

Bulletin

INFORMED COMMENT FROM


THE BRITISH ADHESIVES
& SEALANTS ASSOCIATION

WHAT WILL STICK AFTER BREXIT?

Read BASA member 4Ward Testing's article on page 12.

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This year's BASA Dinner Dance held in Bath

Bookings for the Dinner Dance will open immediately after the Sports Day in June.

This year's Dinner Dance will be held on Saturday 10th November 2018 at the new 4 star Apex City of Bath Hotel, on the corner of James Street West and Charles Street in the city centre, just a five-minute walk from the Thermal Bath Spa. It is the largest hotel in Bath.



Don't forget to add this date to your diary as this will be an event not to be missed! All our planned events for the

year can be found on the BASA website under 'Forthcoming Events' and all events can be booked on our dedicated booking website run by Mint Events at www.basaevents.co.uk

Another BASA Industry Lunch enjoyed by over 50 Member Companies

Thanks once again to platinum sponsors Rakem and new sponsoring members Wallace Hind and Hermes FX for enabling such a great day at Twickenham stadium for the annual Industry Lunch.

The venue for the eagerly awaited 2018 BASA Annual lunch was the magnificent Twickenham Stadium Members Lounge. The BASA Annual Lunch took place shortly after the 35th BASA AGM on 20th March 2018 and saw industry convene to discuss the most topical issues, as well as the opportunity to hear a number of keynote speakers talking about currency and the importance of supply chain security.

It was a fantastic opportunity to network with guests across the sector to discuss what had been an eventful year in our industry and looked at the inevitable challenges that follow the UK's decision to leave the EU.



Read the full report on Page 4

Turbulent Times Continue: Unbelievably we are already half way through the year. Political and economic uncertainties prevail, bringing with them a very tough construction market in which we try to survive and hopefully thrive.

BASA AGM & Industry Lunch: A big thank you to everyone who took the time to attend our event at Twickenham. The feedback has been extremely positive, and Council are now busily thinking how we can match this for 2019. If you have any suggestions, please feel free to let us know – this is your association after all!

Sports Day & Open Industry Forum:

Following on from the success of our format change combining both events over 2 days last year, we decided to repeat this in 2018. Returning to a recently modernised Hawkstone Park, the Sports Day remains a great way to network with friends within the industry in a very informal way and hopefully make new acquaintances. The Open Forum is a very effective way to keep up to date with the challenges we face and to give your input as to how best we can work together to overcome them. At the time of writing this,



Chairman:
**Scott
Challoner**

From the Chairman

the number of golfers looks to be at a record high, and by the time you read this I very much hope that all members attending found our 2-day event worthwhile and informative (and fun!)

BASA Dinner Dance: Please make a note in your calendar for this year's Dinner Dance. It is to be held on Saturday 10th November in the Apex City of Bath Hotel. As a UNESCO world heritage city, we are

certain that Bath will prove to be a fantastic venue where a combination of sightseeing as well as socialising can be easily achieved. We very much look forward to seeing you all there, hopefully this year including some of our members based in the South of the UK. Don't forget to look out for the excellent sponsorship opportunities. Look out for notifications when the booking site goes live after Sports Day and go to www.basaevents.co.uk for more information and to book your tickets.

Once again, we urge you all to use our updated website as part of your weekly routine. It is an excellent tool for our members to inform and also be informed of industry news. Please encourage more than one person to sign up for website access. Even if you decide not to subscribe for the weekly or bi weekly updates, just having the ability to log in and access the information and services makes your Company's Membership subscription even more worthwhile.

Members will hopefully be glad to see that we have maintained a hard copy bulletin in addition to the electronic newsletters that are produced monthly via our Vuelio subscription. Please continue to send in your company news and stories and these will be included in the electronic news and also in our now twice yearly BASA Bulletin. I would also request that if you have subjects that you would like us to cover in future issues that you contact me to make the request – the BASA Bulletin is produced for members benefits so please do make use of this. Our monthly BASA Canvas (see my comments in the members area of the website for the direct links) is a great opportunity to promote your business and also to get links to other adhesives & sealants related news and regulatory information.

Management Training

Don't forget our three bespoke management training courses that are available either to run as a single company corporate activity at your premises or at Croner House, Hinckley or if we can get some group interest we will once again run the course ourselves for individual delegates. Please take a look at the Training Group under working groups on the BASA website for details.

Brexit

No publication is complete with a mention of that 6 letter word! I continue to work hard for members at the various meetings in conjunction with the other chemical-based trade associations through the Alliance of Chemical



Secretary:
**Lorna
Williams**

Secretary's notes

Email: secretary@basa.co.uk

Associations (ACA) and any news or information can be found on the BASA website general content area under 'Brexit'. Please let me know if you have any particular concerns so that we can make sure we try to provide you with the information you need. Remember the European Parliament must approve any agreement regarding the UK's withdrawal from the EU. The European Parliament has an important role in the approval of the Brexit deal. While Westminster's votes on the agreement will not be legally binding, that of the European Parliament will be. If Members of the European Parliament

(MEPs) are not happy, the UK and the EU cannot proceed with their agreement.

With the European Parliament having an election coming up in May 2019, the closer to polling day their vote on the withdrawal and future framework takes place, the more political capital MEPs could gain by raising objections. This will need to be wrapped up by October 2018, so time is ticking.

ISO Sealants Standardisation

You may be aware that in addition to my BASA Secretary responsibilities, I also represent the UK on ISO TC59 SC8. I am currently the sole representative for the UK, which has meant that when I was asked to take on the Chair of ISO TC 59SC8 earlier this year I have had to decline. This was a missed opportunity for the UK to lead the international standards work and highlights the lack of depth we have on the sealants standards currently. I am also standing in as Chair of the UK mirror Committee B/547 and that really needs to change, so come on all BASA sealant manufacturers – do you have someone who can step up and take on the chair of the B/547 committee to stay on top of the standards?

Bespoke BASA courses

BASA has teamed up with &Coaching and Chemexec to deliver three high quality management training courses. This service is a collaboration between the Chemical Executive Club of Chemical Search International, a leading talent management consultancy for the chemicals sector, and &Coaching a firm of coaching professionals.

Please visit the new area under BASA Training Courses in the working group section of the BASA website for details and contact the BASA office if you want to register interest or arrange a workshop.



R&D Tax Credits – Helping Fund Innovation

Are you getting your fair share?

