



## Attitudes to fibre based materials surveyed

Page 4

With the industry for the industry | Working for safe food packaging | Research on the forest-based sector, from a societal perspective | Profile: Daniel Söderberg | New leap in paper technology with multi million grant | STFI-Packforsk in award winning collaboration with Young Researchers | Improved printing for newspaper supplements



Members of SUW, a Trade and Industry Group, meeting at STFI-Packforsk. During its 40 years, SUW has generated a lot of knowledge to the benefit of its members.

# With the industry for the industry

A rewarding, appreciated form of research is taking place in the Trade and Industry Groups (NLG) at STFI-Packforsk. A number of companies, with common interests, come together to solve trade-specific issues and problems, by means of an all-embracing plan. These groups are linked together by STFI-Packforsk researchers who contribute with their own special know-how and knowledge.

“As an important part, work in the groups comprises the following of general developments in particular areas. The NLGs themselves create their own research programmes, based on the participants’ own experiences and the Foresight Programme, e.g. Packa Futura,” says Anders Sörås, Senior Vice President at STFI-Packforsk and President of the Private Owners Association Packforsk.

“These programmes are clearly set out and the results are close to the companies own applications, which makes the programmes much more interesting. This work has also been of enormous significance, when it comes to the interested parties communicating with authorities and the general public.”

“Following Sweden’s entry into the EU, the work of the NLGs has attracted much attention and been appreciated by an altogether larger body of companies outside Sweden, not least with the purpose of producing a factual basis for the increasing lobby work in Brussels.”

“Certain of the programmes have attracted attention outside the EU. We are now expecting an influx of fresh interest from Asia and the USA.”

The NLG programmes have their origin in former Packforsk and they are

financed, to a great extent, through the Private Owners Association Packforsk. General membership in the Association includes entitlement to participate in the general and ground breaking research programmes and the work with Packaging Foresight, among others. Through this general membership, interested parties are given the opportunity of partial participation in the NLGs.

There is a considerable amount of experience within the Company to operate NLGs, which stand as models for other areas. Subsequent groups have now appeared in the printing and materials related areas. ●

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**En givande** och uppskattad form av forskning sker i så kallade näringslivsgrupper inom STFI-Packforsk. Ett antal företag med gemensamma intressen går samman för att lösa branschspecifika frågor och problem på ett övergripande plan.

Arbetet inom grupperna omfattar, som en viktig del, att följa den generella utvecklingen inom respektive område, och grupperna formar själva sina forskningsprogram. Resultaten ligger när företagens egna applikationer vilket gör dem extra åtråvärda. Arbetet har också haft stor betydelse bl.a. för intressenternas kommunikation med myndigheter och allmänhet.

NLGs arbete uppmärksammas och uppskattas av allt fler företag utanför Sverige, inte minst med syfte att ta fram faktaunderlag för det växande lobbyarbetet i Europa.

## Trade and Industry Groups at STFI-Packforsk

[www.stfi-packforsk.se/tradeandindustrygroups](http://www.stfi-packforsk.se/tradeandindustrygroups)

### **USER GROUP FOR NEWSPRINT WITH FOCUS ON IMPROVING NEWSPAPER PRINTING**

Focuses on understanding how inks and papers can be optimally utilised for high quality newspaper printing.

**CONTACT:** erik.blohm@stfi.se

### **CHEMSOURCE®**

A chemical database providing information on hazardous chemicals.

**CONTACT:** fernando.alvarado@stfi.se

### **ESG, EUROPEAN PAPER SACK RESEARCH GROUP**

Provides knowledge to support lobbying activities in Eurosac and CEPI EuroKraft, as well as models and tools to support developments in the paper sack system.

**CONTACT:** kennert.johansson@stfi.se

### **IGP, INTERNATIONAL GROUP FOR PAPER DISTRIBUTION QUALITY**

Aims at reducing damage and the risk of damage in all parts of the distribution chain.

**CONTACT:** stefan.engstrom@stfi.se

### **TRADE AND INDUSTRY GROUP MILJÖPACK**

Assists companies in complying with the EU Packaging and Packaging Waste Directive.

