



British Plastics Federation

Annual Review 2013

Contents

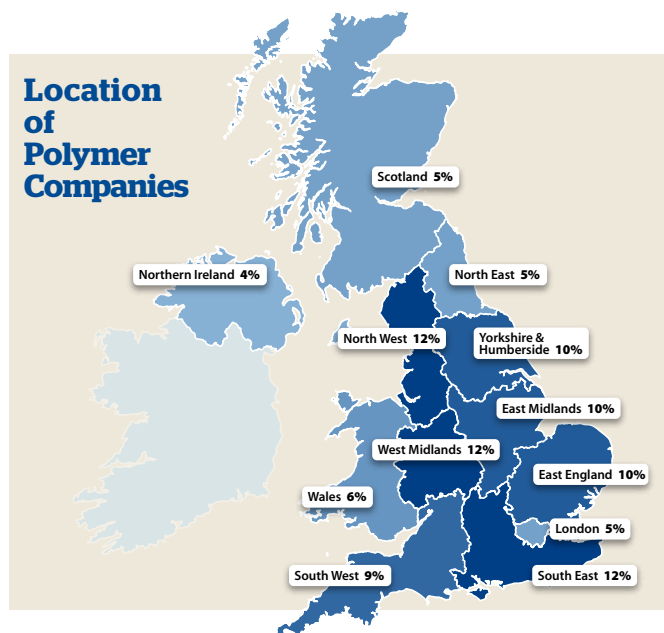
Key Membership Benefits	2
President's Report	4
Director-General's Report	6
Public and Industrial Affairs	8
Finance and Administration	10
BPF and The Media	11
Website Overview	12
International Investment & Trade	14
BPF Business Groups:	18
Raw Materials	18
Vinyls	20
Polyurethane Flexible Foam	21
Moulders & Equipment	22
Packaging	23
Composites and EPS	24
Windows	25
Recycling	26
IPWAF & Equipment	27
Plastic Pipes	28
BPF Central Expert Committees	29
Research & Development Projects	31
BPF Energy Ltd	34
Knowledge Transfer Network	35
Business Support Network	36
The Horners' Award	37
UK Events	38
BPF Seminars	39
Members	40
BPF Affiliates, Council and Staff	43
BPF Events 2014	44

Key membership benefits

About The British Plastics Federation

Established in 1933 the British Plastics Federation is the most powerful voice in the UK Plastics Industry and is composed of over 450 direct members and 1,600 affiliates across the Plastics Industry supply chain. Membership includes polymer producers and suppliers, additive manufacturers, plastics processors, recyclers, services providers, end users and machinery manufacturers.

The BPF promotes the interests of its members principally through its 19 Business Groups and 4 BPF Central Expert Committees which address industry wide concerns including Environment, Fire Safety, Product Safety and Industrial Health & Safety.



10 Key Membership Benefits

- 1 Stronger Together**
The BPF offers members the unique opportunity to share experience and resolve industry issues through unified action. Furthermore, members can participate in exclusive member-only networking events including seminars, meet the buyers events, group meetings and the Annual Dinner.
- 2 Lobbying and Representation**
Members of the Federation influence the UK Plastics Industry's strategic direction at all levels from overall policy to standards making as the BPF is one of the largest and most effective lobbying bodies in the European manufacturing sector.
- 3 A Global Network**
The BPF is at the centre of the global plastics community, leading British participation at international trade shows, developing links with sister organisations around the globe and playing a pivotal role in influencing EU policy makers.
- 4 Plastics Market Intelligence**
Members can gain instant access to detailed plastics market intelligence including polymer pricing, international trade data (for around 100 countries), lists of global agents & distributors, over 700 papers delivered at BPF seminars and contact lists of the global plastics press. All this is available 24 hours a day through the password protected 'Members Only' area of BPF Online.
- 5 Legislative Guidance and Technical Materials Advice**
All members receive regular updates on all legislative issues covering the Plastics Industry, reducing the need for organisations to hire specialist consultants. All members also receive access to 17 in-house experts giving companies on the spot advice on technical issues relating to all aspects of the industry.

- 6 Fortnightly Newsletter**
A fortnightly newsletter keeps members up to date with legislation, technology, process developments and industry news.
- 7 Business Promotion**
Membership of the BPF offers companies an enhanced shop window for their products and services, dramatically improved traffic to their website as well as sales leads delivered direct to their desktops.
- 8 BPF Buyers Guides**
Known in the industry as the 'blue bibles', the BPF Buyers' Guides have for the last 30 years helped companies source reputable suppliers from across the Plastics Industry. The BPF distributes around 8,000 Guides via trade shows, seminars and web downloads each year. All guides can be downloaded at www.bpfbuyersguides.co.uk
- 9 Free Legal Counsel**
Instant access to a team of lawyers giving free legal advice on issues such as Tax, VAT, PAYE, Payroll, Employment and Personnel, Health and Safety and Commercial Legal.
- 10 Member Discounts**
Substantial savings including a 50% discount on the fees for the Climate Change Agreement and reduced cost at BPF Seminars and international Trade Shows.
Members can also benefit from special offers provided by members of the Business Support Network.

The BPF employs **17 SPECIALIST STAFF** and engages a number of consultants to meet the needs of the membership

The **BPF COUNCIL OF MEMBERS** supervises the Federation's activity, and is made up of 25 senior-level representatives elected from the membership

The BPF remains **NOT FOR PROFIT** and all income is ultimately directed to support the UK plastics sector's aims and objectives

UK Plastics Industry: Key Facts

Material processed

4.8 million tonnes

Plastics materials produced

2.5 million tonnes

Plastics Industry turnover

£19 billion

Processor sales turnover

£13.1 billion

Value of exports

£6.7 billion

Plastic & plastics products exported

35%

People employed

180,000

Number of primary processors

3,000

Companies in the Plastics Industry

7,500

President's Report

2013 was a year in which we started to see real signs of recovery in the UK economy and strong growth across most sectors of our industry. It was also the year we celebrated the BPF's 80th Anniversary and it is the 30th Anniversary of my career in the plastics industry, 25 years of those spent at Plastrubution.

First I wanted to pay tribute to my predecessor as President Philip Watkins. Philip led a hugely successful initiative to show to target audiences such as MPs, banks and customer industries that the UK plastics industry, supplying every sector of the manufacturing economy, is a key strategic sector. Philip and his team met more MPs including Shadow BIS Minister Iain Wright MP and Chairman of the European Parliament Internal Market and Consumer Protection Committee, Malcom Harbour MEP. They also met the Chancellor George Osborne MP just before the Budget, at Albis, and were able to pass on important requests and proposals.

At our June AGM Philip published a Progress Report with an updated 'wish list' for Government.

Themes for 2013-15

I fully intend in my term as President to carry this valuable work forward but to focus on key areas of concern for the industry namely: energy, finance, skills needs, and construction.

Energy

Our industry needs secure affordable supplies of energy. With 20% of the UK's power generation closing by 2020 and little sign of its replacement, the Government must fast-track new replacement energy generation capacity including energy from waste and to incentivise more gas storage. We wrote to the Secretary of State for Energy and Climate Change, Ed Davey MP, outlining both concerns and proposals. The only reassurance he could provide was "only in extreme circumstances is there a risk of a loss of gas supply to small businesses and domestic consumers" This clearly suggests that larger firms are at risk of power cuts. There is some good news in our industry: the BPF's new Climate Change Agreement with the Government, through meeting carefully negotiated energy reduction targets, is saving £10.6m a year

in the discount on the Climate Change Levy along with the inherent benefits of improved energy efficiency. Our new CCA commenced on 1 April and covers 304 production sites.

Skills

As the recovery gathers pace we will see shortages of skilled staff becoming a matter of serious concern. Our survey not only reveals shortages of skilled shop floor staff and technical managers but also suggests that member companies are not recruiting enough apprentices.

Philip Watkins was elected to the Board of Cogent our Sector Skills Council and has secured significant support from Plastics MDs for their Science Industry Partnership bid. We must work to ensure the Plastics industry gets its share of the funding available.

Construction

The plastics building and construction products sector has endured some very tough years during the recession. Now we see house building having a welcome revival. We would like to see VAT reduced to 5% on "Green Deal" products such as UPVC double glazed windows and EPS insulation, to stimulate much needed refurbishment of older properties, with increased energy efficiency a major benefit.

In July the BPF Council met at the Bank of England and we had a detailed discussion with the Deputy Governor, Charlie Bean, and his officials, on the findings of our June Business Conditions Survey and the expert views of the markets from our Council members. Our Survey showed 67% of the companies that responded forecasting an increase in UK Sales Turnover in 2014.

Finance

It is a matter of serious concern that bank lending to Business declined 3.9% or £4.7bn in November compared to a year ago. This reduction is in part attributed to the onerous lending terms both in terms of personal security, and the high rates of interest charged to the owners of smaller businesses. It is vital that our industry is encouraged to invest. Business lending is expected to rise gradually but at the end of 2014 will probably be 27% below its 2008 peak.

The BPF's 80th Anniversary

We were founded in 1933 as the world's first plastics organisation. Just as today Britain had a coalition Government, with Ramsey MacDonald as Prime Minister. In the same year Franklin D. Roosevelt was elected US President and Adolf Hitler appointed German Chancellor. In 1933 Polythene was discovered by two ICI scientists in Northwich.

At our 80th Annual Dinner in October the table decorations were fashioned from celluloid film which was most appropriate since in 2013 cine reels will stop being distributed to cinemas, having been replaced with digital projections. That star of the rugby pitch and commentator Martin Bayfield was a most entertaining guest speaker at the Dinner.

At our AGM in May we showed a congratulations video from Vince Cable MP, Secretary of State for Business, Innovation and Skills. He said: "The BPF represents a sector that continues to be of strategic importance to the economy of the UK. Plastics are essential to much of our manufacturing and distributive sectors and underpin the success of many sectors. I am also very pleased that the BPF is so active in overseas markets"

For our Anniversary we updated the BPF "Plastics Timeline," a series of nine posters showing significant events in the history of plastics over many decades. It is being sent to all member companies for use in the workplace or for onward distribution to local schools and can also be viewed on our website. The Timeline formed a key feature in our "Plastics the Facts" exhibition in the foyer of the Department for Business in July. The exhibition was opened by Michael Fallon MP, the Minister of State for Business and Enterprise, and I had a good opportunity to discuss key issues with him.

Illustrating the huge profile the BPF has created for our Plastics Industry in Government circles, we received in August a letter from the Prime Minister David Cameron MP congratulating us on our 80th Anniversary. He wrote: "Occasions like this provide us with the opportunity to reflect on the vital role that plastics play in just about every facet of our daily lives. From packaging and electronics to construction and transportation, these are just a few of the now familiar aspects of our lives

Mike Boswell at the BPF 80th Annual Dinner



I was delighted at our 80th Annual Dinner to present the BPF Gold Medals for service to the BPF and the UK Plastics Industry to Dr Jason Leadbitter and Roger Mottram chairman of our Vinyls Group, both from INEOS ChlorVinyls. Their expertise, unstinting enthusiasm and powers of persuasion have played key roles in PVC's greatly enhanced image.

Key Staff Retiring

At the BPF we will soon have some new leaders as both Peter Davis, Director-General, and Alan Davey, Finance and Administration Director, will retire at the end of June 2014. Peter Davis has been Director-General for more than 16 years, some 20% of the Federation's existence. He has hugely increased the BPF's profile and authority at home and abroad; its professionalism and financial stability.

Alan Davey has completed 11 years service and has done a great job in strengthening the BPF's finances and growing the business, especially in making our Climate Change Agreement a success.

Replacing such gifted and prominent staff was a challenge which I tackled with the aid of an expert Appointments Panel approved by BPF Council and drawn from their members.

The BPF Council appointed Philip Law to become Director-General from 1 July 2014. Philip has been with the BPF for 35 years and, until his appointment from 1 January as Director General Designate, was our very savvy Public and Industrial Affairs Director. He is very well known in the industry and has all the skills, creativity and experience to take on this important role.

We have also appointed Darren Muir to succeed Alan Davey as Finance and Administration Director. Darren has wide experience in an engineering consultancy and a house building and property group.

Finally can I commend to you this Annual Review, showing as it does the hard work of BPF staff and members. Membership of the Federation with its activities and service is really good value for money. I am very pleased to report that through the outstanding BPF team's efforts in 2013 less than 43% of our total income came from membership subscriptions.

Mike Boswell
President

made possible by plastics. The Plastics industry is also contributing enormously to our transition to a green economy, in particular through developing and supplying low carbon products and solutions which help other manufacturing sectors" The Prime Minister goes on by paying tribute to "the energy and enterprise of thousands of mainly small and medium sized businesses in the plastics and other sectors"

It helps that the Prime Minister has three BPF Member companies in his constituency and has visited all of them.

Plastics and Litter

Litter is a serious issue of great environmental concern and not just in relation to plastics. Some environmentalists try to blame the Plastics industry, but UK manufacturers are some of the most environmentally-conscious processors I know. They have no control over the plastics once they have fulfilled their use. Our industry condemns both littering and the illegal dumping of material. Bad behaviour is the main cause of littering.

We need more momentum from Government to support Keep Britain Tidy's educational campaigns, more litter bins, better management of landfills. This is too big for us alone to handle. We need to work with all stakeholders to tackle littering and find solutions.

Member Matters

We take great care to reflect our member companies' views on big issues. In June we asked them for their views on the referendum on Scottish Independence. By a large majority they wanted Scotland to remain in the UK, very much encompassed



by the BPF's credo "Stronger Together." We also asked members views on the EU referendum proposed by the Prime Minister. Again by a large majority they were in favour of staying in the EU, but with reforms.

In November I chaired a meeting of the Chairmen of the BPF's Business Groups and Committees. It was inspiring to hear of all the good work undertaken by groups of dedicated members for the benefit of the industry. I am the former chair of the Polymer Distributors and Compounders Group and personally know how much BPF membership value is achieved in the Groups and Committees along with excellent networking opportunities.

2013 is the 100th Anniversary of the patent awarded for the Polymerisation of Vinyl Chloride.

In the 1990s PVC was under regular attack but slowly and directly, due to a great deal of hard work by the BPF Vinyls Group, perceptions have become more positive. The industry's voluntary commitment, Vinyl Plus (formerly Vinyl 2010) has ensured that 76,500 tonnes of PVC was recycled in the UK in 2012. This year our Vinyls Group produced a leaflet "12 Good Reasons to Specify PVC" and two DVDs, "Keeping Energy Efficiency Simple with PVC" and "Making Savings with PVC"

Director General's Report

Peter Davis

Director-General

TELEPHONE

020 7457 5000

EMAIL

pdavis@bpf.co.uk



A busy year! 2013 started in January with some important and useful Westminster meetings. The BPF held a half day seminar on plastics in the Department for Business, Innovation and Skills for Civil servants from several Government departments. The Shadow Labour BIS Minister Iain Wright MP came to the BPF for 1hr 20 mins briefing on the Plastics Industry. With others I met Labour's former DEFRA spokesman Mary Creagh MP for a discussion on waste issues. With Plastics 2020 Challenge colleagues we met DEFRA's Director of Waste on recycling targets.

Our past President Philip Watkins and I were invited to the BIS Manufacturing Summit in February. We spoke to Ministers and officials and stressed the importance of the plastics industry in key markets.

Raw Materials and Shale Gas

For some years we have been concerned about the future for plastic raw materials and additives production in Europe impacted by lower cost Middle east production and the shale gas revolution in the USA.

The BPF has strongly supported the Chancellor's incentivisation of shale gas exploration. In Lancashire alone there is an estimated 60 years supply of shale gas. The vast extent of the UK's shale gas reserves is not just a new domestic source of energy but can provide the plastics industry with raw material feedstocks to remain globally competitive and generate new jobs. Although this is only likely to come on stream in the 2020s, it is important the Government fast tracks approval for exploration and extraction with community benefits and ensures new industries are created close to the gas extraction.