If you are an SME and, depending on your Corporation Tax situation, R&D tax credits paid in cash or as a reduction of tax payable by/to the UK government can save between 19% and 33.5% of your qualifying research and development costs. Yet, with close to five million SME companies in the UK, only 21,865 claimed in the tax year to April 2016 – the last year for which HMRC statistics are available. So, does this mean that less than 0.05% of SME companies in the UK are attempting to advance the capability of science or technology to create more innovative products, design better processes (including manufacturing and operational processes), develop better services or invent innovative materials. This seems highly unlikely. Our business, RandDTax, was set up in 2012 specifically because we felt that SMEs were NOT claiming their fair share of this government funding, and that specialist Consultancies were charging too much for helping them to identify qualifying R&D work and make claims. Since then, we have helped close to 1000 companies gain in excess of £80m, an average of more than £80,000 per client. A report from the National Audit Office suggests that every £1 of the £2.9 billion spent in R&D Tax Credits by the UK government generates £2.40 for the UK economy. The question for BASA members is this: “are you getting your fair share?” What are the reasons you might not be getting what you deserve?

• It may be that you do not accurately recognise that you are doing qualifying R&D.

- Even where you do recognise that you are doing R&D, you and your advisors may not fully appreciate where the technically qualifying R&D begins and ends.
 - You may be paying too high a share of the R&D Tax benefits gained in advisor’s fees.
 - You may be spending too much time and cost on the claim process.
 - You may have made a claim or claims that HMRC have questioned or rejected, and you want to avoid time consuming enquiries.
 - You may have set up sales or procurement processes which can make claiming R&D Tax Credits either difficult or impossible.
- When we started RandDTax our aim was to create a business model which delivered outstanding value through an innovative structure and business processes. In December 2017 we were given the Business Innovation Award, part of the National SME Awards. The judges said “Here is a business that is self-assured and unexpectedly using innovation to its great advantage”. Our belief that this has enabled us to deliver exceptional

value to clients in an R&D consultancy market which has become very crowded. We now have Russian and French owned competition and one of the largest and most respected UK owned R&D consultancies has recently been bought by an American company. Our growth has been consistent, all claims have been successful and almost all of our clients were introduced to us by their accountants or other RandDTax clients. We do not employ telesales in a market where companies tell us that they receive more telesales calls on R&D Tax Credits than even PPI! BASA members operate in a sector where investment in advancing science and technology can deliver real competitive advantage in new or enhanced products, services, processes, devices and materials. We are delighted to offer BASA members a FREE, no obligation technical audit service to help identify how you might benefit, to what extent and when. Even if you are only considering future investment in development you should talk to us early to ensure maximum benefit. Terry Toms, Founder and Managing Director, RandDTax. www.randdtax.co.uk 01483 808301. Please reference BASA when contacting us.



Personal Consultant

We can quickly identify if your company is eligible. Every claim is managed by an experienced consultant who advises you on the entire process.



Larger Claims

It is not unusual for companies that claim without experience of the R&D regime to underclaim. Our robust processes help you to achieve what you are entitled to.



National Coverage

The handling of R&D claims by HMRC has evolved and is evolving. Our scale of operation, central checking processes, and focus solely on all things related to R&D Tax credit claims puts us in a strong position to give effective help to clients.



Exceptional Value

20% to 33% of your R&D benefit in fees? Long contracts, even 10 years? If these are the propositions being put to you by specialists it would make sense to talk to us. We provide the best value in this sector.

AGM and Industry lunch in detail

from page 1

The AGM presented the current financial position of the Association and looked at the technical issues that our industry faces and that BASA's technical team ably cover on behalf of members. After the 2018 Max Kochmann award was presented to Jim Palmer, J P Consultancy we then had 2 industry speakers presenting to guests. Stuart Carlyon, Vice President – Operations (Fuels and Chemicals) DHL Supply Chain talked about Managing Disruption to the supply chain and Paul Argyrou, Head of Treasury Hermex Fx talked about Brexit and how to manage currency risk through the turmoil.

After a delicious lunch, members were entertained by after-lunch speaker, Matt Dawson MBE. Matt is known for his vital role in rugby and for helping bring victories to his teams. With 77 caps under his belt, he is England's most capped scrum half, captaining the side 9 times. He played for Northampton and the London Wasps as well as England and represented the British & Irish Lions on three tours. During the 1998 tour to Australia and New Zealand – 'The Tour from Hell' – Matt was congratulated on his leadership. He also captained the England Rugby team to win the Six Nations Championships in 2000.

His position on 'A Question of Sport' has elevated him from a well-known rugby player to a national TV personality. In 2006 he took part in the BBC's 'Celebrity MasterChef' and won. Matt then put on his dancing shoes to become the runner up in the BBC's primetime programme 'Strictly Come Dancing', which attracted over 12 million viewers per show.

His love for sport, his passion for food, and his experience with media meant we had an entertaining hour of stories before being treated to a narrated video of Wilkinson's breath-taking last-minute drop kick in the 2003 world cup, defeating Australia in extra time.

Outgoing Chairman Mark Louch from Mapei UK Ltd hands over to new Chair Scott Challoner from Wacker Chemicals Ltd

At the 35th BASA Annual General Meeting, it was time for outgoing chair, Mark Louch, to hand over the reins (and the Chairman's Medal) to incoming chair, Scott Challoner.

Jim wins Max Kochmann Award

Jim Palmer, J P Consultancy Ltd, was presented with the Max Kochmann award after this year's AGM in recognition of his significant and continuing contribution to the world of adhesives and sealants. Jim is currently the BASA Technical Officer and also acts as the TSC Chair. Jim graduated with a BSc (Hons) and MSc in Chemistry from Birmingham University in 1977. Joining Dunlop Adhesives in Birmingham that year, he has spent the years to date in the adhesives and sealants industry.

After his time at Dunlop Adhesives, from 1987-1994 he worked for Tivoli Kay in Bury and Newcastle, followed by a move to Evode in 1984. From 1984 to 2001 he followed the Evode/Bostik journey and then in September 2001 he became Technical Director at Sealcrete PLA until 2006, when this became Bostik. Jim then decided to be master of his own fate and set up his own Constancy Company, J P Consultancy Ltd in 2007.

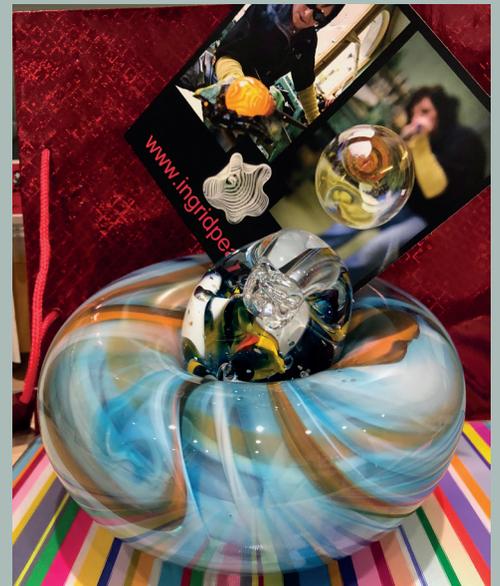
Jim is very active in the Society of Adhesion and Adhesives, an academic and business society promoting the advancement of the science and technology of adhesion and adhesives, working as the Secretary of the Society. In addition, he consults with individual companies in all technical areas from R&D to legislative compliance and is available for expert witness contracts. Married to Sheila, who joined us when Jim was presented with his award, they have two sons and nine grandchildren.