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### **NORMPACK – SWEDISH CODES FOR FOOD PACKAGING MATERIALS**

Provides product certificates and routine systems to assist members in complying with current Swedish and EU laws and regulations, as well as legislative bodies.

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### **SKAF SWEDISH PAPERBOARD RESEARCH GROUP**

Carries out research, develops and imparts information about cardboard packaging, with regard to quality, areas of utilisation and recovery.

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### **NSP – NORDIC STANDARDIZATION PROGRAMME**

Carries out standardisation work for the pulp and paper industry.

**CONTACT:** eva.jansson@stfi.se

### **SUW – INTERNATIONAL DEVELOPMENT GROUP FOR CORRUGATED BOARD**

Aims at developing high quality corrugated board, cost-efficient process techniques and the functional utilisation of raw materials for corrugated board.

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### **TECHNICAL COMMITTEE FOR PRODUCT PROTECTION**

A network and motivator for technical and more general issues concerning packaging design and product environment.

**CONTACT:** thomas.trost@stfi.se

### **THE CARRIER BAG GROUP**

Supports the industry and its consumers by establishing test methods for plastic and paper bags.

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# Working for safe food packaging

Consumers must be able to rely on the fact that food packaging is safe. This is the aim of Normpack, which, in turn, has great significance when it comes to public trust in the packaging industry.

Is that piece of cheese packaged in plastic? In that case, slice off the top layer and throw it away!

Recommendations such as this could be heard in the 1970s, when the fear of hazardous compounds in packaging materials was at its greatest. Being poisoned by food packaging was no. 3 on the list of what Swedes were generally most concerned about. (Nuclear power topped the chart and a dread of various additives in foodstuffs was also high on the list.)

“It’s against this historical background that one should look at the arrival of Normpack,” comments Bo Lindskog, a Group Manager in the packaging materials area at STFI-Packforsk. “Knowledge about foodstuff packaging was so defective, while the image of the foodstuff packaging industry was dreadful. In order to instil confidence in the industry, there was a need for an independent organization, which, by means of standards and certificates, would be able to provide consumers with a guarantee that companies’ food packaging met the high demands placed on safety.”

The result was Normpack, founded in 1981 with Packforsk, as it was then, in the centre. Companies such as COOP, ICA, PLM and Tetra Pak were among the first members. With 170 or so members, Normpak is, today, one of the 11 STFI-



Packforsk trade and industry groups. Its member companies come from the entire value chain for packaging, viz. traders, the foodstuff industry, packaging makers, materials producers, machine manufacturers, etc.

Its operations have grown but, in essence, they remain the same. Their basis is “Normpack Standards”, which describe the demands to be met by materials and articles that come in contact with foodstuffs. Through a combination of product certification and a system for checking by the member companies, there is an assurance that the products live up to the relevant Swedish and the European rules and regulations. The Normpack member companies pledge themselves to only market products that comply with the demands of the Normpack Standards.


“It’s quite unique in Europe, namely the fact that it’s an independent organization and not an authority that plays such a central role. The Swedish National Food Administration considers the Normpack system to be an efficient, effective and reliable means of dealing with packaging matters and issues. For the packaging industry, this means more effective management of these matters than that which usually occurs in most other countries,” says Bo.

Due to the merger in 2004, Normpack had STFI-Packforsk as its new base, which meant a greater capacity for testing, analysing and researching. New member companies have come flocking. All this indicates that Normpack will be play-

ing an even more important role in the future.

“The trend is that our society is becoming more and more chemically-based, while the rules and regulations are becoming ever more complex. At the same time, there is an increasing need for the man in the street to know whether the products he buys are safe, from the aspect of health. This is why we are convinced that the Normpack operations will become increasingly important,” adds Bo in conclusion. ●

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 **Konsumenterna** ska kunna lita på att livsmedelsförpackningarna är säkra. Det är målet för näringslivsgruppen Normpack, som därmed har stor betydelse för allmänhetens förtroende för förpackningsbranschen.

Trenden är att vårt samhälle blir allt mer kemikaliebaserat och regelverken mer och mer komplicerade. Samtidigt finns det ett ökande behov hos vanliga människor att veta att de produkter de köper i butikerna är säkra från hälsosynpunkt.

