters!

A Joint CPI / PITA Event for the Paper Industry



Paper Industry Technical Association
5 Fitchville Court, Bury, Lancashire B19 8UE, United Kingdom
Tel: +44 (0)345 3020 150 Fax: +44 (0)345 3320 160
Email: info@pita.org.uk Website: www.pita.org.uk

cpi confederation of
paper industries

Valmet IQ

The smartest way to reach your quality goals



The Valmet IQ quality management solution for the pulp and paper industry is a comprehensive new product family that helps you to reach your process and end product quality goals. Our products, applications and services cover all your needs, from replacement of individual equipment to building a full quality management solution. Each Valmet IQ solution is always based on our extensive industry knowhow and designed to move your performance forward.



www.valmet.com/iq

Valmet 
FORWARD

Chairman's Message



(Given at the PITA AGM, Heron Corn Mill, Beetham, 3 December 2015)

My comments today are prefixed by a reminder – should we need it – of the turbulent state of the global paper industry. The industry continues to evolve and consolidate driven by technological, economic and legislative influences. The graphic paper sector is facing the greatest disruption. Players in this sector are having to rationalise and consolidate in their attempts to try and match the decreasing needs of a changing end use market.

Nearer to home 2015 has seen a further contraction of the UK paper industry – influenced in part by these mega factors and by more 'localised' influences. The demise of Aylesford, of Tullis Russell and more recently of Watchet, in addition to Shotton PM1, Ramsbottom PM1, and the tiny but historic speciality Springfield Mill run by Whatman, all serve as a reminder that no sector is really immune from this turbulent world.

Despite the situation in 2015 and that of last year, PITA has been able to survive and develop. This has been due to the considerable hard work and effort of the PITA team. Yes, the Association current trading finances are not rosy, but they are a considerable improvement on 2014. The PITA team has investigated every area of the operation and taken out costs wherever and whenever possible. Opportunities for additional income generation have been investigated and where appropriate exploited – for example the installation of solar panels on the Bury offices which are not only reducing electricity costs but contributing income.

The finances should also be viewed in the light of investments made to develop the Association further and to launch new initiatives. To date PITA has:

- Widened its geographical reach – including the Middle East and Central Europe
- Widened its sectorial coverage – including corrugating and moulded fibre
- Increased the pagination in *Paper Technology* by 50% (from 32 to 48 pages)
- Launched the new *PAPERmaking!* – e-magazine
- Expanded publication of the *PITA Affairs* newsletter
- Strengthened alliances with our relevant associations and organisations – e.g. between the CPI and PITA which saw the staging of the BAT workshop in January of this year and the development of a joint paper conference to be held in 2016



Reduce your operating cost...
with GL&V's cost saving solutions

DD®6000 Refiner

Provides 50% higher capacity and significantly better tensile strength properties at the same specific energy consumption.



Celleco Twister® Hydrocyclone

Handle up to 2% feed consistency with up to 50% less energy.

These are just a few of GL&V's cost saving solutions to your existing equipment. GL&V also provides process equipment and upgrades for fiberlines, stock preparation, recycle systems and paper machines.

Contact GL&V for more information: **Paul Spencer**, UK Account Manager, Tel: +44 (0)7808 714167, Email: Paul.Spencer@glv.com or **David Lowry**, Product Key Account Manager – Refiners, Tel: +44 (0)7855 224574, Email: David.Lowry@glv.com
www.glvpulppaper.com

© 2015 GL&V ALL RIGHTS RESERVED.

These initiatives are in part driven by the output of PITA Development Forum activities. The Development Forum is a conscious step by the Board to strength and develop the Association in the light of the turbulent state of the industry. It is worth mentioning that a survey of a cross-section of Members was undertaken as part of first phase of the Development Forum's activities. The independent survey sought to gather views on a number of issues including our current offerings, ascertaining the value of PITA to Members and to gather views on paper vs digital publications.

The output of the survey was extremely positive and it is clear the Membership values the Association and its products. The importance of this feedback is that it gives the Board a sound foundation on which to develop and move PITA forward as a viable commercial entity and Member based Association.

To summarise, the paper industry is changing and PITA as an organisation associated with the industry has to change as well. This will ensure that it:

- Still provides the right offerings
- Continues to give value to its Members
- Survives financially

The Development Forum is on-going and its output will be reported on as it progresses. It is clear that we will need to diversify further and encompass a greater reach of parties not only involved with paper but those involved with other cellulose fibre related products.

Graham Moore

PITA Board

2015-2016

Graham Moore *National Chairman*
 John Kirby *Deputy Chairman*
 Martin Wroe *Immediate Past Chairman*
 Stephen Hutt *Financial Director*
 Helen Dolan *Company Secretary*
 Tim Klemz

2014-2015

Graham Moore *National Chairman*
 John Kirby *Deputy Chairman*
 Martin Wroe *Immediate Past Chairman*
 Stephen Hutt *Financial Director*
 Helen Dolan *Company Secretary*
 Tim Klemz
 Kieran Rafferty

2013-2014

Martin Wroe *National Chairman*
 Graham Moore *Deputy Chairman*
 Tim Klemz *Immediate Past Chairman*
 David Dredge *Publications Director*
 Stephen Hutt *Financial Director*
 Helen Dolan *Company Secretary*
 Kieran Rafferty

PITA Office/Paper Technology



Barry Read
Chief Executive
 PITA Office



Helen Dolan
Company Secretary
 PITA Office



Daven Chamberlain
Editor
 Paper Technology



Graham Sutton
Advertising Manager
 Paper Technology

KONECRANES®

Lifting Businesses™

**Konecranes for
 versatile, easy and
 effective load
 handling solutions
 for the paper
 production industry**



See our full range of lifting solutions at

www.konecranes.co.uk

Simply Innovative

**Konecranes UK Industrial Crane Division,
 College Milton, East Kilbride, Glasgow G74 5LR**

T: +44(0)1355 220591 F: +44(0)1355 263654 E: gordon.adie@konecranes.com





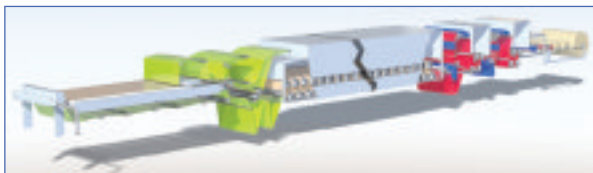
Nipman Paper Technology: World leading technology & service solutions – from Finland

Robert Clayhills

Nipman Paper Technology was founded in 2000 by Robert Clayhills, with 30 years of experience in the paper industry, as an agency business with the intention of selling technologically leading products for optimising the paper manufacturing process at paper mills in Scandinavia.

Especially in Finland there is a long tradition of developing and manufacturing “state of the art” products for optimising the papermaking process. In Nipman’s portfolio there are currently many companies that all have long experience in the paper industry. Furthermore, the companies are leaders in their respective fields, not only in Scandinavia, but Globally.

In terms of scope, several of the companies can provide in-depth special service and analysing expertise. Furthermore, they offer special products and new innovative devices to help paper operators in their daily work; products to improve productivity, safety and optimise machine time. Now, some of the products and services will be marketed directly to paper and board mills in the UK.



Tasowheel’s CD Profiling System takes Production to the Next Level

Tasowheel provides expertise in CD-profile optimisation for paper producers. A comprehensive delivery for a CD control system modernisation includes actuators and valves as well as CD profile control systems including interface to the existing QCS system.

Actuators and dilution valves manufactured and delivered by Tasowheel are operating in the paper machines of the biggest producers worldwide. In addition to design, manufacturing and maintenance regarding solutions, products and services for CD profile optimisation, Tasowheel places considerable experience at the disposal of their customers.



ProTest engineering – The world leading SME in paper machinery testing services

ProTest engineering Ltd. is an expert service company providing comprehensive maintenance services and device modernisations to the pulp and paper industry. Since 2010, the company has helped dozens of customers worldwide in troubleshooting, process optimisation, device tuning, overhauls, system modernisations and start-ups.

The company operation is based on solid expertise. Personnel have altogether over 50 years working experience in demanding automation, troubleshooting and customer service roles on over one hundred individual machine lines globally.

Operation key points are state of the art measurement equipment, fast and flexible customer service and cost-effectiveness.

ProTest engineering also develops and manufactures unique measurement devices to help paper machinery service actions. For example, the AM1 doctor blade angle meter is the most accurate and sophisticated device on the angle meter market.

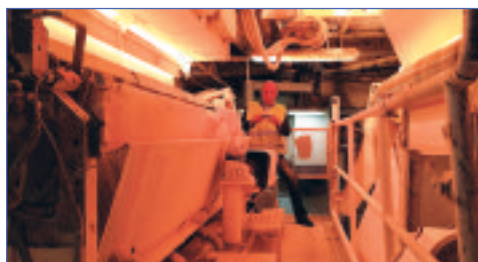


CoaterService – Global expert on coaters, coating stations and sizers

Coater Service Oy has been classified as one of the most successful companies in Finland by Kauppalehti’s Research and Analysis Unit (source: Balance Consulting). They provide maintenance, check-ups and modernisation for reels, coating stations, and sizers, all to the customer’s specification.

After a maintenance visit, the customer will receive an illustrated report for the machine’s maintenance log. The report provides details of the machine-specific preventative measures taken, component replacement needs as well as specifics for short and long-term follow-up. With preventative maintenance service, the customer will be able to keep production running reliably.

In addition the company offers large-scale modernisation projects with the help of a professional network. They are trusted providers of flexible, comprehensive service, and specialists in the needs of the paper and board industry.

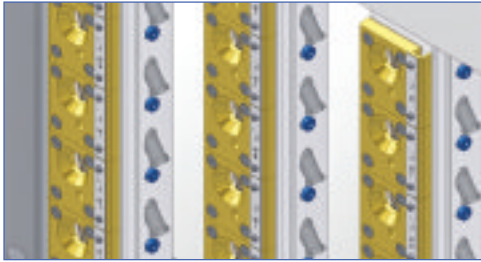


FlowControl – Manufactures oil circulation lubrication systems with more experience than most

Flow Control was founded in 1995 by Teuvo Huhtala and located in Muurame, Central Finland, since the beginning. Huhtala has almost 40 years of experience in developing and manufacturing flow meters; he has invented several patented solutions and received an award of recognition from the Foundation for Finnish Inventions.

Condition surveys of seal supply and oil circulation lubrication systems also fall within the company’s field of expertise. FlowControl thrive in competition with strong know-how and by being able to flexibly tailor solutions according to clients’ needs. The company is capable of providing anything from individual flow meters to complete systems, and their reach is global: FlowControl has delivered

products and services to every continent in the world.



RollResearch International – The new world leader in roll measuring and roll grinding modernisations

RollResearch International Ltd is a provider of high-tech roll measuring technology and comprehensive roll grinder modernisations for the paper and metal industries, worldwide. The modernisation scope extends from automation controls to electrical systems and components, from measurement and attachment devices to mechanical overhaul. Over 20 years in operation, the company's competitiveness lies behind good customer service and innovative product development deriving from end user demands and university research projects.

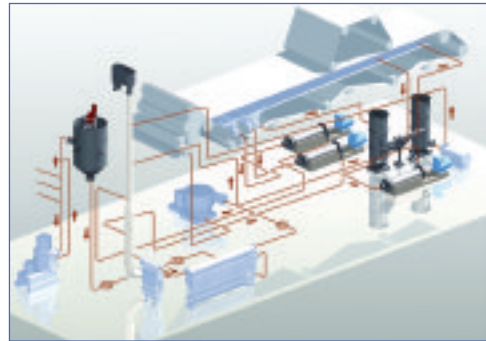


AFT Aikawa – POM technology for approach flow – Simply less – novel approach

The approach flow system is one of the most critical areas of the paper machine. As the trend for higher production rates with short-distance forming devices (e.g. new headboxes and formers) grows, pressure pulsations and consistency fluctuations within the stock become more problematic. Integrated and simplified solutions offer the greatest payback. Small process volumes with smooth flows enable fast reaction to disturbances or grade changes.

POM's wet end technologies are based on a novel approach: simply less. An important part of the technology is what can be left out - reduced volumes, airless systems, smaller footprints, simpler solutions for retrofits, upgrades, and new machines.

AFT Aikawa is represented by Peter Taylor Agencies, Manchester UK.



AFT: science applied

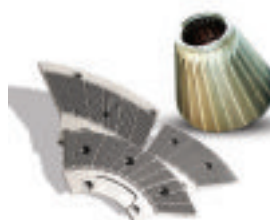
Tailored retrofit solutions:

Notpre-packaged BigBoxreplacement



Don't limit yourself to a full replacement when a targeted component upgrade or single machine replacement will do:

- Recycled fiber stock prep
- Screening
- Refining
- Approach flow



Contact us for a process evaluation to target your savings.



Aikawa Fiber Technologies

www.aikawagroup.com

Email: sales@aikawagroup.com

C*☆*iFilm[®] coating starch: Customer focussed development of nature-derived binder for cost effective coating of Paper and Board

Dr. Andreas Becker, Andreas Voigt

The papermaking industry and especially the coated graphical papers have to face various challenges. Europe is an aging society in a mature market showing quite limited growth rates. People's life style is changing rapidly especially regarding work environment (e.g. home offices and flexibility of people), communication and electronic media as well as social networking and on-line shopping to name a few.

For the paper industry these trends led to an increasing consolidation combined with rationalism of companies, their production processes and product portfolio. During the crises in 2008/9 the graphical paper industry was hit heavily and a further decline of about 3% on year's average is expected for the future.

As a result the paper industry in Europe is focusing nowadays on cost optimisation at maintained quality. The trend towards greener and more environmentally sustainable paper making process led to an increased use of starches in coating during the recent years. Papermakers realised that by using classical coating starches, further cost optimisation has reached its boundaries.

Some further developments of nature-derived cost effective coating binders remain today possible thanks to a close cooperation between papermaker and starch supplier fully aware of its specific requirements and needs.

Partnering through innovation

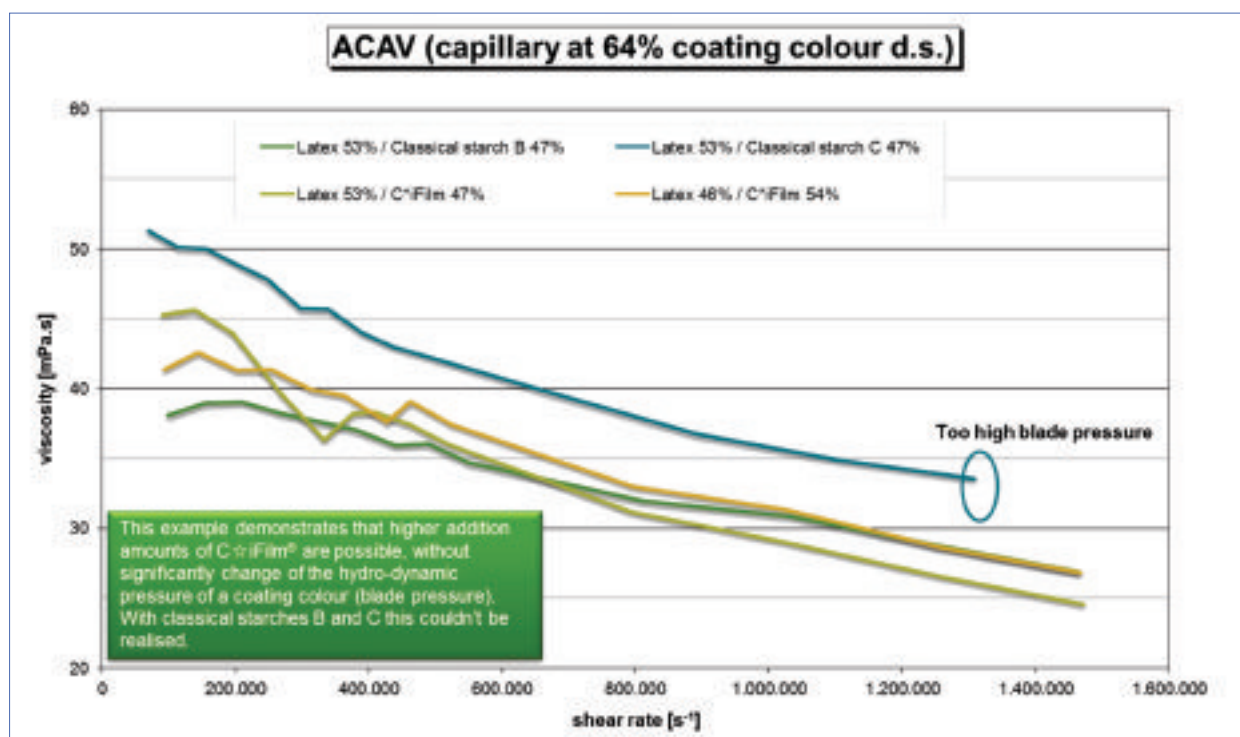
Partnership between paper producers and suppliers is an essential component of product innovation. Exchanging ideas and experiences with people from paper production and R&D is key as the understanding of customers' needs is one

of the most relevant ways to develop the best solution.

At Cargill, based on our very good experience in paper coating, combined with customer knowledge and valuable feedback from our customers we have been able to focus our development on the main product requirements to meet: maximise coating solids, minimise synthetic binder content and improve coating colour rheology without compromising on paper quality.

Technical optimisation

We know paper coating requires fine-tuning of multiple parameters to optimise runnability and performance e.g. coating colour rheology, water retention, coater adjustment. It is about taking a holistic view, rather than looking at the effect of starch in isolation. Advanced instrumentation techniques allow us to understand the rheological behaviour of starch, its interactions with other coating colour components and interactions between the coating colours and the base paper. The positive effects seen for the new products were revealed in coating colour formulations by measuring water retention, high shear viscosity as well as intrinsic coating structure. In order to optimise a coating colour binder system, rheology is key to ensure smooth runnability at the coating heads. For example (comp. chart below), if a customer is utilising a binder composition of 53% latex combined with 47% classical coating starch B and wants to enhance binding power with a classical starch C (maybe with an outlook to replace more latex with more of this starch), he would be faced with much higher blade pressure due to higher high shear viscosity of the coating. In most of the cases the consequence would be dilution of the coating.





thrive™

C☆iFilm®
Coating
starch



Stretching the boundaries of latex replacement in your coating applications

At Cargill, we help you *thrive*.

As a market leader in coating starch applications, Cargill has successfully innovated and developed C☆iFilm® coating starch, a genuine alternative to synthetic binders that pushes the boundaries of latex replacement technology in paper making! Made from renewable natural resources, C☆iFilm® coating starch greatly improves the coating colour rheology in formulations which allows for higher latex replacement ratios and the reduction of additives. C☆iFilm® coating starch is a unique solution offering you significant production cost savings while maintaining paper quality.

For additional information, contact us at industrial_starches@cargill.com

www.cargill.com
www.cargillindustrialstarches.com



150 years
of helping the
world thrive

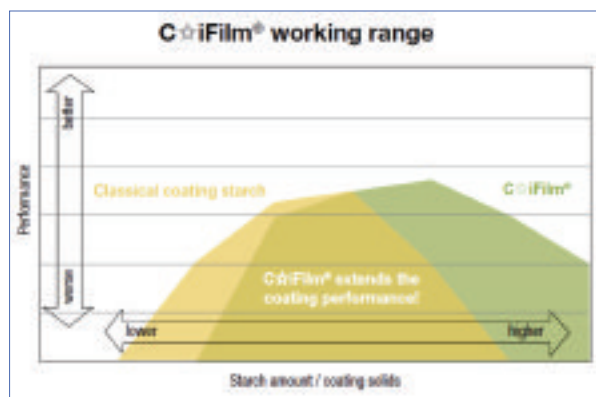
One step further with C☆iFilm® coating starch

In comparison to the classical coating starch C, the new developed C☆iFilm® coating starch has even higher binding power and it affects lower coating colour high shear viscosity than both classical coating starches B and C. With this excellent property C☆iFilm® coating starch enables to adapt the binder system towards more starch and less latex e.g. 46% latex combined with 54% C☆iFilm® coating starch and maintain high-shear viscosity of the originally used coating composition containing the classical coating starch B.

But not only high-shear viscosity is important as rheology parameter for the coating application. Visco-elasticity is influencing the coater runnability too. It is commonly known that starch is giving more elasticity in a coating formulation than latex. However, C☆iFilm® coating starch is also beneficial in that respect. No increase of the elastic part was measured for the coating composition employing 46% latex combined with 54% C☆iFilm® coating starch in comparison to originally used coating composition containing the classical coating starch B. Thus, rheology disturbances at the coaters e.g. misting at the MSP or bleeding at the blade are less likely.

Based on these facts it can be concluded that the operating window (comp chart below) can be extended by the utilisation of C☆iFilm® coating starch. That means either coating solids can be increased (maintain starch/latex ratio) or higher starch utilisation is possible to replace synthetic binder (at constant coating solids) and keep the overall performance high.

Case studies



These results enable us to assess the coater runnability confirmed by the following trials and case studies.

A double coated woodfree paper (150g/m² finish quality) was blade pre-coated at >70% solids with a std. recipe containing 50% of the total binder employed classic starch plus 50% latex. In order to reduce costs, the pre-coat formulation was optimised to 65% C☆iFilm® coating starch plus 35% latex. Due to the aforementioned benefit in extending the working range, similar coater runnability was observed as well as surface strength represented by IGT and ISIT measurements was kept constant. An overall good print quality was confirmed during commercial print trials.

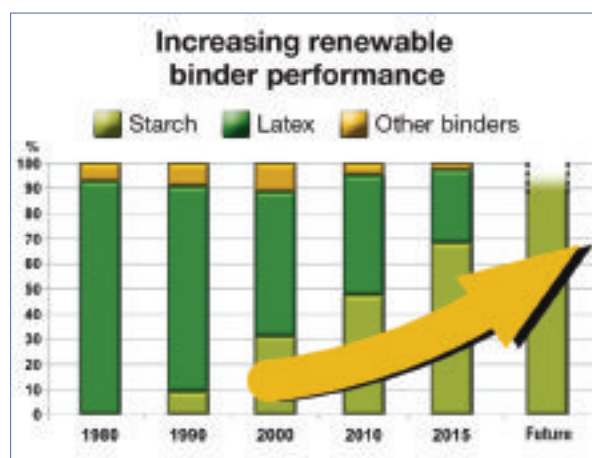
Example **LWC offset** (60g/m² finish quality) – in MSP application at machine speeds >1400m/min. and coat weights of 8g/m² per side a std. coating system employing 45% latex plus 55% classic starch was tested and compared to a recipe containing 35% latex plus 65% C☆iFilm® coating starch. In a course of a run no rod spitting or misting were observed. Rheology measurements of high-shear viscosity represented by ACA measurements as well as rod pressures

were comparable. Due to higher starch amount the OBA carrier function was improved (>CIE Whiteness) whereas gloss/printing gloss, surface strength and mottling did not show any differences.