EU Green Paper on Plastic Waste

In March the European Commission

published a Green Paper on a European Strategy on Plastic Waste in the Environment. It was a poor document containing unproven, emotive statements such as oceans being "the world's biggest plastic dump" and microplastics "may have a high potential for contaminating the food chain"

Nevertheless the BPF submitted a nine page response, answering in detail all of the Commission's twenty six questions. The BPF does support a substantial increase in landfill tax to drive used plastics away from landfilling towards recycling. We are pressing our Government to increase Landfill Tax to £200 per tonne by 2020. On the day the consultation was launched I was interviewed on Channel 4 News, along with the actor Jeremy Irons, who has made a film on plastics waste and strongly advocates a charge for plastic bags.

I do feel that in Brussels a worrying negative climate has developed towards plastics from officials and politicians in 2013. We have raised our concerns with EuPC and PlasticsEurope that plastics is being targeted.

Packaging and Recycling Issues

Feeding 64 million British citizens three safe, healthy meals a day is an enormous 24 hour logistical operation from field to kitchen, in which plastics packaging plays a vital part. In April we launched a new booklet "Plastics Packaging the Progressive Medium". It shows the role which plastics packaging has had in creating the UK's sophisticated retailing scene and why plastics packaging should be specified

In 2009 the BPF, PlasticsEurope and the Packaging and Films Association set up "Plastics 2020 Challenge" to work with all stakeholders to try and prevent used plastics going to Landfill by 2020. We have said DEFRA's plastic packaging targets 2013-17 are too high and will be very difficult to achieve.

Our members and staff are working in WRAP groups to overcome the barriers to more recycling. We do want a level playing field for our recyclers versus exporters of plastic waste. Our BPF Recycling Group have proposed to DEFRA reforms to the PRN/PERN system to provide less incentive to export waste. The BPF have also made proposals to DEFRA to encourage and incentivise the use of recycled plastics in UK manufacturing by using an obligation offset.

In my two articles in "Recycling and

Waste World" I explored in depth all these issues. We also majored on them at our Plastics 2020 Challenge Plastics Packaging Parliamentary reception attended by 36 MPs and Peers. The former DEFRA Resources Minister Lord de Mauley was the guest speaker.

In September the Deputy Prime Minister Nick Clegg MP announced a 5p charge for "single use" plastic carrier bags on the false premise that they are single use and have a significant environmental impact. In fact over 70% of thin wall plastic carrier bags are re-used for: bin liners; muddy football boots; dog excreta. They are only 0.02% of household waste according to DEFRA's own figures. Bizarrely the Government want to exempt paper bags and bio bags.

We have supported our good friends in PAFA in fighting this proposal. The BPF responded to DEFRA's consultation paper. One of our recyclers gave expert evidence to the Commons Environmental Audit Committee on the contamination risks of bio bags and I wrote to the Secretary of State Owen Paterson MP on the high re-use of such plastic bags.

The Marine Environment

With our colleagues in the Plastics 2020 Challenge we have sponsored the Marine Conservation Society's (MCS) "Bottle Champions" scheme in 84 Primary Schools. The children bring in plastic bottle caps to prove their bottles have been recycled. We recycle the caps and give the school team sports shirts made of recycled bottles. We have reached 15,000 children, recycled 306,780 bottles and achieved 52 items of media coverage.

We participated in MCS Beach cleans and surveys and I was interviewed on BBC Newsnight in January on plastics in marine litter and what we are doing about it.

I said our industry does not leave plastic on beaches or illegally dump it at sea, we want it back for recycling.

We said farewell to Jan-Erik Johansson as PlasticEurope North Director who has retired, and welcomed Kim Christiansen as his replacement.

Seminars, Shows and new services for members

We held ten BPF seminars on subjects ranging from automotive applications to recycling. We took 30 companies with UKT&I support to the



After years of lobbying we finally got a Climate Change Agreement in 2009 giving us a more level playing field against rival materials. As the recession struck I devised the "Stronger Together" strapline and it's good to see a strong net increase in membership numbers.

We have built up a strong relationship with key NGOs such as the Marine Conservation Society and Keep Britain Tidy. I must also praise the close cooperation and weekly contact we have with the ever helpful Department for Business, Innovation and Skills. We can't claim the decision to adopt Plastic Bank notes in 2016 was to do with our close contact with the Bank of England, but my comments that we should also have plastic



CEO Dick Searle and Peter Davis at the Deal Beach Clean



Peter Davis on BBC TV Newsnight

Kunststoffe Show in Dusseldorf and published an excellent show guide.

We also had exhibition stands at Arabplast Dubai, Interplastica Moscow, Chinaplas Guangzhou and Plastivision in Mumbai. We held an Insight to Export seminar in May, with a special focus on the Brazilian market. This BPF export work is absolutely vital when in 2012 we had a UK Trade Deficit on goods of £106.3bn, the worst on record.

We launched a BPF Bookshop with 1120 titles and new training modules and are partners in 9 EU funded R&D projects including "SupercleanQ" for food grade recycled PET and "Polysolve" for recycling polystyrene.

Staff

Once again I am indebted to our experienced and hardworking staff for all their efforts. Philip Law our Public and Industrial Affairs Director and my successor completed 35 years' service to the BPF and Angella Ladner 15 years.

We welcomed to the BPF staff Laura Hindley as Industrial Issues and Communications Executive, Dr Sara Cammarano as Industrial Issues Executive,

Meral Heatley as PA to Philip Law and Karen Spillman as receptionist. Francisco Morcillo was promoted to Senior Industrial Issues Executive.

Reflections 1997-2013

This is my last Annual Review report since retirement looms for me and Alan Davey our multi-talented Finance and Administration Director.

When I joined the BPF in 1997 I did reduce the staff numbers but invested regularly in good IT and set about increasing our influence with politicians and officials.

I created the Seven Associations Alliance, lobbying the Chancellor twice a year, brought in a six monthly business conditions survey and an annual BPF Council meeting inside the Bank of England. To coordinate policy and lever more influence we have been active members of these alliances: Construction Products Association; the Manufacturing Alliance; Packaging Federation, Engineering and Machinery Association, the Plastics 2020 Challenge, the Alliance of Chemicals Associations. I have been chairman of the latter since 2010.

coins did get into the "Guardian" newspaper and on BBC Radio!

I have some regrets. Over the unfair image of plastics caused by littering and unjustified attacks on chemicals in plastics. Also no single voice for the Plastics Industry in Brussels.

I have been very fortunate to have worked closely with eleven excellent BPF Presidents. It would have been more but we wisely decided to have two year terms for our Presidents from 2000. This has been a great benefit in allowing the President to fulfil his key themes.

The BPF is all about team work with members and staff. I have been fortunate to lead a highly experienced team Philip Law, Alan Davey, Stephen Hunt, Angella Ladner to name a few. But I could not have done my job without the invaluable help of my two PAs firstly Lorna Hewson followed by Fozia Ghadiali. The efficiency and hard work of both has been indispensable.

You never get bored working at the BPF – no day goes to plan due to external pressures! May I wish all my colleagues and our members all success in the decades to come.

Peter Davis OBE FRSA
Director-General

Public & Industrial Affairs

Philip Law Public & Industrial Affairs Director

TELEPHONE
020 7457 5000
EMAIL
plaw@bpf.co.uk



Membership

We continue to elicit strong interest in membership. We estimate that 30 companies will have joined the BPF in 2013. There is a particularly strong interest from recyclers, rotational moulding and equipment firms.

Our attendance at smaller, specialised trade fairs is proving to be particularly successful in putting us into contact with potential members.

Top Themes

Within the overall BPF theme, 'A sustainable plastics industry: a strategic asset in our manufacturing economy', President Mike Boswell chose to focus on the following aspects:

■ **Finance** As recovery proceeds, the industry will need to invest in order to accommodate the increased demand by increased capacity utilisation. It is essential that there is increased availability of competitively priced finance.

■ **Energy** The reliability, security and affordability of energy supply remains a critical issue. We have pressed for increased gas storage, accelerated progress on the deployment of nuclear power and a greater role for energy from waste. We have warned government of the risk of power cuts, a view recently echoed by several authorities and we are preparing for this outcome by staging a seminar to provide advice to members on 12 February.

■ **Skilled Staff** The increase in apprenticeships is welcome but we still face a massive skill shortage. Former President, Philip Watkins, has become a member of the Cogent Board and is trying to secure a dedicated training package for the plastics industry.

■ **Construction** Whilst there is evidence of a recent upturn of activity, this needs to be

consolidated and extended. The government 'Buy to Lend' scheme and the National Infrastructure Plan are helping. More needs to be done to encourage the purchase of energy saving products. The Green Deal needs to be reviewed.

Two key documents

We have published a 'Progress Report' on the strategic themes nominated by former BPF President, Philip Watkins. This is accessible on http://www.bpf.co.uk/Press/Strategic_Manufacturing.aspx

Additionally, of wide interest to the BPF as a whole, at the K FAIR we made available 'A guide of the Best of British 2013'. This was supported by the UK Trade and Investment and the Materials KTN. Essentially it provides all the arguments for buying plastics – related products from the UK. It is accessible on www.k2013.co.uk. It contains the contact details of over 600 companies and includes the contact details of all BPF Members.

Web Developments

This year has seen the creation of the BPF's online shop, www.bpfshop.com, a one-stop shop for the purchase of plastics-related publications. Nine leading publishers of books and studies, both technical and commercial, are featured.

We have also introduced BPF Training online and a wide variety of online courses are accessible through our association with Maguire Training. We have also commissioned a training video presentation from energy efficiency expert, Robin Kent.

Social Media

BPF is developing a presence in social media channels; it has a Twitter account with over 4000 followers, a YouTube channel, a Facebook page and a LinkedIn Group.

Participation in overseas trade fairs

The year's highlight was K2013 in Dusseldorf, 16–23 October 2013, where we had 30 companies exhibiting with us under the BPF banner. We also mounted overseas business development platforms at Chinaplas in Guangzhou, Plastpol in Poland, Plasteurasia in Istanbul and Plastivision in Mumbai.

UK Trade Fairs

As a strategic move we are putting more emphasis on attendance at smaller, specialised trade fairs in the UK. We recently exhibited at the Advanced Engineering Show, 12–13 November, 2013.

UK Plastic Industry Business Performance

Our twice-yearly Business Conditions Survey is attracting increasing numbers of respondents and we are approaching the 100 company participation level. The last survey (June) indicated continued recovery with some two-thirds of companies expecting sales turnover to increase in the next twelve months. This was up from 55% in the January survey, with exports expected to stabilise and 41% anticipating increased profitability, up from 36%.

Perceptions of Plastic Products

A marked trend has been the motivation of individual BPF Groups to move onto the front foot in promoting the benefits of their products. Notable examples include the Vinyls Group, with its suite of videos attracting a high YouTube following; the Packaging Group with the launch of its brochure 'Plastics Packaging, the Progressive Packaging Medium'; the Rotational Moulders Group with its presentation for University design students; and the EPS Group with its video 'A Day in the Life of Fishbox'.

Informing the Politicians

Both in the UK and EU, the industry remains at the vagary of political whim. Negative developments in Brussels included a consultation of a Green Paper on Plastics Waste Policy, a harbinger of dedicated and discriminatory legislation. An EU call to action on plastic bags has opened the floodgates for a patchwork of incompatible governmental responses across Europe. At the close of the year, a plan emerged in Brussels to convert the Packaging Waste Directive from a single market instrument to an environmental measure.

In the UK, we had frustrating experiences with Defra's imposition of unrealistically high plastics packaging recycling targets. We have proposed to Defra an 'offset proposal' to boost plastics packaging recycling which is receiving consideration.

Chemicals in Plastics

With REACH being reviewed there are strong concerns over the burdens imposed for SMEs, in particular the disincentive for innovation it represents. Several reports emerged of non-REACH compliant materials reaching the EU / UK marketplace, with the prospect of severe reputational damage if consumers are placed at high risk.

The unpredictable progress of chemical issues arising from REACH feeds on underlying sensitivities in Scandinavian and Germanic Europe and political opportunism in France. Their onward transmission by a widening network of conventional and social media has resulted in unfair and difficulties for Bisphenol A and Azodicarbonamide. BPF's defense of both has stood out among European associations.

We were prompted to hold a seminar on Endocrine Disruption in early 2013.

Industrial Health and Safety

SIMPL now has over 60 adherents. We secured sponsorship from Zurich Insurance and Martor Safety knives. A new strategy will be launched next year with more challenging goals. An audit tool for BPF members was finalised.

Innovation

The BPF continued to play a leading role in third-party funded, collaborative Research and Development projects. Eleven projects were handled, ranging from Hiperdry, focussing on the drying of hygroscopic polymers, to Polysolve, an initiative exploring the solvent-based recycling of EPS and Polycarbonate. The environment for trade association involvement in such projects is changing as the basis of funding moves from Framework Programme 7 to Horizon 2020. We expect being able to access funding through the BPF's status as an SME itself, as well as a trade association with a membership extending across the whole UK industry.

International Relations

BPF continued to be fully represented internationally:

EuPC (plastics processing)

Peter Davis and Philip Law

EUMEPS (EPS):

David Emes (EPS Group), Jon Bloom

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BPF names Philip Law as its new director-general

By Hamish Champ
Posted 11 October 2013

The British Plastics Federation (BPF) has appointed Philip Law as the trade body's next director-general.

Currently the BPF's public and industrial affairs director, Law will replace the outgoing director-general Peter Davis, who retires next summer.

Set to become director-general designate in January next year, Law will fully take on the role when Davis leaves next July.

Law's appointment was announced by BPF president Mike Boswell at the federation's 80th anniversary dinner held in London on Friday night.

"I hope you will join me in wishing Philip enormous success in his new role," Boswell told the event's 400-strong audience. The BPF president described Law as an "eminently well-qualified candidate".

Boswell had headed up a committee formed earlier this year in order to find a replacement for Davis, who has been with the BPF for 16 years.



Law: the new BPF director-general.

and Dr Sara Cammarano

EuPR (Recyclers):

Roger Baynham (Philip Tyler Polymers)

EUROMAP (Machinery and Equipment)

Philip Law

EPPA (Windows)

David Wrigley , Epwin

EUROPUR (PU Foam)

David Waite

TEPPFA (Pipes and Fittings)

Caroline Ayres and Frank Jones

BPF Heritage

The BPF's 80th Anniversary was marked by a highly successful Annual networking

Dinner on 13 October 2013, where Rugby star Mark Bayfield ably substituted for an indisposed Brian Blessed. We also republished an updated Timeline on the history of Plastics, which now includes a dedicated poster on the history of PVC.

BPF Energy

A new Climate Change Agreement was signed between the BPF and the Secretary of State for Energy and Climate Change in April. New energy efficiency targets were established. Plastics was set at 17% by 2020. BPF Energy now attracts the participation of over 300 manufacturing sites.

Industry Awards

This year's Horner's Award was won by GKN Aerospace for its Airbus A350 XWB Composite Rear Spar.

Finance & Administration

Alan Davey

Finance and
Administration Director

TELEPHONE

020 7457 5000

EMAIL

adavey@bpf.co.uk



With the UK economy posting its strongest economic growth since 2007, the upswing that started over a year ago gathered pace during the year to suggest the recovery is more firmly in train. Led by the service sector, which contributed most to the overall figures, GDP growth for 2013 was 0.7%.

Within this altogether more positive environment the BPF continued to perform well in its 80th anniversary year. Total income for 2013 grew by 6% to £2,030,903 and was £114,515 above that in 2012. Most of the Federation's revenue streams performed better than that of the previous year, with membership subscriptions growing by 1.9% and all other income by 9.3%.