The Max Kochmann Award is an individu-



Jim, left, with his award flanked by Will Barclay, right.

ally commissioned bespoke studio crystal glass piece sculptured for BASA each year by International Glass artist Ingrid Pears MBE in her hot glass studio based in Thoresby <http://www.ingridpears.com>.



Mark, right, with new chair Scott, left.

Scott Challoner is a Sales Manager for Construction Silicones at the UK subsidiary of the Munich-based chemical company WACKER Chemie AG. He is responsible for the United Kingdom and Ireland. "As a sales person, I have hands-on experience of the challenges facing the chemical industry on a day-to-day basis. As chairman of BASA, I want to take these into account," he says.

Scott Challoner has a business administration background including some 2 years' service as Sales Manager for silane-terminated hybrid polymers used in the Construction industry. He succeeds Mark Louch, Managing Director of Mapei UK Ltd., who has held the position from 2015.

Smithers Apex A&S market news

Smithers Apex forecasts growth opportunities for adhesives and sealants in \$10 billion construction market

Adhesives and sealants (A&S) have had a large impact upon the construction industry since the invention of synthetic polymers nearly 100 years ago. A&S usage proliferated rapidly with the introduction of a much wider range of high-performance base polymers and formulations in the 1960s to 1980s era. Today, adhesives and sealants are important elements of most building systems and structures, a trend which will likely accelerate as the industry adopts innovative construction techniques and designs.

According to a new market report from consultancy Smithers Apex, *The Future of Construction Adhesives & Sealants to 2023* ([https://www.smithersapex.com/market-reports/the-future-of-construction-adhesives-sealants-\(1\)](https://www.smithersapex.com/market-reports/the-future-of-construction-adhesives-sealants-(1))), the building and construction (B&C) industry presents considerable opportunities for market growth for A&S companies in the coming years.

Market growth

The global A&S market for B&C industry applications totalled about 4.12 million tonnes, worth \$10.4 billion in 2017. This and is forecast to grow to about 5.47 million tonnes worth \$13.7 billion in 2023, according to Smithers Apex data.

Within the B&C sector, adhesives products usage totalled about 3 million tonnes, generating about \$7.6 billion sales at the factory level. The B&C sector accounts for about 28–30% of all A&S usage. Sealants usage in the B&C sector is forecast to grow from 1.15 million tonnes (\$2.8 billion) in 2017 to 1.49 million tonnes (\$3.7 billion) in 2023. Smithers Apex estimates that the B&C sector consumes roughly 40% of sealants usage worldwide.

The commercial construction segment leads in terms of both volume and value, followed by the residential construction segment. Volume and value in infrastructure/civil construction projects are considerably smaller, although higher average prices reflect the more stringent performance demand of many applications in this segment of adhesives.

Regionally, Asia is the largest and the fastest growing region in terms of A&S consumption for B&C end uses. Asia is led by the phenomenal growth of the Chinese economy, and the growing wealth of Chinese society.

Key trends

Ongoing and developing trends in four areas will drive gradual changes in adhesive and sealant usage patterns and may present

long-term opportunities for adhesives and sealants suppliers. These areas are:

- Construction costs and efficiency
- A&S product development
- Demographics
- Regulatory climate

In terms of construction costs and efficiency, the fabrication of complex components in a controlled factory environment is inherently more efficient than building the same component in the field. Widespread adoption of factory fabrication might shift large amounts of adhesive and sealant consumption from the field to the factory – and in turn will likely favour use of high-performance two-part reactive adhesives and of hot melt adhesives. It might also reduce demand for adhesive and sealants packaged in 200ml and 300ml paper tubes, shifting demand to 150 to 200 litre steel drums and larger intermediate bulk containers. There will also be likely changes in education around the use of new building methods and materials.

New product developments

In terms of product development, while B&C industry craftsmen and contractors are generally satisfied with the range of adhesives and sealants products available to them now, there will likely be a few advances over the forecast period. These will include materials that are certified for a wider range of end uses, to reduce the number of different products that must be handled at the job site; and A&S products that are easier to apply, to work into an aesthetically acceptable finished surface, and easier to clean up, without sacrificing performance.

In terms of demographics, the migration of populations to urban cores has the potential to drive a significant shift away from standalone single-family homes, towards urban multi-family dwellings. While the interior use of A&S will not see substantial change as a result, the exterior building will change dramatically.

Then there is the ongoing development of regulations related to B&C, and to the use of A&S. Changes in local markets can have a major impact; while a continued gradual displacement of solvent-based products is expected over the forecast period.

These, and other key market and technology trends, are discussed in detail in Smithers Apex's new market report *The Future of Construction Adhesives & Sealants to 2023*.

BASA members receive 10% discount on the full price of this market report by

quoting BASA18 until 2 July 2018.

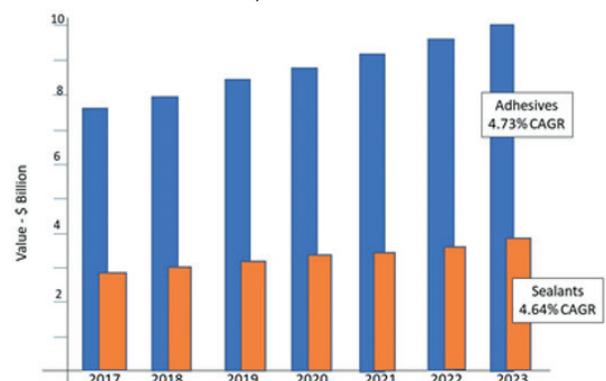
For more information or to buy the full report, please visit the report page [https://www.smithersapex.com/market-reports/the-future-of-construction-adhesives-sealants-\(1\)](https://www.smithersapex.com/market-reports/the-future-of-construction-adhesives-sealants-(1)), or get in touch:

E: sfrier@smithers.com

T: +44 (0)1372 802 006

www.smithersapex.com/market-reports

Image: Adhesives and sealants for construction market 2017–23, by value (\$ billion and CAGR %)



Source: Smithers Apex

FEICA publishes new Good Practice story on energy saving in construction

Good Practice stories demonstrate the adhesive and sealant industry's focus on creating products that foster sustainability, in line with the European Commission's circular economy goals.

The FEICA Good Practice stories cover a range of sustainable projects in construction, automotive, food packaging, bookbinding, furniture and consumer. You can find them all on FEICA's public website.