Also the case study for LWC offset – blade application revealed the benefits of C☆iFilm. Summarised it can be concluded that the new developed starch was able to simplify the coating formulation (only one synthetic binder instead of two), showed improved binding power (it was possible to replace 2,5pts. of latex by 2pts. of the C☆iFilm® coating starch) and gave superior coater runnability by maintaining the desired good paper properties.

Summary

As shown by the chart below the coating colour binder composition has developed significantly over the last more than 30 years. Formulations were very much simplified going alongside with simplified production portfolio of paper grades and faster and bigger machines requiring longer and smoother production runs. The binder type and content have been optimised to meet these demands coupled with the cost aspect as mentioned before. Cargill's skilled specialists and scientific experts have focussed the developments on specially designed starches for high stability, beneficial coating rheology at high solids coating combined with superior binding power.



With our products made from renewable natural resources C☆iFilm®, C☆iCoat® and C☆iFilm® coating starches we have been able to stepwise increase the utilisation of our natural derived and specialised products in the coating binder composition.

Cargill provides food, agriculture, financial and industrial products and services to the world. Together with farmers, customers, governments and communities, we help people thrive by applying our insights and 150 years of experience.

We have 155,000 employees in 68 countries who are committed to feeding the world in a responsible way, reducing environmental impact and improving the communities where we live and work.

For more information, visit www.Cargill.com and our News Centre.

As regards the overall show, it has to be said that in the larger venue, the frenetic activity and crowded atmosphere of previous years was not in evidence. However, as regards overall visitor numbers, which have been on the rise year-on-year, they were clocked at 4003, just over 100 more than last year, and double that which attended the first event six years' ago.

MIAC Oct. 2015 (LUCCA)

The organisers of the MIAC exhibition faced exactly the same dilemma as those of Packaging Innovations – an over-subscribed exhibitor list and a venue seemingly already at capacity. However, they took a different approach to the organisers of the British show; they opened a large room upstairs (that up until two years' ago was the venue for the conferences) and shoe-horned in a further 23 stands, increasing the exhibition space by 17%. This was certainly an innovative approach, although it must be noted that footfall upstairs was decided lower (possibly because the idea is so new that people were slow to cotton on). So it will be interesting to see whether this approach is followed again next year; failing that a new venue might be in order, but with the convenience of having the city of Lucca so close, the organisers will have to weigh the consequences of moving to a new, untried site against the packed capacity but excellent facilities of the Lucca Fiere Exhibition Centre.

In addition to the exhibition covering a reported 270 international companies, there were four free half-day conferences this year: Tissue Machine Suppliers; Tissue Converting Line Suppliers; ASSOCARTA Energy Conference; and Comieco Recycling Conference – the last two being of national rather than international relevance. Only the first was of specific interest to PITA members, the theme of this segment being cost reduction; each company was asked to present on case studies or engineering developments that can be used to reduce manufacturing costs. After a quick overview of the sector supplied by **BKay Tissue Advice**, papers were given by **A. Celli Paper**, **Toscotec**, **Valmet**, **Voith** and **Novipianti**; currently we are in negotiation to publish some of these next year.

Overall, 4984 visitors were noted as attending (against 4236 for 2014) – an amazing testament given the unsettled period of weather – rain was intermittent and at times very heavy, leaving parts of Lucca with significant standing water, but this was nothing compared to the five deaths caused by flooding in nearby regions of Italy. My only request next year would be to reintroduce chemistry to the manufacturing conference, to give a more balanced series of presentations.

Hawkins Wright Nov. 2015 (LONDON)

The annual Hawkins Wright Symposium was held in the main hall of the Royal College of Surgeons, for the second year running. With a registered attendance of over 310, the audience was very slightly down on last year, but I counted representatives from 31 countries, which is a slight increase and indicates the global significance of both London Pulp Week and this event.

High attendance is a guarantee of sponsorship, and the list of companies willing to support the venture just continues to rise: 18 covered last year's event, while this time it had risen to 21 – **AkzoNobel**; **Altri**; **April**; **Cenibra**; **CMPC**; **Ence**; **Fibre United** (representing **UPM** and **Canfor**); **Fibria**; **FMS**; **Gearbulk**; **Ilim**; **Itochu**; **Mercer Pulp**; **Metsä**;

Norexecio; **Omya**; **Södra**; **Storaenso**; and **Valmet**.

Before summarising the five talks it is worth noting the free gift left on each chair in the auditorium: Sweet Birch mints, branded by UPM, containing xylitol which comes from the same raw material as UPM Betula birch pulp. (Note: restraint is required with this beverage, because ingestion of xylitol in high quantities can have a laxative effect!)

Colin Hamilton (Macquarie Capital (Europe) Ltd)

The opening talk of the symposium is traditionally a scene-setter, often focusing upon economics, and so it fell this year to the very personable and informative Colin Hamilton, who outlined China's impact on commodity markets to date, and how this is likely to alter going forward. According to the speaker, China plays a very long game – since the Chinese Revolution of 1949, which brought Mao to power, China has had the plan to be the world's largest economy – by 2049. Only a command economy could aim for such a long term goal as no free market economy could plan so far ahead!

The three pillars of the Chinese economy are manufacturing, infrastructure and real estate. The latter is now showing negative growth. The past decade has seen rapid urbanisation and industrialisation, which has been financed by massive corporate debt, backed by the government. Now it needs to stimulate consumerism, and so shift the debt from corporations to consumers.

Current levels of growth are reportedly around 5%/pa. However, China has a two-tier economy: service sector growth is around 12%/pa, while industrial manufacturing is stagnant at near 0%/pa. The growth is also regional: the urbanised Southern provinces are experiencing positive growth, while the industrialised North (where among other things coal is mined) is in recession. Finally, the State-owned Enterprises are underperforming massively compared with the private sector; indeed, many SoE's are technically bankrupt, but are kept afloat artificially by the government.

Looking to the future, China is using infrastructure investment to regulate growth; this is helping to offset the poorer performance shown more recently by manufacturing. As regards the latter, consolidation of the over-capacity is likely in the short term, and expect the service sector of the economy to grow still more, at the expense of manufacturing.

Clay Ellis (International Paper)

This talk summarised the world importance of fluff pulp – the type of material used in female hygiene, baby diapers and adult incontinence products. In 2014 the grade accounted for around 25% of the total global softwood market pulp sector.

The pulp used for these products has stringent safety requirements; indeed it is regulated as a Class 1 medical device which means the supplier must certify quality and compliance. All the products using fluff pulp comprise, in addition, Super Absorbent Polymer (SAP) and textile / non-woven / plastic outer layers. The role of the fluff pulp is to provide comfort and padding for the wearer; to give a framework to trap and distribute the SAP; and to absorb any liquid penetrating the outer layers of the product and so distribute this to the SAP by wicking. To do these jobs effectively, a coarse thick-walled softwood fibre with a wide lumen (SBSK) is preferred, such as pulp coming from Loblolly or Slash Pine. Low coarseness softwood (such as NBSK) does not provide such efficient wicking performance, while hardwood is too short to provide either the wicking performance, or the network for SAP is distribution.

Although in the West we take these products for granted,

in developing countries their lack of provision can be devastating. For example, Narendra Modi, the Indian PM, has linked the lack of sanitary and hygiene provision in rural India to high dropout rates for female students once they start menstruating; likewise, experience gained from Aid Agencies working with refugees all across the world suggests once needs for food, water and shelter are met, the next most popular requests are for Fem-Care and Diapers. Major growth of this sector is predicted for the foreseeable future, with current global growth reportedly 4%/pa.

Tugba Erdogan (Hayat Kimya)

Turkey has been investing heavily in machines and mills over recent years, as any reader of the Installations columns published in *Paper Technology*, online or in *Papermaking!*, would know, hence this timely talk entitled 'Dynamics of Turkish Pulp Market'.

Turkey is the 16th largest economy in the world, while if compared just to the EU countries it would rank 6th. GDP rose from US\$231B in 2002 to US\$800B in 2014. The population stands currently at 77.7 million, with 50% under 31, and inflation is around 7-8%.

Paper and Board consumption has risen from under 4MT in 2005, to near 6MT in 2015 – since Turkish manufacturing capacity is currently 3.2MT (mainly 41% corrugated, 21% P&W, 17% carton and 8% tissue), this makes the country a net importer. However, as regards tissue, the reverse is true; installation of capacity has been so rapid in recent years that Turkey is a net exporter of tissue and hygiene grades. The current installed tissue capacity is 760kT, which is set to rise to 940kT in 2017; consumption, on the other hand, has risen steadily at 12%/pa over the last decade, from 170kT in 2005 to 440kT in 2014. This is way ahead of the world average of 3.4%/pa, and reflects the change in GDP described earlier, and population growth.

In terms of market pulp use, Turkey imported 950kT in

2014 (46% Eucalyptus, 10% hardwood, 23% NBSK and 21% fluff), while in 2015 use is predicted to be 1.03MT (665kT for tissue, 200kT paper and board, and 165kT hygiene products). As regards certification, the internal market shows no great interest in either FSC or PEFC, but tissue manufacturers in particular have hit upon FSC as being vital for their export market. Finally, for historical reasons, Turkish manufacturers tend to spot-buy rather than go for longer term contracts with pulp suppliers.

Magnus Björkman (Södra Cell International)

This talk gave an overview of forestry in the Nordic region, highlighting some common misconceptions, and producing unusual facts and figures to show trends. For example, looking at the Swedish forest stock, the country had around 1.1Bm³ of timber in 1915, which is estimated to have increased to 3.3Bm³ currently. The current growth rate is 1%/pa, equivalent to 3m³/sec – but at current utilisation rates only 2m³/sec will be harvested, leading to yet further increase in stock. Furthermore, it is not just new plantation that is increasing; in 1938 the country had 1.5% 'Old Forest' – in 2008 this stood at 5.2%.

Swedish trees take 25-60 years to reach maturity. Annually they remove 100MT carbon dioxide from the atmosphere. Around 8% is conserved for nature conservation; FSC only requires 5%, so Sweden is exceeding requirements. Yet another way of looking at the forest is that, taking the number of trees, an approximation for the number of needles on a tree, and the needle dimensions, the Swedish forest has around 7Mm³ of 'green' solar panel.

The overall message was that Nordic forestry is healthy, and industry based upon it is sustainable – yet getting that message out to the wider public (even in Nordic countries) is problematic. Once again, we must try harder to reach customers and consumers with positive messages relating to Forest Product Industries.

Honeywell



Easy to operate, service and maintain.

Experion MX QCS, the latest innovation in papermaking control from Honeywell, is a fully integrated quality control and process knowledge system that provides superior visibility into the papermaking process while it simplifies operational efforts. Easy and cost effective to maintain and service, Experion MX QCS provides fast scanning and processing speeds, superior measurement, high resolution CD profile control and a comprehensive suite of quality control applications.

Improve paper quality, reduce costs and increase efficiency with Experion MX QCS providing the lowest total lifecycle cost available in a QCS. **We make it easy.**

For more information on Experion MX QCS, visit www.ExperionMX.com.

© 2015 Honeywell International, Inc. All rights reserved.

Oliver Lansdell (Hawkins Wright)

The annual roundup and forecast by Hawkins Wright is probably the main reason people attend this Symposium, and the presentation this year was entitled 'Global Fibre Markets until 2019'. First the historical overview: paper and board production has risen from 230MT in 1990 to around 370MT last year – HW consider the 'official' values circa 400MT tend to over-rate the Chinese contribution by around 30MT. These figures have remained relatively static since 2006 due to the economic slowdown and loss of P&W grades. Going forwards, P&W levels should stabilise soon, and we can expect some modest growth in total P&B output.

Looking at the pulp sector, the recovered fibre market has plateaued at around 200MT; the integrated sector is in slow but long-term decline; and market pulp has shown year-on-year growth since 1990. Tissue in particular has been a major driver for the market pulp segment; tissue mills tend to be small making integrated manufacture unviable, and the decline in quality of RCF has pushed new tissue mills towards the virgin fibre market.

China has driven many markets (pulp, machinery, chemicals) in the last decade, but the slowdown there has a knock on effect to the market as a whole. Estimates of utilisation rates in China over recent years have given values of around 80%. For China to increase production rates to a more economic level, and so once again exert pull on the market pulp sector, they will need to stimulate then satisfy domestic demand. Recent devaluation of the Chinese Yuan Renminbi and efforts to increase exports of P&B have led to anti-dumping complaints in a number of countries. Furthermore, the Chinese Government still needs to close more of the highly polluting non-wood pulp mills (HW estimate around 4-5MT will go soon).

Turning to the bleached chemical pulp segment, a lot of new capacity is predicted to come online over the next year (around 6.3MT), such that capacity growth will outstrip demand. In the short term this must lead to capacity rationalisation, with older and less efficient market pulp mills closing, along with further loss of integrated mills and even closure of some DIP plant. Also, there has been a growth in swing mills (those that can switch between producing paper pulp and dissolving grades) – allowing the producer a foot in both the P&B and textile industries. With so much uncertainty of what will happen when the new mills start production, buyers are reminded that pulp mill closures or downtime tend to occur without prior warning – *caveat emptor* remains an important maxim!

Pöyry Investors Breakfast Dec. 2015 (LONDON)

This year marks the 11th Annual Investors Breakfast hosted by Pöyry Management Consulting, and once again it was conducted in the sumptuous surroundings of Stationers' Hall. The subject this time was 'Future of Packaging', with two presentations: Jari Latvanen (**Stora Enso Oyj**) and David Powlson / Celedonio Moncayo-Quiros (**Pöyry Management Consulting**).

Jari Latvanen had a background in consumer brand management before joining Stora Enso, which is a more traditional B2B company. As such he brings to his new role this brand background, and encourages Stora Enso staff to get involved with and become interested in their customers' brands as a way of understanding the markets in which Stora Enso operate. The company sees three main areas of differentiation going forward with regard to their business: Micro Fibrillar Cellulose (MFC) for strength and stiffness; Barrier Coating with Bio-polymers for food safety; and Intelligent Packaging for customer interaction.

Turning to the second presentation, the first part of this used data from the recently completed report *Packaging Drivers from now until 2025*, sponsored by **Stora Enso UK** and **Kolbus UK**, performed by **Pöyry Management Consulting**, and available from **The Stationers' Company**. The overall trends show all forms of packaging have growth potential, with paperboard, rigid plastics and flexible plastics forecast to increase most. The second part focussed upon the potential for investors in the rapidly expanding packaging sector; over the last three years, investments in fibre-based and plastic packaging sectors have typically outperformed the index of European consumer staple and industrial listed companies. Three case studies (**Nordenia**, **Constantia** and **Nampak**) were used to show how under-performing companies have recently been purchased, streamlined and redirected, in the course of which investors yielded very high returns.

The future of packaging in all forms – but especially for paperboard – looks rosy. Furthermore, with development particularly in bio-barrier materials, and MFC or nano-crystalline cellulose, further gains at the expense of the plastics sector are to be anticipated.



World Leaders In Foam Control

Dispelaire®

BLACKBURN CHEMICALS LIMITED

Cunliffe Road
Whitebirk Industrial Estate
Blackburn BB1 5SX

Tel: +44 (0)1254 52222
Fax: +44 (0)1254 664224
Email: sales@bbchem.co.uk
www.bbchem.co.uk

Energy Review

Steve Freeman

*Director of Environmental
& Energy Affairs,*

CPI



Unfortunately for UK energy policy makers, 2015 is the year that price volatility fell away just as the cost of renewable electricity support policies went through the roof, (with the Renewable Obligation and Feed In Tariffs adding around £18/MWh to the cost of grid electricity), this leaves UK industrial electricity prices exposed as worryingly uncompetitive – as we've been warning would be the inevitable impact of UK energy policy.

With fossil fuel still underpinning UK electricity production, and coal being the marginal fuel of production, sustained low prices have resulted in lower base-load and generally lower power prices. However, this benefit has been swamped by rapidly increasing policy and distribution costs mostly linked to support for renewable generation and of course the major infrastructure changes required to handle new generation – it's not cheap to link an offshore wind farm to the grid!

Germany struggles with many similar problems but, critically, its Government accepted from day one that for its heavy industry to remain internationally competitive, then it must be protected from these costs.

By contrast it's taken the UK Government a number of years to learn the same lesson. While national attention has been focused on problems for the UK steel industry, paper-makers are equally struggling with energy costs.

Most mills continue to receive compensation for the cost impact of the Carbon Price Floor, with additional compensation promised to address the increasing high costs from the Renewable Obligation and Feed-in-Tariffs. This should help address some of the concerns, though total cost of electricity is likely to remain high in the UK. This promise of additional support is welcome but, for some mills, is coming too late, with uncompetitive energy prices being quoted as a factor in a number of closures.

As well as high cost, security of supply is of increasing concern as older fossil fuel power stations continue to close

together with a lack of investment in large scale replacement plant. Complicating the issue is a promise from DECC that all UK coal generation will be gone by 2025, and a new policy direction proposing that gas generation should be the main way to plug the gap. Putting on one side the view from the Committee on Climate Change that gas generation has no role past the early 2030s if the UK is to meet its self-imposed carbon reduction targets, there's a hard economic question over who's going to build this new plant. Any developer will expect to operate flat-out to pay for the asset, while DECC envisages the plant operation will be to balance demand in periods of high demand or low generation caused by intermittent renewables. Expect more policy details and increased cost as developers are incentivised to build. Assuming these costs come through Contracts for Difference, then at least mills will be partially sheltered, but even so overall prices will go up.

Against this background, it's not surprising that a number of mills are considering the opportunity to either revisit their own generation plant, or tweak production facilities to enable closer participation in electricity markets, both on the short notice supply side and demand reduction. These opportunities are likely to grow in importance over the next few years. And of course energy efficiency should be at the top of the list – far better not to use the energy in the first place.

Looking to 2016, PITA and CPI continue to support the 2050 Decarbonisation Roadmap study promoted jointly by BIS and DECC. The study looked in detail at eight heat intensive industrial sectors and examined the opportunities to decarbonise production as required if the UK is to retain heavy industry and meet long-term carbon targets. The overall report (available online) was rushed out before the general election, meaning much of the financial analysis and action planning is weak or missing. Now the Chancellor has confirmed the budgets for BIS and DECC, the next phase of the study can get underway looking in detail at action plans for each sector. The study provides a great opportunity for us to influence Government policy and hopefully Members will find time to participate.

2009-10	£3.61/MWh	2013-14	£8.66/MWh
2010-11	£4.11/MWh	2014-15	£9.70/MWh
2011-12	£4.80/MWh	2015-16	£12.86/MWh
2012-13	£6.43/MWh	2016-17	£15.43/MWh est

Table: Cost impact of the Renewable Obligation on grid electricity

Spray technology resource for mill engineers

The latest Spraying Systems Co. metric edition Pulp and Paper Industry Catalog 66AM. The industry's sole dedicated and most comprehensive listing of showers, nozzles, controls, spray guns, accessories and advanced techniques for every spray process in the mill.

Backed worldwide and locally by specialist spray engineering support. Free water-saving paper machine audits available.

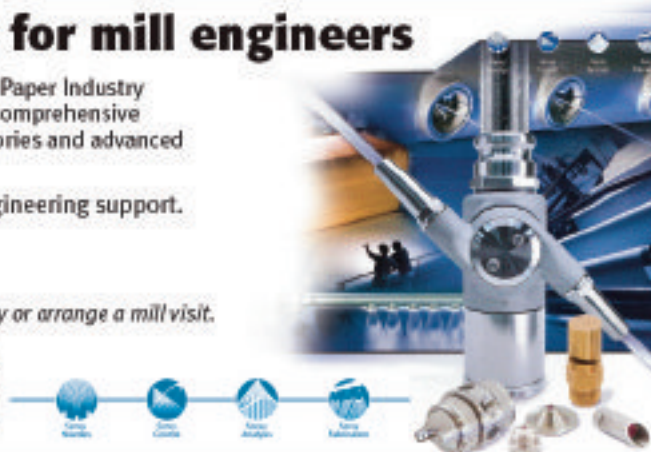
www.uk.spray.com

to view Cat.66AM online, request a printed copy or arrange a mill visit.



Spraying Systems Limited
Experts in Spray Technology

E david.yates@spray.com T 01252 727200



Newsprint Review

Riku Kallio

Senior Consultant

Pöyry Management Consulting



I have just read what I wrote in this publication last year and decided to start this article the same way. Last year's article ended with the words "Finally we must recognise that the situation (Newsprint market) here (UK) is more positive than in some other countries". Regardless of this statement being true at the time, 2015 turned out to be hard for the UK paper industry, particularly Newsprint. Aylesford Newsprint has now closed and only two newsprint paper-machines remain. The closure of the Aylesford mill was somewhat surprising considering the paper-machines and mill site appeared potentially competitive when compared to other European newsprint machines and mills. Surely there are mills in Europe which have a clearly worse asset base and are at least in as challenging situation as Aylesford Newsprint was. The following paragraph shows another quote from last year's article.

"Some older newsprint machines may not be very efficient or profitable alone but are either "difficult to close" (e.g. due to costs linked to the closure) or actually contribute positively on the overall paper mill site's performance (e.g. linked to energy balance of the mill site, shared resources with other papermakers etc) or be fully depreciated. As such it is not always transparent on the outside what the different paper companies may be considering when decisions on capacity adjustments are made."

This is still true, and as stated, it is very difficult to predict which paper-machines, mills and companies will close capacity next. In the end the market is in a gradual decline and further capacity adjustments will be required.

The UK Newsprint production and consumption statistics for 2015 are yet to be confirmed, but it is clear that the production has decreased due to a capacity decrease of around 600kt in 2015. The two remaining newsprint machines left in the UK should have good potential to compete, particularly in the UK home market which continues to be a net importer of newsprint.



The UK Newsprint Capacity, Production and Consumption 2005-2015

Fibre cost

As is nearly always the case in papermaking, fibre contributes the largest share of the paper mill's costs. The fibre cost is a key challenge for Newsprint producers. ~75% of the European newsprint is based on recovered fibre – old newspaper and magazines (News&PAMs) mainly. Availability and price of News&PAMs is pushing pressure on the

newsprint mills, and prices are expected to increase, driven by the stagnating collection rates and strong demand not only in Newsprint and Magazine paper (SC-paper) production but also in other paper grades such as lower quality tissue grades and cartonboard. Although the cartonboard (and containerboard) production is largely based on OCC and Mixed Paper it is good to also remember that Mixed Paper can consist of a relatively large amount of newspaper and magazines – and Mixed Paper is particularly desirable by some cartonboard mills which use mechanical fibre in the middle layers to improve bulk. The consequence of the declining News&PAMs collection potential, stagnating collection rates and robust demand means the supply:demand balance is getting tighter. Consequently this will result in price pressure.

Indeed, the situation with Mixed Paper is quite interesting in this context. When considering where the News&PAMs is collected from, one can easily start listing the places where you typically read your newspaper (the paper one...) – on the train, at work, at home, public places... The collection potential is fragmented. Collection sources include offices, industry and commercial sources as well as households. A large share of the newspapers and magazines are actually collected from places where the segregated collection of News&PAMs is not necessarily a viable option from the collection cost point of view. Collection of small volumes of one or two types of paper from many sources comes with high costs. Therefore, large volumes of newspapers and magazines are collected with other paper grades, such as carton or corrugated boxes, and need to be sorted to provide suitable raw material for newsprint production. With relatively small price difference between Mixed Paper and News&PAMs (combined with the decreased value of other recyclables such as plastics or metals), the incentive to sort News&PAMs from the Mixed Paper is relatively small.