Administrative expenses at £1,952,012 rose by £96,133 or 5.2% over 2012, reflecting generally higher operating costs and events expenditure.

The financial outcome in this notable 80th year reflects yet another satisfying result for the Federation, generating a surplus after tax of £41,712 (2012: £21,171) and an exceptional busy but rewarding year for the committed BPF staff.

Membership subscriptions have been increased by 2.8% for 2014.

Financial Operations

Strong basics of good budgetary control, treasury and credit management have remained our focus in 2013, which has been especially important with the growth in service provision to the expanding partnership base in BPF Energy Ltd.

IT & Communication

Apart from the cyclical replacement of desktop and laptop PCs, the



main initiative was to move our photocopier and printer lease to a new energy-efficient and cost-saving contract which was accomplished at the outset of the year.

invaluable source of third party income.

During the year Hackney Council food inspectors assessed our catering and kitchen facilities and awarded us a 5 Star Rating.

BPF House

2013 was the first time in three years that the building was tenanted for a full year.

Our four tenants effectively double the number of people who work from BPF House as their base over and above the BPF staff compliment.

Building on the achievement of 2012, BPF House increased its 'zero commitment to landfill' by recycling 13.5 tonnes of waste and in so doing saved 80 trees and achieved 10.1 tonnes of CO₂ offset for which we maintained our Silver Standard.

Meeting room facilities and the provision of catering remains an important aspect of everyday support to our central & group meetings programme and an

BPF & the media

Throughout the year BPF had an exceptionally high profile in the media and our relationships with the industry's media, particularly *Plastics & Rubber Weekly* and *British Plastics and Rubber*, are very highly valued.

In 2014 we issued some 70 press releases, a mark of the news generated by the BPF and in turn a measure of the vibrancy of the organisation. The impact of these messages was amplified by increasing the use of social media platforms such as Twitter, Facebook and LinkedIn. The BPF Twitter account now has more than 4000 followers.

A particular highlight was a piece on Channel 4 News, which featured BPF Director-General Peter Davis in debate with film star Jeremy Irons on the subject of plastics and the environment. The BPF does not shrink away from challenging encounters.



BPF Director-General Peter Davis debating plastics and the environment with film star Jeremy Irons on Channel 4 News

A marked trend in 2013 was our increasing exposure in the recycling and broader waste management press, to the extent that *Materials Recycling Weekly* kindly agreed to be media sponsor for our

2014 Recycling seminar.

BPF continued with its contribution to *British Plastics & Rubber's* 'From the Frontline' column which was written monthly by Philip Law.

Website overview

Stephen Hunt Business Development Manager

TELEPHONE
020 7457 5044
EMAIL
shunt@bpf.co.uk



The BPF views its various web platforms as an integral part of its communications agenda and as a result the BPF continues to develop and improve these various web platforms year on year.

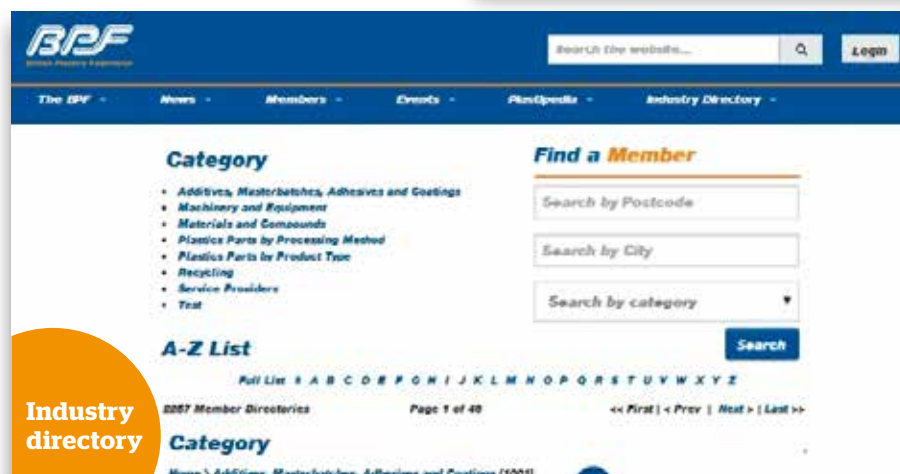
In 2013 the traffic to the BPF's website increased once again, with the site garnering a total of 1,364,352 page views over the course of the year. In addition the percentage of traffic that came from overseas increased, with 53% of the web traffic in 2013 coming from outside the UK. The BPF website is now the most visited English language website dedicated to the plastics industry.

Redevelopment of BPF Online

In order to build upon the ongoing success of BPF Online, over the course of 2013 the BPF Web Development Team worked hard to implement a brand new web platform to host BPF.co.uk. The new website, which has been developed for enhanced display on mobile devices (phones and tablets), will be designed to be more intuitive, easier to navigate and will feature an enhanced 'members only area'.



**BPF
Online**



**Industry
directory**

Industry directory

The BPF Industry Directory was first launched in 2002 and has been a key tool to promote and recruit business for BPF's members. The Industry Directory has grown in popularity and complexity over the years and is now in need of an overhaul to ensure our members services can be seen by as wide an audience as possible. The new Industry Directory will go live in 2014 and will feature over 2,300 plastics companies (with BPF Members appearing first in all searches).



BPF shop

BPF Training and BPF Shop

In 2013 the BPF launched BPFShop.com and BPFTraining.com. BPF Shop currently sells around 600 handpicked books from some of the world's largest publishing houses, as well as a selection of industry specific reports. Over the course of 2013, the BPF made a number of publications from its archive available online for the first time. BPF Training is an online training platform aimed at the plastics industry. In 2013 it launched with two training videos, both based on reducing energy usage in plastics processing. Over the course of 2014, the BPF aims to develop more industry specific training packages and will work with a number of Members to achieve this.

Social Media

Social media plays an increasingly important role in enabling the BPF to promote its Members' services to as wide an audience as possible. The BPF employs all relevant channels to achieve this, these include:



YouTube

Youtube

The BPF continues to create short educational videos to promote the plastics industry and these are all published via its YouTube channel. In 2013, the BPF's EPS Group launched 'A day in the life of a Fishbox...and beyond' which was a highly popular and educational video exploring a day in the life of a fish box. As of 31 December 2013, the BPF have recorded of 62,000 video views via its Youtube channel

Twitter

By the end of 2013 the BPF had over 4,200 followers (up from 3,000 in 2012).



Twitter

Facebook

The BPF launched its Facebook page in 2012 and as of the end of 2013 had received over 140 'likes' and over the course of 2013 had a 'reach' of over 5000 people

LinkedIn

The BPF company page on LinkedIn had 420 followers as of the end of 2013, with the various BPF managed groups having a combined total of 564 members.



BPF Training

www.bpf.co.uk
2013 Statistics

Unique Pageviews
1,033,628

Pageviews
1,364,352

International Investment & Trade

Justyna Elliott

Senior Business Development Executive

TELEPHONE
020 7457 5001
EMAIL
jelliott@bpf.co.uk



Angela Fredericks

Business Development Executive (maternity cover)

TELEPHONE
020 7457 5001
EMAIL
afredericks@bpf.co.uk



Arabplast 2013

Dubai, UAE
7 - 10 January 2013



At Arabplast 2013, the British Plastics Federation once again co-ordinated a UK Pavilion supported by UK Trade & Investment Grants, located in a prominent location of Hall 4. The nine British exhibitors included:

- Atlas Converting Equipment
- Colomatrix
- C R Clarke
- EPI (Europe) Ltd
- Farrel Ltd
- Listgrove
- NDC Infared
- Perrite
- Tinius Olsen

All UK exhibitors featured in the "Best of British" Guide to UK exhibitors, 1000 copies of which were handed out to visitors at the show.

Interplastica 2013

Moscow, Russia
29 Jan - 1 Feb 2013

Interplastica is an annual exhibition attracting approximately 20,000 visitors and over 700 exhibitors. In 2013 the BPF co-ordinated a British Pavilion for the first time. The show featured a number of British companies including:

- Listgrove
- Longfield Chemicals
- Colomatrix
- Croda Europe Limited
- Plasmac Limited
- Sunwell UK Limited

In preparation for the event, the BPF held a seminar at its offices in London entitled "Russia: Opportunities for UK plastics companies," which attracted 29 delegates.



UK Trade & Investment

"It is obvious that Russia is an expanding market and offers incredible potential for those who operate across the plastic and packaging sectors. (...) the country offers many opportunities for specialist companies to establish business interests there."

Ryan Kirby
Listgrove



UK Pavilion exhibitors at Arabplast 2013

Chinaplas 2013

Guangzhou, China
20-23 May 2013

Chinaplas has grown with each edition and is now firmly established as the world's largest annual plastics event. The show in 2013 attracted 114,103 visitors and 2,972 exhibitors from 36 countries.

The British Pavilion, located in Hall 9.2, was made up of 10 companies with a further 4 British companies exhibiting independently. Many of the British companies who exhibited did so with the support of Grants from UK Trade and Investment.

The companies who exhibited as part of the British Pavilion were:

- Aerogen
- Ashe Converting Equipment
- Ceramicx
- Environmental Recycling technologies
- Listgrove
- Meech International
- Nextool
- Sevensas International
- Trans XL
- Techne



Chinaplas®
国际橡塑展

As always, Chinaplas was extremely busy with a high number of quality visitors. The UK exhibitors were extremely pleased with the sales leads they received.

The British Plastics Federation produced a Guide to UK exhibitors, which as well as the contact details of all 470 BPF Members, was translated into Mandarin, all listed all UK exhibitors with their contact details. 1000 copies of this Guide were distributed during the show from the BPF stand.



International Investment & Trade

K 2013

Dusseldorf, Germany
16 – 23 October 2013



**UK Trade
& Investment**

The British Plastics Federation (BPF) organised two British Pavilions, featuring 30 UK companies at K fair in Düsseldorf. The show, held between 16 – 23 October 2013, covered 19 halls and attracted 218,000 visitors and 3,200 exhibitors. The British Pavilions were located in two halls: Hall 5 (materials hall) and Hall 12 (machinery hall). In addition to the two British Pavilions, there was a UK Village in Hall 12 which was organised by the BPF and featured 8 exhibitor booths with a large internal meeting area that was heavily utilised by BPF members visiting the fair.

The following companies exhibited at the UK Pavilion:

- Almo / Addmix
- AWB Plastics Ltd T/A Silvergate Plastics
- British Plastics Federation
- BPF – Innovation Projects
- CCS Technology
- Chemical Innovations Limited
- C L Rye Trading Ltd
- Colourtone Masterbatch Ltd
- Cooper Technology
- EURO EXIM Ltd
- Hubron International Ltd
- Impact Solutions
- Intouch Monitoring Limited
- Lacerta Technology Limited
- Lectorheat Industrial Heating Ltd
- Listgrove Recruitment
- Longfield Polymers
- Luxus Ltd
- Michael Ballance Plastics Ltd
- MSA Engineering Systems Ltd
- Nextool UK Ltd
- Plastics Consultancy Network (PCN)
- Perrite
- Plastics Machinery Group International Ltd
- Protomax
- Polymer Training and Innovation Centre
- Resin Trade Limited
- Sevensseas International
- Silberline Ltd

With UK Trade & Investment support, the BPF created the “Best of British at K 2013” guide. This featured information on all 100 British exhibitors at the show, listed all 450 BPF Members and featured a number of case studies on cutting edge UK innovations, as well as a special feature on plastics applications in sport. The Guide is available to download from the mini website at www.k2013.co.uk

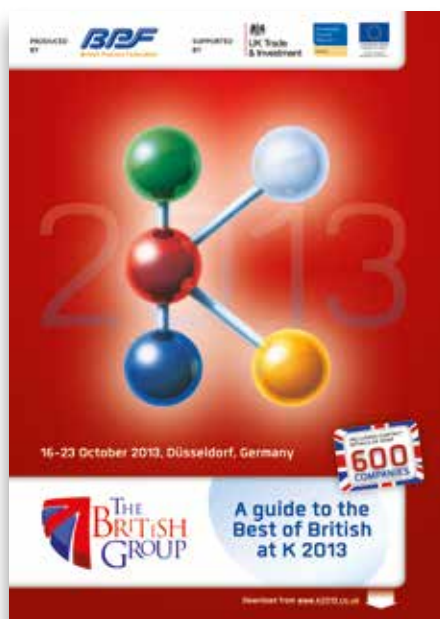
The BPF also took part in a promotional event of the GREAT Mini Cooper, which was touring Germany and stopped by on the 21 October in Düsseldorf and made its presence known at the K fair. Two BPF Member companies who supplied to the Mini Cooper, Albis and Axion, participated in a photo shoot at the fair alongside officials from UKTI and Messe Düsseldorf.



UK group at K 2013



L-R, Keith Freegard, Axion Recycling; Werner M Dornscheidt, President & CEO, Messe Duesseldorf; Susan Speller HM Consul General, Duesseldorf; Justyna Elliott, BPF; Ian Mills, Albis



Best of British Guide to K 2013 – downloadable from www.k2013.co.uk

Plastivision 2013

Mumbai, India
12 - 16 December 2013



The British Plastics Federation led a Group of 13 UK exhibitors at India's largest plastics event. The 2013 Plastivision trade show was held at the Bombay Convention & Exhibition Centre. Taking place every three years, Plastivision attracted over 100,000 visitors and 1,500 exhibitors.

The British Pavilion was located close to the entrance of Hall 6, which also featured International Pavilions from China, Taiwan, Korea and, for the first time, a small pavilion from Italy. British Pavilion exhibitors were:

- Ashe Converting Equipment
- British Plastics Federation
- ECO Plastics Ltd
- Farrel Pomini
- Lacerta Technology
- Nampak Plastics Europe Ltd
- Nextool UK Ltd
- PREA Ltd
- Recycle Plastic Group Ltd
- RecPlas Ltd
- Sam Magnet UK Ltd
- Seven Seas International Ltd
- TransXL International Ltd



British Pavilion exhibitors at Plastivision 2013

The majority of the UK exhibitors were supported by a £3,000 UK Trade & Investment grant for participating in the fair, which benefited UK firms immensely.

During the 5-day exhibition, the BPF met a number of the most influential bodies in the Indian plastics industry. These included the show's organiser, All India Plastics Manufacturers Association

(AIPMA), and Plastindia Foundation, an organiser of the Plastindia trade fair in Delhi where the BPF will be attending with a UK Pavilion in 2015.

One of the British Pavilion exhibitors, Eco Plastics (the largest PET recycler in the UK), were awarded a trophy for 'Most Creative Exhibitor'. Duncan Oakes of Eco Plastics was thrilled to receive the award: "It was a great honour to be recognised for this award by Plastivision among the large number of exhibitors present at the show. (...) The interest in our food grade rPET by many Indian based packaging manufacturers demonstrates the change in attitude towards carbon reduction and the desire to have a lower environmental impact on our world. We'd like to thank the BPF and also UKTI for the encouragement to look seriously at India."

A number of the British exhibitors participated in a short tour of the largest slum in Mumbai called Dharavi. The tour's objective was to learn about the types of industry taking place within the slums. The group, which was made up of a number of leading UK recycling firms, was shown how plastics are recycled within the slums and how it has earned its reputation as the recycling centre of India.