<http://www.feica.eu/information-center/good-practices.aspx>

If your company is interested to contribute its own Good Practice story, please contact FEICA at info@feica.e

Technical Working Groups

In the BASA technical community we continue to represent the industry views on an increasingly wider range of issues from substance restrictions to the implication of the UK exit from the European Union, and at an increasingly broad range of forums from Standards Committees to Government departments and at conferences and seminars. You can learn about all of these issues either in this BASA Bulletin and the regular Bulletin canvases, on the BASA website, or at our twice yearly Industry Forums.

The recent Surfex exhibition at Coventry in May featured industry insight presentations by BASA representatives on some of the topics of critical significance to our industry. These were:

- 'Implications of Diisocyanate Restrictions on PU Adhesives and Sealants'
- Describing the latest situation in the development of the risk management options and training requirements for the safe handling of products containing diisocyanates.



BASA Technical Officer:
Jim Palmer

TSC overview

- 'The Circular Economy – the Challenge for Adhesives'
- The role for adhesives and sealants in delivering the sustainable use of resources and materials, whilst minimising environmental impacts- 'REACH 2018 and the Likely Effect on the Adhesives and Sealants Industry'

The recently passed deadline for registration of the lowest volume substances and the outcomes for formulators.- 'Poisons Centres and the Consequences for

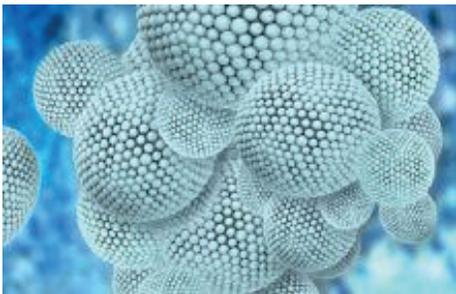
Adhesives & Sealants Manufacturers'

How to submit your information and what is required plus the likely implication post EU exit by the UK

- 'REACH and Innovation in Sealant Formulation'
- Will manufacturers have suitable materials available to innovate.
- 'Training Opportunities for Adhesives & Sealants Manufacturers'
- BASA's research into the availability of suitable training materials for adhesive and sealant formulators, specifiers and end users. Adhesives and sealants are critical joining technologies which need to be utilised correctly to ensure the quality and durability of the final product.

Each of the above presentations will be available on the new BASA website, which is proving to be essential reading for members and an invaluable tool for communicating opinions on any and every issue of concern to suppliers, manufacturers and users of our products.

EU member states support change to titanium dioxide classification



Poorly Soluble, Low Toxicity (PSLTs) - Size and shape, as well as solubility, are 'intrinsic properties'

EU member states support a change to the proposed carcinogenicity classification of titanium dioxide, according to a European Commission document. The Commission asked member states and other stakeholders whether the classification could be "translated directly" into CLP or if changes were needed. These might include, it said, addition of further footnotes to differentiate between particles that could be inhaled and other forms, which might be larger particles or so-called massive forms. It has now summarised comments received so far, in a document submitted to the meeting of the competent authorities for REACH and CLP (Caracal).

Denmark, Germany, Greece, Romania and Sweden all said that the classification could not be directly translated into CLP. Denmark said that the Commission should seek to



Chairman:
Anthony Thresh

Sealants

define relevant limits of its applicability and that a split entry for the substance based on form or particle size could be considered. Germany said that footnotes might help but only partially. Tatiana Santos at NGO the European Environmental Bureau said that she was concerned about industry "lobbying" at recent Caracal meetings, which has been "unprecedented" in its scale. Many of the arguments made by industry representatives are socio-economic, relating to, for example, the titanium dioxide market or the suitability of alternatives. Such arguments are irrelevant under CLP, she added. "Classification is, and should remain, a purely scientific endeavour." The Commission document also suggests that the member states do not favour labelling "derogations"; a way to avoid the obligation to apply a carcinogenicity warning in the case of some products.

The mechanism of carcinogenicity, outlined

in the proposal, is not unique to titanium dioxide. It is common to a broad set of substances used as particles, that are characterised by very low solubilities, and often called PSLTs for "poorly soluble, low toxicity". The Commission had also asked whether such substances should be classified together as a group. The comments suggest that the member states are divided over this issue, with some giving qualified support, while others said it was either inappropriate or unfeasible.

Next steps - The member states have said that they intend to vote on the classification at the next meeting of the EU REACH committee in June 2018. But there is no deadline imposed by the legislation that they must adhere to, meaning the vote could be postponed.

Substance Restrictions Di-isocyanates

The Committee for Risk Assessment (RAC) and the Committee for Socio-economic Analysis (SEAC) agreed on proposed restrictions on diisocyanates. RAC also endorsed the joint ECHA/RAC-SCOEL Task Force report on scientific methods to assess exposure to chemicals at the workplace. RAC adopted its opinion, in support of the proposal by Germany, to restrict the use of di-isocyanates at the workplace. The main goal of this restriction proposal is to prevent new cases of respiratory sensitisation among all workers and professionals who may be exposed to di-isocyanates at

the workplace. Di-isocyanates are used in a wide range of sectors and applications (e.g. foams, sealants, coatings) throughout the EU, with a total tonnage of about 2.5 million tonnes per year. SEAC agreed its draft opinion and concluded that the proposed restriction is the most appropriate EU-wide measure to address the identified risks in terms of the proportionality of its socio-economic benefits to its costs.

Final push for the last REACH registration deadline

The 31st May 2018 deadline signalled the last milestone of a journey that started a decade ago to close the information gap on existing chemicals used in the EU and signals the final date for dossier submission for the registration for substances manufactured or imported at 1-100 tonnes per year.

Registration process

Registration applies to substances on their own, substances in mixtures and certain cases of substances in articles. Chemical substances that are already regulated by other legislations such as medicines, or radioactive substances are partially or completely exempted from REACH requirements.

Registration is based on the "**one substance, one registration**" principle. This means that manufacturers and importers of the same substance have to submit their registration jointly.

Companies are responsible for collecting information on the properties and uses of the substances they manufacture or import above one tonne a year. They also have to assess the hazards and potential risks presented by the substance.

This information is communicated to ECHA through a **registration dossier** containing the hazard information and, where relevant, an assessment of the risks that the use of the substance may pose and how these risks should be controlled.

In 2019, there will be an EU-wide enforcement project on registration. Inspectors and customs authorities will check that companies have fulfilled their registration obligations and that the conditions are in place for registering a substance as an intermediate under strictly controlled conditions.