Collection of UK Mixed Paper and News&PAMs show opposing trends. The News&PAMs collection has declined ~25% from the level 2014 whilst the Mixed Paper collection has increased ~60%. To increase the overall recycling rates in the UK more dry recyclables should be diverted particularly from the municipal waste stream (households etc). This is likely to mean more Mixed Paper in the market. If the News&PAMs are to be sorted out from the Mixed Paper this means increasing costs. But the paying capability of the P&W paper mills is currently not particularly high. There is little that the newsprint mills can do about the price of recovered paper. This means pressure to increase the price of newsprint.

Paper price

Obviously the paper prices have a strong impact on the paying capability and profitability of the newsprint mills.



Western European Newsprint Capacity and Production 1999-2015

Environment Review: What next for 2016?

Debbie Stringer

Environment Manager,
CPI



2015 was the Year of Permit Review as the process of integrating the requirements of the revised Pulp & Paper Best Available Techniques Reference Document (the sector BREF) got underway.

It began with a well-attended joint CPI and PITA BAT Workshop bringing together the regulators from England, Scotland and Wales with mill representatives. The Workshop gave mills and the regulators the opportunity to come together and gain an understanding of each other's expectations and concerns in demonstrating working to each BAT (*Best Available Techniques*) conclusion as specified in the BREF.

The permit review process then moved on in earnest with information requests, clarifications and mill visits. CPI and PITA have continued to work closely throughout, with both the regulator and mills, to seek a reasonable approach to interpretation of the BAT Conclusions and providing technical support where needed.

If 2015 was the *Year of the Permit Review*, what can we expect going into 2016?

In the first instance, certainly more of the same. The permit review process will continue beyond the anticipated 2015 deadline and is now expected to conclude around April 2016 with all mills receiving revised environmental permits. Permit conditions, when finalised, will shape each mill's approach to ensuring all are working to BAT and meeting the BAT AELs (*BAT Associated Emission Values*). It's important to note that compliance with BAT AELs is not legally required until 2018, even though permits will be issued during 2016.

Looking ahead and turning to Europe, the up and coming priorities centre on:

- **Air Emissions.** Two more BREFs of relevance to some mills – the Large Combustion Plant BREF for mills with combustion plant over 50MW and the Waste Incineration BREF potentially applicable to those co-firing waste materials. BAT and BAT AEL requirements from finalised BREFs will be incorporated into applicable mill permits.

Newsprint Review (continued from page 16)

Looking at the current situation where many mills are facing significant cost pressure, it would be reasonable to expect that sooner rather than later the price of the paper must also be increased to compensate the raw material cost inflation.

The capacity closures in the UK in 2015 were significant in scale even when considering wider European markets. 2014 capacity utilisation rate in Western Europe dropped to a low level, but due to capacity closures the 2015 utilisation rate is likely to increase to around the 90% level again. This gives newsprint producers a better position to push the required price increases through in 2016.

- **Single Market for Green Products.** The development of a **single** methodology to calculate the Product Environmental Footprint (PEF) for products sold within and across the EU. Use of the footprint will be voluntary but if you use a footprint it must, ultimately, be this one. A pilot programme for developing and testing such methodology is underway for intermediate paper products including graphics, tissue and packaging.
- **EU Ecolabel.** Again a voluntary scheme but used by a number of CPI and PITA Members, the ecological criteria for paper products (including graphics, tissue and newsprint but not packaging) are being revised.
- **Systematic approach for Food Contact/ Harmonised EU measure.** Paper and board for food contact has been put forward for harmonised EU measures. CEPI is proposing such measures are based on existing Good Manufacturing Practice (GMP) and the Industry Guideline for food contact papers. This in preference to the myriad of national legislation.

Notwithstanding the proposal for harmonised measures, the myriad of national legislation may well present significant issues in 2016. Such proposed legislation is often based on minimal science, providing the potential for knee-jerk solutions that could impact on the use of recycled materials and the ability to recycle manufactured products.

Other issues likely to feature during 2016 include both legionella guidance and water abstraction reform.

Guidance for the paper sector on how to comply with the approved code of practice for the control of legionella was developed by an industry group during 2015. The guidance will "plug the gap" in the HSE Guidance which is scant on detail for processes other than water systems or cooling towers. The guidance requires the support of robust evidence, supplied in this case by the HSL project on proliferation of legionella in paper mills. As this project concludes, the guidance can be finalised and launched to assist the industry. Applicable in England and Wales only, reform of the freshwater abstraction regime has made little progress since before the election in May 2015. The long awaited government response to the consultation will give an indication of how the proposals for reform are to be narrowed down and an indication of a revised timetable to the legislation and implementation. The original timetable of legislation by 2015 with implementation commencing in 2020 has clearly slipped. 2016 will prove interesting times if a balanced and workable regime is to be developed. Key amongst the messages to be conveyed from the paper sector is that we **use water – we don't consume it!**

... and last but not least for 2016, we need to look ahead to the next Pulp & Paper BREF Review! The last BREF review suffered from a lack of proper mill environmental performance data, making it difficult to determine emission levels when working to BAT. A lack of data opens the door to unachievable limits being set. With three years data required for any BREF review, the how's and the why's of data collection need to commence now – a challenge for 2016.

As always, CPI will monitor and report on all of these issues and others as they arise, working closely with PITA in providing advice and potential solutions.

Tissue Review

Pirkko Petäjä

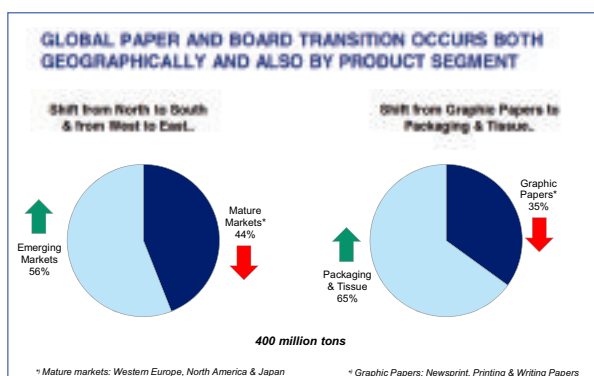
Principal Consultant,

Pöyry Management Consulting



Paper and board is in global transition both geographically and by product segment. The industry is shifting from North to South and from West to East and also from graphic papers to tissue and packaging.

The decline in mature markets driven by the fall of especially newsprint and printing and writing paper (graphic paper) consumption is more than offset by the strong growth of all paper and board in the emerging markets. Global transition of the grades is due to the fact that especially tissue and packaging paper consumption both in mature but especially in the emerging markets is expected to grow.



World tissue paper production has grown by about 1 mil-

lion tonnes per year during the past 5 years, and exceeded 30 million tonnes already some years ago.

A number of megatrends and specific consumer market trends support the long-term growth of global tissue demand; the correlation is, however, strongest with economic development and population growth. GDP per capita has a strong interrelationship with tissue paper consumption per capita.

Therefore tissue demand growth will continue to be driven by socio-economic factors such as urbanisation, disposable incomes and consumer spending. In most countries, the development of a middle-class consumer segment will be the key catalyst for growth – allowing improved penetration of a wide range of tissue products and shift towards higher quality (multi-ply) products.

Tissue market has been growing fastest in Asia, China in particular. Asia represents currently some 40% of the global tissue market.

In China, a tissue paper market has grown by a dynamic 8-9%/a over the last decade and China has become the second largest tissue market in the world after North America, followed by Western Europe as the third.

Following the brisk market growth also the increase of capacity in China has been very fast. Tissue capacity doubled from 2008 to 2014 as tissue became a hot investment spot; however, overinvestment has resulted in overcapacity and has further caused continuous drop in the operating rates. The growth in China is expected to continue at a slower rate (5%/a through 2030) due to several reasons. In the longer run the strengthening middle class continues to support the growth in China.

Maturing markets in the West will continue to grow but at a slower rate. Quality trends and demographics are the key drivers supporting the growth in the West.

What is topical in Europe?

The European tissue market continues to grow at a steady 2-3%/a (depending on forecasting span). The mature Western European market grows at an average below 2%/a and the emerging Eastern European market is boosting the total growth with the average 4-5% annual growth rate.

Brisk capacity additions continue especially in Eastern Europe. The most important countries are Russia and Poland that together account for close to 60% of the total Eastern European market.

The UK tissue market grows at the average Western European rate supported by general economy. Independent converting industry is relatively large in the UK and characteristic is that the UK is a net importer of both jumbo reels and converted products; roughly one third of the over million ton market volume is imported as reels or as finished goods. The UK is an interesting target market and opportunity for many suppliers.

Your future partner in papermaking.

Axchem offers the broadest and most innovative portfolio of polymers to the paper industry. Coupled with the best technical paper specialists, engineering support and R & D facilities. Axchem is a compelling and new alternative, a world class supplier that is expanding its resources to support your future.

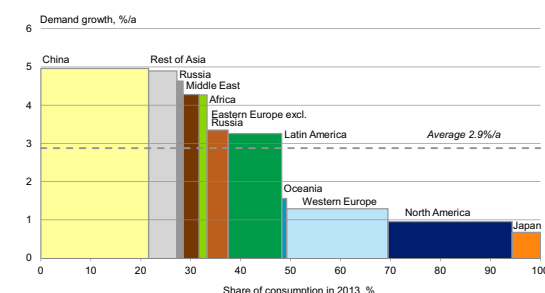
Axchem UK
Walndyke Way
Normanton
West Yorkshire
WF6 1TF

Axchem International Ltd

info@axchem.co.uk Tel: 0845 301 6710

LONG-TERM DEMAND GROWTH OF TISSUE PAPER THROUGH 2030

Emerging markets in Asia are expected to show the strongest growth in the long term



Wood-Based Panels Industry Review

Isabelle Brose

Economic Adviser,

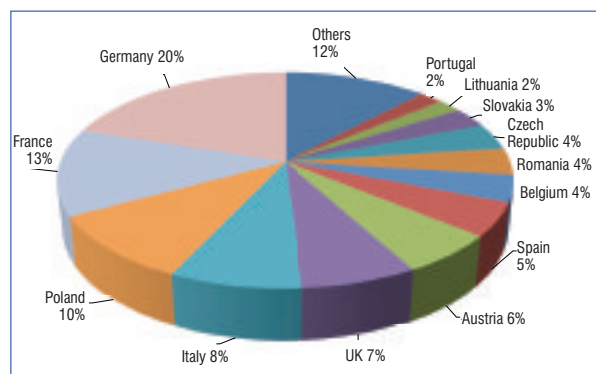
European Panel Federation



Following several years of decline, the European particleboard production in the EPF member countries upturned by 2.5% in 2014 and exceeded the projection made last year. Output amounted to 29 million m³ although this production level remains far below the output peak of 37.8 million m³ observed in 2007.

In 2014, significant increases of output were noted in Hungary, Latvia, Poland, Portugal, Spain and Norway. It is worth noting the actual recovery of activity in Iberia. On the other hand, production continued to collapse in Greece and declined to a lesser extent in Sweden. Concerning Greece, it is important to underscore that a large part of the capacities was shut down in 2014. On the contrary, facilities have been expanded in Hungary.

With a slightly increasing output, Germany remained the largest particleboard producing country in Europe in 2014, accounting for merely less than one fifth of the EU-EFTA production volume. France and Poland continued to complete the particleboard producers' podium. France kept its second position despite a small decrease in its production and the significant progression of the Polish output. Italy where production decreased moderately and the United Kingdom where output grew steadily fulfilled the top 5 and the club of the producers of more than 2 million m³ of particleboard in 2014. Together, these five countries accounted for 57.5% of the total EU-EFTA production in 2014.



Breakdown of particleboard production by country in 2014

As forecast, the overall European particleboard production capacity remained relatively stable in 2014 and rose very moderately by 0.4% or 150,000 m³. It amounted to almost 39.5 million m³. Some restructuring of capacities took

Tissue Review (continued from page 18)

Transition of the paper industry is shaping also the European tissue business. New entrants appear due to escape from graphic papers or in search of competitiveness for smaller pulp mills. In addition, tissue is becoming increasingly important for the whole forest industry cluster; for instance for machinery and equipment suppliers and for pulp producers. Tissue end use accounts for more than half of the markets of many significant market pulp suppliers, especially of BHKP.

place in Spain and Belgium while projects started to be operational in Bulgaria, Hungary and the Slovak Republic.

The expectations for this year are stable. The rise in production in the EU-EFTA area as a whole is estimated at +0.6% for 2015. This should result in a particleboard production slightly above 29 million m³.

In 2014, MDF production in Europe grew further by 2% reaching 11.5 million m³, excluding Turkish and Russian production. However, this production level remains significantly lower than the peak of 13.3 million m³ observed in 2007. With an increasing output of about 3.6 million m³, Germany is still the largest European MDF producer in 2014. Poland kept its second position while Italy had taken back its third position to France on the podium. Spain and France completed the top five of the European MDF producers. The joint output of these five countries accounted for an increasing share of 78% in the overall European MDF production in 2014. The overall capacity utilisation rate increased from 74% in 2013 to 77% in 2014. In 2014, MDF consumption in Europe rose by 4.1% and exceeded 10.5 million m³.

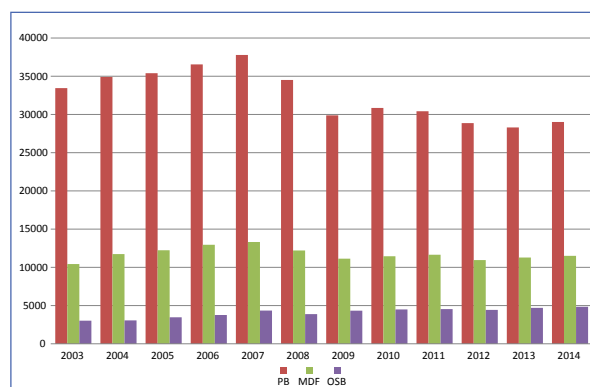
Despite a small increase in Italy, the European production capacity of MDF fell by 345,000 m³ in 2014, reflecting the expected closure of a plant in Austria in January 2014 and some downsizing in Spain. The total capacity amounted to a little less than 15 million m³ in 2014.

EPF is currently re-evaluating its production statistics for OSB which were clearly an underestimation of the market these last years. The European production of OSB rose by 3% in 2014 and exceeded 4.8 million m³. Germany and Romania have the largest European OSB production capacities. Thanks to an efficiency investment in Belgium, the European production capacity of OSB increased slightly in 2014 and almost reached the 5.6 million m³ threshold.

In 2014, the production of hardboard in Europe decreased slightly by 1% compared to 2013, exceeding 565,000 m³ excluding Russia. For Europe as a whole, home sales fell by 2% while exports remained stable. 93% of sales went towards EU28, EFTA, Russia, Turkey and the Balkans compared to 92% in 2012.

For the third year in a row, the European production of softboard increased. In 2014, output rose by 6% compared to 2013, exceeding the 4 million m³ threshold. Rigid softboard accounted for 67% of the output and flex softboard for 32%. 95% of the sales went towards EU28, EFTA, Russia, Turkey and the Balkans.

At last, the general economic situation in Europe is showing slow but steady improvements. Consumers' confidence and other indicators continue their positive development. With the exception of hardboard, markets for all types of panels represented by EPF are growing and expectations for the near term are cautiously optimistic.



Overall production of Particleboard, MDF and OSB in Europe (1,000 m³), 2003-2014

European Containerboard and Corrugated Board Review 2015

Outi Juntti,
Senior Principal,
Pöyry Management Consulting Oy



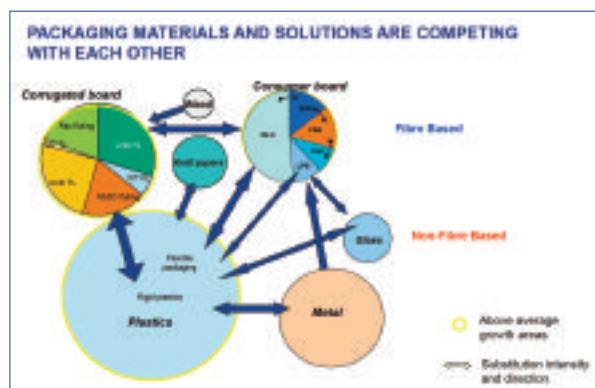
Positive development throughout Europe

If one should describe the European containerboard and corrugated board markets in 2015 with two words, staid and robust are the words that first come into one's mind. Corrugated box demand continued good growth in all the main countries and especially the large Southern European markets and Poland were performing well during the whole year. In Italy price increases in both containerboard and corrugated boxes were announced already in May and demand during the first three quarters was some 6% higher than last year. Similar market growth took place in Spain. The Polish market was brisk the whole year and several price increases were introduced.

The three largest European markets – German, France and the UK – demonstrated a steady development at over 2% during the first three quarters.

Innovation is the key in competition with other packaging materials

An important driver for use of containerboard and corrugated containers has been — and this is expected to continue in the future — its transformation from transport packaging into carefully designed consumer or retail-ready packages with a shiny white surface and high-quality printing. This development is partially driven by the increasing requirements of retail, consumers and brand owners. The corrugated and containerboard industry, however, has also been actively promoting itself, pursuing the growth opportunities represented by this market. Development of retail and consumers' purchasing habits are critical factors for the success and growth of containerboard and corrugated board industry. In this respect e-commerce is one of the most important drivers as the B2C e-commerce is estimated to have over 10% annual growth rates this year and is expected to continue demonstrating robust growth in the coming years as well. Certainly this packaging growth will not benefit only the corrugated markets and competition with other packaging materials and solutions will continue intense. Flexible and rigid plastic packaging, i.e. shrink wrap and plastic trays, are the main competing materials for corrugated containers. Retailers and brand owners have a great impact on this as they make the strategic decision on the packaging solution depending on which segment, consumers or geographies they are targeting with their products.



Expansions, conversions and acquisitions keep on proceeding

In the annals of European containerboard industry, the year 2015 will be remembered as another very active period in the industry development and reshuffling. During the few previous years the Western European countries, especially Germany and the UK, have been the centre of activity as far as investments are concerned whilst the other parts of Europe have been a bit more stable. But in 2015 capacity expansions, acquisitions and investment plans have taken place and announced in all parts of the continent.

The virgin fibre based containerboard (ie. kraftliner and NSSC-fluting) production capacity remained rather stable for years and the activity was limited into smaller expansions of the existing mills. However, this year has been exceptional. First, in May, Metsä Board started-up its BM2 in Husum, Sweden. The machine is a conversion from woodfree papers into bleached linerboard with annual capacity of some 300,000 tonnes. Another transformation from P&W segment into packaging took place in Finland as Stora Enso's Varkaus BM3 came on stream in October. The machine is producing some 400,000 tonnes unbleached and white-top kraftliner annually.

As far as new start-ups are concerned the recycled containerboard industry was actually rather staid as Aviretta's PM4 in Ettringen Germany was the only machine commencing operation this year. However, there were more announcements of investment plans, totally new machines, conversions and expansions, than what we have seen in any year after the crisis in 2009. Decline in the graphical sector and the rather bright outlook in the packaging side seem to lure many companies, and several traditional P&W producers have announced they are investigating in opportunities to enter the testliner and recycled fluting sector. A few investment decisions have already been made, and Parenco's PM2 in Renkum, The Netherlands, is scheduled to start during 2016 - this will be the first one in the market. As many of those P&W paper machines where the conversions are planned are up to 8m wide, the planned projects are rather sizeable, each bringing up to 400,000 tonnes annually if realised. Technically the conversions are in most cases rather straightforward and machines are typically modern and well-invested. However, the success will depend on the chosen business concept and client base as well as recovered fibre sourcing arrangements in this already busy industry.

The leading companies have continued to focus on developing their business, particularly in the converting side. DS Smith has been active in the acquisition front; in May it completed the Duropack deal, which gave it a significant footprint in the South Eastern European corrugated markets and later this year it acquired Spanish Lantero, Cukurova Group in Greece and Milas in Turkey. After acquiring three companies in the US SmurfitKappa Group has lately been focusing in Europe as well; acquisition of Inspirepac, high quality print and display business from the Logson Group and majority shares of Beacon Packaging, both in the UK, belong to the movements done this year. However, the company's expansions in the US corrugated business continued as well and in October it made two more acquisitions: Sound Packaging LLC and Corrugated Professionals LLC both located in Arizona.

Information supplied courtesy of CPI, CEPI and HM Revenue and Customs



2014 – Summary

The drop in production from 2013 to 2014 (roughly 170,000 tonnes) is mainly attributable to the closure of both machines at Smurfit Kappa Snodland mid-2013, in preparation for the installation of their new machine, which was due to start in late 2014, but was delayed.

2015 – Preliminary Assessment

The relatively settled performance of 2014 was but a prelude to the major disturbances of 2015. We already knew of the impending closure of UPM Shotton PM1 (215,000 tonnes newsprint) before the start of the year, so had an inkling that 2015 might prove difficult. However, in retrospect it proved much worse than expected!

Shotton PM1 closed 5 February, to be followed less than three weeks later by the unexpected closure of Aylesford Newsprint (around 400,000 tonnes newsprint). In less than a month these two events roughly halved the annual output of UK newsprint – a grade which alone accounted for over 25% of total UK paper production in 2013.

In late April, Tullis Russell Papermakers Ltd. filed for insolvency, partly due to a bad debt incurred through the collapse of merchant Paperlinx UK, although later the TR management admitted they had been actively seeking a buyer since late 2014. This closure removed over 100,000 tonnes of product from the market, and with the complicated operation inherent in a specialist mill of this size, saw almost 500 staff made redundant. (Fortunately, the Tullis Russell coating operation in Cheshire is unaffected).

During the summer the long-awaited closure of Whatman's small Springfield Mill took place. Since this had been on the cards since early 2013, and had been delayed many times due to having to qualify the new production facilities in Europe and China with various customers, at least the closure did not take anyone by surprise. Also, at the end of August, SCA closed PM1 at Ramsbottom Mill near Bury, due, it was reported, to the machine making a size of tissue mother reel for which demand is low in the UK.

The final closure of the year (at least at the time of writing) involves DS Smith Wansbrough Mill in Watchet, Somerset. The site produces 180,000 tonnes per annum of testliner and recycled grades, and will close by 23 December.

Overall, it looks as if 2016 will start with around one million tonnes lower production capacity, and over one thousand fewer mill staff.

On a more positive front, Smurfit Kappa Snodland has been operating the refurbished machine since mid-year. Fourstones started a new Towel machine at Sapphire Mill. Finally, Moulded Fibre Products Ltd., which opened in Scunthorpe during 2013, reportedly installed a new line in late 2014, and another in mid-2015 – but tonnage on either is small.