BPF with Co-Chairman of Plastivision 2013 Mr.Kailash B Mura

BPF Business Groups

Stephen Hunt

Business Development Manager

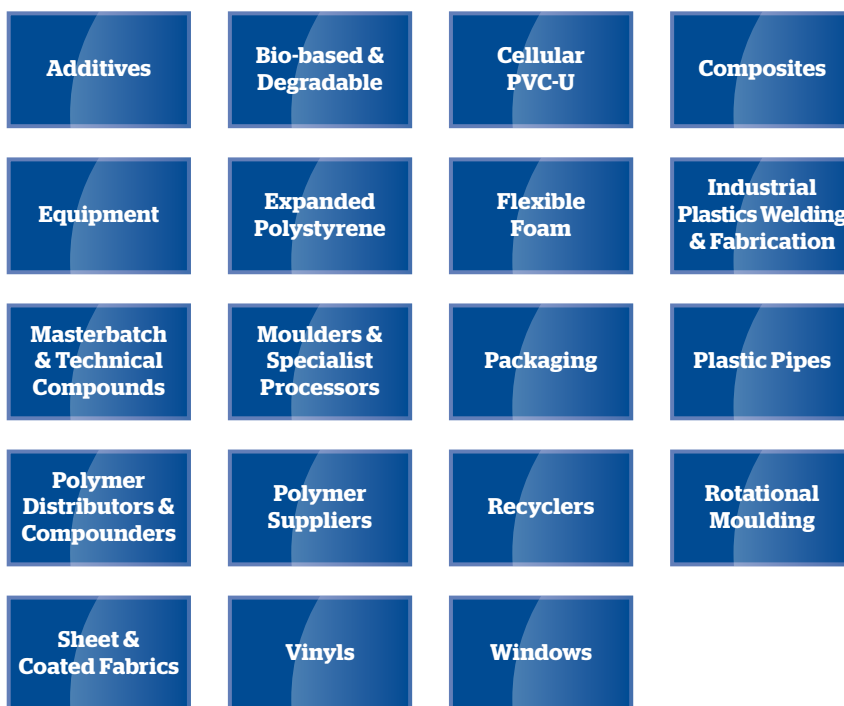
TELEPHONE
020 7457 5044
EMAIL
shunt@bpf.co.uk



BPF Group Structure

Over the years the BPF Group structure has evolved as new groups were added to the 'BPF Family' and others merged.

However, over the course of 2013 the BPF Group structure stayed constant and as of 31 December 2013 the BPF consisted of 19 membership groups.



Sarah Plant

Senior Executive – Industrial Issues

TELEPHONE
020 7457 5015
EMAIL
splant@bpf.co.uk



Polymer Distributors & Compounders Group

Chair **Mike Boswell, Plastribution**

Representing eighteen member companies, the Polymer Distributors & Compounders Group continues to provide the leading voice for this crucial sector. The Group are continuously looking to recruit new members to ensure representation of the sector is as far reaching as possible.

Group surveys provide Members with crucial insight on critical costs in transport, warehousing and logistics as well as identifying the Group's market share of polymer products (UK & IRL). A Sales Index and monthly fuel barometer survey, introduced during 2012, have both continued throughout 2013.

The Polymer Distributors & Compounders Group Credit Forum, co-ordinated by Experian since 2006, continues to run successfully providing a confidential platform for members to keep abreast of changes and share information.

The Group welcomed a number of external speakers to their meetings

during 2013, providing insight into a variety of topics, including; skills & training, technical apprenticeships and industry media coverage.

The Polymer Distributors & Compounders Group have maintained their sponsorship of the Horner's Polymer Study Tours, helping to raise awareness of the UK polymer industry with the next generation of teachers and their pupils.

During December 2013, David Viehoff, Managing Director of Ultrapolymers Ltd., was elected as Chairman of the BPF Distributors and Compounders Group taking over from Mike Boswell of Plastribution Ltd who steps down in order to focus on his new role as President of the British Plastics Federation.

David is keen to build on the strong foundations set in place during Mike's chairmanship, adding, "I wish Mike every success in his new role as President of the BPF. He leaves the Distributors and Compounders Group in great shape. With the support of our growing membership I will endeavour to continue the positive evolution of the Group and the plastics industry we support."

Polymer Suppliers Group

As an alliance of companies with a substantial interest in all issues affecting the plastics supply chain, the Polymer Suppliers Group is fundamental in acting as a source of information and support for the wider industry.

Through strong participation in the Federation's Central Committees and Business Groups, Members of the Polymer Suppliers Group are able to become involved with almost every element of BPF activity.

A key aim of the Group is to promote the view of plastics to Government, media and the wider public. Keeping abreast of legislative developments which could impact plastics is also a high priority.

Materbatch & Technical Compounds

Chair **Greg Hammond, Gabriel-Chemie**

The Masterbatch and Technical Compounds Group provides a strong platform for UK colour and additives masterbatch manufacturers and suppliers to promote the key role of colour in plastic products.

Promoting the 'British Masterbatch Industry', both at home and abroad, remains a key activity for the Group and this will continue into 2014. Promotional opportunities for individual Members are offered via the Masterbatch & Technical Compounds Buyers Guide as well as through the BPF's web pages.

The Group continues to keep abreast of issues of interest including; skills & training, REACH developments and security of supply of raw materials.

External speakers were invited to join with the Group to share their experience and knowledge on issues of interest, such as; co-operation with the British Colour Makers Association and technical apprenticeships

Additive Suppliers

Chair **Jim Jeffries, Chemson**

Playing an active role in almost every element of BPF activity, and as the only national grouping of its type in Europe, the BPF Additive Suppliers Group provides a unique platform to promote the essential function of additives in plastics products.

The Group, currently comprising 29 member companies, works to enhance the reputation of chemicals and additives via a number of mediums including a dedicated webpage on www.bpf.co.uk as well as promoting their own individual capabilities through the Additives Suppliers Buyers Guide.

A variety of discussion topics made the Group's agenda during 2013 including R&D tax credits as well as UK and EU funding opportunities.

REACH remains a key topic of interest and is a constant discussion item. This was strongly evident during 2013 where the Additives Group has been at the forefront of BPF activities relating to the blowing agent Azodicarbonamide which was prioritised for listing on XIZ of REACH during 2013.



Bio-based Polymers Group (formerly Bio-based & Degradable Plastics Group)

Following the dissolution of the Bio-based & Degradable Plastics Group at the end of 2012, a new Group was established in early 2013 to be known as the Bio-based Polymers Group.

Membership criteria and scope for the Group's activities have been developed.

The Group will focus on the following issues:

- Developments in legislation and standards
- Production and market development
- Security of supply & economic sustainability
- Developing a local UK bio-economy

Membership of the Group continues to evolve and increasing representation within the Group will be a key target for 2014.



BPF Business Groups

Vinyls Group

Chair **Roger Mottram,**
INEOS ChlorVinyls

The Vinyls Group work to promote the positive contribution PVC can make to everyday life representing the UK PVC Industry to Government, customers and media.

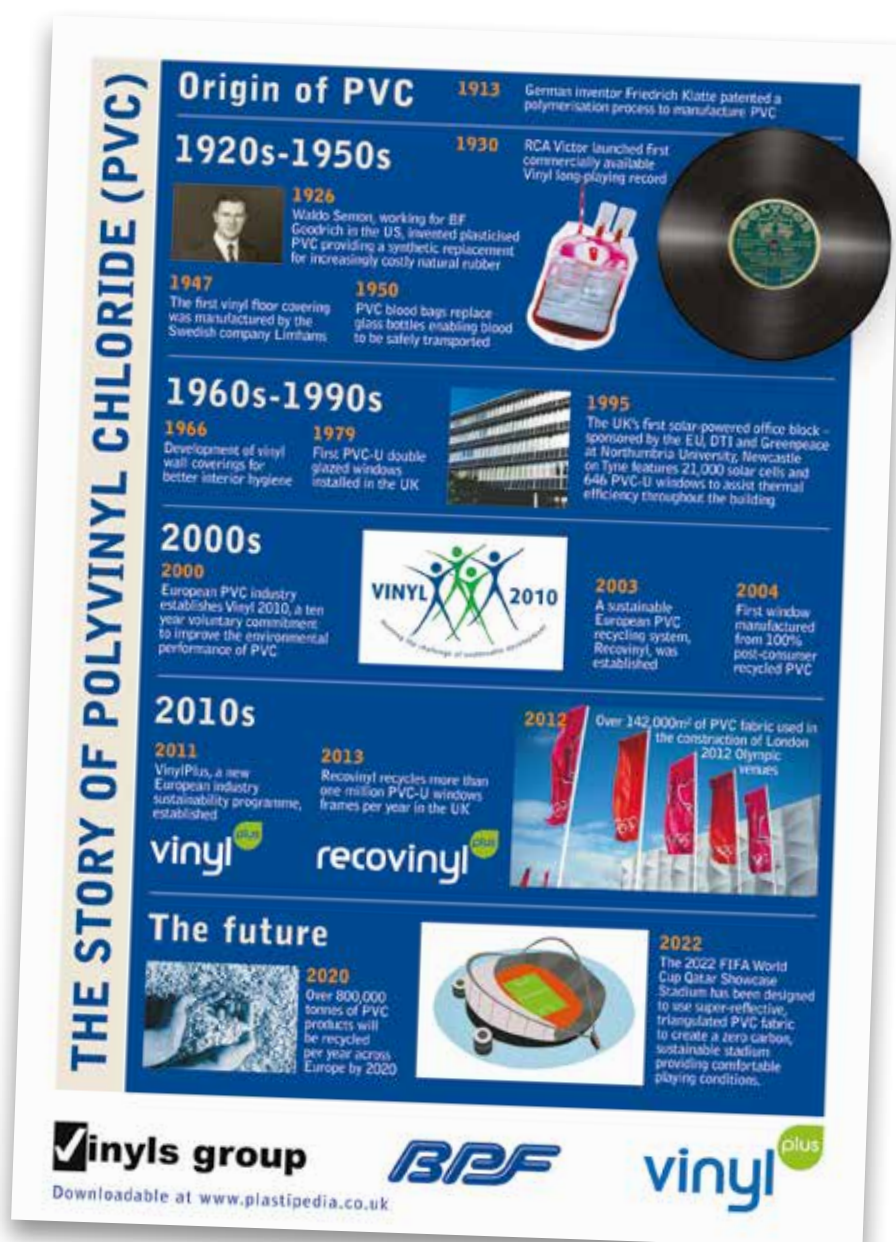
The Group's successful programme of communications projects continued during 2013, developing a number of new tools for industry to exploit. This included a new animated video looking at the energy and carbon emissions savings achievable by choosing PVC products. The video highlights how choosing PVC products can result in significant energy savings without incurring extravagant costs.

In June 2013, the Group also launched a new pocket-sized leaflet, '12 Good Reasons to Specify PVC Products' providing supporting information on why PVC is hard to beat as a resource and cost efficient material. The aim of the leaflet to encourage a large group of 'PVC ambassadors' who can have ready access to the key facts about PVC in their top pockets whether it be in their professional or social lives.

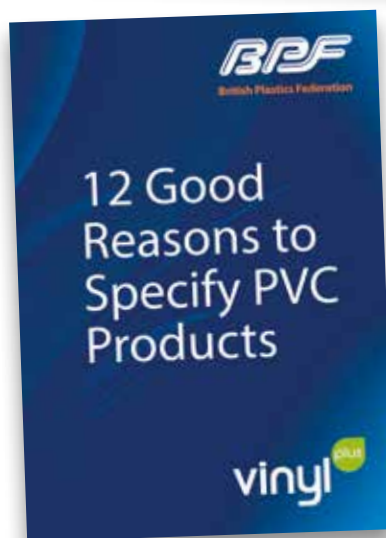
2013 also marked 100 years since the first patent for PVC was granted to the German inventor, Friedrich Klatte. In testament to the significant developments within the PVC industry over the past century, the Vinyls Group developed a timeline poster and accompanying pull-up which has been on display at key events during 2013.

On 3rd October, the Vinyls Group hosted their 14th annual seminar at the Etihad Stadium in Manchester. An audience of over 60 industry delegates heard updates on the progress of VinylPlus, paying further tribute to the progress of the PVC industry particularly in relation to sustainability and environmental credibility, as well as case studies from Epwin, Altro Floors and Fife Council.

The Vinyls Group have been successful in securing funding for two further projects to be undertaken during 2014. The first project will focus on addressing de-selection of PVC products in public procurement. The second project, in conjunction with Axion Consulting, will be a feasibility study looking at the potential for collecting used PVC medical products for recycling.



Above: the timeline poster celebrating 100 years since the first patent for PVC



Left: the pocket-sized leaflet, '12 Good Reasons to Specify PVC Products'

"There are cases where, for health & safety reasons, the only solution is a PVC based material"

London 2012 Learning Legacy Document

Polyurethane Flexible Foam Group (FFG)

Chair **Ian Leicester, Carpenter Ltd**

Throughout 2013, FFG has continued to promote and represent the interests of the UK flexible foam industry at both national and European levels.

Main Aims in 2013

- 1** To identify the latest REACH, and health, safety and environmental issues, and to determine what actions are required to ensure that the UK polyurethane flexible foam industry meets the requirements of such legislation or market demands.
- 2** To ensure that the UK polyurethane flexible foam industry is fully represented, both on the Board and Technical Working Groups of EUROPUR (European Association of Flexible Polyurethane Foam Blocks Manufacturers).
- 3** To liaise independently, or via the British Plastics Federation, with UK Government, especially the Department for Business, Innovation & Skills (BIS), the Health & Safety Executive and the Department of Environment, Food and Rural Affairs (DEFRA) on relevant matters.
- 4** To improve communication on fire and flame retardancy topics through regular meetings with the European Flame Retardants Association (EFRA).
- 5** To participate in the relevant BSI, CEN and ISO standard committees to ensure that the interests of the UK polyurethane flexible foam industry are represented.

2013 Activities

Standards

FFG has continued to supply experts to UK and European technical committees in the revision of existing, and the construction of new BS, CEN and ISO standards.

UK

Throughout the year FFG has strongly participated in the BIS review of the Furniture & Furnishings Fire Safety Regulations. We continue to voice our concerns on any relaxation of requirements.

It is a continuing responsibility of FFG to advise members about any potential restrictions on chemicals within REACH which may arise in the future. The CLP Regulation requirements are also covered.

Two meetings were held with EFRA during the year, which enabled FFG to be kept up to date with relevant activities in Europe and the USA and for EFRA to be informed of activities in the UK.

FFG are now active in the BPF H & S Group and by this membership are now able to advise its members, as well as encouraging participation in the SIMPL initiative.

Europe

FFG has actively participated in the EUROPUR Product Stewardship & Impurities Working Groups, which cover all aspects of flexible foam product properties and associated processes.

FFG, over the year, has held a series of discussions with the Secretary General of

David Waite

Flexible Foam Consultant

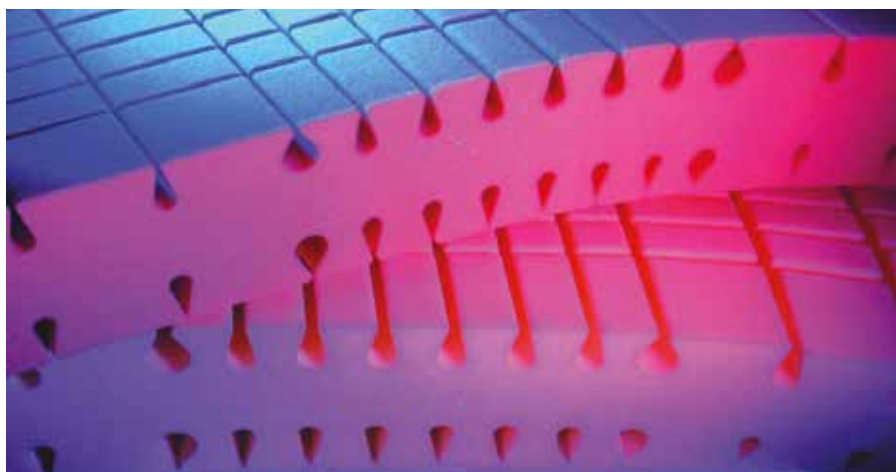
TELEPHONE
01424 882 961
EMAIL
office@dwaite.
demon.co.uk



EUROPUR to ensure that he is fully briefed on the application of flame retardants when he attends meetings of the European Ecolabel EUEB meeting for bed mattresses on behalf of the European polyurethane flexible foam industry.