As you are responsible for the safe use of your chemicals, **you must keep your registration up to date.**

Next Sealant Working Group Meeting

The next SWG meeting will be held on Wednesday, 26th September 2018 at Crona House, Hinkley. New members are always welcome to join the group and attend meetings. *On average we hold 3 meetings a year usually in a Midlands location.*

Standards update

Latest CE marking news

Members have been advised that the 2017 versions of EN15651-1, 2, 3 and 4 were not cited on the Official Journal. Without citation, these versions, which are the current versions on the National Standards bodies catalogues, cannot be used for CE marking purposes. Members are advised not to update their DoPs or packaging at the moment. I believe that the amendments proposed by CEN TC349 will NOT resolve the non-citation and there is now a further complication with news from the EC that mandates will be amended to

include VOC emission information and also that they do not want to see a mix of voluntary and mandatory requirements/characteristics in a harmonised standard. This latter point is fiercely debated within ALL CEN TCs and I will represent TC349 with the other WG convenors and committee secretariat on June 25th, immediately before a Plenary meeting. Updates will be posted on the Sealants WG page on the BASA website so watch out for this.



Chairman:
Neil
Sanders

Building Adhesives & Construction

It looks like our CEN Technical Committees will soon be busy again after the release of the recent consultation on amendments of the Construction Adhesives Mandate (M/127). On final release, this will see the integration of ER3 into all harmonised standards dealing with the release of dangerous substances in accordance with the Construction products Regulation (CPR). Standards covered under this include EN 12004 Adhesives for tiles - requirements, evaluation of conformity, classification and designation. Hopefully, at long last, the soft floor covering and parquet adhesive standards covered under EN 14259 Adhesives for floor covering – Essential characteristics and EN 14293 Adhesives for bonding parquet to subfloor – Essential characteristics.

To see the full document, please go to the BASA website.

The working group recently met up and the minutes may be found on the BACWG section of the BASA web site.

A new work item has been approved for a proposed EN ISO standard for the determination of the moisture content of

screeds/subfloors. The idea behind the project is to produce one European standard on test methods for moisture measurement, it is however, unsure if guidance will be given on what results should be. As most of you will be aware, hygrometer measurements are generally taken within our industry, either surface or in depth, whilst the use of the carbide bomb is used more predominantly within mainland Europe. Calcium sulphate screeds as well as more conventional cement-based subfloors will be included. This project will fall under the supervision of CEN/TC193 WG4, with a number of UK interested parties keen to get involved. Of interest to those of you involved in screeds and levelling/smoothing compounds, has seen the work recently completed on the revision of the standards FprEN 13813 and FprEN 13892-9 and answers the mandate (M132) These have both been posted to the BACWG part of the BASA website for information and the standards should be published later this year. The latest revisions clarify the scope, including internal and external screeds but excludes bedding mortars. CTA's – The code of practice for indoor tiling BS 5385 -1 has been out for review and a review of proposed amendments can be found on the BASA website. The new EN12004 hasn't been cited on the OJEU and therefore CE marking to this recent amendment remains problematic. A number of questions around this issue were discussed at the meeting and Lorna has kindly followed this up with her comments on the matter. These may be found within the minutes of the meeting, posted on the website.

Technical Working Groups

There has been little to no development in the subjects on the watch list of the packaging working group since the last BASA bulletin.

On 28th of September a FEICA food contact seminar entitled 'Safe adhesives for Safe Food' took place in Brussels. The proceedings can be found on the FEICA website. In September the annual regulatory seminar at the FEICA conference in RIGA will take place. The FEICA Paper and Packaging working group will also give a presentation and all BASA members attending the Conference are eligible to attend the Members seminar presentation on the Wednesday afternoon.

Mineral oils:

A FEICA guidance paper on evaluating the food contact status for adhesives and containing mineral oil hydrocarbons is available on the FEICA website: <http://www.feica.eu/extranet/tools-documents/industry-guidelines.aspx>. The mineral oil situation has many complexities. Our main concern is the lack of a validated test method for mineral oils. The current methods have difficulties in measuring the MOSH/MOAH migration and can give false positives. For instance, hydrocarbons in an adhesive might give a

The Environmental and Sustainability Working Group monitors, reviews and informs members of environmental changes, legislative updates and implications of new regulations/guidance for members, in addition to communicating future considerations and best practice tools. Over the last few months there have been a number of calls for evidence and new strategies released that are demonstrating a thorough and coordinated approach to tackling environmental issues. Most notable has been the rapid progression of addressing plastic waste and particularly single use plastics.

Government 25 Year Environmental Plan

In January 2018, the government released "A Green Future: Our 25 Year Plan to Improve the Environment". This document has a detailed account of the key issues and the strategies proposed to drive change. This includes:

- Encouraging producers to take more responsibility for the environmental impacts of their products by working with industry to review plastics use, recyclability and collection.
- Reforming the Producer Responsibility Systems
- Building on the microbeads ban
- Encouraging the development of bio based/environmentally friendly plastics



Chairman:
**Simone
Wubbe**

Packaging Adhesives

positive result but is not a MOSH/MOAH component; there are many other sources for false positives. The migration method itself can give unrealistic results.

There are current studies running on a European level to tackle the migration method and the detection of MOSH/MOAH. The Working group will draft a BASA specific position statement that will be published shortly.

Plastic packaging

Negative press regarding plastic packaging continues to grow, without any reference to

the benefits of food packaging (positive safety and protection aspects). The working group will draft a document for our members to help them to understand the arguments for continuing use of this form of packaging.

Other Issues:

The packaging group continues to monitor migration, NIAS, isocyanates, cyclic esters. There has been little movement on these subjects lately. We will keep members updated with any changes that arise. We have added styrene to the substances we monitor because this is under scrutiny with a possible hazard classification change from 2b carcinogen to a 2a classification.

FEICA packaging WG:

The FEICA Packaging Working Group meets on the 17th of October in Brussels.

PWG next meeting:

Our next meeting is on the 7th of November at Croner, Hinkley.

Active participation of our members helps strengthen BASA's impact on the adhesives industry and its relationship with FEICA. Anyone who would like to join the Packaging Working Group is asked to get in touch with Lorna Williams.



Chairman:
**Jenny
Barnett**

Environment & Sustainability

- Publishing a chemicals strategy as part of Brexit
- Exploring options to develop an early warning system to identify emerging chemicals issues
- Considering how to address chemicals in products to reduce barriers to recycling and re-use

The full document can be found via the following link: <https://www.gov.uk/government/publications/25-year-environment-plan>

Microplastics – ECHA Call for evidence

This was released by the ECHA in March. The

call was intended to gather information on "all possible uses of microplastic particles in products" with information being used to determine the impacts of potential restrictions on an EU wide basis.

The call was intended for manufacturers, suppliers, distributors, importers and any other interested party with the call for evidence closing on the 11th May 2018. In this context, the definition of a Microplastic was:

"Any polymer-containing solid or semi-solid particle having a size of 5mm or less in at least one external dimension."

The Environment and Sustainability Working Group has this as an agenda item to monitor this.

Tackling the plastic problem - Using the tax system or charges to address single-use plastic waste

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/690293/PU2154_Call_for_evidence_plastics_web.pdf

This call for evidence was designed to show changes to the tax system or charges could be used to reduce the amount of single-use plastics wasted. It was looking at this from a supply chain perspective from reducing unnecessary production, increasing reuse, and improving recycling.