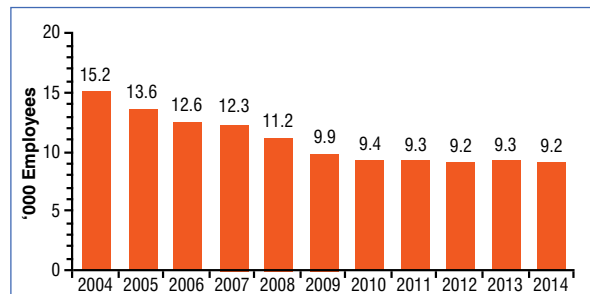
2016 – Preview

It is hoped the Snodland machine performance proves satisfactory soon, allowing this mill to get back to the 250,000 tonnes production level it achieved previously. Aside from this, there is nothing else to anticipate at present as regards mill or machine changes for next year.

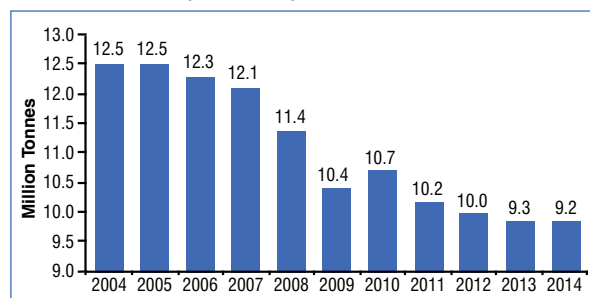
Daven Chamberlain, Editor, Paper Technology

UK Data (CPI/HM Revenue & Customs)

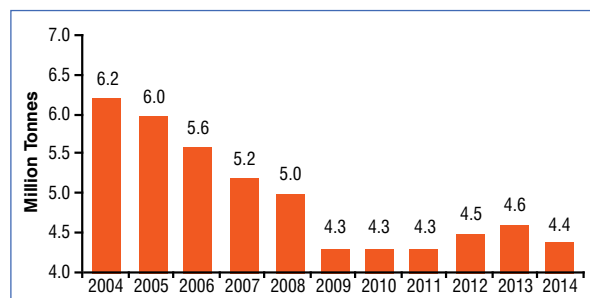
Numbers Employed in the Paper Industry 2004-2014



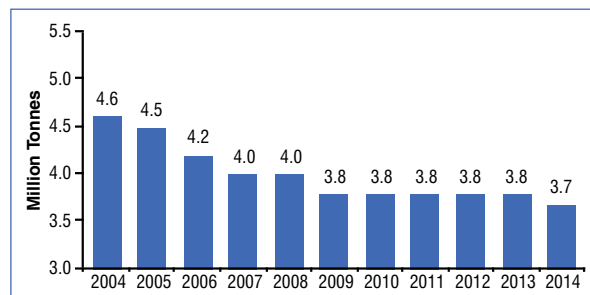
UK Consumption of Paper and Board 2004-2014



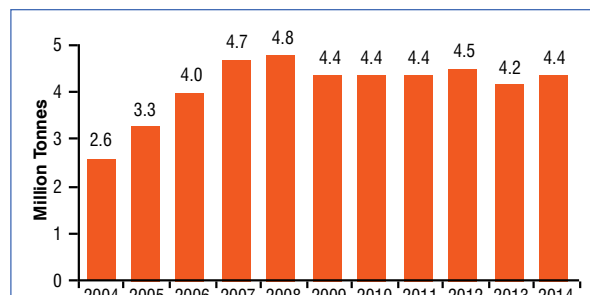
UK Production of Paper and Board 2004-2014



Recovered Paper Usage in UK Papermaking 2004-2014

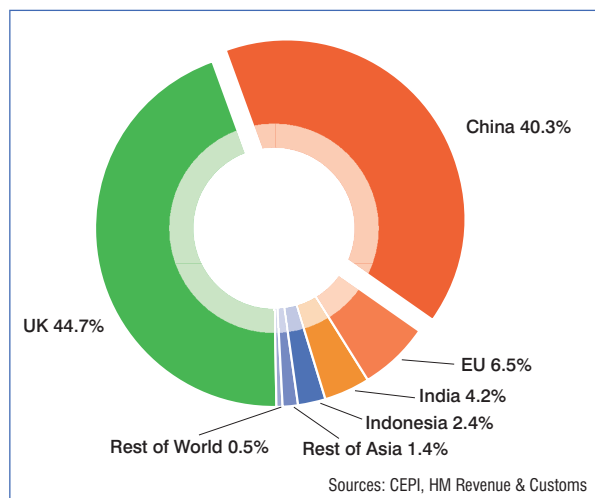


Recovered Paper Exports 2004-2014

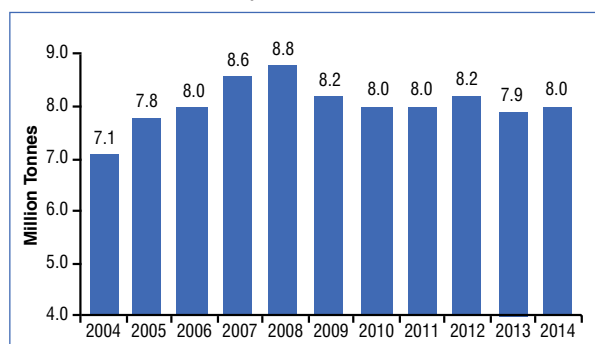


Source: HM Revenue & Customs

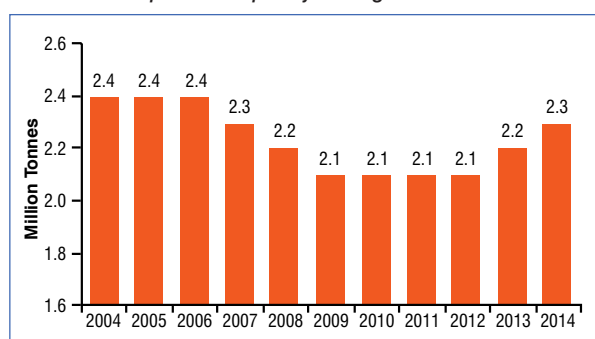
Recovered Paper Markets 2014



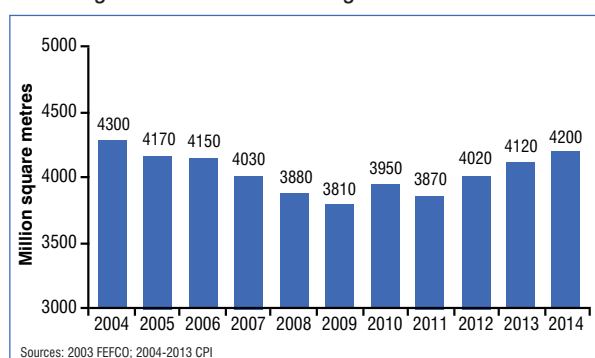
Recovered Paper Collection 2004-2014



Consumption of Paper by Corrugators 2004-2014



Corrugated Production of Corrugated Boxes 2004-2014



Industry Facts 2014

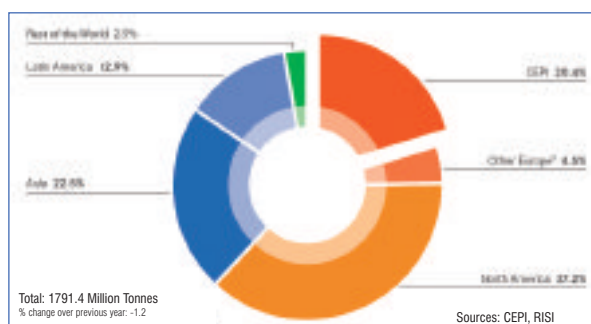
CPI MEMBER COMPANIES	70
CPI MEMBER EMPLOYEES	19,000
PAPER & BOARD PRODUCTION* ('000 TONNES)	4,393.0
CORRUGATED PRODUCTION (MILLION SQ. METRES)	3,615.3
RECOVERED PAPER COLLECTION ('000 TONNES)	8,013.6
TISSUE PARENT REEL PRODUCTION ('000 TONNES)	768.3

* includes parent reel production

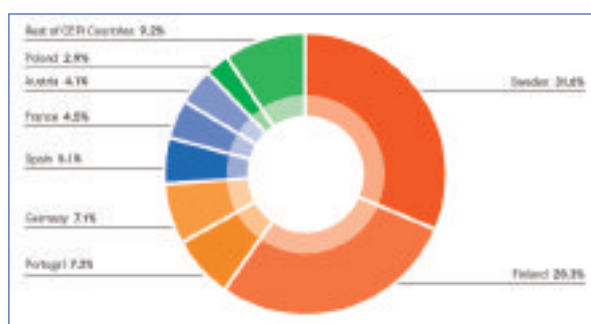
European Data (CEPI)

Pulp – Global View

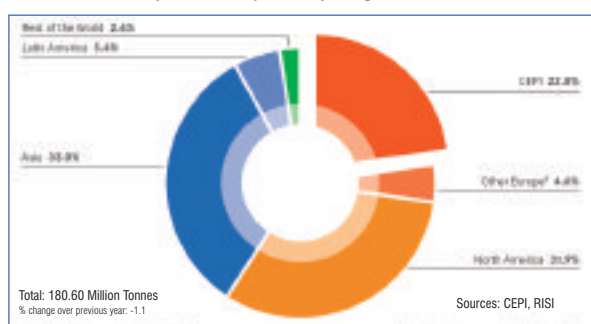
Pulp Production by Region in 2013



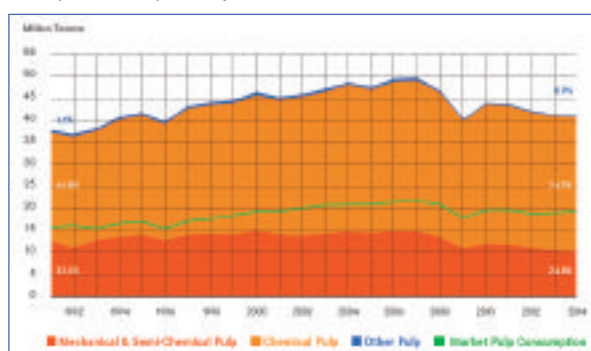
Pulp Production by CEPI Country in 2014



Pulp Consumption by Region in 2013



Pulp Consumption by Grade CEPI Countries in 1992-2014



Pulp

CEPI Exports of Pulp to Other Regions 2000-2014

000 Tonnes	2000	2005	2010	2013	2014	% Share of Total	% Change 2014/2013
Other Europe	724	674	719	807	791	24.4	-2.0
North America	104	187	62	60	46	1.4	-23.7
Latin America	6	20	49	73	65	2.0	-11.33
Asia	412	1,076	1,595	2,689	2,200	67.9	-18.2
Rest of the World	86	114	142	156	137	4.2	-12.4
Total	1,332	2,071	2,567	3,785	3,239	100.0	-14.4

CEPI Imports of Pulp from Other Regions 2000-2014

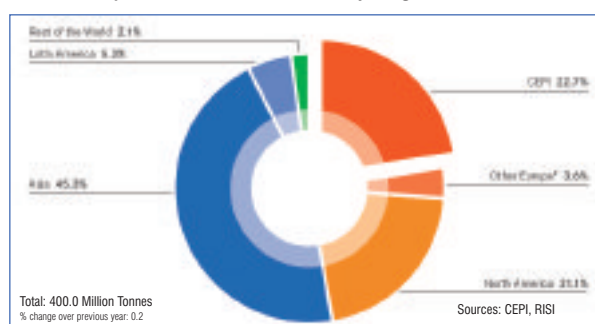
000 Tonnes	2000	2005	2010	2013	2014	% Share of Total	% Change 2014/2013
Other Europe	657	615	480	638	608	7.8	-4.7
North America	4,623	3,891	2,292	1,965	1,578	20.4	-19.7
Latin America	1,916	2,825	4,733	4,972	5,378	69.4	8.2
Asia	272	197	134	69	97	1.3	40.2
Rest of the World	456	433	81	77	83	1.1	8.9
Total	7,924	7,961	7,721	7,721	7,745	100.0	0.3

Trade Flows of Pulp to and from CEPI Countries in 2014

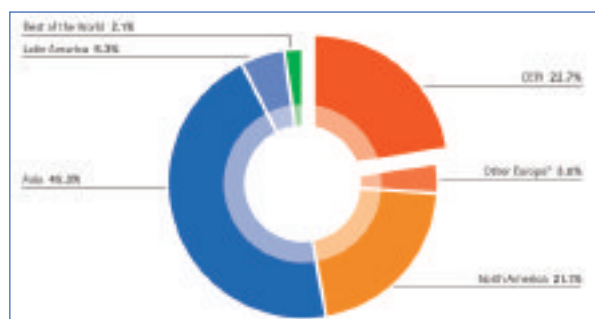


Paper – Global View

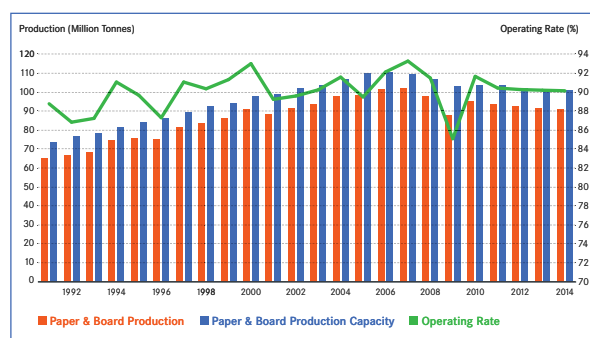
Paper & Board Production by Region in 2013



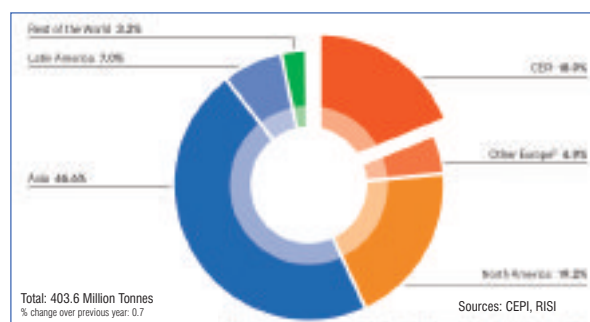
Paper & Board Production by CEPI Country in 2013



Paper & Board Production and Consumption in CEPI Countries 1992-2014



Paper & Board Consumption by Region in 2013



CEPI Exports of Paper & Board to Other Regions 2000-2014

000 Tonnes	2000	2005	2010	2013	2014	% Share of Total	% Change 2014/2013
Other Europe	6,090	6,825	7,349	7,428	7,188	37.5	-3.2
North America	2,283	2,802	2,055	2,000	1,957	10.2	-2.2
Latin America	874	1,194	1,879	1,863	1,774	9.3	-4.8
Asia	2,933	4,742	5,099	5,267	5,193	27.1	-1.4
Rest of the World	1,707	2,229	2,783	3,091	3,053	15.9	-1.2
Total	13,887	17,793	19,164	19,649	19,164	100.0	-2.5

CEPI Imports of Paper & Board from Other Regions 2000-2014

000 Tonnes	2000	2005	2010	2013	2014	% Share of Total	% Change 2014/2013
Other Europe	3,318	2,727	2,525	2,165	2,417	46.7	11.6
North America	2,191	1,915	1,829	1,440	1,507	29.1	4.6
Latin America	198	498	498	387	359	6.9	-7.2
Asia	332	394	625	540	581	11.2	7.5
Rest of the World	344	369	307	268	313	6.0	16.8
Total	6,383	5,903	5,783	4,800	5,177	100.0	7.9

Trade Flows of Paper & Board to and from CEPI Countries in 2014





General Secretariat: Virginie Batais (France), c/o ATIP, 23 Rue d'Aumale F-75009 Paris, France.
Tel: +33 1 45 62 11 91. Fax: +33 1 45 63 53 09.

The General Secretariat remains in Paris primarily for legal reasons as EUCEPA is a French registered body. In practical terms the operation of EUCEPA is hosted on a six month rotation by the member Associations.

*NB to dial any European telephone number from the UK, replace (+) by (00);
to dial the UK from Europe prefix UK by (00) with the exception of Spain which is (07) and Sweden (009)*

Austria

ÖZEPA

The Austrian Association of Pulp and Paper Chemists and Technicians,
A-1060 Wien, Gumpendorferstraße 6, Vienna, Austria.
Tel: +43-1-588-86-256.
Fax: +43-1-588-86-222.
e.mail: Theresa.bernhart@austropapier.at
Year of Foundation: 1912
Chairman: Christian Skilich
Manager: Gabriele Herzog & Yvonne Groiss

Czech/Slovak Republics

SPPC

Czech Paper Technical Association
Novotného lávka 5, CZ 116 68 Praha 1, Czech Republic.
Tel: +420-734-216-197. Fax: +420-2-210-82272.
e.mail: jan.gojny@upce.cz or jan.gojny@gmail.cz
Year of Foundation: 1969
Chairman: Jan Gojny
Secretary: Ludmila Belicová

Finland

PI

The Finnish Paper Engineers Association
Spektri Business Park, Metsänneidonkuja 4, 02130 Espoo, Finland.
Tel: +358-40-132-6688. Fax: +358-9-630-365.
e.mail: pirkko.molkentin-matilainen@papereng.fi
Year and Place of Foundation: 1914, Helsinki
Chairman: Janne Ussa
President: Pirkko Molkentin-Matilainen

France

ATIP

Technical Association of the French Paper Industry
23 rue d'Aumale, 75009 Paris, France
Tel: +33-1-45-62-11-91. Fax: +33-1-45-63-53-09.
e.mail: daniel.gomez@ctp.inpg.fr
Year and Place of Foundation: 1947, Paris
Chairman: L. Lanat General Secretary: D. Gomez
Président: Hugues Leydier

Germany

ZELLCHEMING

Association of Chemists and Engineers of the Pulp and Paper Industry
Carl-Zeiss-Str. 3, D-64331 Weiterstadt, Germany
Tel: +49 6150 5 44 84 04. Fax: +49 6150 5 44 84 05.
e.mail: zellcheming@zellcheming.de
Year and Place of Foundation: 1905 Berlin
Chairman: Dipl.-Ing. (FH) Xaver Weig
Executive Director: Petra Hanke

Great Britain

PITA

Paper Industry Technical Association
5 Frecheville Court, Bury, Lancashire BL9 0UF
Tel: +44-300-3020-150. Fax: +44-300-3020-160.
e.mail: info@pita.co.uk
website: www.pita.co.uk
Year of Foundation: 1920
Chairman: Graham Moore
Chief Executive: Barry Read

Hungary

PNYME

Technical Association of the Paper and Printing Industry
1135 Budapest, Tahí út 53-59
Tel: +36-1-783-0347. Fax: +36-1-780-6460.
e.mail: pnyme@pnyme.hu
Year and Place of Foundation: 1948, Budapest
Managing Director: Sandor Pesti
Chairman: Daniel Panyi
President: Laszlo Gyurina

Italy

ATICELCA

The Technical Association of the Italian Pulp and Paper Industry
Bastioni di Porta Volta 7, 20121 Milano, MI, Italy.
Tel: +39-02-62 91-13-08. Fax: +39-02-29-00-33-96.
e.mail: aticelca@iol.it
Year of Foundation: 1967
Chairman: Furio Azzopardo
General Secretary: Massimo Ramunni
President: Lido Ferri

Latvia

LPRA

Latvian Paper Makers Association
Pilsonu iela 1, Līgatne LV-4110, Latvia
Tel: +371 41 53337 or +371 9258 122. Fax: +371 41 53330.
e.mail: Līgatne.pap@apollo.lv or treiman@edi.lv
President: Guntis Pirags
Eucepa Representative: Arnis Treimanis

Norway

PTF

The Technical Association of the Norwegian Pulp and Paper Industry
P.O. Box 13, Blindern, NO-0313, Oslo, Norway.
Tel: +47-481-05-555. Fax: +47-69-34-54-69.
e.mail: irene.skjefstad.ptf@norskindustri.no
Year of Foundation: 1914
Chairman: Rolf Hauge
Administrative Secretary: Irene Skjefstad

Poland

SPP

Technical Association of the Polish Paper Industry
Plac Komuny Paryskiej 5A, PL -90 950 Lodz,
PO Box 200, Poland.
Tel: +48-42-630-0117. Fax: +48-42-632-4365.
e.mail: info@spp.pl
Year of Foundation: 1946
Chairman: Maciej Kunda
General Director: Zbigniew Fornalski

Portugal

TECNICELPA

The Portuguese Association of Pulp and Paper Technicians
Head Office: Rua Amorim Rosa 38-1° Dt.° 2300-450 Tomar, Portugal
Tel: +351-249-324-858. Fax: +351-249-312-068.
e.mail: info@tecnicelpa.com
Year and Place of Foundation: 1981, Tomar
President: Maria Isolete da Silva Torres Matos
General Secretary: José Manuel Namorado Nordeste

Slovenia

DITP

Association of Pulp and Paper Engineers and Technicians of Slovenia
SI-1000 Ljubljana, Bogisiceva 8, Slovenia
Tel: +386-1-200-2800. Fax: +386-1-42-65-639.
e.mail: ditp@icp-lj.si
Year and Place of Foundation: 1970, Ljubljana
President: Marko Jagodič
Secretary: Metka Severkar

Sweden

SPCI

The Swedish Association of Pulp and Paper Engineers
SPCI Secretariat, Box 5515, S-11485, Stockholm, Sweden
Tel: +46-8-783-8400. Fax: +46-8-661-7344.
e.mail: marina.asp@spci.se
Year of Foundation: 1908
Chairman: Eva Karlsson Berg
Executive Director: Marina Asp

World Paper Industry Technical Associations



Australia

APPITA
P.O. Box 816, Macleod, Vic 3085, Australia
Tel: +61-3-9467-9722. e.mail: admin@appita.com.au
Fax: +61-3-9467-9778.
Web: www.appita.com.au
Year of Foundation: 1946
President: Paul Robilliard
Executive Director: Adele Elice-Invaso

Brazil

ABTCP
Associação Brasileira Técnica de Celulose e Papel
Rua Zequinha de Abreu 27, Pacaembu, São Paulo,
SP CEP 01250-050.
Tel: +55-11-3874-2700. Fax: +55-11-5571-6485
e.mail: abtcp@abtcp.org.br
Web: www.abtcp.org.br
Year of Foundation: 1967
Executive Director: Darcio Berni

Canada

PAPTAC
740 Notre-Dame ouest, Bureau 1070, Montreal, Quebec,
Canada H3C 3X6.
Tel: +1-514-392-0265. Fax: +1-514-392-0369.
e.mail: ghay@paptac.ca
Web: www.paptac.ca
Year of Foundation: 1915
Executive Director: Grégoire Hay
Chairman: Robert Dufresne

Chile

ATCP
Asociación Técnica de la Celulosa y el Pape
Yungay 1033, Pedro de Valdivia, Concepción, Chile.
Tel: +56-41-2-88-81-30.
e.mail: atcpchile@atcp.cl
Web: www.atcp.cl
Year of Foundation: 1972
President: Alex Ruf
General Secretary: Marco Rodriguez

China

CTAPI
China Technical Association of Paper Industry
Sinolight Plaza, 4 Qiyang Road, Chaoyang District, Beijing, China
Tel: +86-010-647-78761
Fax: +86-010-647-78769
Web: www.ctapi.org.cn
Year of Foundation: 1964
President: Chen Xuezhong
Secretary General: Cao Chunyu

Columbia

ACOTEPAC
Asociación Colombiana de Técnicos de la Industria de Pulpa, Papel
y Cartón
Tel: +57-6-3200-392
e.mail: acotepac@etp.net.co
Web: www.acotepacolombia.com
Executive Director: Isabel Cristina Cardona

India

IPPTA
CPPRI Campus, PO Box No 47, Saharanpur-247001 (U.P.), India.
Tel: +91-132-271-4081.
Web: www.ipptaonline.org
Year of Foundation: 1964
President: Neehar Aggarwal
Chief Operating Officer: Neehar Aggarwal

Japan

Japan TAPPI
Kami Pulp Kaikan Building, 9-11, Ginza, 3-Chome, Chuo-Ku, Tokyo
104-8139, Japan.
Tel: +81-3-3248-4841. Fax: +81-3-3248-4843.
e.mail: info@japantappi.org
Web: www.japantappi.org/e/
Year of Foundation: 1947
President: Mr. Kunio Suzuki
Executive Director: Dr. Takanori Miyanishi

Korea

KTAPPI
Korean Technical Association of the Pulp and Paper Industry
Suite 701, Chungmu Bldg., 7, Yeouidaebang-ro 69(yuksipgu)-gil,
Yeongdeungpo-gu, Seoul, 150-890, South Korea
Tel: +82-2-786-8620. Fax: +82-2-786-8621
Web: www.ktappi.or.kr
Year of Foundation: 1967
President: Dong-So Shin
Chief Staff Officer: Hak-Lae Lee.