Converters' Section

The section has met twice during 2012. At both meetings BPF provided, at Members' request, external speakers on matters of interest to them i.e. R & D tax credits.



BPF Business Groups

Jonathan Bloom

Senior Executive –
Industrial Issues

TELEPHONE

020 7457 5013

EMAIL

jbloom@bpf.co.uk



Sara Cammarano

Industrial Issues Executive

TELEPHONE

020 7457 5013

EMAIL

scammarano@bpf.co.uk



Moulders and Specialist Processors Group

The BPF Moulding and Specialist Processors Group represents and promotes the interests of BPF Members producing technical components through a variety of processes including injection and blow moulding.

Membership of the BPF Moulders and Specialist Processors Group brings with it many benefits including bench marketing studies; health and safety guidance; sales, marketing and international networking opportunities; exclusive access to European bodies and sales lead development. Since the launch of an online lead system in 2007, over 1000 leads for BPF members have been generated.



Among items currently being discussed are ways of improving training facilities; greater energy efficiency encouraged by the BPF climate change agreement; improved health and safety in the industry;

and wider exploitation of social media.

Dedicated seminars and newsletters will be issued in 2014 that will also see the first publication of a monthly educational newsletter.

Rotational Moulding

Chair **Karen Drinkwater**

The Group's membership continued to expand with 5 new members in 2013.

Their programme of activities included a seminar to explore rotational moulding tooling and associated issues on 25 April 2013. It provided 70+ delegates with the opportunity to explore the tooling process in order to help companies to continue to



The Rigid Plastics Packaging Group

Chair **Bruce Margetts, RPC**

The BPF's Packaging Group represents manufacturers of all types of plastic packaging, including bottles, drums, trays, cups and vending packaging, containers and protection packaging.

With an increase in the amount of negative media surrounding plastics packaging, the Group opted to fund a YouGov poll project that would target misconceptions held by consumers about the environmental impact of plastics.

The Packaging Group booklet was officially launched on 29 April 2013, which was designed to highlight the key benefits of plastics packaging to Government, Local Authorities, Consumer bodies and other Non-Governmental Organisations. In addition to this, the BPF launched a microsite for The Packaging Group which can be found at www.bpfpackaginggroup.co.uk

Furthering the positive image of plastics packaging, the BPF mounted a display on plastics and the industry in the reception area of The Department for Business, Innovation & Skills (BIS) located at 1 Victoria Street, London, SW1. The exhibition featured a display board demonstrating the sheer size and breadth of the UK Plastics industry, as well as including important



facts about the plastics packaging industry.

On 25 June 2013, in conjunction with PAFA and Plastics Europe, the BPF hosted a 'Plastics 2020 Parliamentary Reception.' The reception was very well attended by MPs and industry professionals alike, with all three organisations calling upon the Government to act on four fronts: bringing an end to the disparate collection performance across the country by Councils, greatly increase the Landfill Tax to drive recyclables away from landfills, ensure that the Quality Action Plan is followed through and to introduce incentives to reward purchasers of packaging for using more recycled content.

On 21 November 2013, the BPF hosted a successful 'Plastics In Packaging' seminar at the BPF offices in London. Attendees were joined by speakers from the Department for Environment, Food and Rural Affairs (Defra), Sense About Science and Boots.

The BPF are keen to get involved with UK Government consultations and 2013

Laura Hindley

Industrial Issues & Communications Executive

TELEPHONE
020 7457 5043

EMAIL
lhindley@bpf.co.uk



was no different. The BPF responded to a number of 2013 Government consultations on behalf of the Packaging Group, including LGA Local Waste Review, Review of Producer Responsibility, EU Green Paper on Plastics and Waste, WRAP Funding and Defra Waste Prevention. In addition to this, the Packaging Group Executive represented the BPF on the WRAP committee, which looked at how the industry supply chain can reach the targets set by Defra.



develop and innovate.

The Group also made a major contribution at this year's Subcon Exhibition at the NEC, a show aimed at promoting manufacturing excellence within the UK, giving a presentation, 'Rotomoulding – the Why & Who', introducing rotational moulding processes and case studies to the audience.

To fulfil the Group's drive to promote the industry, the Group has created a presentation promoting the advantages of Rotational Mould, which has so far been

delivered to students the Universities at Wolverhampton, Birmingham, Warwick, Bradford and Leeds.

The Group is about to establish a Technical Working Group and is already involved in a number of BPF EU funded projects, among which the just completed Rotofast project. Rotofast is deemed a great success; the Project Committee has applied for two patents and its technology is available to all BPF members.



BPF Business Groups

Composites Group

Chair **Lee Forbes, Forbes Group**

The BPF Composites Group represents the composites industry in the UK. The Group includes resin and additives suppliers, processors, machinery and equipment suppliers, and research based companies.

The Group safeguards and enhances the image of composites and the Composites Industry with Government, non-governmental organisations, customer sector and the media. Through the BPF it participates in a variety of trade shows such as PDM, Interplas, Engineering Design

Show, Advanced Engineering Show and also works on technical issues including the formulation of standards through BSI various committee.

The Group has a particular strength in chemical plants and has been crucial in developing standards that fall under the new Pressure Equipment Directive.

Regular fortnightly bulletins keep members up-to-date on key issues and BPF news.

The Group aims to start a monthly educational Group newsletter during 2014 with the input of its members.

A seminar on Thermoplastic Composites will be held during February 2014.



EPS Group

Chair **David Emes**

The Expanded Polystyrene Group was formed in January 2009 to provide a more focused effort on behalf of the industry, following a merger of the BPF EPS Construction Group and the BPF EPS Packaging Group.

The Group represents 80% of the expandable polystyrene manufacturing industry in the UK and works to provide authoritative, reliable information to companies and individuals seeking independent facts about the performance of the material.

The Group provides guidance to organisations wishing to recycle used EPS and our Members can provide detailed technical advice.

The EPS Group launched a fishbox website, accessible at www.fishboxes.info, and is delighted to announce that it has now been adopted by EUMEPS where an international tab has been added to the site.

The EPS Group works alongside the National Blow Bead Association (NBBA).

The NBBA website receives 500-600 hits per month and will be shortly revamped with a new design and up to date information and facts about the industry. A short video, showing injection of bead into cavity walls and water penetration, will be commissioned and added to the NBBA website.

As the limit of HBCD for classification as hazardous waste remains to be confirmed,



the group is moving ahead, together with BPF, in addressing the issue, actively participating in seminars and meetings on the topic.

The Group is represented on the BPF's Fire Safety Committee.

In 2012 the Group began sponsoring work in collaboration with the National House Builders Confederation looking at the performances of various cavity wall insulation systems. The project is due to be completed by the end of 2014 and it

is deemed to offer great support to the growth of blown bead in new building applications.

The Group is very active in funding research projects aimed at helping the industry, either by improving and facilitating EPS recycling or by promoting it through various initiatives such as imparting messages through websites and videos. The Group is a strong participant in EUMEPS as a European forum for the EPS Industry.

Windows Group

Chair **Martin Althorpe, Epwin Group**

Representing the interests of the entire PVC-U windows supply chain, the mission of the BPF Windows Group, along with window system companies, raw material suppliers, additive suppliers, fabricators and installers, is to position itself as the leader in the windows market.

In 2013, the Group published a useful guide to window and doorset CE Marking for fabricators. The document, prepared in partnership with British Board of Agrément (BBA) and the British Standards Institution (BSI), offers an insight into what information should accompany CE Marking in the UK. Under the new Construction Products regulations, from 1 July 2013, CE Marking became mandatory.

The Group's 2012 communication programme also included a 'marketing

day' to inform and coordinate the Group's efforts to promote and raise awareness of the excellent performance and outstanding environmental credential of PVC-U windows.

Similarly, the Group was featured at a seminar during the fabricator and installer trade show, 'FIT Show', where delegates were enlightened with effective marketing tools available. Some of the topics covered in the session included how to communicate positive messages through the supply chain and how to overcome negativity towards PVC.

Most of these marketing tools can also be found at the recently refreshed dedicated BPF Windows Group website; making sourcing information on PVC-U windows easier than ever. The structure of the site has been carefully crafted to ensure all relevant information is more visible and easier to find for all users. Similarly, a working group has ensured the content



Cellular PVC Group

Chair **Dave Osbourne, Swish Building Products**

The Cellular PVC-U Group represents the interests of all those involved in the production of PVC-U roofline and cladding products, ensuring industry best practice.

In 2013, members of the Group cooperated to resolved technical

issues facing the industry, contributing significantly to the work concerning the foaming agent Azodicarbonamide (ADCA) and its potential listing under Annex XIV.

The Group has direct links with BSI, BBA and European trade associations to influence both UK and EU standards.

Francisco Morcillo

Executive - Industrial Issues

TELEPHONE
020 7457 5037

EMAIL
fmorcillo@bpf.co.uk



of each page is user-friendly, useful and provides the information companies within the industry need.

With an increased influence from Europe in UK legislation, the priority of the Group has been the revision of Building Regulations and the new labelling scheme for responsible sourcing of PVC. The Group has met with key decision makers from the Government, the Construction Products Association and the European PVC Window Profile and Related Building Products Association (EPPA) in its mission to support the industry to ensure it is well-placed to meet and exceed demands.

In 2014, the Group looks forward to continuing and expanding its crucial work, as the industry strives to surpass the challenges of legislation, in addition to environmental, consumer and ethical demands.



Sheet and Coated Fabrics Group

Companies involved in the production of plastic sheets and coated fabrics for construction continue to cooperate to maintain the high standards of the sector.

Members of this Group contributed significantly to the work of the Vinyls Group, responding to environmental issues whilst keeping abreast of legislative developments and standards affecting the sector.

BPF Business Groups

Francisco Morcillo

Executive -
Industrial Issues

TELEPHONE
020 7457 5037
EMAIL
fmorcillo@bpf.co.uk



Recycling Group

Chair **Roger Baynham,**
Philip Tyler Polymers

The Recycling Group looks after the interests of the companies involved with a full range of activities related to converting waste plastic into resource polymer material. Some of the leading plastic recycling companies in the UK form the backbone of the Group, which acts as a focal point for the industry, the Government and the general public on relevant matters and information.

The Group encourages co-operation between recyclers and processors, as well as with stakeholders throughout the supply chain, in its aim to promote and incentivise the use of recycled plastics.

The Group, an active member of the industry's continent-wide association Plastics Recyclers Europe (PRE), has been successful in its lobbying of both Government and legislators and has a direct line of communication with the Department for Environment, Food and Rural Affairs (Defra). This is in addition to building strong connections with WRAP (Waste and Resources Action Programme) and other recycling organisations in the UK and abroad.

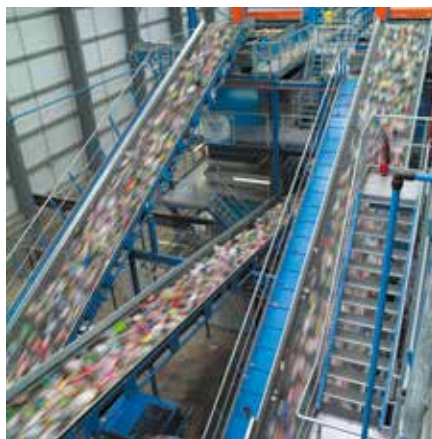
In 2013, in its mission to be the primary voice for the UK plastic recycling industry, the Group led the discussions over the PRN/PERN system reform. The Group highlighted the unfairness of the system giving advantage to exporters of plastic waste over UK reproducers in 2012 and the fact has been echoing through the whole supply chain.

Furthermore, and as a flagship proposal, the Group published a new paper aiming 'to encourage and incentivise the use of recycled plastics in UK manufacturing'.

The proposal sets out the importance of securing end markets for recycle to achieve a sustainable green economy.

This 'offset model' is an alternative compliance mechanism for obligated producers that allows producers to meet part of their recovery and recycling obligation for UK packaging waste. The model directly funds the recycling of UK packaging waste by specifying the use of UK packaging waste in a new product or packaging application that they intend to place on the market.

This proposal came about as a result of the group's quest to become the leading body contributing to the achievement of new and challenging plastics recycling targets, and it has gained full support by Defra and by many key players from the whole supply chain.



ECO Plastics' sorting facility



Recycled granules

Directly linked with the 2017 targets is a report, commissioned by the group in response to a request from the Advisory Committee on Packaging (ACP), which corroborates recycling rates. The report has analysed the National Packaging Waste Database (NPDW) returns and concluded the quantity of plastics packaging placed on the market currently calculated to be 2.5MT is over – stated by 300-400KT per annum. The report also indicates that Defra has assumed an inflated growth rate for plastic packaging placed on the market that is over optimistic.

These issues were the focal point at the annual plastics recycling event, REPLAST 2013, which was held at the Institute of Materials, Minerals and Mining in London. The event examined the factors to drive manufacturing using recycled plastics, and was comprised of an impressive programme of presentations, including a keynote address from Mark Pawsey MP, who provided a Conservative Party perspective on the government recycling approach.

Similarly, the Group exhibited at the RWM exhibition from 10–12 September at Birmingham NEC. The event, which claims to be the leading European Resource Efficiency and Waste Management Solution show, had more than 750 exhibitors. The stand was heavily used by visitors as a one-stop shop for accessing UK plastics recycling industry information, as well as for getting contact details for member firms wishing to buy or sell recycled material.

The Industrial Plastics Welding and Fabrication (IPWAF) Group

The Industrial Plastics Welding and Fabrication (IPWAF) Group includes (but is not exclusive to) manufacturers, distributors, fabricators, stockists, equipment suppliers, contractors and laboratories.

The Group's mission statement is: 'to be recognised as the leading membership body representing industrial plastics welding and fabrication.'

The aim of the Group is to foster a high level of professionalism in the areas



of design, product development, manufacturing, marketing and sales activities of its member firms and the wider industrial plastics fabrication and welding industry in the UK.

Justyna Elliott

Senior Business Development Executive

TELEPHONE
020 7457 5001
EMAIL
jelliott@bpf.co.uk



Angela Fredericks

Business Development Executive (maternity cover)

TELEPHONE
020 7457 5001
EMAIL
afredericks@bpf.co.uk



Equipment Group

The BPF's Equipment Group consists of machinery manufacturers, ancillary equipment, as well as software support and machine monitoring. As of 31 December 2013 the Group was made of 31 members. Those who joined the Group in 2013 were: Ashe Converting Equipment, Hi Tech Automation, Lacerta Technology Ltd, Negri Bossi, Plastikcity Ltd and Vecoplan Ltd.

Some of the Equipment Group

Members exhibited at the K 2013 fair in Germany and others took part in major trade shows with the UK Pavilions run by the BPF. A lot of the machinery members are active exporters and most of them work with UK Trade & Investment, reaching the grants and other support available to them.

The Equipment Group Members had the opportunity to learn about the Brazilian plastics industry and opportunities of the market at a seminar organised by the BPF. Held on 14 May 2013 at the BPF offices, the interested exporters were able to expand

their knowledge about website sales to reach international audiences through a workshop supported by UKT&I.

Equipment Group Members welcomed some good news, in that UK Trade & Investment grants to support companies who are exhibiting at foreign trade shows can reach £3,000.



BPF Business Groups

Caroline Ayres

Plastic Pipes Group
Director

TELEPHONE

+44 (0)193 234 3409

EMAIL

carolinea@
plasticpipesgroup.com



Plastic Pipes Group

President **Martin Gisbourne, Aliaxis**

The Plastic Pipes Group (PPG) has been representing UK manufacturers of plastic piping systems since 1962.