Genom kombinationen av produktcertifikat och system för medlemsföretagens egenkontroll säkerställs att produkterna lever upp till såväl de svenska som de europeiska regelverken.

I Europa är det unikt att en fristående organisation, och inte en myndighet, spelar en så central roll.

## FACTS

Normpack operations include:

- Developing routine systems for checking and monitoring by member companies themselves.
- Checking whether certified products conform to Normpack standards.
- Training, informing and advising on legislation and other rules and regulations.
- Participating in international standardisation work.
- Monitoring relevant developments, legislation, research, etc.
- Being prepared for incidents of danger or hazards.

# Attitudes to fibre based materials surveyed



A comprehensive case-study has recently been completed in the Integrated EU project Eforwood. One of the sub-projects, titled Work Package, analysed the dominating attitudes, driving factors, trends and expectations surrounding certain products on the European market. The purpose of this was to build up a knowledge base for altering how the fibre-based industry perceives the market and to assist companies in being more interactive and sustainable.

This project that started at the beginning of 2006 has involved a comprehensive collecting of data about attitudes and perceptions, partly from customers in the industry and partly from consumers. The fibre-based products selected as the basis were furniture, where Aidima from Spain was involved, pellets that Finnish Jaako Pöyry studied, together with packaging and printed products, in which Dorotea Slimani and Cathrine Löfgren from STFI-Packforsk carried out the job.

What the different investigations had in common was the identification of the relevant customer segments and the appropriate key people to be interviewed and, subsequently, the formulation of questions about needs, attitudes, knowledge, demands etc. that would provide responses to what the project wanted to know.

The customer categories that are the largest B2B purchasers are hospitals, hotels, schools, publishers and wholesalers. Various customers were chosen from among these and the selected key people were interviewed. Attitudes and demands differed a great deal within the relevant groups. As an example, the demands on furniture and packaged products made by a county council hospital are completely different to those made by a private plastic surgery hospital.

When it came to packaging, Dorotea Slimani and Cathrine Löfgren chose packaging for fruit juices, since purchasers have different requirements, while, furthermore, such packaging comes in several different materials.

The geographic areas chosen for the study were northern Europe (Sweden and Finland), central Europe (Germany) and southern Europe (Spain).

Consumers' attitudes were obtained through focus groups, where STFI-Packforsk has sound expertise through its Perception Laboratory.

One of the most significant attitudes naturally concerns why a person buys or refrains from buying fibre-based products.

Cathrine Löfgren comments, "There was an incredible amount of data gathering that we had to condense and draw conclusions from."

Dorotea Slimani, who was responsible for this Work Package, comments that awareness and knowledge of fibre-based products and their environmental aspects varied among customers and consumers. An important task was to identify such gaps in knowledge, so-called Hot Spots, and to ascertain where there could be problems.

One of the conclusions she came to was that consumers do not purchase something from an environmental perspective in the first place. It is something they take for granted. Very few people buy a product simply because the packaging is environmentally compatible; it is the contents that carry most of the weight. On the other hand, however, the industry still considers environmental compatibility as a very good selling point. ●

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**En omfattande** fallstudie inom Eforwood har nyligen slutförts. Dominerande attityder, drivande faktorer, trender och förväntningar för vissa slutprodukter på den europeiska marknaden har analyserats. Avsikten är att bygga upp kunskap för att förbättra den fiberbaserade industrins syn på marknaden och hjälpa företagen att bli mer interaktiva och sustainable.

De fiberbaserade produkter man valt att utgå ifrån är möbler, pellets, förpackningar och tryckta produkter.

De kundkategorier som är de största B2B-köparna är sjukhus, hotell, skolor, förlag och grossister, och inom dessa har olika kunder valts ut och nyckelpersoner har intervjuats.

Konsumenternas attityder har man fått fram genom fokusgrupper där STFI-Packforsk har gedigen kompetens inom sitt perceptionslabb.



# Research on the forest-based sector, from a societal perspective

“The forest-based sector has to get a stronger customer perspective and become more proactive in relation to the political sphere,” comments Lennart Eriksson at STFI-Packforsk, who has been heavily committed to the role of research in the development of the sector.