The document started by asking how single use plastics could be defined and assessed what polymers are used, what the main problems are, what alternatives are available and what is essential. It asked for evidence with regards to factors influencing polymer choice in production, recycled content, recyclability and how tax could deliver better environmental outcomes. In retail, the call for evidence, asked what factors influence designs and specifications in single use plastics, volumes and types of plastic used, what factors influence consumers, what are barriers to consumers choosing alternatives, how do retailers/producers influence consumer choice and how can the tax system deliver better environmental outcomes. The document lastly looked at waste treatment and asked what barriers there are to the collection of single use plastics and how the tax system could help deliver better environmental outcomes. The consultation closed on 18th May 2018. The Environment and Sustainability Working Group has this as an agenda item to monitor this.

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Indoor Air

Harmonised Standard

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The next SGDS meeting will take place before the summer, likely in May/June 2018.

EU-LCI Working Group

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The group is looking at LCI values for around 180-190 compounds where there is disagreement between the AgBB, Belgium and French values. They may then look at LCI values for those compounds where the values are in agreement.

14001 Standard

Reminder: Deadline for transition to the new BS EN ISO14001:2015 standard is 15th September 2018.

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New Consolidated version of CLP Regulation

A newly consolidated version of the CLP Regulation (EC) No 1272/2008, up to and including the 10th ATP has been published on the Eur-Lex website <https://eur-lex.europa.eu/legal-content/en/TXT/PDF/?uri=CELEX:02008R1272-20180301&from=EN>

Technical Working Groups

Substances Very High Concern (SVHC) updates:

The European Chemical Agency (ECHA) has added 7 new substances to the List and updated bisphenol A. This table can be found on the BASA website, under the H&S working group.

The list now contains 181 substances. It can be found here:

<https://echa.europa.eu/candidate-list-table>

Authorisation updates

ECHA has reviewed the information received from public consultations and recommends the following substances which are applicable to our industry, are included in the REACH Annex XIV, also known as the Authorisation list.

The following applicable substances for inclusion are in the table below.

What does the list mean to us?

The Candidate List contains substances that have serious effects on human health or the environment. The inclusion of a substance in the Candidate List may trigger legal obligations including the duty to communicate information on substances in their own, in mixtures or in articles; and notification requirements for suppliers of articles containing such substance.



Chairman:
James Follows

Health & Safety

Once a substance is added to the Candidate List, it becomes a candidate for possible inclusion in the Authorisation List. When a substance is added to the Authorisation List, it cannot be placed in the market after a sunset date, unless an authorisation is granted. The authorisation is then regularly reviewed and reissued if alternative substances are not available.

Community Rolling Action Plan (CoRAP) updates

If a substance is on this list, it means that a Member State has evaluated or will evaluate it over the coming years. The list is called the Community rolling action plan (CoRAP). For each substance, the table (follow link

shows the evaluating Member State, the (planned) year of evaluation and a short description of the concern which led to it being placed on the list.

Documents to do with substance evaluation are also available here. They include: documents justifying selection of the substances, decisions to request more information. Member States' conclusions and Member States' final evaluation reports are included for substances for which evaluation has been finalised. Currently 91 substances are to be reviewed during 2019/2020

Visit:

<https://echa.europa.eu/information-on-chemicals/evaluation/community-rolling-action-plan/corap-table>

Remember to visit www.basaonline.com for further information and updates, or if Health and Safety is a subject that interests you and you want to be at the forefront of legislation then why not join the working group.

Please see the last minutes for the Health and safety working group on the BASA website member's area for other topics the group is working on. Contact the secretary for more details

Substance	Intrinsic property(ies) referred to in Article 57	Uses	Transitional arrangements	
			Latest application date	Sunset date
1-Methyl-2-pyrrolidone (NMP) EC: 212-828-1	Toxic for reproduction (category 1B)	NMP is mainly used as solvent in various processes in a wide variety of applications.	Date of inclusion in Annex XIV plus 24 months	Latest application date plus 18 months
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV328) EC: 247-384-8	PBT, vPvB	Additive used in adhesives, sealants and coatings	Date of inclusion in Annex XIV plus 21 months	Latest application date plus 18 months
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) EC:223-383-8	vPvB	UV protection agent in plastics, rubber, resins and cosmetics as well as in coatings	Date of inclusion in Annex XIV plus 21 months	Latest application date plus 18 months
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(secbutyl)phenol (UV-350) EC: 253-037-1	vPvB	UV protection agent in plastics, rubber, resins and cosmetics as well as in coatings	Date of inclusion in Annex XIV plus 21 months	Latest application date plus 18 months
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) EC: 223-346-6	PBT, vPvB	UV protection agent in plastics, rubber, resins and cosmetics as well as in coatings	Date of inclusion in Annex XIV plus 21 months	Latest application date plus 18 months
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5) EC: 271-094-0, 272-013-1	Toxic for Reproduction (category 1B)	Phthalates are well known to be used as plasticisers in adhesives and coatings	Date of inclusion in Annex XIV plus 24 months	Latest application date plus 18 months

PBT; persistent, bioaccumulative and toxic
vPvB; very persistent and very bioaccumulative

There are no exempted categories of uses and no review periods

Technical Working Groups

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FEICA 2018 Riga, Latvia

FEICA European Adhesive & Sealant Conference and EXPO 2018

12-14 September 2018

Radisson Blu Latvija, Riga, Latvia



www.feica-conferences.com

With Brexit on its way, Paula Fountain, laboratory service manager, 4Ward Testing, explains why she believes, when it comes to certification and standards, sticking with the status quo and sealing a good deal are so important for the sealants and adhesives market.

"At present, a single set of standards (BS, hEN, etc) can be used for product performance and certification testing, allowing us to sell our products, from the UK, into Europe with the right accreditation. The CE mark shows our commitment to meeting, or exceeding Europe-



WHAT WILL STICK AFTER BREXIT?

BASA members dinner at the FEICA conference

Members are invited to join me at the traditional BASA members dinner held during the FEICA conference immediately after the cocktail reception on Wednesday 12th September.

If you are attending the FEICA Conference in Riga (see the advert to the left) and would like to join us, please let me know (secretary@basa.uk.com).

I will let you all know the final arrangements via my update column on the BASA website closer to the date.

11th ATP to CLP Published

The 11th Adaptation to Technical Progress (ATP) to the Regulation on the classification, labelling and packaging of substances and mixtures (CLP) has been published and can be found on the Eur-Lex website.

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L_.2018.1.15.01.0001.01.ENG&toc=OJ:L:2018:115:TOC

Applicable from 1st December 2019 the 11th ATP now only contains Table 3 (the Dangerous Substances Directive (DSD) classifications have been removed). It also now contains formal translations of chemical names.