At the core of its activities, the PPG is dedicated to promoting the development, acceptance and usage of manufactured plastics piping systems for all applications in the Building, Construction, Industrial, Civil and Utilities Industries. In 2013 the PPG launched a new website to serve as an information centre for the PPG and its members. Through it, the PPG provides up to date information on the important British plastic pipe systems industry and connects its members with interested parties from all over the world.

2013 has been another busy year for the PPG and its members. As market conditions begin to show improvement, members are ready to meet the demands of the government's proposed investment in infrastructure and new housing. Although a mature industry and market leader in many fields, the plastic pipes industry is constantly facing new challenges, both

Regulatory and meeting the challenges of new construction methods and new requirements.

Plastic pipe applications have dramatically increased in the last 50 years. Within the Building Services sector plastic pipes are utilised in new build and increasingly in renovation projects in many applications such as hot and cold water, heating and cooling (including underfloor heating), ventilation, air conditioning, sprinklers and above ground drainage in the form of soil, waste, overflow, and rainwater guttering and down pipes etc.

The Civils and Utilities sectors increasingly use plastic pipes in the water industry in drinking water distribution, sewerage systems, management of waste water from buildings and collection and dispersal of rainwater. Many PPG members manufacture modular cell systems for water attenuation. The gas industry has incorporated the use of plastic pipes for low pressure situations and thermoplastic and reinforced plastics are now much more widely used in higher pressure applications. Specialised plastic piping systems are also increasingly used in highly aggressive industrial applications.

2013 saw the implementation of the

Construction Products Regulation and the consequent introduction of compulsory CE marking of construction products. This represented some diverse challenges for PPG members – firstly, implementing CE marking for the few products which can be CE marked and secondly, explaining why the majority of members' products cannot bear the CE mark (no Harmonised Standards!) However we are hopeful that work on the Harmonised Standards is finally drawing to a conclusion and CE marking for plastic piping systems will become a reality. The PPG is now preparing for the challenge of educating the market regarding the meaning and implications of CE marking.

2014 will see many more challenges for the PPG and its members – CE marking, the implementation of the governments Floods and Water Management Act, the development of the Governments unified specifications for sewers and also for Surface water drainage systems, the continuing work on European, International and British standards, to name just a few. However, by working together we can ensure that plastic piping systems can address the challenges and meet the needs of the future.



BPF Central Expert Committees

The BPF's Central Expert Committees provide scope for membership participation, exchange of industry experience and the formulation of common policy and action

programmes relating to the subject focus of the forum.

The BPF invites all representatives of Member Companies with an interest in the areas covered by any of these Committees to become involved.

Product Safety Committee: REACH & Regulatory Issues

Chair **Chris Howick, INEOS ChlorVinyls**

The Product Safety Committee provides a forum for Members to access advice and guidance in relation to developments in existing and new legislation affecting the use of plastics in articles. The Committee also plays a key role in the BPF's lobbying activities.

REACH maintains its position as the key topic of discussion however the Committee's agenda also includes a variety of other product safety and chemicals issues including:

- Plastics in contact with foodstuffs
- Plastics in medical applications
- Plastics in potable water application
- Plastics in construction
- Plastics in toys
- General product liability issues

Assistance and guidance from the Committee is provided to the wider BPF Membership through the BPF Newsletter as well as via online content available at www.bpf.co.uk. A key resource for Members who require further information on REACH can be found via the BPF REACH Toolbox, http://www.bpf.co.uk/REACH/REACH_Plastics_Toolbox.aspx

In an ever changing legislative landscape, the Product Safety Committee acts as the front line in representing the wider plastics industry when responding to negative publicity and media scares. This has been particularly evident during 2013 regarding legislative developments related to the blowing agent Azodicarbonamide. An Industry Forum, chaired by Chris Howick was hosted in May 2013 to ensure all relevant industry stakeholders were kept abreast of developments.

Meetings of the Product Safety Committee are open to representatives of all BPF Member Companies with an interest in this area.

Sarah Plant

Senior Executive - Industrial Issues

TELEPHONE
020 7457 5015
EMAIL
splant@bpf.co.uk



Francisco Morcillo

Executive - Industrial Issues

TELEPHONE
020 7457 5037
EMAIL
fmorcillo@bpf.co.uk



Fire Safety Committee

Chair **Christine Lukas, DOW Chemicals**

The Fire Safety Committee provides an essential forum for ensuring BPF Members' views are adequately represented in the area of fire performance standards and legislation.

The Committee also acts as a key advisor to the Federation in responding to enquiries relating to the safety of plastics in fires. As high profile fires continue to attract

media coverage, Fire Committee members are on hand to provide their expertise where the safety of plastics may be brought into question.

The Committee is committed to monitoring UK, EU and international developments in aspects of fire performance and regulation related to plastics. A key activity for the Committee during 2013 and continuing into 2014 will be to establish cross sector support to improve and enhance industry participation

in the development of international standards related to plastics and fire.

Committee members continue to work in the interests of the wider Federation, providing representation on a number of UK and International Standards Committees.

Meetings of the Fire Safety Committee are open to representatives of all BPF Member Companies with an interest in this area.

BPF Central Expert Committees

Francisco Morcillo

Executive -
Industrial Issues

TELEPHONE
020 7457 5037

EMAIL
fmorcillo@bpf.co.uk



Industrial Health and Safety Committee

Chair **Mike Jones, Distrupol**

The BPF is committed to the achievement of the highest standards in Health and Safety for the Plastics Industry. As such, the BPF Industrial Health and Safety Central Committee meet regularly and closely monitor H&S issues for the industry.

The Committee has created a new LinkedIn Group for members of the BPF with an interest in health and safety. This new initiative serves a forum where health and safety issues can be discussed with other experienced professionals from within the plastics industry. The forum runs alongside the current support service that the Industrial Health & Safety provides on the topic 'What's your Question?' which is featured on the BPF Health & Safety mini website.

The Industrial Health and Safety

Committee is a key source of expertise and information on health and safety issues related to the plastics industry. Members of this committee are a knowledgeable and committed group of individuals, with a shared interest on achieving the highest standards in health and safety.

In 2013, the BPF Annual Accident Survey, run through the committee, indicated a general downward trend in number of accidents, which was excellent news for the industry. The most common accidents were caused by cuts and accidents caused by hitting a stationary object. Following closely in the rankings were injuries whilst handling, lifting or carrying and slips/trips/falls. With a record number of responses from company members, the Annual Accident Survey has become a highly valued benchmark for the safety performance of the plastics industry in the UK.

In April 2013, the BPF held its annual Health and Safety seminar, which took place at the Polymer Training and Innovation Centre in Telford. The seminar was a sold-out event, demonstrating the industry's interest for improving health and safety standards across the UK.

The Committee is the driving force for the development and progression of the Safety in Manufacturing Plastics (SIMPL) initiative. SIMPL is a partnership with the Health and Safety Executive, and other trade association and unions, with a joint objective of reducing accidents and ill-health within the plastic industry.



Safety in Manufacturing Plastics (SIMPL)

2013 has been the last year of the SIMPL strategy's life cycle and BPF has led the way to ensure that all members benefit from the BPF's guidance and support.

SIMPL's preferred suppliers, Martor Safety Knives and Zurich Insurance, have been key to the success of the initiative contributing with valuable assistance and help throughout the year.

Statistics from the BPF's Annual Accident Survey showed better performance in 2012 from SIMPL members, compared to reportable accidents from the plastic industry as a whole.

In 2013, BPF and the other SIMPL partners finalised the details for the new SIMPL strategy which will run from April 2014 to the end of 2017. SIMPL will set ambitious targets on accident reduction and will feature the launch of an audit tool that will help BPF members to monitor their H&S performance.



Research & Development Projects

The BPF's involvement in European Projects has become a regular feature of the BPF's activities, not only to the benefit of our membership base – by helping our members to create competitive advantage – but also increasing our international exposure and contacts.

2013 sees a shift change in European funding for SMEs around Europe, with several well-known schemes closing and some consolidation taking place, which we are, of course, seeing on a National basis around Europe. The 7th Framework Programme – FP7 as it's more commonly known – formally closes in 2013. The new scheme, called Horizon 2020, will see some significant changes from FP7, with the European Commission (hopefully!) making it easier for SME's to participate. There will be also an increased overall budget from FP7 to Horizon 2020.

There will however be some overlap between FP7 and Horizon 2020, as we see the final 'negotiations' for FP7 still taking place in early 2014, where some FP7 budget remained.

FP7 however remains the major funding scheme for the BPF's project activities.

Rotofast

ROTOFAST

The Rotofast project – concluding in 2013 – focuses on the rotational moulding industry and developing energy efficient systems, reduce cycle times, without becoming more expensive.

Rotofast developed a series of promising results including:

- an integrated cooling and heating system
- optimised heating & cooling cycles reduce by 50% the production cycle time
- 70% energy consumption reduction, compared to conventional machines

The project's website has been updated and is available at www.rotofast.eu

Rotofast is part-financed by the European Commission's 7th Framework Programme (FP7/2007-2013) under Grant Agreement Number: 243607

Nanoflex



The GreenFlexTube project – concluding in 2013 – has developed a prototype universal flexible plastic pipe system, suitable for under-floor heating, radiator heating and drinking water distribution. The benefit of this new system will be that 100% of the pipe scrap is recyclable.

The project website is visible at <http://www.greenflextube.org/>

Nanoflex is part-financed by the European Commission's 7th Framework Programme (FP7/2007-2013) under Grant Agreement Number: 243725.

SupercleanQ



The goals of the SuperCleanQ project are to develop quality control and quality assurance tools and procedures for plastics recycling processes targeted at food contact applications.

The tools will be applied to a new

Tim Marsden

Senior Projects Executive



TELEPHONE
020 7457 5017

EMAIL
tmarsden@bpf.co.uk

process for the recycling of coloured and layered PET into food contact applications that cannot be processed by current PET recycling facilities. The project results will accelerate the development of new recycling processes for the wider food contact materials market and provide quality assurance for converters and end-users of recycled products applications for food contact, thereby overcoming barriers and expanding this high value recycling market.

The partners will be working closely with CEN/TC 249 to establish a Technical Specification for the project during 2014.

The project website can be viewed here: <http://www.supercleanq.eu/>

SuperCleanQ is part-funded under the European Commission's 7th Framework Programme (FP7/2007-2013) under Grant Agreement Number 285889.

PolySolve

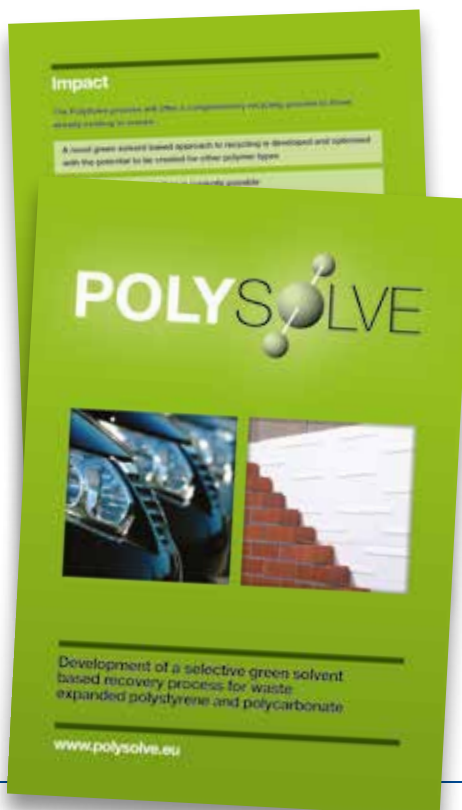


The PolySolve project commenced in November 2011 and is working towards the "development of a selective, green solvent-based recovery process for waste (EPS and PC"

The technology will build on the results achieved under the UK-TSB funded "HiPerPol" project whereby solvent based systems have already been developed for the selective separation of PVC and PE from mixed plastic waste streams. The extension of this technology to PS and PC will increase its capability to deal with higher volumes of mixed polymer waste.

The project website is www.polysolve.eu

This project is part-funded under the European Commission's 7th Framework Programme (FP7/2007-2013) under Grant Agreement Number 283707



Research & Development Projects

HiPerDry



HiPerDry aims to develop and implement a novel microwave-enhanced superheated steam process for high performance drying of hygroscopic polymers in order to improve the overall energy efficiency, thus facilitating economical production of hygroscopic polymers as well as substitution of imports from countries outside the EU

HiPerDry will resolve the current limitations in the state of the art for drying hygroscopic polymers by:

- reducing energy consumption through effective means to thermally remove moisture (bound water) from hygroscopic polymer granules,
- shortening drying and processing time with enhanced heat and mass transfer mechanisms,
- improving product quality attributes by avoiding degradation due to oxidation and overheating

The project website can be viewed <http://www.hiperdry.eu/>

This project is part-funded under the European Commission's 7th Framework Programme (FP7/2007-2013) under Grant Agreement Number 606425

EuroPHA



The EuroPHA project seeks to develop 100% natural and biodegradable bioplastic formulations for food packaging applications based on PHA.

In order to establish a competitive PHA production capacity in Europe, EuroPHA has the following objectives:

- reduction of PHA production costs: using low-value feedstock

(agro-food waste/surplus streams) as starting material in three-phase biological synthesis of PHA by mixed microbial culture,

- Environmentally friendly & cost-effective PHA extraction step,
- novel formulations of PHA for 100% complete and short-time biodegradability packaging bioplastics by current industrial technology

The project website is www.europha.eu
This project is part-funded under the European Commission's 7th Framework Programme (FP7/2007-2013) under Grant Agreement Number 604770

TDM Seals



TDM-SEALS project aims to develop a novel production processes for the fabrication of low-friction plastic and

rubber seals, at competitive prices. We propose using surface texturing of the components during the moulding, to achieve a reduction in the seal dynamic friction of >20%. Furthermore, the production process for surface textured seals will be optimised by reducing the production-cycle time related to the demoulding difficulties. To achieve this aim a novel ceramic coating for the moulds will be developed.

The project website is <http://www.tdm-seals.eu/>

This project is part-funded under the European Commission's 7th Framework Programme (FP7/2007-2013) under Grant Agreement Number 298647

Next1Koat



NEXT1KOAT will give European woodworking and furniture manufacturers a long-lasting solution by developing the first 1K, High Solids and Water Based finishing system for both outdoor and indoor uses with advanced properties:

- less water content
- reduced drying time
- improved wood wetting without the use of surfactants
- increased hardness.

NEXT1KOAT will be produced by European SME coating manufacturers, due to its affordable chemistry, based on seaweed polymers.

The project website is <http://www.next1koat.eu/>

This project is part-funded under the European Commission's 7th Framework Programme (FP7/2007-2013) under Grant Agreement Number 304998.

Cost-Effective Low Friction SEALS by Texturing during Moulding Technology

TDM-SEALS project aims to develop novel production processes for the fabrication of low friction plastic and rubber seals, at competitive prices. We propose using surface texturing of the components during the moulding, to achieve a reduction in the seal dynamic friction of >20%. Furthermore, the production process for surface textured seals will be optimised by reducing the production-cycle time related to the demoulding difficulties. To achieve this aim a novel ceramic coating for the moulds will be developed.

Benefits

- Affordable low friction sealing solutions that decrease their operational cost**
- Affordable sealing solutions that reduce their energy consumption**
- Affordable sealing solutions with enhanced tribological properties reducing the risk of leakages**

Partners: BPF, OMEX, ISTA, Wipac, etc.

TDM-SEALS

www.tdm-seals.eu



'hidden' penalties: PLC software is brand dependent.