Mexico

ATCP
Asociación Mexicana de Técnicos de las Industrias de la Celulosa
y del Papel, A.C.
Privada de San Isidro 30, Colonia Reforma Social, 11590 Mexico, DF.
Tel: +52-5-254-79-90. Fax: +52-5-203-8521.
President: Ing Roberto Escoto Zubiran
General Secretary: L. Richardo Macias.

South Africa

TAPPSA
PO Box 1633, Kloof 3640, South Africa.
Tel: +27-31-764-2494. Fax: +27-86-562-0585
Web: www.tappsa.co.za
National Chairman: Iain Kerr
Executive Director: Lynne Askew
Administration: Melanie Smith

South America

FICEPA
Federación Técnica Iberoamericana de la Celulosa y el Papel
Avenida Belgrano 2852, 2° Piso, 1209 Buenos Aires.
Tel: +54-11-4931-0051. Fax: +54-11-4931-0053.

Taiwan – Republic of China

TTAPPI
Heping West Road, Taipei, Taiwan, Republic of China.
Tel: +886-2-2332-2031. Fax: +886-2-2332-1964.
Web: www.twntappi.org.tw
President: Yun-Chuan Ku

United States of America

TAPPI
15 Technology Parkway South, Norcross,
Georgia GA 30092, USA.
Tel: +1-770-446-1400. Fax: +1-770-446-6947.
Web: www.tappi.org
Year of Foundation: 1915
President: Larry Montague
Chairman: Chris Luetgten

Venezuela

APROPACA
La Asociación Venezolana de productores de Pulpa, Papel y Cartón
Avenida Romulo Gallegos, Edif. Johnson & Johnson, piso 2 Oficina
2B, Los Dos Caminos, Caracas, Venezuela.
Tel: +58-234-31-30. Fax: +58-234-65-42
Web: www.apropaca.com.ve
Year of Foundation: around 1985
President: Erasmo Jiménez

Corporate Members

A

AIKAWA FIBER TECHNOLOGIES

Wear parts and new equipment to optimize screening, refining, stock prep and machine approach operations
 PL 241, Kiertotie 27, 78201 Varkaus, Finland
 Tel: +358 207 429 200, Fax: +358 207 429 280
 Email: sales@aikawagroup.com
 Website: www.aikawagroup.com
 Contact: Outi Jappinen



ALBANY INTERNATIONAL EUROPE GMBH

PMC
 Victor-von-Bruns Str 17,
 CH 8212 Neuhausen, Switzerland
 Tel: +41 7930 97275 Fax: +41 52 674 1109
 Email: peter.slater@albint.com
 Website: www.albint.com
 Contact: Peter Slater



ARJOWIGGINS

Paper Manufacturers
 The Paper Place
 4, Lindenwood, Chineham Park
 Chineham, Basingstoke, Hants RG24 8QY
 Tel: 01256 728996 Fax: 01256 728983
 Email: john.cooper@arjowiggins.com
 Website: www.arjowiggins.com
 Contact: John Cooper



ARJOWIGGINS CHARTHAM LTD

Paper Manufacturer
 Station Road, Chartam, Canterbury, Kent, CT4 7JA
 Tel: 01227 813532 Fax: 01227 813510
 Email: mark.hobday@arjowiggins.com
 Website: www.arjowiggins.tracingpapers.com
 Contact: Mark Hobday

ARJOWIGGINS FINE PAPERS LTD

Paper Manufacturer
 Stoneywood Mill, Bucksburn, Aberdeen, Scotland, AB21 9AB
 Tel: 01224 802220 Fax: 01224 802373
 Email: angus.macswen@arjowiggins.com
 Website: www.arjowiggins.com
 Contact: Angus MacSween

AXCHEM UK

Chemicals for the Paper Industry
 Axchem House, Waindyke Way, Normanton,
 West Yorkshire, WF6 1TF
 Tel: 0845 301 6710
 Email: stuart.thomas@axchem.co.uk
 Website: www.axchem.co.uk
 Contact: Stuart Thomas



B

BILLERUDKORSNÄS BEETHAM LTD

Paper Manufacturer
 Waterhouse Mills, Beetham,
 Milnthorpe, Cumbria, LA7 7AR
 Tel: 015395 65000 Fax: 015395 65033
 Email: ying.sou@billerudkorsnas.com
 Website: www.billerudkorsnas.com
 Contact: Ying Sou



BIM UNITED KINGDOM LTD

Chemical Supplier
 Prince Street, Bolton, Lancashire, BL1 2NP
 Tel: 01204 366997 Fax: 01204 366998
 Website: www.bimkemi.com
 Contact: Julian Wood



BLACKBURN CHEMICALS LTD

Manufacturers of Antifoams and Crepe-Control Chemicals
 Whitebirk Industrial Estate, Blackburn, Lancashire, BB1 5SX
 Tel: 01254 522222 Fax: 01254 664224
 Email: info@bbchem.co.uk
 Website: www.bbchem.co.uk
 Contact: Martin Wroe



BPMSA EXECUTIVE

Promoting the British Paper Machinery Suppliers
 25 Hunt Fold Drive, Greenmount,
 Bury, Lancashire, BL8 4QG
 Tel: 01204 886879
 Email: a.pope2@btinternet.com
 Website: www.picon.com
 Contact: Tony Pope

BUCKMAN LABORATORIES N.V.

(Europe, Middle East, North Africa)
Chemical manufacturer and supplier
 Wondelgemkaai 159
 9000 Gent
 Belgium
 Tel: +32 9 257 92 11 (Office)
 Fax: +32 9 253 62 95
 Email: ssunley@buckman.com
 Website: http://buckman.com
 Contact: Sean Sunley

C

CARGILL PLC

Manufacturers and suppliers of regular, modified and cationic starches, starch conversion and handling systems
 Guinness Road, Trafford Park,
 Manchester, M17 1PA
 Tel: 0161 886 3505
 Fax: 0161 848 9034



CARLSON FILTRATION LTD

Butts Mill, Barnoldswick,
Lancashire, BB18 5HP
Phone: 01282 811000
Email: paulh@carlson.co.uk

**COFELY ENERGY SERVICES**

The UK's leading industrial energy services provider, serving energy intensive organisations in, Paper & Pulp, Food & Drink, Automotive, Petrochem & Fine Chemicals, Mining & Metallurgy and the Public Sector.

Sheffield Airport Business Park, Europa Link, Sheffield, S9 1XU
Tel: 0114 280 0061 Fax: 0114 280 0090
Email: mick.hamilton@cofely-gdfsuez.com
Website: www.Cofely-gdfsuez.co.uk/ies
Contact: Mick Hamilton

CRISTAL PIGMENTS (UK) LTD

Titanium dioxide pigment manufacture
PO Box 26, Grimsby, NE Lincs, DN41 8DP
Tel: 01469 553241 Fax: 01469-553310
Email: mike.denman@cristal.com
Website: www.cristal.com
Contact: Michael Denman

THE COLOR COMPANY LTD

Printers
27A Poland Street, London, W1F 8QW
Tel: 020 7101 1885 Fax: 020 7434 0469
Email: elgin@color.co.uk
Website: www.color.co.uk
Contact: Elgin Loane

D**DE LA RUE SECURITY PAPERS**

Security Paper Manufacturer
Bathford Paper Mill, Bathford, Bath, BA1 7QG
Tel: 01225 855632 Fax: 01225 852128
Email: andrew.nash@uk.delarue.com
Website: www.delarue.com
Contact: Andrew Nash

**DS SMITH PAPER LTD**

Paper Manufacturer
Head Office, Kemsley Mill, Sittingbourne, Kent, ME10 2TD
Tel: 01628 518900
Website: www.dssmithpaper.com

Divisional, Technical Engineering Services Department
Kemsley Paper Mill, Sittingbourne, Kent, ME10 2TD
Tel: 01795 5189 Fax: 01795 414212
Email: guy.lacey@dssmith.com
Website: www.dssmithpaper.com
Contact: Guy Lacey

**E****ENVIRONMENT AGENCY**

Environmental Regulator
Industry Regulation Technical Services
Manley House, Kestrel Way, Sowton Industrial Estate,
Exeter, Devon, EX2 7LQ
Tel: 01769 540789
Email: js.seaman@environment-agency.gov.uk
Website: www.environment-agency.gov.uk
Contact: Spence Seaman

ENVIROSYSTEMS (UK) LTD

Recyclers of Papermill Waste
Bartle Cross Park, Barton, Preston, Lancashire, PR3 5AX
Tel: 01772 860085
Email: erussell@envirosystems.co.uk
Website: www.envirosystems.co.uk
Contact: Liz Russell

F**FOURSTONES PAPER MILL CO LTD**

Papermaking and converting of creped and absorbent papers
South Tyne Mill, Fourstones,
Hexham, Northumberland, NE46 3SD
Tel: 01434 602444 Fax: 01434 607046
Website: www.fourstonespapermill.co.uk
Contact: Peter Duxbury

**G****G.B.C (SPECIALITY CHEMICALS) LTD**

Chemicals
The Old Fire Station, Browns Lane,
Charlbury, Oxon, OX7 3QW
Tel: 01608 813088 Fax: 01608 813089
Email: info@gbcspecs.co.uk
Website: www.luminova.co.uk
Contact: Adrian Iley

GL&V

GL&V designs and markets equipment used in various stages of pulp and paper production, from pulp preparation to sheet forming and finishing. GL&V serves the global market with spare parts, rebuilds, upgrades and optimization services for new and existing equipment. Our group is focused on innovation and provides technologies that generate energy and cost savings for our customers.
Box 47100, 100 74 Stockholm, Sweden
Tel: +46 (0)8 522 444 00
Email: info@Sweden@glv.com
Website: www.glvpulppaper.com
Contact: Paul Spencer

**GLATFELTER LYDNEY LTD**

Paper Manufacturer
Church Road, Lydney,
Gloucestershire, GL15 5EJ
Tel: 01594 846 493
Email: david.foulds@glatfelter.com
Website: www.glatfelter.com
Contact: David Foulds

**H****HEIMBACH UK LTD**

Paper Machine Clothing - Forming/Pressing/Drying/Belting
Bradnor Road, Wythenshawe, Manchester, M22 4TS
Tel: 0161 998 6911 Fax: 0161 998 8095
Email: chris.kershaw@heimbach.com
Website: www.heimbach.com
Contact: Christopher Kershaw

HONEYWELL CONTROL SYSTEMS LTD

QCS, DCS and CD Actuators – Integrated Measurement, Control and Safety Systems

Honeywell House, Skimped Hill Lane, Bracknell,
Berkshire, RG12 1EB
Website: www.experionmx.com

IMERYS MINERALS LTD

Kaolin, talc & calcium carbonate suppliers

Par Moor Centre, Par Moor Road, Par, Cornwall, PL24 2SQ
Tel: 01726 818040 Fax: 01726 811200
Email: graham.pring@imerys.com
Website: www.imerys.com
Contact: Graham Pring

IMERYS KAOLIN & TALC

Mineral Producer

2 Place E Bouillieres, F-31036, Cedex 1, France
Tel: +33 561 502065 Fax: +33 561 502045
Email: yannick.rabot@imerys.com
Contact: Yannick Rabot

INGREDION UK LTD

Ingredient Solutions

Ingredion House, Manchester Green, 333 Styal Road,
Manchester, M22 5LW
Tel: 0161 435 3346
Email: catherine.cooper@nstarch.com
Website: www.ingredion.com
Contact: Catherine Cooper

INTERTISSUE LTD

Tissue Manufacturer

Brunel Way, Baglan Energy Park, Briton Ferry,
Neath, SA11 2HZ
Fax: 01639 825 381
Email: giuseppe.munari@sofidel.it
Contact: Giuseppe Munari

**INVISTA LTD**

Manufacture of process and environmental sensors for the paper industry

23 Murrell Green Business Park, London Road, Basingstoke,
Hampshire, RG27 9GE
Tel: 01256 766 716
Email: john.middleton@invista-sensors.com
Website: www.invista-sensors.com
Contact: John Middleton

JAMES CROPPER PLC

Paper Manufacturer

Burnside Mills, Kendal, C
Tel: 01539 722002 Fax: 01:
Website: www.cropper.com
Contact: Patrick Willink

**JARSHIRE LTD**

Equipment for Converting, Paper & Tissue Industries

Levels House, 4 Bristol Way, Slough, Berkshire, SL1 3QE
Tel: 01753 825122 Fax: 01753 694653
Email: davidjobson@jarshire.co.uk
Website: www.jarshire.co.uk
Contact: David Jobson

**K****KADANT UK LTD**

Papermaking Engineers

Woodhill Road, Bury, Lancashire, BL8 1BD
Tel: 0161 764 9111 Fax: 0161 762 7192
Email: philip.drury@kadant.com
Website: www.kadant.com
Contact: Philip Drury

KEMIRA PULP & PAPER CHEMICALS

Specialty Pulp & Paper Chemicals

Bowling Park Drive, Bradford, Yorkshire, BD4 7TT
Tel: 01274 762242 Fax: 01274 762288
Email: james.atkinson@kemira.com
Website: www.kemira.com
Contact: James Atkinson

KONECRANES UK LTD

Electric Overhead Travelling Cranes

Industrial Crane Division, Peel Park Place, College Milton,
East Kilbride, Glasgow, G74 5LR
Tel: 01355 220591 Fax: 01355 263654
Email: gordon.adie@konecranes.com
Contact: Gordon Adie

**M****MARE UK LTD**

Producer and supplier of functional chemical products to the paper industry

Office 20, 53 Stramongate, Kendal, Cumbria, LA9 4BH
Tel: 01539 722611 Mobile: 07768 583374
Website: www.mare.com
Email: scott.wilkinson@mare.com
Contact: Scott Wilkinson

**N****NALCO LTD**

Nalco is a leading supplier of water and process treatment services to the Paper Industry

Novus Business Centre, Office 14, Judson Road, North West
Industrial Estate, Peterlee, SR8 2QJ
Tel: +44 0191 5878180
Email: lw Wallace@nalco.com
Website: www.nalco.com
Contact: Lynne Wallace

**P****PAQUES BV**

Anaerobic & Aerobic Effluent Treatment Systems, Biogas Desulphurization

P O Box 52, T. De Boerstraat 24, Balk, 8560 AB, The Netherlands
Tel: +31 514 608500 Fax: +31 514 603342
Email: w.driessen@paques.nl
Website: www.paques.nl
Contact: Willie Driessen

PROCAL LTD

Calibration and maintenance of paper test equipment

Glebe House, Glebe Road, Ashted, Surrey, KT21 2NU
Tel: 01372 271313 Fax: 01372 270100
Email: mark@procal.co.uk
Website: www.procal.co.uk
Contact: Mark Ransom

Q

QISOFT LIMITED*Product and Process Information Software*

Alexander House, Station Brow, Leyland, Lancs, PR25 3NZ

Tel: 01772 641133 Fax: 01772 641155

Email: graeme@qisoft.com

Website: www.qisoft.com

Contact: Graeme Parkinson

R

RAKEM LTD*Pigments, Fillers, Kaolin Clay, PCC, Talc, Additives*

Wellington Street, Bury, Lancashire, BL8 2BD

Tel: 0161 762 0044 Fax: 0161 762 0033

Email: sales@rakem.co.uk

Website: www.rakem.co.uk

Contact: Kieran Rafferty

RAUMASTER PAPER OY*Finishing systems for Paper Mills (winding, core & broke handling, roll handling & wrapping, warehousing and shipping)*

Ratavahe 5, Rauma, 26100, Finland

Tel: 00 358 2 8377 4400 Fax: +358 2 8377 4304

Email: Kaarlo.Talvinen@raumaster.fi

Website: www.raumasterpaper.fi

Contact: Kaarlo Talvinen

**ROQUETTE UK LTD***Suppliers of native and modified starches and starch derivatives*

Sallow Road, Corby, Northants, NN17 5JX

Tel: 01536 273040

Email: derek.dobbs@roquette.com

Website: www.roquette.com

Contact: Derek Dobbs

S

SKF (UK) LTD*Rolling bearings, seals, mechatronics, lubrication systems and services*

Sundon Park Road, Luton, Bedfordshire, LU3 3BL

Tel: 01582 490049 Fax: 01582 848091

Email: marketing.uk@skf.com

Website: www.skf.com

Contact: Samantha Tonge

SMITHERS PIRA*Research, Consultancy, Training and Information*

Cleeve Road, Leatherhead, Surrey, KT22 7RU

Tel: 01372 802169

Email: gmoore@smithers.com

Website: www.smitherspira.com

Contact: Graham Moore

SMURFIT KAPPA SSK*Paper Manufacturer*

Mount Street, Nechells, Birmingham, West Midlands, B7 5RE

Tel: 0121 327 1381 Fax: 0121 322 6300

Email: paul.freeman@smurfitkappa.co.uk

Website: www.smurfitkappa.com

Contact: Paul Freeman

**SONOCO ALCORE***Paper Manufacturer*

Stainland Board Mills, Holywell Green, Halifax,

Yorkshire, HX4 9PY

Tel: 01422 374741 Fax: 01422 371495

Email: tim.colbeck@sonoco-alcure.net

Website: www.sonoco.com

Contact: Tim Colbeck

**SPRAYING SYSTEMS LTD***Spray Nozzles*

Farnham Business Park, Weydon Lane,

Farnham, Surrey, GU10 8QT

Tel: 01252 727200

Email: david.yates@spray.com

Website: www.spray.com

Contact: David Yates

T

TEST-TECH**PAPER TESTING AND TECHNOLOGY LTD***Testing and Development Service for the paper industry*

Unit 6, St George's Industrial Estate, White Lion Road,

Amersham, Bucks, HP7 9JQ

Tel: 01494 544811 Fax: 01494 766798

Email: nick.kite@test-tech.co.uk

Website: www.test-tech.co.uk

Contact: Nick Kite

**TOSCOTEC S.P.A.***Tissue and paper & board machines builder, stock preparation plants, hoods and air systems. Toscotec supplies from complete paper production lines to rebuilds, modernisation projects and even single components.*

Viale Europa 317/F, 55012 Marlia, Lucca, Italy

Tel: +39 0583 40 871 Fax: +39 0583 408 7800

Email: davide.mainardi@toscotec.com

Website: www.toscotec.com

Contact: Davide Mainardi

U

UPM-KYMMENE (UK) LTD*Newsprint Manufacturer*

Shotton Paper, Weighbridge Road, Shotton,

Deeside, Flintshire, CH5 2LL

Tel: 01244 280000 Fax: 01244 280363

Email: andrew.bronnert@upm.com

Website: www.upm-kymmene.com

Contact: Andrew Bronnert



V

VALMET LTD*Manufacturing and Refurbishment Engineers for the Paper Industry*

Waterside Business Park, Johnson Road, Eccleshill, Darwen,

Lancashire BB3 3BA

Tel: 01254 819078

Email: jorma.jarvinen@valmet.com

Website: www.valmet.com

Contact: Jorma Järvinen

**VERNACARE LTD**

Folds Road, Bolton, Lancashire, BL1 2TX

Phone: 01204 529494 Fax: 01204 521862

Email: steve.birch@vernagroup.com

Website: www.vernacare.com

Contact: Steve Birch



Paper, Pulp & Coating Mills in the UK

AHLSTROM CHIRNSIDE LTD

1

CHIRNSIDE PAPER MILL

Chirnside, Duns, Berwickshire, TD11 3JW
Tel: 01890-818303
www.ahlstrom.com
Products: Teabag, Speciality

2

MOUNT SION WORKS

Sion Street, Manchester, M26 3SB
Tel: 0161 725 5320
www.ahlstrom.com
Products: Pulp mill (10,000tpy)

3

APSLEY PAPER TRAIL

Frogmore Paper Mill & Visitor Centre
Apsley, Hemel Hempstead, Herts, HP3 9RY
Tel: 01442-234600
www.thepapertrail.org.uk
Products: Fine, Speciality, Artist / Watercolour

4

ARJOWIGGINS CHARTHAM LTD

Chartham Paper Mill
Station Road, Chartham, Canterbury, CT4 7JA
Tel: 01227-813500
www.arjowiggins-tracingpapers.com
Products: Tracing

5

ARJOWIGGINS FINE PAPERS LTD

Stoneywood Mill
Bucksburn, Aberdeen, AB21 9AB
Tel: 01224-802200
www.arjowiggins.com
Products: Fine, Industrial (Casting)

6

ASIA FILE CORPORATION BHD

Higher Kings Mill
Cullompton, Devon, EX15 1QJ
Tel: 01884-863600
www.higherkings.co.uk
Products: Recycled coloured paper and board

8

BILLERUD BEETHAM LTD

Waterhouse Mills
Beetham, Milnthorpe, Cumbria, LA7 7AR
Tel: 01539-565000
www.billerud.com
Products: Speciality (food, health care, industrial)

9

CARLSON FILTRATION LTD

Butts Mill
Barnoldswick, Lancs, BB18 5HP
Tel: 01282-811000
www.carlson.co.uk
Products: Speciality Filter

10

DE LA RUE INTERNATIONAL LTD

Overton Mill
Overton, Hampshire, RG25 3JG
Tel: 01256-117990
www.delarue.com
Products: Banknote, Security