“There’s somewhat of a cultural revolution going on. From its origin, the sector has been looking a great deal at its business from a raw materials perspective. Today, the consumers control things directly and indirectly. For the industry to survive, this means that it has to understand consumers’ needs, perceptions and actions. Added to this is the fact that political influences have dramatically increased. Before, there was mostly concern for emissions to the environment. Now, almost every aspect of the sector’s operations is affected by political decisions.”

It is becoming all the more pressing to put effort into sustainable development and it requires research to develop methods for setting standards on it. This concept not only includes the environmental but also the economic and social aspects. The forest-based sector has an enormous opportunity of being at the forefront here, but the subject is complex. It involves, for example, avoiding the risk of measures, taken in a certain area, not having unwanted effects on other parts of the system.

The National Research Agenda (NRA) of the Swedish forest-based sector, that

is linked to the European equivalent (SRA), sets out and justifies the need for research in the form of 14 National Focus Areas (NS). One of these areas, NS-14, deals with the sector from a societal perspective. In this, the following areas for research have been singled out as important:

- Evaluation methods, future studies and consequence analyses.
- Society’s opinions and the forestry sector.

Among the most urgent research activities is the development of indicators, criteria and methods for assessing sustainability. Work is already in progress in the EU Project, Eforwood, which is being managed in Sweden by Kaj Rosén of Skogforsk.

“These are not easy tasks. However, if it’s not possible to assess sustainability from a science-based methodology, then it’s difficult to declare whether things have become better or worse. This is certainly an area where research efforts are required,” says Lennart Eriksson.

Furthermore, research is needed for evaluating the consequences of political decisions and to understand how best to interact with political processes before it is too late. There is an abundance of areas that concern the forest-based sector and, at the moment, the area of bio-energy is of enormous immediate interest.

As a further need, it is necessary to gain an understanding into what creates society’s perceptions and opinions about the forest-based sector as a whole, with its forests and products, and to even be able to identify the vague signs. It is also necessary to develop a scientific basis for discussions with all the parties involved.

“One difficulty is finding financiers that are willing, in the main, to invest in socio-economic research, which is what this deals with. It’s also a question of finding the right, interested researchers. In general, our sector has been somewhat completely dominated by research in the technological and natural science fields,” Lennart points out.

To introduce more research into the field, the NRA Organization carried out a workshop in June with support from the Gunnar Sundblad Research Foundation. Further discussions will take place in the second half of 2007, when it is expected that researchers and representatives from trade and industry will take part. ●

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 **Skogsindustrin måste** få ett ännu starkare kundperspektiv och bli mer proaktiv gentemot den politiska sfären.

Skogsnäringsens nationella forskningsagenda (NRA) beskriver och motiverar forskningsbehov i form av 14 nationella satsningsområden (NS). Ett av dessa, NS-14, handlar om skogsnäringsen ur ett samhällsperspektiv. Följande forskningsområden utpekades som viktiga:

- Värderingsmetoder, framtidsstudier och konsekvensanalyser
- Samhällets uppfattningar om skogsnäringsen

Bland de mest angelägna forskningsaktiviteterna är utveckling av indikatorer, kriterier och metoder för hållbarhetsbedömning. I begreppet ingår inte bara ekonomiska aspekter utan även miljö och sociala frågor.



Daniel Söderberg

Coping with a task such as the setting up of CAPPI (presented on this page) requires driving forces that can urge on developments. Daniel Söderberg is one of the driving forces and instigators behind CAPPI. He is also the originator of certain current innovations in paper production.

"I enjoy coming up with ideas and doing something that has meaning somewhere, not doing research just for the sake of it. SOFA (the STFI On-line Forming Analyser) has been and is being used in paper mills today, for example. The concept has recently been picked up by Voith, which is now marketing similar equipment.

Daniel is responsible for the research cluster, TESS (The Engineered Sheet Structure). In this cluster, innovative thinking is explicit. In 2004, together with his colleague, Marco Lucisano, Daniel won the ATIP (Association Technique de l'Industrie Papetière) innovation award, The Golden Trophy, for a new method for producing multi layer paper. This new technique is being further developed in the EU Project, ECOTARGET.