The aim of the project is to develop a software tool for developing PLC programs with the following features:

- based on the Object Oriented approach, but using an industrial model for the design of the components that constitute a PLC programs
- the design of the objects includes built-in capabilities for performing not only their specific task, but also for exchanging data with external supervision programs
- library maintenance tools for easy storage and retrieval of developed objects
- brand independence.

The project website is <http://www.plc-prog.eu/>

This project is part-funded under the European Commission's 7th Framework Programme (FP7/2007-2013) under Grant Agreement Number 243484

Greenpack

Greenpack is a three year research project, which started in December 2013, aiming to develop a "fully recyclable 100% PET package for food contact with O₂ barrier, improved transparency and low CO₂ footprint" The research work is in its infancy and will continue to be worked upon for the 3 year duration of the project.

This project is part-funded under the European Commission's 7th Framework Programme (FP7/2007-2013) under Grant Agreement Number 605698

CALMARE

CALMARE is a £1.8m centre set up to support South West businesses involved in composites and plastics. Funded by the ERDF, the University of Exeter and industry partners, it provides companies with access to the expertise, advice and technology to help them improve their products and processes.



Funding was awarded by the ERDF to help support and develop the industry within the South West.

SMART



End of Life Tyres represent both a waste problem and a resource opportunity, for both the society and the large recycling trade community. Even though tyres are 100 % recyclable and their chemical and physical properties make them an outstandingly valuable resource, still energy recovery and land filling constitute the greatest share of destination.

SMART technological objectives are to realise innovative recycled rubber products in high added value sectors (sport, transport and industry) with a specifically produced machine, by means of exhausted tyres' grinding without the addition of any linking agent or virgin rubber.

The project website is <http://www.smart-recycle.eu/>

This project is part-funded under the European Commission's 7th Framework Programme (FP7/2007-2013) under Grant Agreement Number 286465

PLC-PROG



Most modern automation installations are driven by Programmable Logic Controllers (PLCs). Nowadays the low level programming languages that have been used for decades, such as Ladder Diagrams (LD), are still being used to develop new software. Besides, there are

BPF Energy Limited

Alan Davey

Finance and
Administration Director

TELEPHONE

020 7457 5000

EMAIL

adavey@bpf.co.uk



This was a landmark year for BPF Energy as a New Ten Year Plastics Sector Climate Change Agreement (CCA) was signed on 1 April 2013, securing climate change levy (CCL) discount for the industry and opening the door to recruitment of new partners into the Agreement.

Consequently, during 2013 the major priority for BPF Energy was to support the implementation of the New Scheme Agreement and to recruit new CCA partners

to it. This necessitated working closely with DECC and its agencies: the Environment Agency (EA) and Ricardo-AEA.

With recruitment into the New Scheme possible partners grew to 306 sites (2012: 256) in the BPF CCA.

In terms of financial results, BPF Energy Ltd, who manages the plastics sector CCA on behalf of the BPF, had a very satisfactory year.

Total income for the 2013 at £786,242 grew 17.7% and was £118,410 higher than in 2012, due largely to new CCA partner recruitment.

Administrative expenses for 2013 at £783,571 were £115,532 higher than the previous year as a result of both increased partners and payment of EA fees, leaving a £2,435 surplus after tax (2012: £14).

In the year, BPF Energy sponsored a number of energy communications and the BPF Annual Dinner at which the BPF Energy Award was presented. Congratulations to the Winner DS Smith Plastics Foam Products and to Radius



Systems as Runner-up.

In the year we also welcomed the increase in electricity CCL discount to 90% from April 2013; although much work remains for the BPF and BPF Energy to support the sector and lobby Government on security of supply, sustainability and renewable energy.



**BPF Energy Award
Winner: DS Smith
Plastics Foam Products**



**BPF Energy Award
Runner-up:
Radius Systems**

Knowledge Transfer Network

The BPF has continued to work in partnership with the Materials Knowledge Transfer Network (Materials KTN) to provide innovation support to the plastics industry. The Materials KTN leads on knowledge exchange activities involving materials developments that underpin innovation in key application sectors. At the heart of the KTN lies the capability to harness the UK's well established and highly regarded position in the understanding of materials and, in collaboration with product design excellence, it provides a range of innovation support which is hard to challenge. Materials KTN activities help to deal with issues that result in better utilisation of raw materials and energy, the use of sustainable materials, integration of design at the beginning and at the end of a product's life, new manufacturing processes and techniques such as 3D printing.

Exploitation of advanced materials with controllable properties or new functionality embedded into structural elements offer the potential to open up completely new market opportunities. For example, advanced polymers can meet the demands for lightweight materials with both structural and functional capability, in the automotive, aerospace, light rail transport and leisure marine sectors. Nanomaterials such as carbon nanotubes, graphene and quantum dots can be incorporated into polymeric systems and subsequently processed to produce multifunctional components for new and diverse products, including flexible electronics.



Dr Robert Quarshie
Director, Materials KTN

It is little wonder the UK government sees advanced materials as one of the eight great technologies where the UK, according to the Science Minister, David Willetts, "can translate our excellent science into commercially successful technologies which in turn boosts our businesses, creates jobs and drives economic growth." As one of the eight great technologies, advanced materials are destined to propel the UK to future growth. The importance of materials to a country's economy has also been recognised by other leading nations. For example, in a recent German study, it was reported that 70% of all technical innovations are directly or indirectly linked to materials. Advanced Materials is recognised by the European Commission

Knowledge
Transfer
Network

Materials

as one of the five Key Enabling Technologies (KETs) to transform Europe's industrial landscape and in the USA, President Obama launched the Materials Genome programme to support US manufacturing.

The KTN's activities help to implement the UK's technology priorities for advanced materials through business access to public and private funding. Challenge areas include:

- materials for sustainable energy generation, transmission, storage and efficient usage
- lightweight materials to reduce energy consumption and emissions
- materials with reduced environmental impact and approaches to reduce use of materials that may become scarce
- high-value added materials for healthcare and for asset and personal security
- integration of new materials, coatings and flexible electronics to create smart devices
- materials to survive in aggressive environments

Much of the Materials KTN's work is in disseminating knowledge, informing government policy on technology developments, signposting to facilities, spotting innovative opportunities and helping to develop business to academic/business-to-business collaborations. The KTN is dedicated to enhancing innovation and wealth creation in the polymer industry.

Dr Robert Quarshie
Director, Materials KTN
www.materialsktn.net



**3D printed
plastic bracelet**

Business Support Network

Kim Hawksworth
Marketing Executive

TELEPHONE
020 7457 5007

EMAIL
khawksworth
@bpf.co.uk



2 013 saw a number of changes within the Business Support Network, we have welcomed four new members. The BPF regards the BSN to be a huge membership benefit and all companies within this group are able to offer a unique and tailored service available to all BPF Members at discounted rates. This group is made up of four main sectors Technical & Operations, Commercial, Recruitment & Training and Research. These companies have been chosen by the BPF because of what they represent in the market and their beneficial services our members can make use of. These companies include Solutions 4 Polymers, UL, Willis Commercial Network and Listgrove Industry Recruitment specialists all of which provide



expert support and advice primarily to our members but also to the plastics industry as a whole for non plastics related subjects such recruitment, education, training and Insurance to name a few.

The BPF also prides itself on having an Academic Organisations support system that is part of the BSN and offers key benefits. Universities such as Edinburgh

Napier University, Polymer IRC and the Polymer Training & Innovations Centre at Wolverhampton University are a selection of Academic Organisations that can assist with employee development. They offer a wide range of in house testing facilities as well as many training courses. Throughout 2013 the Business Support Network's members continued to take an active interest in its seminars and forums across the country.

Many BSN members benefitted from taking part in a number of our seminars around the country either as speaking or guests, some even took the opportunity to exhibit at trade fairs under the BPF's British Group pavilion.



The Horners' Award



The 'Airbus A350 XWB Composite Rear Spar', developed by GKN Aerospace, has been announced as the winner of the Horners Award for Plastics Design and Innovation 2013. The presentation was made on 21st October 2013 at the Horners Annual Banquet held at the Mansion House.

GKN Aerospace has developed automated processes for its A350 XWB composite spar and fixed trailing edge assembly programme. The application of state-of-the-art automated fibre placement (AFP) technology, unique to the UK, has allowed GKN Aerospace to produce cost effective repeatable lightweight components with more complex and bespoke geometries.

The judges recognised the substantial "light-weighting" and strength benefits that this Advanced Plastics Composite product brings in safety and fuel economy to the A350 Airbus. Additionally, the Advanced Automated process to manufacture the spar brings tremendous product consistency and major savings in the time and cost of manufacture. The judges found that it ticked all the boxes for choice of material, product design, product safety, environmental impact and advanced manufacturing.

Inspection of AFP laid up composite wing spar



Inspection of composite wing spar section



Airbus A350 in flight



The prestigious Horners Award, established in 1947, is thought to be the oldest extant award for plastics in the world and is a cornerstone of the Horners' many activities that support design, innovation and education in the plastics industry.

This year the Horners Award Committee was again impressed by the level of entries covering innovative products and processes. The Committee awarded the Horners' Runner-Up Award to Hozelock for their 'Growbag Waterer', a device that keeps a grow bag watered for up to 2 weeks at a time. The grow bag is placed on a reservoir that incorporates specially designed spikes that pierce the bottom of the grow bag. One of its greatest benefits is that it prevents water wastage and helps people produce local grown food with improved success.

The judges were also delighted to nominate three other products for the Highly Commended Certificate as follows: 'The Chest Drain Trainer' by Limbs & Things Ltd, Emerald Automotive's 'Thermoplastic Composite Bodied Electric Vehicle' and 'Temporary Industrial Roadway' designed by Big Bear Plastics.



The Growbag Waterer-Can in use



www.hornersaward.co.uk

BPF Annual Dinner 2013

Paul Baxter

Commercial Events &
Projects Executive

TELEPHONE
020 7457 5047

EMAIL
pbaxter@bpf.co.uk



On 11 October 2013, the BPF celebrated its 80th Anniversary Annual Dinner. This year the event attracted over 400 industry leaders to the Lancaster London Hotel in central London for what is considered the most prestigious evening in the plastics industry calendar. The 80th anniversary dinner was themed around the 'Golden Age of Hollywood' and included centrepieces made from celluloid and a red carpet entrance for guests.

This year's event was kindly sponsored by Inenco, Rosti McKechnie, Plastrubition, Gabriel-Chemie UK, Baerlocher UK and Colormatrix. Guests were entertained during the pre-dinner drinks by the piano sounds of Lily Davies, who included in her repertoire several songs from the movies. After the dinner, 'The Decades' played rock and roll classics into the early hours.

The after dinner speech for 2013 was given



After-dinner speaker Martin Bayfield

by former England international rugby player and the current presenter of 'Crimewatch', Martin Bayfield. Martin amused the audience with anecdotes from his time as a police officer as well as stories from his exploits on the rugby field and on rugby tours.

BPF President Mike Boswell of Plastrubition spoke to the audience, where he reflected on the BPF's 80 years at the forefront of the plastics industry and told the audience about the BPF's achievements in 2013. He expressed his aim to continue the work of his predecessor, Philip Watkins, and to focus on four key areas essential for the development of the plastics industry:

availability of finance; secure and affordable energy; meeting skills needs and recovery in the construction and building sector.

At the dinner, D S Smith Plastic Foam products were announced as the winners of the BPF Energy Award. The award was presented to the firm by BPF President Mike Boswell in recognition of their improvement in their index of energy utilisation. The BPF Gold Medals for 2013 were presented to Roger Mottram and Dr Jason Leadbitter. Mike Boswell, who presented the award, praised Jason and Roger on their expertise, unstinting enthusiasm, and for their work in PVC.



The top table at the BPF Annual Dinner 2013

BPF Seminars

In 2013 the British Plastic Federation created seven well received and highly successful seminars, which covered a wide range of topics important to the plastics industry.

19 MARCH 2013

Finance Available for Plastics Firms

The first event in the 2013 seminar programme provided attendees with a thorough examination of the financial opportunities available to members of the plastics industry. The event included a banking overview and presentations on R & D tax credits, treasury management and support available for UK export finance. The seminar provided important information that delegates could take away and implement in their organisations.

24 APRIL 2013

Health and Safety

Returning after successful events in 2011 and 2012 this seminar quickly sold out and gave delegates an exploration of the important topics in health and safety that will affect the plastics industry. Kirsty Storer from the HSE gave the audience a presentation on the new HSE guidance and what it will mean to them. Further sessions were delivered on occupational health, legionella and fire safety to this full capacity audience.

14 MAY 2013

Insight to Export: Brazil

Following on from previous events looking at export opportunities to India and Russia, this half day seminar offered attendees the chance to uncover the tactics and tools that they would need to export to Brazil. The seminar provided an exploration of Brazilian business tactics and explained how to deal with the Brazilian tax authorities.

3 OCTOBER 2013

PVC Products: Promoting Social Responsibility in Procurement Decision Making

Returning for the 14th consecutive year and once again attracting over 50 attendees, the BPF PVC seminar provided delegates with an insight into essential PVC topics including responsible sourcing of PVC products and a case study of PVC flooring. The keynote address for this event was presented by Sajjid Karim MEP on the subject of 'Regulations – meeting targets and easing the burden'.

6 NOVEMBER 2013

REPLAST 2013: Driving Manufacturing Using Recycled Plastics

This seminar, now in its 6th year, proved extremely popular on 2013 with 58 attendees. Those attending the event

had the opportunity to listen to presentations including panel debates, the results of a survey on global plastics scrap and a keynote presentation from Mark Pawsey MP discussing parliamentary perceptions on plastics recycling.

21 NOVEMBER 2013

Plastics in Packaging

This seminar, returning to the BPF offices in London for 2013, brought all parts of the plastics packaging supply chain together in one room. Presentations at this event included future packaging trends, the impact of the Courtauld Commitment and a case study from Boots. The day ended with an examination of the impact of chemical scare stories delivered by Sense about Science.

28 NOVEMBER

Plastics in Automotive Applications

The automotive sector in the UK is expanding and this seminar was designed to give plastics producers the opportunity to examine topics in this important sector. Presentations from companies including Jaguar/Land Rover, EEF and Auto Design helped to make the seminar an insightful and successful event with over 30 delegates in attendance.