11

DE LA RUE SECURITY PAPERS

Bathford Paper Mills
Bathford, Bath, BA1 7QG
Tel: 01225-859903
www.delarue.com
Products: Security (not Banknote)

12

DS SMITH PAPER KEMSLEY PAPER MILL

Sittingbourne, Kent, ME10 2TD
Tel: 01795-518900
www.dssmithpaper.com
Products: Fluting, Testliner, Plasterboard and DIP (all from 100% RCF)

FOURSTONES PAPER MILL CO LTD

14

SAPPHIRE MILL

Leslie, Glenrothes, Fife, KY6 3AB
Tel: 01592-328652
www.fourstonespapermill.co.uk
Products: Towel

15

SOUTH TYNE MILL

Fourstones, Hexham, Northumberland, NE46 3SD
Tel: 01434-602444
www.fourstonespapermill.co.uk
Products: Creped grades

16

GLATFELTER UK LTD

Lydney Paper Mill
Church Road, Lydney, Gloucestershire, GL15 5EJ
Tel: 01594-842235
www.glatfelter.com
Products: Teabag

17

HOLLINGSWORTH & VOSE COMPANY LTD

Postlip Mills
Winchcombe, Cheltenham,
Gloucestershire, GL54 5BB
Tel: 01242-602227
www.hollingsworth-vose.com
Products: Speciality Filter, Battery Separator

18

IGGESUND PAPERBOARD (WORKINGTON) LTD

Siddick, Workington, Cumbria, CA14 1JX
Tel: 01900-601000
www.iggesund.com
Products: Folding Boxboard

19

INNOVIA FILMS LTD

Wigton, Cumbria, CA7 9BG
Tel: 01697-342281
www.innoviafilms.com
Products: Regenerated Cellulose Film

20

JAMES CROPPER PLC

Burneside Mills
Kendal, Cumbria, LA9 6PZ
Tel: 01539-722002
www.cropper.com
Products: Fine, Industrial

KIMBERLY CLARK LTD

21

BARROW MILL

Barrow-in-Furness, Cumbria, LA14 4WZ
Tel: 01229-495000
www.kimberly-clark.com
Products: Tissue

22

COLESHILL MILL

Aber Road, Flint, Flintshire, CH6 5EX
Tel: 01352-805000
www.kimberly-clark.com
Products: Tissue

23

DELYN MILL

Aber Road, Flint, Flintshire, CH6 5EX
Tel: 01352-805000
www.kimberly-clark.com
Products: Hand Towel

24

NORTHFLEET MILL

Crete Hall Road, Gravesend, DA11 9AD
Tel: 01474-336000
www.kimberly-clark.com
Products: Tissue

25

LENZING FIBERS GRIMSBY LTD

Energy Park Way, Grimsby, DN31 2TT
Tel: 01472-244700
www.lenzing.com
Products: Lyocell fibre (40,000tpy) from wood pulp

NORTHWOOD PAPER SALES LTD

26

CONNECT HYGIENE PRODUCTS LTD

Disley Mill
Waterside, Disley, Cheshire, SK12 2HW
Tel: 01663-762701
www.connecthygiene.co.uk
Products: Tissue

27

PETER GRANT PAPERS LTD

Lansil Way, Caton Road, Lancaster, LA1 3PQ
Tel: 01524-843678
www.petergrantpapers.com
Products: Tissue

28

NORTHWOOD & WEPA

Bridgend Paper Mills
Llangynwyd, Nr Bridgend,
Mid Glamorgan, CF34 9RS
Tel: 01656-684500
Products: Tissue

29

PALM PAPER LTD

King's Lynn, Norfolk, PE34 3AL
Tel: 01553-782222
www.palmpaper.co.uk
Products: Standard Newsprint (from 100% RCF)

31

POOL PAPER MILLS

Weidmann Whitely Ltd
Pool-in-Wharfedale, Otley,
West Yorkshire, LS21 1RP
Tel: 01132-027000
www.weidmann-whitely.com
Products: Insulation, Pressboard

32

PRESTON BOARD & PACKAGING LTD

Romiley Board Mill
Oakwood Road, Romiley, Cheshire, SK6 4DZ
Tel: 0161-430-6061
www.romileyboard.co.uk
Products: Unlined Chipboard, Cardboard (tubes, edge protection, layer pad, sheets)

PURICO GROUP LTD

33

DEVON VALLEY MILL LTD

Hele, Exeter, Devon, EX5 4RF
Tel: 01392-881731
www.purico.co.uk
Products: Teabag, Overlay, Sausage Casing.

34

UNION PAPERTECH LTD

Simpson Clough Mill, Ashworth Road, Heywood,
Lancashire, OL10 4BE
Tel: 01706-364121
www.purico.co.uk
Products: Teabag, Coffee Filter

35

SAICA CONTAINERBOARD

144 Manchester Road, Carrington
Manchester, M31 4QN
Tel: 0161-7767000
www.saica.com
Products: Fluting & testliner

SCA HYGIENE PRODUCTS LTD

36

CHESTERFIELD PAPER MILL

Walton, Chesterfield, S40 2PH
Tel: 01246-558557
www.sca.com
Products: Tissue

37

OAKENHOLT MILL

Oakenholt, Nr Flint, Flintshire, CH6 5PU
Tel: 01352-732101
www.sca.com
Products: Tissue

38

PRUDHOE MILL

Prudhoe, Northumberland, NE42 6HE
Tel: 01661-806000
www.sca.com
Products: Tissue

39

STUBBINS MILL

Stubbins Lane, Ramsbottom,
Bury, Lancs, BL0 0NH
Tel: 01706-283000
www.sca.com
Products: Tissue

40

TRAFFORD MILL

Trafford Park Road, Trafford Park,
Manchester, M17 1EQ
Tel: 0161-888-6002
www.sca.com
Products: Tissue

SMURFIT KAPPA GROUP

41

SMURFIT KAPPA SSK

Mount Street, Nechells, Birmingham, B7 5RE
Tel: 0121-327-1381
www.smurfitkappa.com
Products: Corrugated Case Medium (Recycled Fluting, Testliner 2 & 3)

42

SMURFIT KAPPA TOWNSEND HOOK

Mill Street, Snodland, Kent, ME6 5AX
Tel: 01634-240205
www.smurfitkappa.com
Products: Corrugating Medium, Testliner 2 & 3

SOFIDEL GROUP

43

INTERTISSUE

Brunel Way, Neath, SA11 2HZ
Tel: 01639-825380
www.sofidel.it
Products: Tissue

44

NORTHERN TISSUE GROUP LTD

Lansil Way, Lancaster, LA1 3QY
Tel: 01524-844600
tissue.co.uk
Products: Tissue

45

SOFIDEL UK LTD

Waterside Road, Hamilton Industrial Park
Leicester, LE5 1TZ
Tel: 01162-460888
www.sodifel.it
Products: Tissue

46

SONOCO BOARD MILLS LTD

Stainland Mills
Holywell Green, Halifax, West Yorkshire, HX4 9PY
Tel: 01422-374741
www.sonoco.com
Products: Coreboard, Laminate Board, Display Board
Middles, Chipboard

47

ST CUTHBERTS MILL LTD

Wells, Somerset, BA5 1AG
Tel: 01749-672015
www.stcuthbertsmill.com
Products: Artist / Watercolour

49

TULLIS RUSSELL COATERS LTD

Church Street, Bollington
Macclesfield, Cheshire, SK10 5QF
Tel: 01625 573 051
www.tullisrussell.com
Products: Coated papers

50

TWO RIVERS PAPER COMPANY

Pitt Mill, Roadwater, Watchet, Somerset, TA23 0QS
Tel: 01984-641028
www.tworiverspaper.co
Products: Artist / Watercolour

UPM KYMMENE (UK) LTD

51

CALEDONIAN PAPER

Meadowhead Road, Shewalton, Irvine, KA11 5AT
Tel: 01294-312020
www.upm.com
Products: Coated Magazine

52

SHOTTON PAPER,

Shotton, Deeside, Flintshire, CH5 2LL
Tel: 01244-280000
www.upm.com
Products: Standard Newsprint (from 100% RCF)

CONTACT DETAILS FOR RELEVANT NATIONAL GROUPS / ASSOCIATIONS

Alliance for Beverage Cartons and the Environment (ACE) UK	www.ace-uk.co.uk
British Association of Paper Historians (BAPH)	www.baph.org.uk
British Paper Machinery Suppliers Association (BPMSA)	www.picon.com
British Printing Industries Federation – Cartons (BPIF Cartons)	www.bpifcartons.org.uk
British Wood Pulp Association (BWPA)	www.bwpa.org.uk
Confederation of Paper Industries (CPI)	www.paper.org.uk
Forest Stewardship Council (FSC) UK	www.fsc-uk.org
Independent Waste Paper Processors Association (IWPPA)	www.iwppa.co.uk
Packaging Federation	www.packagingfedn.co.uk
Paper and Board Association (P&BA)	www.paperandboard.org.uk
The Paper Industry Gold Medal Association	www.papergoldmedal.org.uk
Programme for the Endorsement of Forest Certification (PEFC) UK	www.pefc.co.uk
Recycling Association	www.therecyclingassociation.com
Rubber and Plastic Research Association (RAPRA)	www.rapra.org
Sheet Plant Association (SPA)	www.sheetplantassociation.com
Two Sides	www.twosides.info
The Worshipful Company of Stationers and Newspaper Makers	https://stationers.org

Panel Board Mills in UK & Ireland

- | | |
|--|--|
| <p>54 EGGER BARONY LTD (particle)
Barony Road, Auchinleck, KA18 2LL
Tel: 01290-427400
www.egger.com</p> | <p>59 NORBORD INVERNESS (OSB)
Morayhill, Dalcross, Inverness, IV2 7JQ
Tel: 01463-792424
www.norbord.co.uk</p> |
| <p>55 EGGER (UK) LTD (particle)
Anick Grange Road, Hexham,
Northumberland, NE46 4JS
Tel: 01434-602191
www.egger.com</p> | <p>60 NORBORD SOUTH MOLTON (particle)
Hill Village, South Molton, Devon, EX36 6HP
Tel: 01769-572991
www.norbord.co.uk</p> |
| <p>56 KRONOSPAN LTD (particle & MDF)
Holyhead Road, Chirk, Wrexham, LL14 5NT
Tel: 01691-773361
www.kronospan.co.uk</p> | <p>61 SMARTPLY EUROPE LTD (OSB)
Belview, Slieverue, Waterford, Ireland
Tel: +353 51 851 233
www.smartply.com</p> |
| <p>57 MEDITE EUROPE LTD (MDF)
Redmondstown, Clonmel,
Co. Tipperary, Ireland
Tel: +353 526 182 300
www.medite-europe.com</p> | <p>62 SUNDEALA LTD (softboard-type material)
Middle Mill
Dursley, Gloucestershire, GL11 5LQ
Tel: 01453-540900
www.sundeala.co.uk</p> |
| <p>58 NORBORD COWIE (particle & MDF)
Station Road, Cowie, Stirlingshire, FK7 7BQ
Tel: 01786-812921
www.norbord.co.uk</p> | <p>71 ARMSTRONG WORLD INDUSTRIES LTD (ceiling tiles)
Gateshead,
Tyne & Wear NE11 OSP
Tel: 0191 497 1000
www.armstrong.com</p> |

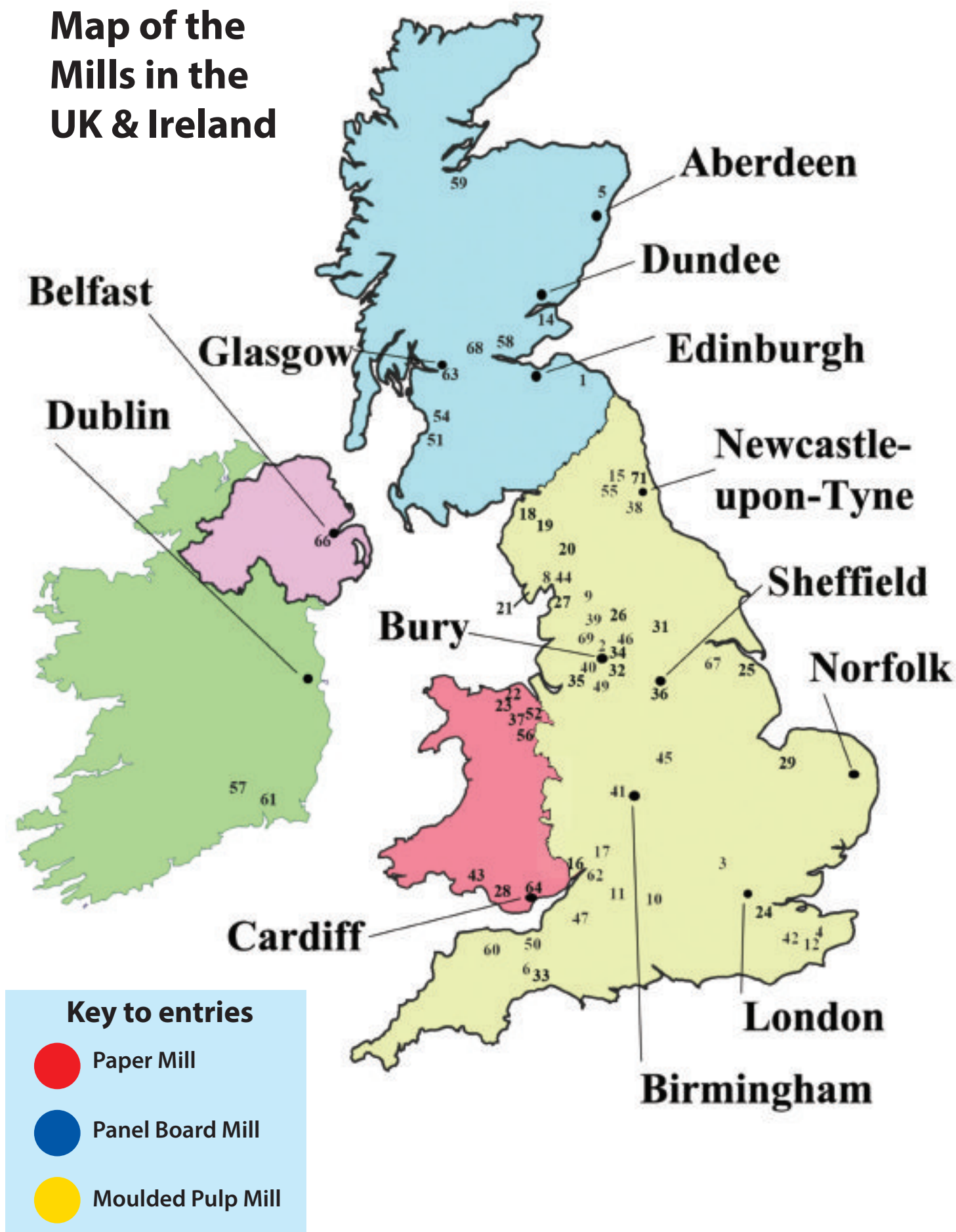
WOOD PANEL INDUSTRY FEDERATION (WPIF)
Autumn Park Business Centre
Dysart Road, Grantham
Lincolnshire, NG31 7EU
Tel: +44 (0) 1476 512 381
www.wpif.org.uk

EUROPEAN PANEL FEDERATION (EPF)
24, rue Montoyer box 20
B-1000 Brussels
Belgium
Tel: +32 2 556 25 89
www.europanel.org

Moulded Pulp Mills in the UK & Ireland

- | | |
|---|---|
| <p>63 ROBERT CULLEN LTD
10 Dawsholm Avenue,
Dawsholm Industrial Estate,
Glasgow, G20 0TS
Tel: 0141 945 2222
www.cullen.co.uk</p> | <p>68 PAPER PULP SOLUTIONS
Pulp Mill House, Banton Road,
Glasgow, G65 0QG
Tel: 01236 829 052
www.paperpulpolutions.co.uk</p> |
| <p>66 HUHTAMAKI (LURGAN) LTD
41 Inn Road, Dollingstown, Lurgan,
Co. Armagh, BT66 7JN
Tel: 02838 327 711
www2.huhtamaki.com</p> | <p>69 VERNACARE LTD
Folds Road, Bolton, Lancashire, BL1 2TX
Tel: 01204 529 494
www.vernacare.com</p> |
| <p>67 MOULDED FIBRE PRODUCTS LTD
Flixborough Industrial Estate
Scunthorpe, Lincolnshire, DN15 8SD
Tel: 01724 847 207
www.mouldedfibreproducts.com</p> | |

Map of the Mills in the UK & Ireland



Mills in the Benelux Region

- B1** **AHLSTROM MALMEDY S.A.**
Av. Du Pont de Warche, B-4960 Malmedy
Tel: +32 (0) 80 79 54 11
www.ahlstrom.com
- N22** **ARJOWIGGINS SECURITY B.V.**
Postbus 648, 7300 AP Apeldoorn
Tel: +31 (0)55 - 533 21 32
www.security.arjowiggins.com
- B2** **BURGO ARDENNES S.A.**
Rue de la Papeterie 1, B-6760 Virton
Tel: +32 (0)63 - 58 71 11
www.burgo.com
- B4** **CATALA S.A.**
Grand Route 302, 1620 Drogenbos
Tel: +32 (0)23 - 34 06 11
www.catala.be
- N1** **COLDENHOVE PAPIER B.V.**
D.W. van Vreeswijklaan 9
6961 LG Eerbeek
Tel: +31 (0)313 - 67 06 70
www.coldenhove.com
- N2** **CROWN VAN GELDER B.V.**
Postbus 30, 1950 AA Velsen-Noord
Tel: +31 (0)251 - 26 22 33
www.cvg.nl
- N23** **DE SCHOOLMEESTER PAPIERMOLEN**
Guispad 3, NL-1551 SX Zaandijk
Tel: +31 (0)75 - 621 44 65
www.zannschemolen.nl
- N18** **D.S. SMITH PAPER – de hoop mill**
Harderwijkerweg 41, 6961 GH Eerbeek
Tel: +31 (0)313 - 67 79 22
www.dssmith-paper.com
- N26** **ENKEV B.V.**
De Toek 2, P.O. Box 3, 1130 AA Volendam
Tel: +31 (0)299 - 36 43 55
www.enkev.com
- N4** **ESKA GRAPHIC BOARD B.V.**
Noorderstraat 394, 9611 AW Sappemeer
Tel.: +31 (0)598 - 31 89 11
www.eskagraphicsboard.com
- N5** **ESKA GRAPHIC BOARD B.V.**
M. Veningastraat 114-116, 9601 KJ Hoogezand
Tel: +31 (0)598 - 31 89 11
www.eskagraphicsboard.com
- N27** **HUHTAMAKI NEDERLAND B.V.**
Zuidelijke Industrieweg 3-7, 8801 JB Franeker,
Tel: +31 (0)517 - 39 93 99
www2.huhtamaki.com
- B6** **IDEM PAPERS S.A.**
Rue d'Asquempont 2, 1460 Virginal-Samme
Tel: +32 (0)67 - 64 42 11
www.idempapers.com
- B5** **ECOPLA BOOMPLATEN**
Vaucampslaan 84, 1654 Huizingen
Tel: +32 (0)23 56 57 89
http://boomplaten.be
- L1** **KRONOSPAN SANEM S.A. (OSB, MDF)**
Zone Industrielle, 4901 Sanem
Tel: +35 (0)25 - 90 31 11
www.kronospan.lu
- N8** **MAYR-MELNHOF EERBEEK B.V.**
Coldenhovenseweg 12, 6961 ED Eerbeek
Tel: +31 (0)313 - 67 51 11
www.mm-karton.com
- N9** **MEERSSEN PAPIER B.V.**
Weert 78, 6231 SB Meerssen
Tel: +31 (0)433 - 66 35 00
www.meerssen-papier.com
- N24** **NEDERLANDS OPENLUCHTMUSEUM**
(The Netherlands Open Air Museum)
Hoeflerlaan 4, 6816 SJ Arnhem
Tel: +31 (0)263 - 57 61 11
www.openluchtmuseum.nl
- B13** **NORBORD N.V. (OSB)**
Genk, Eikelaarstraat 33, 3600 Genk
Tel: +32 (0)89 - 50 03 00
norbord.be
- B8** **VPK PAPER N.V.**
Oude Baan 120, 9200 Dendermonde
Tel: +32 (0)52 - 26 19 11
www.oudegempapier.com
- N28** **PAPER FOAM**
Hermesweg 22, 3771 ND Barneveld
Tel: +31 (0)342 - 40 16 67
www.paperfoam.com
- B12** **PAPER MILL HERISEM**
Fabriekstraat 20, B-1652 Alsemberg, Brussels
Tel: +32 (0)473 38 32 30
www.herisem.be/en
- N25** **PAPIERFABRIEK DE MIDDELSTE MOLEN**
Kanaal Zuid 497 7371 GL Loenen (Gld)
Tel: +31 (0)55 - 505 29 11
www.demiddelstemolen.nl
- N3** **PAPIERFABRIEK DOETINCHEM B.V.**
Terborgseweg 52, 7005 BB Doetinchem
Tel: +31 (0)314 - 34 79 11
www.papierfabriekdoetinchem.nl

Map of the Mills in the Benelux Region

Key to entries

- Paper Mill
- Panel Board Mill
- Moulded Pulp Mill
- Working Museum



CONTACT DETAILS FOR SELECTED EUROPEAN GROUPS / ASSOCIATIONS

Alliance for Beverage Cartons and the Environment (ACE)	www.ace.be
Confederation of European Paper Industries (CEPI)	www.cepi.org
European Carton Makers Association (ECMA)	www.ecma.org
European Federation of Corrugated Board Manufacturers (FEFCO)	www.fefco.org
European Liaison Committee for Pulp & Paper (EUCEPA)	www.eucepa.eu
European Recovered Paper Association (ERPA)	www.erpa.info
European Tissue Symposium (ETS)	http://europeantissue.com
International Association of the Deinking Industry (INGEDE)	www.ingede.org