This means that all suppliers should now revise the labelling and packaging of substances and mixtures to ensure that the new formal translations are used. This will need to be done by the 1st December 2019 – there will be no sell-through period available for products placed on the market before December 1st 2019.

an standards and is the result of, quite literally, generations of negotiations across the European community."

The full article is published on page 40-41 of the Building Products magazine (Issue May 2018) view an online PDF version at: http://buildingproducts.co.uk/issues/may2018/page_41.html



Circular Economy Package

The European Council of Ministers has adopted the Circular Economy Package unchanged from the February text. This means that it should come into force shortly giving a 2-year implementation period for Member States INCLUDING the UK.

The key features of the Package are listed here. For the UK, it is the key driver for reform of the packaging regulations as the PRN system will not deliver 'Full net cost' recovery ie a shift from local authorities paying for the collection of packaging waste to producers. It is expected that this will require to producers to pay not only for waste collected for recycling, but also for the collection and disposal of packaging in residual waste with expectations that this could push the annual bill to producers up from the current £60-100m to £500m+ from as early as 2021.

Resource and Waste Strategy

The 25 year Environment Plan published in January was seen a high on long term ambition but low on short term intent. Government excused this on the basis that the detail would be announced in the

Resource and Waste Strategy with more recent indications by Gove that this would be published in September. This will contain a range of measures and proposals and seems likely to be the most important policy document in this area for a very long time. Alongside - or shortly afterwards - will be three further consultations on a Deposit Return Systems revised packaging recycling targets (that will be more ambitious than the CEP targets) and options for packaging regulations reform, so Autumn/early winter looks like being very busy.

Environmental Governance

The Government has also been considering the requirement to replace the environmental oversight provided by the European Commission. Earlier this month saw the publication of a consultation on the Environmental Principles and Governance Bill which will see the formation of a national watchdog for England, initially. There have been widespread comment that it has little direct power and is more of a watch puppy. The consultation closes on 2nd August.

Clean Air

Continuing the consultation theme, the

Government has also announced a Clean Air Strategy Consultation. For those in urban area with wood burning stoves, it could see the end to certain fuel types! The consultation closes on 14th August.

Humour

Some of these seem particularly appropriate at the moment.

'The government's view of the economy could be summed up in a few short phrases: If it moves, tax it. If it keeps moving, regulate it. And if it stops moving, subsidize it'. Ronald Reagan

'I have left orders to be awakened at any time in case of national emergency, even if I'm in a cabinet meeting'. Ronald Reagan

'Today's public figures can no longer write their own speeches or books, and there is some evidence that they can't read them either'. Gore Vidal

'In politics, absurdity is not a handicap'. Napoleon Bonaparte.

'On my arrival in the United States I was struck by the degree of ability among the governed and the lack of it among the governing'. Alexis de Toqueville

'Politics makes strange bedfellows rich'. Wayne Haisley

'You can fool all of the people all of the time if the advertising is right and the budget is big enough'. Joseph Levine

'A lie can travel halfway around the world while the truth is putting on its shoes'. Mark Twain

'Diplomacy is the art of saying 'Nice doggie' until you can find a rock'. Will Rogers

Article reproduced from News Update from Phil Conran of 360 Environmental, visit <https://www.360environmental.co.uk/> to subscribe to Phil's regular bulletins. 360 Environmental was started in 2007 by Vicki Cooper and at the end of 2008, was joined by Phil Conran as co-proprietor and Director. Their in-house capability and work with a number of specialist Associates covers a wide range of compliance expertise.

Diisocyanate restriction proposals update

The restriction proposals developed by industry in conjunction with the German competent authority and including training proposals with the possibility of exemption for demonstrable intrinsically safe product/ applications combinations was submitted to ECHA in October 2016.

Since then additional information has been provided by industry and the proposals have undergone public consultation. The REACH Risk Assessment Committee (RAC) and the Socio-Economic Analysis Committee (SEAC) have also prepared draft opinions on the proposals, which have also undergone public consultation, finishing at the end of 2017.

The final version of the RAC and SEAC opinions are not now expected to be passed to the meeting of the Member

States Competent Authorities (CARACAL) in Autumn 2018. Meanwhile some national competent authorities such as the UK have published their own opinions suggesting that this further legislation is unnecessary as the associated risks are already adequately controlled.

Once accepted the next stage will be for the legal text to be drafted by the Commission for discussion in the REACH committee along with the drafting of guidance documentation by ECHA, which will not now be available until sometime in 2019.

The final implementation period is still to be decided. Industry has been asking for a six-year period to implement the training requirements, where the RAC & SEAC opinion proposes two years.

Jim Palmer, BASA Technical Officer



What Stage of the economic cycle is the UK in? Roger Martin-Fagg

A cursory glance at this chart would suggest the latest cycle began in 2010. The typical cycle is 7-9 years long, so we can forecast the UK is close to a cyclical peak. It is also possible to argue that the recovery was so weak until 2013 that this peak may not be reached until 2020 or 2021.

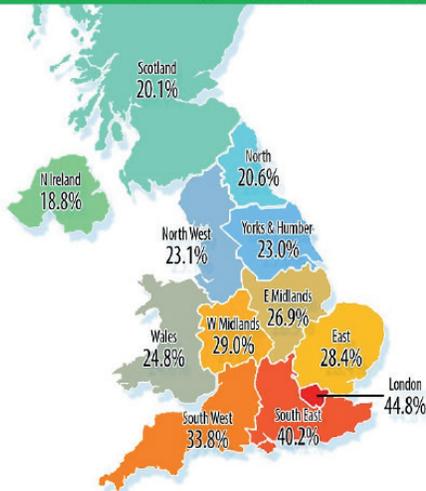
The first quarter of 2018 has been weak for both the UK and the EU. The beast from the east storm probably halved the quarterly growth rate to around 0.2%, so we must discount this weather determined data and look at the trend. Let's look at the characteristics of a cyclical peak

The labour market tightens with wages growing faster than productivity so that either profit margins are eroded or inflation increases. Currently, UK wages are growing at 2.8% inflation is 2.5% productivity growth is 0.8% and unemployment is 4.4%. This data supports the tight labour market observation.

Long run interest rates begin to rise due to heightened inflationary expectations. The 15 year gilt yield was 1.4% a year ago. It is now 1.7%. Not a dramatic increase, but on the way up.

Commercial property yields fall. This is because rising demand boosts capital values but not rental prices, which are usually fixed for a number of years. This is happening for both primary and secondary property. Prime yield has fallen from 7% in 2009 to 4% now, and secondary yield from 11% to 8% over the same period.