"This is often regarded as a mature industry. However it's definitely not yet fully grown while there still exists the potential for development," says Daniel, meaning that there are many reasons for producing things, while being much more economical with resources.

Daniel began as a postgraduate student at the Royal Institute of Technology Stockholm (KTH) in 1994. Five years later, he defended his doctor's thesis at the Faxén Laboratory at KTH. He subsequently started at STFI as a researcher and, in 2002, became a Senior Research Manager there. Since 2004, he has been a Major Project Manager in Paper Production. Apart from his position at STFI-Packforsk, Daniel is also an Associate Professor at KTH Mechanics. However, with 4 daughters between the ages of 3 to 15, he does not have much time left for other things. ●

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# New leap in paper techn with multi million grant

Even today, the combination of STFI-Packforsk and the Royal Institute of Technology Stockholm (KTH) is a renowned, successful centre for research in paper technology. With a total grant of SEK 35m from the Knut & Alice Wallenberg Foundation, a Centre for Advanced Paper Production Innovation (CAPPI) was established. This makes it possible for research to be directed at completely new products.

"Innovation is a keyword for CAPPI," says Daniel Söderberg, who is a Major Project Manager at STFI-Packforsk and an Associate Professor at KTH. By this he means that all research must have a distinct product link, leading all the way to the end user.

"What we're doing now is building up an innovation process, in which fundamental research results in demonstrators. These are going to serve as technology platforms for new industrial applications." He continues, "EuroFEX, the STFI-Packforsk pilot paper machine, is one such platform."

From the grant, SEK 25m is going to developments at EuroFEX. The rebuild-

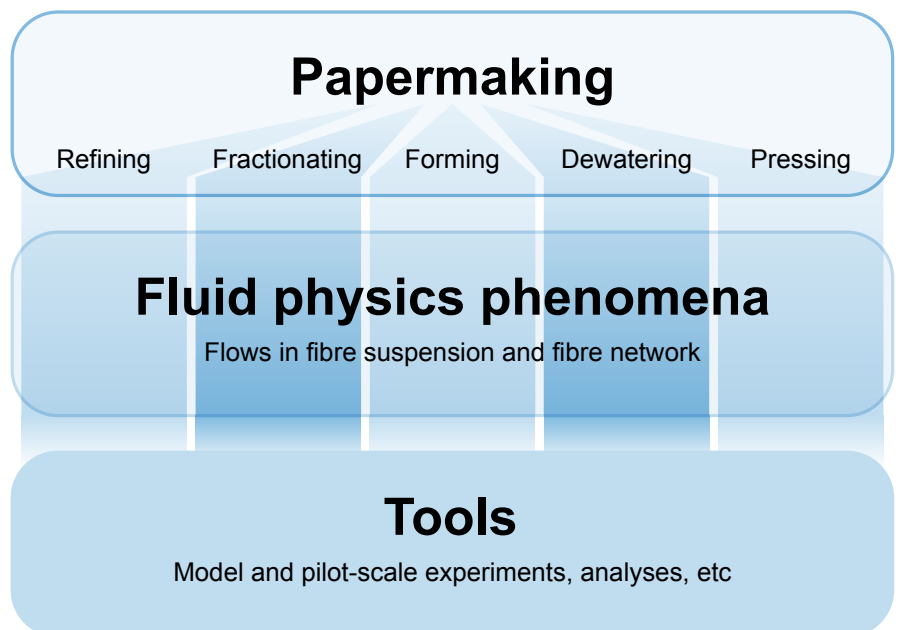
ing will be ready by the end of spring 2009, with the involvement of machine manufacturer, Voith Paper, among others. This development increases the possibilities of validating new technologies and techniques as well as of studying modifications to fibre properties in relation to the properties of products on a relevant industrial scale.

"Among other things, we will be able to fractionate the raw fibre on-line with the aid of hydrocyclones and/or screens. In addition, refining will be possible on-line, before and after fractionation in 2 parallel incoming stock flows that occur during stratified forming, for example," says Torgny Persson, Division Manager of EuroFEX.