- N19 PAPIERFABRIEK SCHUT B.V.**
Kabeljauw 2, 6866 NE Heelsum
Tel: +31 (0)317 - 31 91 10
www.schutpapier.nl
- N10 PARENCO B.V.**
Industrieterrein Veerweg 1, 6871 AV Renkum
Tel: +31 (0)317 - 36 19 11
www.parenco.com
- N29 PRESSWOOD INTERNATIONAL B.V. (particle)**
Lokhorstweg 13a-27, 3851 SE Ermelo
Tel: +31 (0)341 - 55 33 79
www.presswood.org
- B9 SAPPI LANAKEN N.V.**
Montaigneweg 2, 3620 Lanaken
Tel: +32 (0)89 - 71 97 19
www.sappi.com
- N15 SAPPI MAASTRICHT B.V.**
Biesenweg 16, 6211 AA Maastricht
Tel: +31 (0)433 82 22 22
www.sappi.com
- B10 SCA HYGIENE PRODUCTS S.A./N.V.**
Rue de la Papeterie 2, 4801 Stembert
Tel: +32 (0)87 - 30 66 11
www.sca.com
- N17 SCA HYGIENE PRODUCTS SUAMEER B.V.**
Solcamstraat 24, 9262 ND Suameer
Tel: +31 (0)511 - 46 66 66
www.sca.com
- N6 SCA NEDERLAND B.V.**
Lange Linden 22, 5433 NC Katwijk (NB)
Tel: +31 (0)485 - 33 93 39
www.sca.com
- N20 SMURFIT KAPPA ROERMOND PAPIER B.V.**
Mijnheerkensweg 18, 6041 TA Roermond
Tel: +31 (0)475 - 38 44 44
www.smurfitkappa.com
- N11 SOLIDUS SOLUTIONS BOARD B.V.**
Hoofdstraat 34, 9693 ZG Bad Nieuweschan
Tel: +31 (0)50 - 30 33 000
<http://solidus-solutions.com>
- N12 SOLIDUS SOLUTIONS BOARD B.V.**
Robertweg 2, 7741 KX Coevorden
Tel: +31 (0)50 - 30 33 000
<http://solidus-solutions.com>
- N13 SOLIDUS SOLUTIONS BOARD B.V.**
Halmstraat 1-3, 9745 BC Groningen-Hoogkerk
Tel: +31 (0)50 - 30 33 000
<http://solidus-solutions.com>
- N14 SOLIDUS SOLUTIONS BOARD B.V.**
W.H. Bosgrastraat 82, 9665 PH Oude-Pekela
Tel: +31 (0)50 - 30 33 000
<http://solidus-solutions.com>
- B7 SOFIDEL BENELUX N.V.**
Adolf Stocletlaan 3, 2570 Duffel
Tel: +32 (0)15 - 30 06 11
www.sofidel.it
- N21 SOLIDPACK B.V.**
Voorsterweg 38, 7371 GC Loenen
Tel: +31 (0)55 - 505 82 22
www.solidpack.eu
- B14 SPANO N.V. (particle)**
Ingelmunstersteenweg 229, 8780 Oostrozebeke
Tel: +32 (0)56 - 66 70 21
www.spanogroup.be
- B15 SPANOLUX SPRL (MDF)**
Zoning Industriel de Burtonville,
Rue de la Forêt 2, 6690 Vielsalm
Tel: +32 (0)80 - 29 27 10
www.spanolux.com
- B11 STORA ENSO LANGERBRUGGE PAPER**
Wondelgemkaai 200, 9000 Gent
Tel: +32 (0)92 - 57 72 11
www.storaenso.com
- N30 TRESPA INTERNATIONAL B.V. (MDF)**
Wetering 20, 6002 SM Weert
Tel: +31 (0)495 - 45 83 58
www.trespa.com
- N7 VAN HOUTUM B.V.**
Boutestraat 125, 6071 JR Swalmen
Tel: +31 (0)88 0183 000
www.vanhoutum.nl

Useful contact details for Benelux data:

BELGIUM

COBELPA

Association of the Belgian Pulp, Paper and Board Producers

306 Avenue Louise, 1050 Brussels, Belgium

T +32 2 646 64 50

F +32 2 646 82 97

E general@cobelpa.be

www.cobelpa.be

Year of Foundation 1940

THE NETHERLANDS

VNP

Royal Netherlands' Paper and Board Association

Kruisweg 761, 2132 NE Hoofddorp, Postbus 731, 2130 AS Hoofddorp

T +31 20 654 30 55

F +31 20 654 30 64

E info@vnp.nl

<http://vnp.nl>

Year of Foundation 1904

Mills in the Middle East Region

BAHRAIN

OLAYAN KIMBERLY-CLARK (BAHRAIN) W.L.L.

Askar, Ti
www.olayan.com

IRAN

ARIAN CELLULOSE SANAT

Alborz, Hy, Ti
www.golrang.com/en

ARIAN SINA INC.

Sari, MDF
www.ariansina.com

ARTA PAN

Ardebil, MDF
www.artagroup.com

CHOUKA IRAN WOOD & PAPER INDUSTRIES INC.

Gilan, Pa
www.chouka.com

GOLBONEH PARS INDUSTRIAL

Tehran, Ti

HARIR KHUZESTAN CO.

Haft Tappeh Industrial City, Ti
www.harirpaperco.com

HAYAT KIMYA

Zencan, Ti

IRAN OSB

Tehran, OSB
www.iranosb.com

IRAN PAPYRUS CO. LTD.

Saveh, Bo
www.iranpapyrus.com

ISOFAM

Tehran, MDF
www.isofam.ir

KPM KAHRIZAK PAPER MILLS

Tehrán, Pa
www.kpmpaper.com

LATIF PAPER CO.

Hashtgerd, Ti
www.latifpaper.ir

PARS HAYAT PRODUCTION CO.

Abhar, Ti
www.parshayat.ir/eng

PARS NEOPAN

Nashtaroud, MDF / PB
<http://parsneopan.com>

PARS PAPER INDUSTRIAL GROUP

Haft Tappeh, P&W
www.icerli.com/parspaper.htm

MAZANDARAN WOOD AND PAPER INDUSTRIES

Sair, Ne / P&W
<http://en.mazpaper.com>

RAHAN TAVAN CO.

Tehran, MDF / PB
www.rahantavan.com

SANAYE CHOUBE KHAZAR CO.

Amol City, MDF
www.choobekhazar.com

SUGAR CANE & BY-PRODUCTS DEVELOPMENT COMMERCIAL CO.

Shoeybieh, MDF
www.iran-sugar.com

ZARRIN BARG PERSIA CO

Saveh, Ti
www.bergezarrin.com

ISRAEL

HADERA PAPER GROUP

Hadera, Fi / Pa / P&W / Se
www.hadera-paper.co.il/en

MILOUBAN (M.C.P.) LTD.

Nahariya, Pu (cotton)
www.milouban.com

SHANIV PAPER INDUSTRIES LTD.

Ofakim, Ti
www.shaniv.com

TUT NEYAR

Zichron-Ya`akov, Hand
<http://tutneyar.wix.com/tutneyar>

JORDAN

AL-KEENA HYGIENIC PAPER MILL CO. LTD.

Amman, Ti
www.alkeena.com

AL-SNOBAR HYGIENIC PAPER MILL CO. LTD.

Amman, Ti
www.nuqulgroup.com

JORDAN PAPER AND CARDBOARD FACTORIES CO. LTD.

Awajan-Zarqa, Bo / Pa
www.jordanpaper.com

SPECIALIZED INDUSTRIES GROUP

Amman, NW
www.spic-nonwovens.com

KUWAIT

AL OULA PAPER MANUFACTURING CO.

Shuaiba, Pa
www.al-oula.us

GULF PAPER MANUFACTURING

Fahaheel, CB / Pa / Ti
www.gulfpaper.com

UNITED PAPER

Shuaiba, Pa / Sa

LEBANON**MIMOSA SANITARY PAPER COMPANY**

Kaa El Rim, Pa / Ti
www.mimosa.com.lb

SICOMO

Kab-Elias, Bo / CB / Pa
www.sicomo.com.lb

SIPCO GANDOUR STE. INDUSTRIELLE DE PAPIER ET DE CARTON ONDULE

Kafarshima, Bo / Re / MP
<http://sipco0.tripod.com>

SOLICAR SOCIÉTÉ LIBANAISE DE CARTON

Sin El Fil, Bo / Pa
www.solicar.com

UNIPAK TISSUE MILL

Halat, Ti
www.unipak-tissue-mill.com

QATAR**AL SUWIDI PAPER FACTORY**

Doha, Pa

SAUDI ARABIA**ARAB PAPER MANUFACTURING (WARAQ)**

Dammam, CB / Pa
www.waraq.com

GULF PAPER INDUSTRIES FACTORY

Riyadh, Kr / Pa / Ti
www.alrajhigroup.com/paper/en

MADA NONWOVENS COMPANY LTD.

Jubail Industrial City, NW
www.alrajhi-holding.com

MIDDLE EAST PAPER CO. (MEPCO)

Jeddah, Pa
www.middleeastpaper.com

OBEIKAN PAPER MILL

Riyadh, Bo
www.obeikan.com.sa

SAUDI PAPER MANUFACTURING CO.

Dammam, Ti
www.saudipaper.com/en

SYRIA**ARAB COMPANY FOR PAPER PRODUCTS J.S.C. (ARAPEPCO)**

Aleppo, Bo / Pa / Re
www.arapeco.com

DINATEX PAPER MANUFACTURING

Damascus, Ti

ORIENTAL PAPER (LANATEX)

Damascus, Ti

PULP AND PAPER MILL

Dayr az Zawr

SAFFOURY PAPER INDUSTRIES CO.

Damascus, Ti
www.saffoury.com

SYROPAPER (AZZOUZ GROUP)

Damascus, Kr / Pa / Sa

THE MEDITERRANEAN MILLS

Jableh, Ti

THE SYRIAN CARTON FACTORY

Charife Bross, Damascus

UNITED ARAB EMIRATES**ABU DHABI NATIONAL PAPER MILL (ADNIB)**

Abu Dhabi, Ti
www.adnpm.ae

AL JAZEERA PAPER MILL L.L.C.

Umm Al Qwain, Pa

AR RAGI PAPER IND.

Abu Dhabi, Hand

CROWN PAPER MILLS

Ajman, Ti
www.crownpapermill.com

EMIRATES PAPER MILL

Jebel Ali Dubai, Ti

GULF PAPER MANUFACTURING FZCO

Jebel Ali, CB / Pa
www.gulfpaper.com/GPMFZCO.htm

PREMIER PAPER MILL L.L.C.

Umm Al Qwain, Pa

QUEENEX HYGIENE PAPER MFG

Abu Dhabi, Ti
www.queenex.com

UMM AL QUWAIN PAPER PRODUCTS

Umm Al Qwain, CB / Pa
www.uaqpaper.ae

UNION PAPER MILL

Dubai, CB / Pa
www.upm.ae

PRODUCT KEY – see p48

Mills in Norway

ARBOR-HATTFJELLDAL A/S

8690 Hattfjelldal, Norway
Tel: +47 75 18 50 00 Fax: +47 75 18 50 01
Website: www.arbor.no
Products: Particleboard

BORREGAARD

Hjalmar Wessels vei 10
1701 Sarpsborg, Norway
Tel: +47 69 11 80 00 Fax: +47 69 11 87 70
Website: www.borregaard.com
Products: Pulp and Speciality Chemicals

FORESTIA AS

Damvegen 31, 2435 Braskereidfoss, Norway
Tel: +47 62 42 82 00
Website: <http://forestia.com>
Products: Particleboard

HELLEFOSS AS

Hellefossveien 113, N-3300 Hokksund, Norway
Website: www.hellefoss.com
Products: Book Papers

HUNTON FIBER AS

Niels Ødegaards gate 8
2815 Gjøvik, Norway
Tel: +47 61 13 47 00 Fax: +47 61 13 47 10
Website: <http://en.hunton.no>
Products: Wood Panel

HUNTONIT AS

Vennesla, West-Agder, Norway
Tel: +47 38 13 71 00 Fax: +47 38 13 71 81
Website: <http://huntonit.com>
Products: Wet-Laid Fibreboard

NORDIC PAPER GREÅKER

P.O. Box 155
NO-1720 Greåker, Norway
Tel: +47 69 13 85 00 Fax: +47 69 14 11 02
Website: www.nordic-paper.com
Products: Greaseproof and Kraft Papers

NORSKE SKOG

Saugbrugs, N-1756 Halden, Norway
Tel.: +47 69 17 40 00 Fax: +47 69 17 43 30
Website: www.norskeskog.com
Products: SC Magazine Papers

NORSKE SKOG

Skogn, Sjøvegen 108, N-7620 Skogn, Norway
Tel.: +47 74 08 70 00 Fax: +47 74 08 71 09
Website: www.norskeskog.com
Products: Newsprint and Improved Newsprint

PETERSON PACKAGING AS RANHEIM

Peder Myhre Veg 19, P. B. 8643, 7452 Trondheim
Tel: +47 815 30 444 Fax: +47 73 57 75 01
Website: www.petersonpackaging.no
Products: CCM and Solid Board Grades

RYGENE-SMITH & THOMMESEN A/S

Sandbergveien 3, N-4821 Rykene, Norway
Tel: +47 37 05 84 00 Fax: +47 37 05 84 03
Website: www.rygene.no
Products: TMP Pulp

VAJDA-PAPIR SCANDINAVIA AS

Nedre Eiker vei 48, N-3045 Drammen
Tel: +47 (32) 80 95 00 Fax: +47 (32) 83 22 12
Website: <http://vajdapapir.hu>
Products: Tissue

Research Organisations/Departments in Norway

NORDIC FOREST RESEARCH (SNS)

c/o Jonas Rönnerberg and Inga Böderker
Southern Swedish Forest Research Centre
Swedish University of Agricultural Science (SLU)
Box 49, 230 53 Alnarp, Sverige
Website: www.nordicforestresearch.org
(The secretariat rotates between the Nordic countries and lies with Sweden for 2014-2017)

NORSK TRETEKNISK INSTITUTT

P.O Box 113 Blindern, N-0314 Oslo, Norway
Tel: +47 988 53 333
Website: www.treteknisk.no
(Norwegian Institute of Wood Technology)

NORWEGIAN UNIVERSITY OF LIFE SCIENCES

Department of Ecology and Natural Resource Management
P.O.Box 5003, NO-1432 Aas, Norway
Tel: +47 64 96 58 00 Fax: +47 64 96 58 01
Website: www.umb.no

NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (NTNU)

NO-7491 Trondheim, Norway
Tel: +47 73 59 40 30 Fax: +47 73 59 40 80
Website: www.ntnu.edu
(Department of Chemical Engineering)
(Centre for Renewable Energy – SFFE)
(Bioenergy Innovation Centre)

PAPER AND FIBRE RESEARCH INSTITUTE (PFI)

Høgskoleringen 6b, NO-7491 Trondheim, Norway
Tel: +47 73 60 50 65 Fax: +47 73 55 09 99
Website: www.pfi.no
(Subsidiary of Innventia AB)

SKOG OG LANDSKAP

P.O.Box 115, 1431 Ås, Norway
Tel: +47 64 948 000 Fax: +47 64 948 001
Website: www.skogoglandskap.no
(Norwegian Forest and Landscape Institute)

Mills in the Eastern European Region

Excluding Russian Federation; Including: Greece, Latvia, Lithuania, Estonia

ALBANIA

EDIPACK

Durrës, Pa
www.edipack.al

ARMENIA

BUMIZ PAPER MILL

Yerevan

TUKHTARD TARA LIMITED

Yerevan, Pa

AZERBAIJAN

AZERKARTON

Baku, Pa

AZERSUN

Sumgayit, Pa / Re / Ti
www.azersun.com

BELARUS

DOBRUSH PAPER MILL GEROI TRUDA JSC

Dobrush, P&W / Pa / Pr
www.bellesbumprom.by

JSC BORISOVDREV

Minsk, MDF
www.borisovdrev.by

JSC GOMELDREV

Gomel, MDF
<http://bellesbumprom.by>

KRASNAYA ZVEZDA PAPER MILL JSC

Chashniki, Pa
www.bellesbumprom.by

MOZYRSKY DOK

Mozyr, Ins
<http://bellesprom.com>

OSJC RETCHIZADREV

Retchiza, PB

PAPER MILL OF GOZNAK

Borisov, Fi / P&W / Pa
www.goznakpaper.by

SCPM "ALBERTIN", OJSC

Slonim, Bo / Pa / Ti
<http://albertin.by>

SPARTAK PAPER MILL JSC

Shklov, Bo / Pa / Ti / Wa
www.bellesbumprom.by

SVETLOGORSKIY PULP AND PAPER INTEGRATED WORKS, OJSC

Svietlogorsk, Pa
www.sckk.by

BOSNIA AND HERZEGOVINA

NATRON-HAYAT D.O.O.

Maglaj, Kr / Pa / Pu (wood) / Re
www.natron-hayat.ba

SHP CELEX A.D.

Banja Luka, Hy / Ti
www.shpgroup.net

BULGARIA

ALFA WOOD

Varna, PB
www.alfawood.gr

BELOVO PAPER MILL S.A.

Belovo, Hy / Ti
www.zeritis.gr/belana

DUROPACK TRAKIA PAPIR AD

Pazardzhik, Pa
www.dssmith.com

FAZERLES AD

Silistra, HB
<http://fazerles.com>

ISKAR JSC PAPER FACTORY

Sofia, Bo / Pa / P&W / Wa

KOSTENETS-HHI S.A.

Kostenets, Pa / Ti
www.hhi-bg.com

KRONOSPAN BULGARIA EOOD

Bourgas, OSB
www.kronospan.bg

MONDI STAMBOLIJSKI EAD

Stamboliyski, Pa
www.mondigroup.com

SVILOCELL EAD

Svishtov, Pu (wood)
www.svilosa.bg

WELDE BULGARIA AD

Troyan, HB
www.welde.bg

CROATIA

BELIŠĆE PAPER MILL

Belišće, Pa / Pu (wood)
www.dssmith.com

HARTMANN PAPIRNA AMBALAZA D.O.O.

Koprivnica, MP
www.hartmann.dk

PAN-PAPIRNA INDUSTRIJA D.O.O.

Donji Andrijevc, Pa
www.pan-paper.hr

PAN-PAPIRNA INDUSTRIJA D.O.O.

Zagreb, Bo / Pa
www.pan-paper.hr

CZECH REPUBLIC

BIOCEL PASKOV A.S.

Paskov, Pu (wood)
www.biocel.cz

CEREPA A.S.

Červená Řečice, Hy / Ti
www.cerepa.cz

EMBA S.R.O.

Paseky nad Jizerou, Bo / Sp
www.emba.cz

HUHTAMAKI CESKA REPUBLIKA A.S.

Okříšky, MP / Pa / Th
www.huhtamaki.cz

JIP-PAPIRNY VETRNI A.S.

Větrní, Pa / P&W / Sp
www.jip.cz

KORONA LOCHOVICE SPOL. S R.O.

Lochovice, Bo
www.korona-lochovice.cz

KRPA HOLDING CZ, A.S.

Hostinné, Fi / Pa / P&W / Sp
www.krpa.cz

KRONOSPAN CR SPOL. SR. O.

Jihlava, OSB
www.kronospan-worldwide.com

MONDI STETI A.S.

Štětí, Pa / Sa
www.mondigroup.com

OP PAPIRNA S.R.O., DELFORTGROUP

Olšany, Th / Sp
www.delfortgroup.com

OTROKOVICKE PAPIRNY A.S.

Otrokovice, Bo
www.papirny.otrokovice.cz

PAPIRNY BELA A.S.

Bělá pod Bezdězem, Bo / Pa
www.papirny-bela.cz

PAPOS V.O.S.

Ostrov nad Ohří, Bo
www.papos.cz

SEVEROCESKA PAPIRNA S.R.O.

Novosedlice, Pa / Sp / Wa
www.sevpap.cz

SMURFIT KAPPA CZECH S.R.O. ZAVOD MORAVA PAPER

Zimrovice, Pa
www.smurfitkappa.com

SPM - SECURITY PAPER MILL, A.S.

Štětí, Se / Sp
www.spm.cz

TRIDAS PULP S.R.O.

Valašské Meziříčí, MP
www.tridas-pulp.cz

ESTONIA

EESTI VANAPABER OÜ

Tartu, MP
www.eestivanapaber.ee

ESTONIAN CELL AS

Kunda, Pu (BCTMP)
www.estoniancell.ee

HORIZON PULP & PAPER

Kehra, Kr / Sa / Sp / Ti
www.horizon.ee

RAEPINA'S PAPER FACTORY INC.

Räpina, Fi / Pa
www.rappin.ee

GEORGIA

INGURSKIY ZELLYULOZNO-BUMAZHNY KOMBINAT

Zugdidi, Fi / Pa / P&W

TBILISI PAPER PLANT

Tbilisi, Fi

GREECE

AKRITAS S.A.

Alexandroupoli, PB
www.akritas.gr

ALFA WOOD

Grevena, MDF
www.alfawood.gr

ALFA WOOD

Larissa, MDF
www.alfawood.gr

ATHENS PAPERMILL S.A.

Athens, Ti
www.boltongroup.net

FTHIOTIS PAPER MILL S.A., PIREUS MILL

Moskhatón, Bo
www.etpack.gr

HERCULES PACKAGING CO S.A.

Giannitsa, MP
www.herpack.com.gr

KOMOTINI PAPER MILL S.A.

Komotini, Pa / Ti
www.komotinipaper.gr

MEL MACEDONIAN PAPER MILLS S.A.

Thessaloniki, Bo
www.melpaper.com

PAKO A. V. KOLIOPOULOS S.A.

Pelasgia, Pa
www.pako.gr

PAKO A. V. KOLIOPOULOS S.A.

Velo, Pa
www.pako.gr

PAPYROS PAPER MILL S.A.

Katerini, Ti
www.sofidel.it

PATRAS PAPER MILLS S.A.

Patras, Ti

TECHNOCART S.A.

Tripolis, Pa

THRACE PAPER MILL S.A.

Xanthi, Ti
www.zeritis.gr

VIOCHARTIKI S.A.

Piraeus, Kr / P&W / Ti
www.viochartiki.gr

VIS CONTAINERS MANUFACTURING CO LTD

Magoula, Bo / Re

HUNGARY**ALBA PULP KFT.**

Szekesfehervar, MP
www.albapulp.hu

DIOSGYOERI PAPIRGYAR RT

Miskolc, Se
www.dipa.hu

DUNACELL KFT.

Dunaújváros, La / Pu (TMP)
www.delfortgroup.com

HAMBURGER HUNGARIA LTD.

Dunaújváros, Pa
www.hamburger-hungaria.com

HARTMANN HUNGARY KFT.

Ács, MP
www.hartmann.dk

KRONOSPAN MOFA

Mohács, MDF
www.kronospan-worldwide.com

PISZKEI PAPER MILL S.A.

Lábatlan, Pa / P&W / Ti
www.zeritis.gr

PULP CONCEPT KFT.

Budapest, MP
http://pulpconcept.com

ST. ANDRE PAPER MILL S.A.

Szentendre, Pa / P&W / Ti
www.zeritis.gr

VAJDA PAPIR KFT

Soroksár, Ti
http://vajdapapir.hu

LATVIA**JELD-WEN**

Aizkraukle, MDF

JUGLAS PAPIRS SIA

Riga, Bo / Pa / P&W
www.juglaspapiers.lv

SIA V.L.T.

Valmiera, MP
www.eggbox.lv

LITHUANIA**GRIGISKES AB**

Grigiškės, HB / Pa / Ti
www.grigiskes.lt

KLAIPEDOS KARTONAS AB

Klaipeda, Pa
www.kartonas.lt

PACK KLAIPEDA

Klaipėda, MP
www.pack-klaipeda.lt

POLAND

APIS SP. Z O.O.

Szczecin, Pa
<http://pwapis.eu/en/>

ARCTIC PAPER S.A.

Kostrzyn Odrzański, Fi / P&W
www.arcticpaper.com

BEMA FABRYKA PLYT FILTRACYJNYCH I TEKSTURY

Wleń, Bo / Hand / Pa / Sp
www.bema.pl

DELITISSUE SP. Z O.O.