Members of the BPF

BPF Membership list as of 31 December 2013

Additives

Addmaster (UK) Ltd
Americhem Europe
Aquapurge Ltd
Astropol Ltd
Baerlocher UK Ltd
BASF
Bayer Plc
Chemson Ltd
Chemtura Manufacturing UK Ltd
Colloids Ltd
ColorMatrix Europe Ltd
DOW Chemical Company
Eastman Company UK Ltd
eChem Ltd
Exxon Mobil Chemical Ltd
Gabriel Chemie UK Ltd
Grolman Ltd
Hubron (International) Ltd
IKA (UK) Ltd
IMCD UK Ltd
Kronos Ltd
LKAB Minerals Ltd
Mitsui & Co UK plc
Omya UK Ltd
RaKeM Ltd
Reagens UK Ltd
Wells Plastics Ltd
West & Senior Ltd

Biobased & Degradable

Plastics Group dissolved on 31 Dec 2012. Currently no members of new Bio-based Polymers Group

Business Support Network

Barclays Bank Plc
Croner
Edinburgh Napier University
Greystone Financial Services Ltd
Impact Solutions Ltd
Listgrove Ltd
Loughborough University
PERA Innovation Ltd
PICME Ltd
Polymer IRC/University of Leeds
Polymer Training & Innovation Centre
Smart Currency Exchange
Solutions4Polymers Ltd
Travers Smith
UL Enterprise
Willis Commercial Network

Cellular PVC-U

Epwin Group Plc
Eurocell Profiles Ltd
Kestrel BCE Ltd
Latium Building Products
Swish Building Products

Composites

Forbes Technologies Ltd
Hygrade Industrial Plastics Ltd
Llewellyn Ryland Ltd
Nexeo Solutions
Balmoral Group Ltd
Plasticon UK
PERA Technology
Solent Composite Systems Ltd

Expanded Polystyrene (EPS)

BASF plc
Chemtura
Domestic & General Insulation Ltd
DS Smith Plastics Foam Products Ltd
Energystore
Hirsch Maschinenbau GmbH
Ineos Styrenics
Insta Group
Jablite
Moulded Foams Ltd
Polimeri Europa UK Ltd
Simplipac Ltd
Springvale Insulation Ltd
Styrochem Finland Oy, UK Regional Office
Sundolitt Ltd
Sunpor
Vita Cellular Foam Ltd (Kay-Metzeler)
Warmfill Ltd

Flexible Foam

Carpenter Ltd
Recticel UK Ltd
Vita Cellular Foams UK Ltd

Flexible Foam Converters

Breasley Pillows Ltd
Comfortex Ltd
Duflex Ltd
Foams 4 Sports Ltd
Livedale Foam & Sundries
Platt & Hill Ltd

Industrial Plastics Welding and Fabrication (IPWAF) Members

Advanced Plastic Technology Limited
Plastipack Ltd

Masterbatch & Technical Compounds

Abbey Masterbatch Ltd
Addmaster (UK) Ltd
AEI Compounds Ltd
Americhem Europe
A Schulmann Inc. Ltd
Broadway Colours
Colloids Ltd
ColorMatrix Europe Ltd
ColourTone Masterbatch Ltd
Gabriel Chemie UK Ltd
Hubron (International) Ltd
Performance Masterbatches Ltd
Prisma Colour Ltd
Silvergate Plastics
Wells Plastics Ltd

Moulders and Specialist Processors

Adreco
A K Industries Ltd
AAC Plastics Group Limited
Aeroplas (UK) Limited
Agentdraw Ltd
Algram Group Ltd
Avalon Plastics Limited
Bemis Ltd
Big Bear Plastic Products Ltd
Birkbys Plastics Ltd
BNL (UK) Ltd
Bolton Plastic Components Ltd
Broanmain Limited
C J Tool and Mouldings
Calsonic Kansei Washington
Carclo
Carclo Technical Plastics
Champion Mouldings Ltd
Cinram Operations UK Ltd
Contico Europe Ltd
Daniels Healthcare Ltd
Data Plastics
Denroy
Desch Plantpak
DS Smith Plastics – Worldwide Dispensers
DuBois
Eaton Limited
F-L Plastics Ltd
Flambeau Europlast Ltd
Forteq UK Limited
Frontier Plastics Ltd
Goodfish Ltd
Hallam Plastics Ltd
Harold Fisher (Plastics) Ltd
HM Prison Service
Hozelock Ltd
Hunter Plastics Ltd

Husqvarna
 Intier Automotive Interiors Ltd
 Johnstone Safety Products Ltd
 Labone Castleside Ltd
 Lettergold Plastics Ltd
 Linpac Packaging
 McLaren Plastics Limited
 Measom Freer Ltd
 Mecaplast Peterlee Ltd
 Melba Products Ltd
 Mollertech UK Ltd
 Moss Plastic Parts Ltd
 Northern Ireland Plastics Limited
 Northpoint Ltd
 Numatic International Ltd
 Oxford Plastics Systems Ltd
 Peak Plastics Limited
 Piolax Manufacturing Ltd
 Plastic Omnium Automotive Ltd
 Polymermedics
 RGE Engineering Co
 Ricoh UK Products Ltd
 Rosti McKechnie Ltd
 RPC Group Plc
 R-TEK Limited
 Sherwood Plastic Products
 SMR Automotive Mirrors UK Ltd
 SPM Plastics Ltd
 Sterilin Ltd
 Stewart Plastics Ltd
 Straight PLC
 Strata Products Ltd
 Taylor Engineering and Plastics
 Tex Plastic Products Ltd
 Tex Plastics Ltd - Derby
 Thumbs Up (Bury) Ltd
 TS (UK) Ltd
 W H Smith & Sons (Tools) Ltd
 Warden Plastics
 Weltonhurst
 West Pharmaceutical Services Ltd
 Zotefoams

Packaging

Alpla UK Ltd
 APPE U.K. Ltd
 Bericap (uk) Ltd
 Blowplast Ltd 1a-1b
 Broadway ColoursLtd
 Canyon Europe Ltd
 Constar International (UK) Ltd
 Constar UK
 Coveris Rigid UK Ltd
 Esterform Packaging Ltd
 Graham Packaging Plastics Ltd
 Highland Spring Ltd,
 Jubb UK Ltd

Lb Europe Ltd
 LINPAC Packaging Ltd
 Logoplaste UK Ltd
 McBride Ltd
 Measom Freer Ltd
 M & H Plastics Ltd
 Nampak Plastics Europe Ltd
 Nolato Jaycare Ltd
 Perfecseal
 Philips Avent Ltd
 Plastek UK Ltd
 Plastic Bottle Supplies Ltd
 Portola Packaging
 Promens Packaging Ltd
 Robinson Plastic Packaging
 RPC Containers Ltd (The RPC Group)
 Schoeller Allibert
 Sharpak Bridgwater Ltd
 Solo Cup Europe
 Spectra Packaging Solutions Ltd
 TS UK Ltd
 United Closures and Plastics

Plastics Pipes Group

Aco Technologies plc
 Aliaxis UK
 Asset International Ltd
 Borealis UK Ltd
 Clark Drain Ltd
 Durapipe UK
 Geberit Sales Ltd
 George Fischer Sales Ltd
 Glynwed Pipe Systems Ltd
 Hunter Plastics
 Hydro International
 INEOS Vinyls UK Ltd
 John Guest Ltd
 Marley Plumbing & Drainage
 McAlpine and Co Ltd
 Pipelife UK
 Polypipe Building Products
 Polypipe Civils Ltd
 Polypipe Terrain Ltd
 Rehau Ltd
 Sustainable Drainage Systems Ltd
 Total Petrochemicals Ltd
 Uponor Housing Solutions Ltd
 Wavin Ltd

Plastics and Rubber Equipment

Antech Solutions Ltd
 Ashe Converting Equipment
 Billion UK Ltd
 Boston Matthews
 Buhler Sortex Ltd
 CCS Technology
 Cinpres Gas Injection

C R Clarke
 Engel
 EPICOR
 Farrel Ltd
 Filton
 Formech International Ltd
 HiTech Automation Ltd
 Instron Ltd
 Intouch Monitoring
 Lacerta Technology
 Lloyd Instruments Ltd
 Majenta
 Meech International
 MSA Engineering Systems Ltd
 NDC Infared Engineering Ltd
 Negri Bossi Ltd
 PlastikCity Ltd
 Rondol Technology
 Recycling.com (Small World Solutions)
 Tinius Olsen
 Trans XL
 Vecoplan Ltd
 Waste Web Ltd
 Xtrutech

Polymer Distributors & Compounders

4Plas Ltd
 ALBIS UK Ltd
 Alphagary Ltd
 Biesterfeld Petroplas Ltd
 Distrupol Ltd
 Elasto UK Ltd
 Gazechim Plastics UK Ltd
 Hardie Polymers
 Hellyar Plastics
 Longfield Chemicals Ltd
 Nexeo Solutions
 Perrite
 Plastribution Ltd
 Resinex UK Ltd
 Resin Trade Ltd
 Sumika Polymer Compounds (UK) Ltd
 Teknor Apex UK Ltd
 Ultrapolymers Ltd

Polymer Suppliers

Axion Recycling Ltd
 Basell Polyolefins UK Ltd
 Bayer Plc
 Berwin Group
 Dugdale Plc
 Eastman Company UK Ltd
 EMS Chemie UK Ltd
 ExxonMobil Chemical Ltd
 INEOS ChlorVinyls
 JSP International Ltd

Members of the BPF

Lanxess Ltd
Luxus Ltd
Plastic Technology Services Ltd
SABIC UK Ltd
Solvay Polymers Ltd
Vinnolit Ltd

Rotational Moulding

493K
ACO Technologies PLC
Balmoral Group Ltd
Broadway Colours
Corilla Plastics
Crompton Mouldings
Etilis Ltd
Francis Ward
ICO Polymers Ltd
Impact Solutions
JFC Manufacturing (Europe) Ltd
JSC Rotational
Kirkdale 2000
Leaffield Environmental Limited
Mailbox Mouldings International Ltd
Matrixpolymer
Prismacolour
Queens University Belfast
Rotational Mouldings Ltd
Rotomotive Ltd
Rototek (a trading name of
Trent Mouldings Ltd)
Steel Tool Solutions
Tecni-Form Ltd
Ultrapolymers

Recycling Group

2K Manufacturing Ltd
Axion Recycling
Biffa Polymers
Boomerang Plastics
BPI Recycled Products
C K Plastic Recycling Ltd
Centriforce Products Ltd
Chase Plastics
CL Rye Trading Ltd
Closed Loop Recycling Ltd
Dennison UK Ltd
DS Smith Recycling
Eco Plastics Limited
Ecodek Vannplastic
Failand Paper Services Ltd
Jayplas (J & A Young -Leicester- Ltd)
JFC Plastics Ltd
Leopard Recycling Ltd
Luxus Ltd
Norpol Recycling Limited
Oxford Plastics Systems Ltd
PET Processors (UK) LLC

Philip Tyler Polymers Ltd
PlasRecycle Ltd
PPR WIPAG Ltd
PVC Recycling Ltd
RECOUP
Regain Polymer Ltd
Repro Plastics Ltd
Roydon Polythene Ltd
R&P Recovery Ltd
Simba International (UK)
Sims Group UK Ltd
Sortology Ltd
Summit Systems
TDG Recycled Plastics
Trafford Services
Veka Recycling Ltd
Viridor Polymer Recycling Ltd
Wellman Recycling

Sheet & Coated Fabrics

Altro Limited
Fenner Plc
Palram D P L Ltd
Polyflor Ltd
Tarkett

Vinyls

Altro Floors
Baerlocher UK
Berwin Group
Chemson Ltd
DOW Chemical Company
Dugdale Plc
ExxonMobil Chemical Ltd
Glynwed Pipe Systems Ltd
Ineos ChlorVinyls
Polyfloor UK Ltd
Polypipe Plc
Renolit Cramlington Ltd
Solvay Polymers Ltd
Tarkett Ltd
UKRFA
Vinnolit Ltd
Wavin Ltd

Windows

Chemson Ltd
Deceuninck Ltd
Duraflex (Masco UK)
Epwin Group Plc
Eurocell Profiles Ltd
Foilit Ltd
Groupco Ltd
Halo
LB Plastics Ltd
Listers Trade Frames Ltd
Mitsui & Co UK plc

Profile 22 Systems
Rehau Ltd
Renolit Cramlington Ltd
Rohm and Haas Europe
Snowdonia (Windows & Doors) Ltd
Spectus Window Systems
Swish Window & Door Systems
Veka Plc
Zenith Staybrite Ltd

BPF Affiliates, Council and Staff

The Council of the British Plastics Federation as of 31 December 2013

PRESIDENT

Mike Boswell Plastribution

POLYMER SUPPLIERS

Mike Boswell Plastribution
John Ellis Bayer Material Science

ADDITIVES SUPPLIERS & SPECIALIST COMPOUNDERS

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Andy Jones Baerlocher UK
Philip Watkins Gabriel-Chemie UK

PROCESSORS

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Jason Crump Tarkett
Brian Cosgrove Solvay Polymers
David Hall Polypipe
Bruce Margetts RPC Containers
Philip Maddox Leafield Environmental
Brian V. Mann Rosti McKechnie
Stephen Mancey Logoplaste
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Huw Radley Solent Composites Systems
Carl Reeve Data Plastics
John Steadman Aquapurge
Chris Tudgay Rehau
David Wrigley Epwin Group

EQUIPMENT

Chris Francis Meech International

RECYCLING GROUP

Roger Baynham Philip Tyler Polymers

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Paul Booth OBE PlasticsEurope (SABIC)

HON. TREASURER

Paul Jukes

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Philip K Law Public & Industrial Affairs Director

FEDERATION SECRETARY

Alan V Davey Finance & Administration Director BPF

COUNCIL SECRETARY

Fozia Ghadiali PA to Director-General

Staff and Consultants of the British Plastics Federation as of 31 December 2013

Caroline Ayres Pipes Group Director*
Paul Baxter Commercial Events & Projects Executive

Sara Cammarano Industrial Issues Executive

Alan Davey Finance and Administration Director

Carol Day PA to Pipes Group Director*
Peter Davis OBE Director-General

David Emes Chairman EPS & NBBA Groups* Admin. Asst.

Helen Fogarty (BPF/PIEur/Pipes/EPS) Finance Assistant

Dan Frake PA to Director-General
Fozia Ghadiali Administrative Assistant

Lewis Hanlon (part-time) Marketing Executive

Kim Hawksworth PA (part-time) to Public and Industrial Affairs Director

Meral Heatley Industrial Issues & Communications Executive

Laura Hindley Business Development Manager

Stephen Hunt Senior Business Development Executive

Justyna Elliott Windows Group Technical Consultant*

Paul Jervis Pipes Group Consultant* Caterer (part-time)

Frank Jones Finance and IT Manager
Sue Cocks Public and Industrial Affairs Director

Angella Ladner Senior Projects Executive
Philip Law Industrial Issues Executive

Tim Marsden Senior Industrial Issues Executive
Francisco Morcillo Receptionist (part-time)

Sarah Plant Receptionist (part-time)
Christine Pottinger EPS Consultant*

Karen Spillman Finance & Office Administrator
David Thompsett Flexible Foam Group*

Carole Wheeler Flexible Foam Group*

David Waite Flexible Foam Group*

Affiliated Associations



Gauge and Toolmakers Association (GTMA)



Northern Ireland Polymers Association (NIPA)



Packaging and Films Association (PAFA)



Plastics Consultancy Network (PCN)



PlasticsEurope



Scottish Plastics and Rubber Association (SPRA)



Insulating Concrete Formwork Association (ICFA)

*not based at BPF Offices, London

BPF Events 2014

27 FEBRUARY 2014

Thermoplastic Composites

26TH MARCH 2014

Health and Safety Seminar

1 APRIL 2014 & 15 MAY

Managing Your Climate Change Agreement, Manchester

8 APRIL 2014

BPF Rotational Moulders Group – Materials Seminar

10 APRIL & 13 MAY 2014

Managing Your Climate Change Agreement, London

15TH APRIL 2014

Growing Your Business by Design

15 MAY 2014

REACH

4 JUNE 2014

3D Printing and the Plastics Industry

12 JUNE 2014

Plastics in Packaging

20 JUNE 2014

India - Opportunities for UK Plastics Firms

9 OCTOBER 2014

PVC

16 OCTOBER 2014

BPF Annual Dinner 2014

23 OCTOBER 2014

Chemicals in Plastics

6 NOVEMBER 2014

REPLAST

13 NOVEMBER 2014

Plastics in Automotive



British Plastics Federation

ONLINE SERVICES



BPF Shop

Plastics industry books and reports
www.bpfshop.com



BPF Training

E-Learning for the plastics industry
www.bpftraining.com



Plastipedia

World's largest Plastics Encyclopedia
www.plastipedia.co.uk



Plastbook

Q and A forum for the plastics industry
www.plastbook.com



Plastics Industry Directory

A - Z of UK plastics firms
www.bpf.co.uk/directory



British Plastics Federation

BPF House
5-6 Bath Place
Rivington Street
London
EC2A 3JE

TEL 020 7457 5000

WEB www.bpf.co.uk

EMAIL bpf@bpf.co.uk