Percentage of wages that go on paying the mortgage



The P/E multiple for shares rises above long run trend. Here the evidence is mixed. The FT250 P/E is 19 which suggests that shares are priced at long run trend. The FT100 is best ignored because the exchange rate and not the UK is the main driver of share prices. Overall UK equities are not overpriced. Housing becomes unaffordable near the top

of the cycle. Contrary to popular belief UK houses are more affordable today than they have been for the last 10 years. Last year UK households spent 29% of their after tax income on mortgage costs. In 2007 it was 48% and in 1996 (when house prices had been falling for 5 years) it was 23%. Please note the chart above refers to after tax wages. London and the SE are always the exception.

The affordability index today is below 1984-1991 and 2004-2009. This is because money is cheap. However the Bank of England will raise rates this year. Bear in mind that dearer money does not mean reduced affordability if wages are rising faster than interest rates, which can be expected.

The Government announces the budget deficit has dropped faster than forecast and claims economic competence. The charts shows that for most of the last year some of the national debt has been paid down.

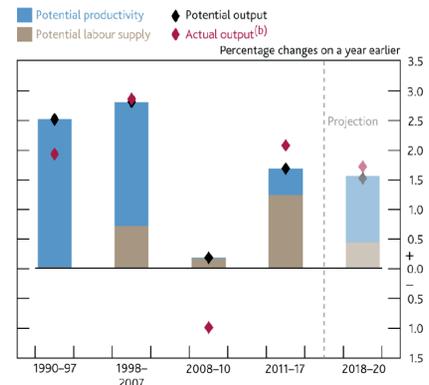
Overall my view is that we will reach the top of the cycle over the next 12 months. But, because Brexit has increased uncertainty, reduced capacity creation, and trashed household real incomes, the top is much less frothy than is typical. Therefore the slowdown should be gradual rather than sharp. And it should last the typical 2 years. That is assuming a soft Brexit with no major trade disruption. Most of my readers are SME owners. The best indicator of an impending downturn is large companies failing to pay your invoice on time with a list of pathetic excuses!

The future path of interest rates

The monetary policy committee have to look ahead two years and guess how the economy will be performing. Their remit is to ensure CPI inflation is 2% whilst taking broader economic considerations into account. They accept that the UK is currently running at capacity but are surprised that wage inflation remains relatively subdued. The latest money and credit data suggest that there is sufficient monetary expansion to enable 3% wage inflation. Productivity growth suggests an inflation rate much closer to 3% than 2%. So interest rates have to be increased to moderate the demand for credit and thus the growth in the money supply. Remember when a bank makes a loan it simultaneously creates money. The money supply data for March shows a slow-down in the growth of lending and money supply, possibly due to the weather. Based

on this data the MPC will delay increasing interest rates until they are clear of the trend. The chart below will be a guide to the Bank's thinking.

The Bank of England expects growth in the economy's potential supply to be subdued



Source: ONS and Bank Calculations.
(a) Annual averages. Faded diamonds and abrs are projections.
(b) Chaine-volume measure, based on the backcast for the final estimate of GDP. The diamond for the 2011-17 average includes Bank staff's projection for growth in 2017 Q4.

The chart shows that the UK full employment growth rate has dropped from 2.5% pa to 1.5% pa. These estimates could be wrong, but they will be a deciding factor on the path of interest rates. Lower growth potential requires lower money supply growth, which requires higher interest rates.

Looking Ahead

UK retail should have an improved second half of the year. Better weather plus real growth in incomes should drive consumption. Regrettably if the price of oil continues to rise discretionary spend will be constrained. Brent is currently \$75 per barrel. I would expect it to stay around this level and do not expect \$100. US shale supply is very flexible and at \$75 a lot of new capacity is being tapped. However, if we do see \$100 a barrel then expect a global slow down. The EU and the US will continue to grow and together they are driving volumes up for Asian exporters. The risk is rising global inflation and consequential increases in interest rates. Here is the forecast for the UK I made earlier this year:

- GDP in real terms will be 1.9%
- Wages will grow at 3.5%
- Inflation will stick at 3%

The full May 2018 economic update can be found on the BASA website.

Don't forget to put this years date in your diary - Saturday 10th November 2018!



The 2017 dinner dance in pictures



Record numbers at Chester, don't miss Bath this year!



Bookings for the 2018 Dinner Dance will be open late June 2018

What's on

12-14 September 2018

FEICA European Adhesive & Sealant Conference and EXPO 2018, Riga

The theme of this year's business forum is "Adhesives and sealants in the digital age". Check out the FEICA Conference website for keynote speakers and confirmed EXPO exhibitors. Register at: <http://www.feica-conferences.com/>

9-20 September 2018

XIX Congress of Adhesion and Adhesives, Madrid

The International Congress will respond to the new needs of the construction industry and look at the development of new adhesives and applications to the new Habitat and its inclusion in the circular economy. Register at: <http://congreso-adhesivos.es/en/>

BASA event: 10 November 2018

BASA Dinner Dance, Apex City of Bath Hotel
Bookings open end of June via our dedicated events : www.basaevents.co.uk

15 - 17 November 2018

The Skills Show – Birmingham NEC

The UK's largest skills, apprenticeships and careers event. The Skills Show is divided into five areas, each providing a focus on particular industry sectors: Construction & Logistics, Engineering & Technology, Health & Hospitality, Digital & Business, Creative & Design. Find out more and register at: <https://www.worldskillsuk.org/directions/our-events/worldskills-uk-live>

BASA event: November 2018

BASA Open Industry Forum, Croner House Hinckley
Further details to be posted on website

CBA Events open to non-members

26 JUNE	SDS "HOW TO USE THEM?"
12 JULY	TRADE CONTROLS MASTERCLASS
19 SEPTEMBER**	TRADE CONTROLS MASTERCLASS
21 SEPTEMBER**	HEALTH & SAFETY FOR OFFICES (LONDON VENUE)
27 SEPTEMBER	GTDP CONFERENCE
2 OCTOBER	AED AND CHEMICAL FIRST AID (NEW WORKSHOP – NEW DATE)
9 OCTOBER	CHEMISTRY FOR THE NON-CHEMIST
10 & 11 OCTOBER	CLP CLASSIFICATION (2 DAY COURSE)
17 OCTOBER	BIOCIDES (NEW WORKSHOP)
23 OCTOBER	STANDARD OPERATING PROCEDURES (SOP) INTRODUCTION (NEW WORKSHOP)
6 NOVEMBER	EMERGENCY RESPONSE COMAH
19 NOVEMBER	DGSA EXAM TECHNIQUES & PITFALLS
21 NOVEMBER	COSHH
27 NOVEMBER	HUMAN INTEGRITY IN WAREHOUSE FACILITIES (NEW WORKSHOP)
28 NOVEMBER	HUMAN FAILURE ANALYSIS IN WAREHOUSING (NEW WORKSHOP)
** SUBJECT TO DEMAND	

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Society of Adhesion & Adhesives • BSI • UK Food Paper Packaging Chain • The Construction Products Association