Ciechanów, Ti
www.sofidel.it

FABRYKA PAPIERU I TEKSTURY BESKIDY S.A.

Wadowice, Pa / Ti
www.pl.beskidy.mwtb.pl

FABRYKA PAPIERU MALTA DÉCOR S.A.

Nowy Świętów, De / Sp
www.maltadecor.pl

FABRYKA PAPIERU MALTA DÉCOR S.A.

Poznań, De
www.maltadecor.pl

FABRYKA PAPIERU W DĄBROWICY SP. Z O.O.

Jelenia Góra, Pa / Re
www.fabryka-papiaru.pl

FABRYKA TEKSTURY W JALOWCU SP. Z O.O.

Lubań, HB
<http://tekturalita.pl>

FIRMA W. LEWANDOWSKI PHU

Włocławek, Hy / Ti
www.lewandowski.com.pl

GLUCHOLASKIE ZAKŁADY PAPIERNICZE SP. Z O.O.

Głucholazy, Hy / Ti
www.gzp.com.pl

HANKE TISSUE SP. Z O.O.

Kostrzyn Odrzański, Ti
www.hanketissue.pl

HOMANIT GMBH & CO. KG.

Karlino, MDF
www.homanit.org

HOMANIT GMBH & CO. KG.

Krosno Odrzańskie, MDF
www.homanit.org

ICT POLAND SP. Z O.O.

Kostrzyn Odrzański, Hy / Ti
www.ictpoland.pl

INPOL-PAPIER LTD

Bardo, Pa
www.inpolpapier.pl

INTERNATIONAL PAPER SP. Z O.O.

Kwidzyn, Co / Fi / Ne / P&W
www.ipaper.com.pl

KONSTANS SP. Z O.O.

Konstancin Jeziorna, Bo / Fi / Pa / P&W
www.konstans-papier.com.pl

KRONOPOL SP. Z O.O.

Zary, MDF / OSB / PB
www.en.kronopol.pl

KRONOSPAN PL SP. ZO.O.

Strzelce Opolskie, MDF
www.kronospan-worldwide.com

KRONOSPAN POLSPAN LTD

Szczecinek, MDF
www.kronospan-worldwide.com

METSÄ TISSUE S.A.

Krapkowice, Hy / Ti
www.metsatissue.com

MIKOŁOWSKIE ZAKŁADY PAPIERNICZE

Mikołów, Pa / Sp / Ti
www.mikopak.com.pl

MONDI ŚWIECIE S.A.

Świecie n. Wisłą, Pa / Pu (wood) / Sa
www.mondigroup.com

PACKPROFIL SP. Z O.O.

Kolonowskie, Bo / Pa
www.packprofil.pl

PFLEIDERER GRAJEWÓ S.A.

Grajewo, MDF
www.pfleiderer.pl

POLSKA WYTWORNIA PAPIERÓW WARTOŚCIOWYCH S.A.

Warszawa, Se
www.pwppw.pl

PPHU ROLLS SP. Z O.O.

Włocławek, Hy / Ti
www.rollspap.com.pl

PRZEDSIĘBIORSTWO EKOLOGICZNE BCD

Boruszowice, Pa / Re / Sa
www.domator-holding.com.pl

SCHUMACHER PACKAGING

Grudziądz, Pa
www.schumacher-packaging.com

STEICO

Czarna Woda, Ins
www.steico.com

STEICO

Czarnków, Ins
www.steico.com

STORA ENSO POLAND S.A.

Ostrołęka, Pa / Sa
www.storaenso.com

SWEDSPAN POLSKA

Bielsk Podlaski, MDF
www.swedspan.com

TOP S.A.

Tychy, Pa
www.topsa.pl

VELVET CARE SP. Z.O.O.

Klucze, Hy / Ti
http://velvetcare.pl

WARTER S.J.

Tarnówka, Pa / Re
www.fabryka-tektury.pl

WEPA PROFESSIONAL PIECHOWICE S.A.

Piechowice, Hy / Ti
www.wepro.com.pl

ZAKŁADY PRZEMYSŁU FILCOWEGO FILTEX S.A.

Łódź, NW / Sp
www.filtex.com.pl

ZYWIECKIE ZAKŁADY PAPIERNICZE "SOLALI" SPÓŁKA AKCYJNA

Żywiec, Si / Ti
www.solali.com.pl

ROMANIA**KASTAMONU ROMANIA**

Reghin, PB
www.kastamonu.ro

KRONOSPAN

Brasov, MDF
www.kronospan-worldwide.com

KRONOSPAN ROMANIA

Sebes Jud. Alba, MDF
www.kronospan-worldwide.com

METALICPLAS SRL

Dej, Ti
www.metalicplas.ro

SC AMBRO S.A.

Suceava, Pa
www.rossmann.com

SC COMCEH S.A.

Calarasi, Ti
www.sofidel.it

SC ECOPAPER S.A.

Zarnesti, Pa
www.ecopaper.ro

SC EGGER ROMÂNIA SRL

Radauti, PB / OSB
www.egger.com

SC PEHART TEC SA

Petresti, MP / Pa / Ti
www.peharttec.ro

SC PETROCARTE SA

Piatra-Neamt, Bo / Ti
www.petrocart.ro

SC VRANCART SA

Adjud, Pa / Ti
www.vrancart.ro

SERBIA**FABRIKA HARTIJE A.D. BEOGRAD**

Beograd, Pa / P&W
www.kappastar.com

FOPA VLADICIN HAN AD

Vladičin Han, Bo / Pa

LEPENKA A.D.

Novi Kneževac, Bo
www.lepenka.co.rs

PAPER MILL BOZO TOMIC

Čačak, Pa / P&W / Ti / Pu (wood)

UMKA FABRIKA KARTONA

Umka, Bo
www.kappastar.com

SLOVAK REPUBLIC**BUKOCEL A.S. PULPMILL**

Hencovce, Pu (wood)
www.bukoza.sk

METSÄ TISSUE A.S.

Žilina, Ti
www.metsatissue.com

MONDI SCP A.S.

Ružomberok, Pa / P&W / Pu (wood)
www.mondigroup.com

SCA HYGIENE PRODUCTS SPOL. S R.O.

Gemerská Hôrka, Hy / NW / Pa
www.sca.com

SHP HARMANEC A.S.

Harmanec, Ti
www.shpgroup.eu

SHP SLAVOSOVCE A.S.

Slavošovce, Ti
www.shpgroup.eu

SIMPO ŠIK D.O.O.

Kuršumlja, HB
<http://simposik.rs>

SWEDSPAN INTERNATIONAL

Malacky, PB
www.swedspan.com

SLOVENIA

FANTONI LKI LESONIT

Lirska Bistrica, MDF
www.fantoni.it

GORICANE TOVARNA PAPIRJA MEDVODE D.D.

Medvode, Fi / P&W
www.goricane.si

KOLICEVO KARTON D.O.O.

Domžale, Bo
www.mm-karton.com

**LEPENKA, PODJETJE ZA PROIZVODNJO IN
PREDELAVO PAPIRJA TRZIC D.D.**

Tržič, Bo / Pa / Ti
www.lepenka.si

PALOMA-SLADKOGORSKA

Sladki Vrh, Ti
www.paloma.si

PALOMA TOVARNA LEPENKE PREVALJE D.D.

Prevalje, Bo / Pa
www.paloma-prevalje.si

PAPIRNICA VEVCE D.O.O.

Ljubljana, Pa / P&W
www.brigl-bergmeister.com

RADECE PAPIR D.D.

Radeče, Fi / Se
www.radecepapir.si

VIPAP VIDEM KRŠKO D.D.

Krško, Ne / P&W
www.vipap.si

TURKEY

AKTUL KAGIT URETİM PAZARLAMA A.S.

Sakarya, Ti
www.aktulkagit.com.tr

DUNAPACK DENTA

Denizli, MP
www.dentas.com.tr

EKA KAGIT

Kocaeli, Ti
www.ekakagit.com

ESSEL CELLULOSE AND PAPER

Zonguldak, Ti
www.essel.com.tr

HALKALI KAĞIT KARTON SAN. VE TIC. A.Ş.

Istanbul, Pa
www.halkalikagit.com.tr

HAYAT KIMYA

İzmit, Hy / Ti
www.hayat.com.tr

IPEK KAGIT SANAYİ VE TİCARET A.S.

Yalova, Hy / Ti
www.ipekkagit.com.tr

IPEK KAGIT SANAYİ VE TİCARET A.S.

Manisa, Hy / Ti
www.ipekkagit.com.tr

**KAHRAMANMARAS KAGIT SANAJI VE
TİCARET A.S.**

Kahramanmaraş, Bo / CB / Pa
www.kmkipaper.com

KARTONSAN, KARTON SANAYİ VE TİCARET A.S.

İzmit (Kocaeli), Bo
www.kartonsan.com

**KOMBASSAN KAĞIT MATBAA GIDA VE
TEKSTİL SAN.TİC.A.Ş.**

Konya, Co / Fi / P&W
www.kombassan.com.tr

KOMKARTON CARDBOARD INDUSTRIES INC.

Muratlı, Bo
www.kombassan.com.tr

LILA KAGIT SAN. VE TIC. A.S.

Corlu, Ti
www.lilakagit.com

LEVENT KAGIT SAN. VE TIC. A.S.

İzmir, Ti
www.leventkagit.co.tr

MARMARA KAGIT VE AMBALAJ SAN. TIC. A.S.

Vezirhan, pa
www.marmarakagit.com

**METEKSAN MATBAACILIK VE TEKNİK SANAYİ
TİCARET A.S.**

Ankara, Fi / P&W / Sp
www.meteksanmatbaa.com.tr

MODERN KARTON A.S.

Corlu, Pa
www.modernkarton.com.tr

MONDI TIRE PAPER MILL

Tire, Pa
www.mondigroup.com

MOPAK GROUP

Dalaman, Bo / Sp / Pu (wood) / Co / 'Pa
www.mopak.com.tr

MOPAK GROUP

Kastamonu, Sp / Th
www.mopak.com.tr

MOPAK GROUP

Kemalpasa, Pa / P&W
www.mopak.com.tr

**OYKA KAGIT AMBALAJ SA. VE TIC. A.S.
CAYCUMA**

Çaycuma, Pa / Sa
www.oyka.com.tr

PARTEKS KAGIT

Kayseri, Ti
www.partekspaper.com

PEHLIVANOĞLU KAĞIT

Çerkezköy, Pa
www.pehlivanoglukagit.com.tr

PM PACKAGING LTD

Istanbul, MP

SOFIDEL KAĞIT

Denizli, Ti
www.sofidel.it

**SUEMER HOLDING A.S., GENEL
MUEDUERLUEGUE**

Ankara, Bo / Sp

**SUEMER HOLDING A.S., AKDENİZ İSLETME
MUEDUERLUEGUE**

Silifke, Pa / Sa

TEPE BETOPAN A.Ş.

Ankara, PB
www.betopan.com.tr

TEZOL TUTUN VE KAGIT A.S.

Izmir, Ti
www.tezol.co.tr

TOPRAK KAGIT SANAYİ A.S.

Bilecik, Ti
www.toprak.com.tr

TOPRAK KAGIT SANAYİ A.S.

Istanbul, Co / Fi / P&W
www.toprak.com.tr

**TURKOGLU KAGIT KARTON SANAYİİ VE
TİCARET A.S.**

Istanbul, Bo
www.turkoglu.com.tr

VIKING KAGIT VE SELUELOZ A.S.

Izmir, Ti
www.viking.com.tr

UKRAINE

**BANKNOTE PAPER MILL OF THE NATIONAL
BANK OF UKRAINE**

Malyn, Se

DNIPROPETROVSK PAPER MILL

Dnipropetrovsk, Fi / Pa / P&W
www.dbf.com.ua

DONETSK-VTORMA CO LTD

Donetsk, Pa / Ti
vtorma.com

FESKO

Lutsk, Ti
http://fesko.ruta.ua

IZMAIL PULP AND BOARD MILL JSC

Izmail, Pa
www.osnova.ua

KOHAVINKA PAPER MILL JSC

Hnizdychiv, Pa / Ti
http://kpf-paper.all.biz/en

KOROSTEN MDF

Korosten, MDF
www.kmm.ua

KOROSTYSHEV PAPER MILL

Korostyshev, Ne / P&W / Sp

KORYUKIVKA PAPER

Koryukivka, Wa

KRONEX-UKRAINE JSC

Zmiiv, Ne / Pa / P&W

KYIV CARDBOARD AND PAPER MILL JSC

Obukhiv, Pa / Ti
www-us.papir.kiev.ua

LLC KRONO-UKRAINE

Broshniv-Osada, PB
www.kronoukraine.com

LLC KRONO-UKRAINE

Kamianka-Buska Town, PB
www.kronoukraine.com

LLC KRONO-UKRAINE

Solonytsivka, PB
www.kronoukraine.com

LOGIKA PROFIT

Sumy, MP

LUTSK PAPERBOARD AND ASPHALT BOARD MILL

Lutsk, Bo / Pa / Re / Sp
www.lkrk.com.ua

LVIVKARTONPLAST JSC

Lviv, Bo / Hy / Pa / Sp / Ti

MALYN PAPER MILL JSC

Malyn, Sp
www.weidmann-electrical.com

PONINKA PAPERBOARD AND PAPER MILL

Poninka, P&W / Fi / Pa

ROHAN PAPERBOARD MILL JSC

Rohan, Bo / Pa / Sp
www.rkf.com.ua

RUBIZNE PAPERBOARD AND BOARD BOX MILL JSC

Rubizne, Pa
www.rktk.com.ua

THE CASTLE - PECHERSK LAVRA PAPER MILL

Kyiv, Hand
www.radozamok.com.ua

TPG ALBATROS LLC

Dnipropetrovsk, Hy / Ti

TPM TSYURUPINSK PAPER-MILL LTD

Tsyurupinsk, Sp
www.tpm.com.ua

UNIPLYT

Ivano-Frankivsk, HB
http://uniplyt.com.ua

UNIPLYT UA LLC - FANPLYT

Kiev, MDF

ZHYDACHIV PULP AND PAPER MILL JSC

Zhydachiv, Bo / MP / Ne / Pa / Sp
www.osnova.ua

ZHYTOMYR PAPER MILL JV

Zhytomyr, MP / Pa
http://en.cardboard.com.ua

PRODUCT KEY

PANEL	HB (Hardboard)	MDF (Medium Density Fibreboard)
	Ins (Insulation)	
	PB (Particle Board)	OSB (Oriented Strand Board)
PAPER	Bo (Board)	Pa (Packaging)
	CB (Core Board)	P&W (Printing & writings)
	Co (Coated)	Re (Recycled – various)
	De (Décor)	Sa (Sack)
	Fi (Fine)	Se (Security)
	Hand (Handmade)	Sp (Speciality)
	Kr (Kraft)	Th (Thin Papers)
	La (Label)	Ti (Tissue)
	MG (Machine Glazed)	Wa (Wallpaper)
	Ne (Newsprint)	
PULP	Pu (fibre)	
OTHER	Hy (Hygiene)	NW (Nonwoven)
	MP (Moulded Pulp)	

CONTACT DETAILS FOR RELEVANT TRADE ASSOCIATIONS

CZECH REPUBLIC	Association of the Czech Pulp and Paper Industry (ACPP)	www.acpp.cz
ESTONIA	Estonian Forest and Wood Industries Association	www.empl.ee
GREECE	Hellenic Timber Association	http://htca.gr
HUNGARY	Federation of the Hungarian Printers and Paper Makers (FEDPRINT)	www.fedprint.hu
LITHUANIA	Lithuanian Timber Association	www.lietuvosmediena.lt
POLAND	Association of Polish Papermakers (SPP)	www.spp.pl
	Wood Based Panels Producers Association in Poland (SPPD)	http://sppd.pl/en
ROMANIA	The Patronizing Organization for Romanian Pulp and Paper Industry (ROMPAP)	
SLOVAK REPUBLIC	Union of Pulp and Paper Industry of the Slovak Republic (ZCPP SR)	www.paper.sk
SLOVENIA	Chamber of Commerce and Industry of Slovenia Paper and Paper Converting Association	www.gzs.si
TURKEY	Turkish Pulp & Paper Industry Foundation	www.sksv.org
UKRAINE	Association of Ukrainian Pulp and Paper Industry (UKRPAPIR)	www.ukrpapir.org
GENERAL	Euro Forest Portal	http://forestportal.efi.int



PITA Membership Benefits

The **Paper Industry Technical Association (PITA)** is an independent organisation which operates for the general benefit of its members – both individual and corporate – in promoting and communicating the technological aspects of paper manufacture. Formed in 1960, it has served the Industry – both manufacturers and allied trades – for over half a century.

Individual Membership Benefits include:

- The following publications, which are distributed free to all **PITA** members:
 - » **Paper Technology** - a large and prestigious international technical journal (3 issues pa);
 - » **PITA Annual Review** - an invaluable source of contact information and data;
 - » **PITA Membership Directory** - a unique source of contact details (exclusive to members);
 - » **PAPERmaking!** - a new e-magazine with business/technical focus (2 issues pa);
 - » **PITA Affairs** e-newsletter - containing time-sensitive information (at least 10 issues pa).
- Preferential access to **PITA** Technical Meetings and events.
- Advantageous arrangements for all Training Seminars organised by **PITA**.

Corporate Membership Benefits include:

- Promotional opportunities via:
 - » Feature articles in **Paper Technology**, **Papermaking!** and the **PITA Annual Review**;
 - » Targeted exposure (with optional Logo upgrade) in the **PITA Annual Review**;
 - » Promotion and links from the **PITA** Website, via emails and in our directories;
 - » First refusal on any advertising opportunities that may arise at **PITA** meetings;
- Preferential discounted rates:
 - » On Exhibition Spaces at **PITA** Events;
 - » For Advertising in **PITA** Publications;
 - » For all employees attending **PITA** Workshops, Seminars & Training Courses;
 - » Complimentary Student Membership for any trainees.*
- Access to the '**PITA Links**' recruitment service.
- The option of booking meeting rooms in the **PITA Office**.
- Opportunities to identify and work with industry partners on **PITA** led projects.

PITA Corporate Members receive regular copies of **Paper Technology**, the **PITA Annual Review**, **PAPERmaking!** and **PITA Affairs** e-newsletter; these reach over 1,000 members and 2,000 contacts within the UK, European and Global Paper & Forest Products Sector.

* Students must be under the age of 30 and participating in a recognised training programme relevant to the Paper and / or Fibrous Forest Products Sectors.

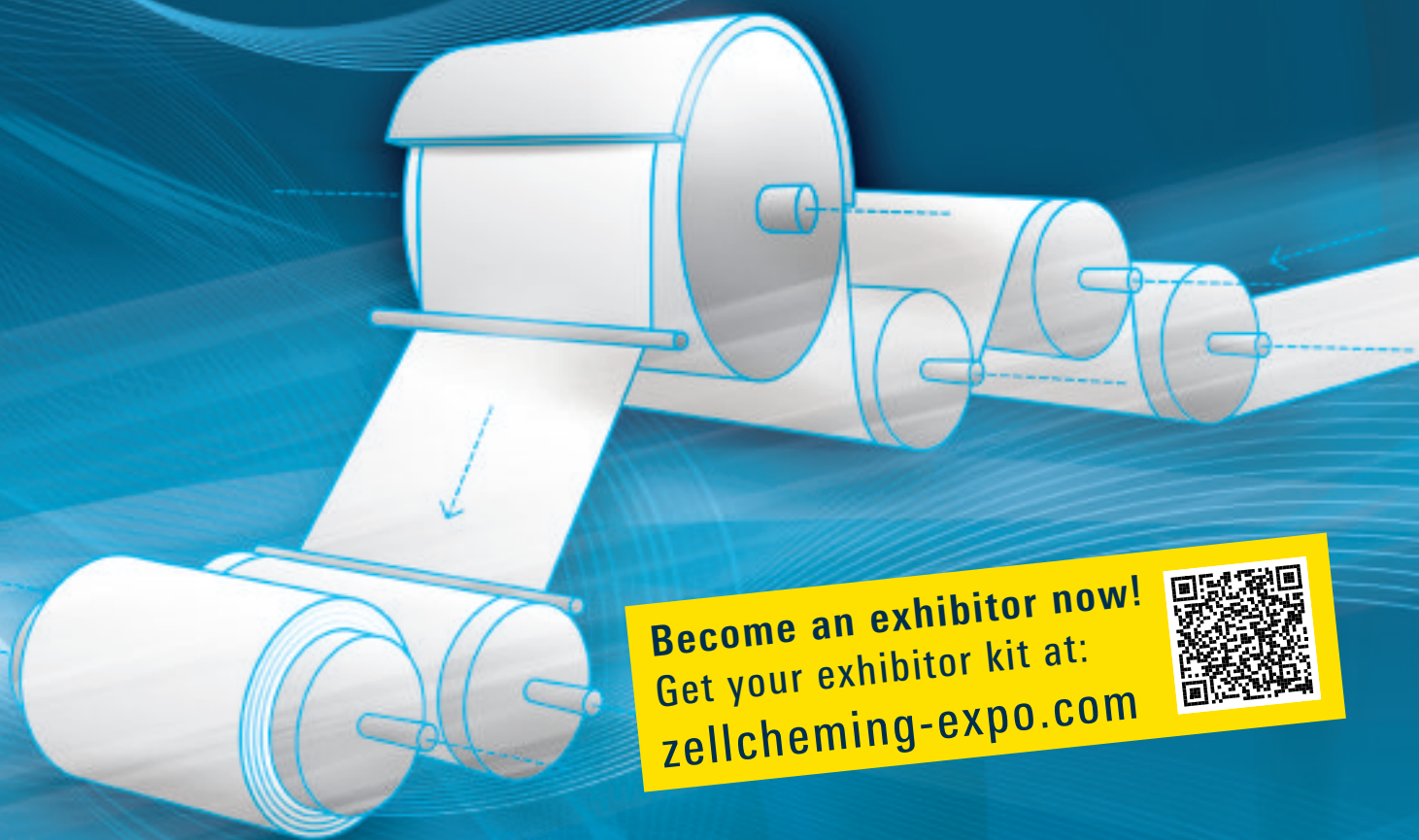
ZELLCHEMING-Expo



Fibers in Process

Exhibition and Congress with 111th Annual General Meeting
Frankfurt a.M., Germany, 28 – 30 June 2016

The platform for the European pulp,
paper and supplier industry



Become an exhibitor now!
Get your exhibitor kit at:
zellcheming-expo.com



The exhibition topics at a glance:

- Raw materials, additives, preparation
- Machine clothing, equipment
- Machines, mounting
- Automation, process optimization
- Cleaner production
- Energy management, energy efficiency
- Industrial service
- Maintenance
- Industrial IT, communication
- Measurement & control technology
- Paper production
- Converting and coating
- Logistics, intralogistics
- Engineering and design, trade agencies

Patron:
ZELLCHEMING e.V.

mesago
Messe Frankfurt Group