Being able to deal with several parallel stock flows is important for traditional multi-layer products such as white-top liner, but also for new products in the fields of printing papers and newsprint.

The foundation for CAPPI is the 10 year collaboration between STFI-Packforsk and the Faxén Laboratory at KTH. The fact that this collaboration has been of great value to paper technology research is evident by the evaluation done by international experts, but perhaps mainly by the grant from the Knut & Alice Wallenberg Foundation.

Those companies that are included in the STFI-Packforsk paper process technology research cluster will benefit from



The CAPPI platform

CAPPI, with its new knowledge, ideas, tools and methods.

“CAPPI has 2 explicit aims, apart from those of the existing research operations in the paper technology field. The first one is to provide existing cluster research with better possibilities for carrying out demonstration projects with the further developed pilot unit, EuroFEX. This is going to reduce the separation between cluster research knowledge platforms and industrial implementation. The second aim is to carry out fundamental research for ensuring a long-term building-up of knowledge and know-how, while, at the same time, generate ideas for new clusters,” concludes Daniel Söderberg. ●

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**Med anslaget** på sammanlagt 35 miljoner SEK från Knut och Alice Wallenbergs Stiftelse etableras nu CAPPI – Centre for Advanced Paper Production Innovation – som möjliggör forskning inriktad på helt nya produkter. Bakom detta ligger ett framgångsrikt tio-årigt samarbete mellan STFI-Packforsk och Faxénlaboratoriet vid KTH.

Av anslaget går 25 miljoner till utveckling av EuroFEX. Ombyggnaden kommer att vara färdig i slutet av 2008.

Ett av målen för CAPPI är, enligt projektledaren och docenten Daniel Söderberg, att ge den befintliga klusterforskningen bättre möjligheter att genomföra demonstrationsprojekt med den vidareutvecklade pilotanläggningen EuroFEX. Ett annat mål är att genomföra fundamental forskning för att säkerställa en långsiktig kunskapsuppbyggnad och samtidigt generera idéer till nya kluster.

## STFI-Packforsk Renserikonferens 2008

2-3 April, 2008, in Kalmar, Sweden

More information about this wood room conference is available in Swedish on [www.stfi-packforsk.se/renserikonferens](http://www.stfi-packforsk.se/renserikonferens).

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## COMING EVENTS

### SEPTEMBER

17-18 Research Seminar for STFI-Packforsk Partner Customers

### OCTOBER

4 Meeting of Technical Committee for Product Protection in Kumla, Sweden

4-5 Final symposium of COST Action in Grenoble, France: Characterization of paper surfaces for improved printing paper grades

16-17 ECOTARGET open workshop, Lodz, Poland

### NOVEMBER

13 Course: Packaging and the environment

For further information on coming events, see [www.stfi-packforsk.se](http://www.stfi-packforsk.se)



## STFI-Packforsk in award winning collaboration with Young Researchers

At the Young Researchers Association (YUF) exhibition at the Stockholm Technical Museum in April this year, 100 or so senior high school students presented their project work. Per Grundström displayed his work, “Comparative Studies of Swedish and Foreign Pulp Qualities”, that was carried out at STFI-Packforsk under the supervision of Anette Lindé, Manager of the Physical Testing Laboratory at EuroFEX, the pilot plant.

For his work, Per was awarded a week at the “Summer Camp in Darm-

stadt, Germany”. This scholarship was sponsored by the Marcus and Amalia Wallenberg Memorial Fund and Billerud. The award was presented by Lars Lejonborg, the Swedish Minister for Education and Research.

“Per was well prepared for the assignment. It’s so pleasurable to see such involvement and genuine interest in the industry by one so young,” commented Anette Lindé.

The Young Researchers Association is an organization that promotes interest in science and technology in the young. ●

## Are you keeping up to date?

From now on, you can quickly obtain an overview of reports and articles from STFI-Packforsk.

– Our many years of research activities have resulted in thousands of research reports as well as technical and scientific articles, says Camilla Burman, Manager of STFI-Packforsk Information Centre.

At [www.stfi-packforsk.se](http://www.stfi-packforsk.se), you can find databases, where you can look for reports and, with just a couple of clicks, order them. They can be delivered as pdf-documents or as print-outs. The search strategy has been tailored to ensure that no unauthorized users are



able to access any confidential material.

– If you are interested, all you need to do is to visit [www.stfi-packforsk.se/databases](http://www.stfi-packforsk.se/databases) and register. The service is naturally free of charge, and all the reports are free for any company financing a research project, says Camilla Burman. ●

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## Have you changed address?

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# B



Turning science into reality is the motto for STFI-Packforsk operations and it could not possibly be better exemplified than in the work of the Newspaper Supplement Group.

The Newspaper Supplement Group is the latest addition to the STFI-Packforsk trade and industry groups (see page 2). It is also one of those that is closest to the industry. Its task is to improve printing results in daily newspaper supplements; the work is being led by STFI-Packforsk. There are also representatives from companies that deal with this problem on a daily basis.

"In addition to our own researchers, the group consists of newsprint producers, printers, ink producers and representatives from newspaper publishers," says Erik Blohm, the co-ordinator of this trade and industry group that has the long title of "Printing of high quality newspaper supplements - optimal utilisation of the raw materials".

Although the name itself may be a little difficult to market, the aim of the group is nevertheless easier to impart. This project is concerned with finding solutions to the most common problems that can occur when printing newspaper supplements on so-called improved newsprint, i.e. newsprint that is whiter and has, in certain respects, better printing properties than standard newsprint.

Erik continues, "Improved newsprint has certainly been around for many years yet it is a product for the future. The Swedish paper industry is highly skilled in this field and there exists enormous potential for developing the product as well as the ways it is being used by printers."

Set-off, smearing and linting are problems that the group is focusing on. One reason for such problems might be that the pre-press process at printers and other printing conditions are not entirely adapted to these paper qualities. Routines are often optimised to suit standard newsprint and, under such conditions, the consequences can be that the amounts of ink being used are too large, mainly due to the differences in absorption properties among these papers.

"One of our working teams is on the way to producing what we are calling ICC Profiles\* that are tailor-made for improved newsprint, which, we believe, will solve a great deal of the problems. The fact is that, today, there are no such ICC Profiles," comments Erik.

Another working team has already come out with the first recommendations as to how the balance of ink and moisture can be controlled so as to avoid set-off

\* Put simply, an ICC Profile is a digital correction file that printers use to convert the colour of original images (RGB) to the colours (CMYK) used in the printing process. To produce the best results, ICC Profiles need to be based on the properties of the paper and printing press and the other materials, e.g. ink, rubber blankets etc.

and smearing. In all, there are 4 working teams in progress (see table below).

The manner of reporting results from the Newspaper Supplement Group is slightly different. Instead of the traditional research reports, the results are going to be presented in a more accessible newsletter that will regularly report on results and give recommendations on how various technical printing problems can be solved. Two or three times a year, there will be accounts of the results in a more integrated format in the Group meetings as well as at seminars and on courses.

"We'll publish handbooks too, with practical recommendations for printers and other companies in the value chain. We think that, together with the new ICC Profiles, our material will be of great benefit to companies," concludes Erik. ●

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### FACTS

The trade and industry group, Printing of High Quality Newspaper Supplements was formed in February, 2006. The project will initially take 3 years. Work is taking place in 4 groups:

1. Ink-moisture balance/running conditions for large editions, avoiding the building-up of linting.
2. ICC Profiles/pre-press conditions.
3. Means of solving smearing problems.
4. Handling in mail rooms.

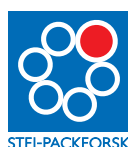


### "Tidningsbilagegruppen" är

det senaste tillskottet bland STFI-Packforsks näringslivsgrupper. Den är också en av de mest industrinära. Uppgiften är att få till ett bättre tryckresultat i dagstidningarnas bilagor. Arbetet leds av representanter för företag som dagligen hanterar problemen.

Utöver egna forskare finns tidningspapperstillverkare, tryckerier, färgtillverkare och representanter för Tidningsutgivarna med i näringslivsgruppen.

Projektet handlar om att hitta lösningar på de vanligaste problemen som kan uppträda vid tryckning av tidningsbilagor på så kallat förbättrat tidningspapper.



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