Chemicals northwest

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Summer 2025

A spotlight on the vibrant north west chemicals sector

Elements

In this issue:

Chemicals Northwest 2026 awards

19th March 2026

We're back at the wonderful...

Titanic Hotel Liverpool

2025 Winners

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Contents Summer 2025

Membership

Would your company benefit from joining an organisation that supports and promotes the chemistry-using sector in the Northwest? Do you want to understand more, and contribute to, the industry issues within the region?
If you are a manufacturer, chemical user or offer products and services to the sector, why not join us today?

https://www.cia.org.uk/chemicalsnorthwest/Membership/Benefits-Costs/

2025 rates. ***(from 1st April 2025)***

Micro corporate membership	(1 - 10 employees)	£500.81 + VAT
Standard corporate membership	(11-100 employees)	£ 871.07 + VAT
Large corporate membership	(100+ employees)	£1108.53+ VAT

Our membership year runs from 1 April to 31 March. A pro-rata basis usually applies to joining at other times in the year and we'd be happy to discuss on application.

Welcome

Dear Reader,

We are delighted to bring the Summer edition of Elements to you with the latest roundup for the quarter, and it has been a busy quarter!

We lead into the magazine with a very important "Date for your diary"... The 19th March 2026 at the Titanic Hotel in Liverpool for the 2026 Chemicals Northwest Awards. Yes, we enjoyed it so much and had such excellent feedback on the venue that we have rebooked for 2026. Further details will follow in due course.

We hosted an event in conjunction with John F Hunt Regeneration on the 1st May. PFAS Contamination on Industrial Sites: Understanding Liability, Maintaining Compliance and Creating Opportunity. Keith Davidson, Partner at Irwin Mitchell, opened the session with a legal overview of current PFAS obligations and emerging liabilities. He was followed by Matt Logan from Ramboll, who examined how the Environment Agency is implementing regulation on the ground—particularly through mechanisms like Regulation 61 notices—and the implications for site permitting. Finally, Dr Sam Hall provided practical insights into the latest techniques for identifying and managing PFAS contamination, offering pragmatic, real-world solutions for both active and legacy sites.

We hosted our third Sustainability interest group on the 14th May. The event was facilitated by CNW member Roger Wareing from Wareing Consulting. The event started with a focus on the results from our CNW Members survey on Environmental Sustainability. We are had our first case study and were delighted to welcome Elaine Littlewood, Sustainability and Improvement Manager at RS Clare & Co Ltd., who spoke talking about RS Clare's sustainability journey so far, where they are heading and why. We were also joined by Suzanne Tse, Health & Safety Manager from DSV Air & Sea Ltd presenting the DSV case study on how they won the Chemicals Northwest 2025 Sustainability Award. DSV's Sustainability Journey: From Action to Award. A write up about this event can be found on page 11.

On the 15th May we attended the Business of Science Conference in Liverpool. What a fantastic event! Since 2016 the Business of Science Conference has been bringing together the brightest minds from across the science and innovation ecosystem for a day of exchanging invaluable insights and building relationships. The conference saw business leaders, industrialists, academics, and policymakers explore the latest opportunities and challenges in the business of science. The conference brough industry professionals together with students of all ages to help nurture scientific and innovative ideas that could become the products and services of tomorrow. 2025 saw a packed agenda of future viewpoints, panel discussions, and breakout sessions which explored how Skills, AI, climate solutions, infrastructure, and life science advancements will impact the business of science. The day culminated with an awards ceremony celebrating ambitious students who aspire to be our scientific leaders of tomorrow in the business of science. A write up about the conference can be found on page 27.

Our final event for May was CHEMUK 2025 on the 21st & 22nd May at the NEC in Birmingham. The biggest CHEMUK event to date. I can safely say, the event was excellent and very well thought of by all who attended. It was an exceptionally busy couple of days and we caught up with members and colleagues at this fantastic event. Another date for your diary – 20th – 21st May CHEMUK 2026!

At the time of going to print, our 11th June breakfast event was due to take place in Daresbury. A write up will be featured in the Autumn edition of Elements.

As always, please keep your good news stories, case studies and thought leadership articles coming in to be featured in Elements.

About us...

Chemicals Northwest is an established business network owned by the Chemical Industries Association.

With around 130 members we actively promote this important regional sector and our objective is to

help membership to grow through;

- facilitating networking events, common interest groups and interactive workshops, all aimed at covering topical industry issues.
- supporting projects and programmes that identify and enhance business performance and generally support continuous improvement across the sector.
- promoting science and engineering based skills, helping to address the region's future needs.
- improving the image of the industry overall, including generating a positive reputation, through communicating achievements and success.
- contributing to the industry's strategic voice and the national growth agenda aligned to the work of the Chemical Industries Association.
- connecting the community of chemistry-using businesses and the vital supply chains here in the Northwest.

Here are the main features and benefits of membership...

- Annual Awards Dinner
- Breakfast Networking events
- Partner Events
- Common Interest Groups
- Quarterly Elements Magazine
- Website promotion and profiles
- Monthly E-bulletin & ad hoc bulletins with latest sector information
- LinkedIn Groups

Find out more here - https://www.cia.org.uk/chemicalsnorthwest/membership

ReAgent Chemical Services has achieved a King's Award for Enterprise

ReAgent Chemical Services (ReAgent) has been honoured with a prestigious King's Award for Enterprise in the International Trade category.

Founded in 1977, ReAgent is a family-run chemical manufacturing company employing 70 people. It develops and manufactures chemical solutions for companies across a wide range of global industries.

Rich Hudson, ReAgent's CEO and third generation owner, said: "We are incredibly proud to have received a King's Award for Enterprise in International Trade. Since my grandfather started ReAgent almost 50 years ago, we've focused on sustainable growth, exceptional service, and building trusted relationships with customers around the world.

"Over the years, we've also employed many local Cheshire families, and being part of our local community has always been just as important to us as international trade.

"This award reflects the hard work and dedication of our entire team. It's a moment of real pride for us all."

The King's Awards for Enterprise, formerly known as The Queen's Awards for Enterprise, were renamed in 2023 to reflect His Majesty The King's commitment to continuing Her Late Majesty Queen Elizabeth II's legacy of celebrating outstanding UK businesses. Now in its 59th year, the programme is the UK's most prestigious business awards scheme.

About ReAgent Chemical Services: ReAgent is a bespoke chemical blending and packing company providing high quality products and outstanding customer service globally. They hold multiple certifications for quality and sustainability.

For more information, please visit www.reagent.co.uk

ReAgent's first factory

Derek Millard, ReAgent's founder, in the 70s

ReAgent today

Rich Hudson, ReAgent's Owner & CEO

RAS

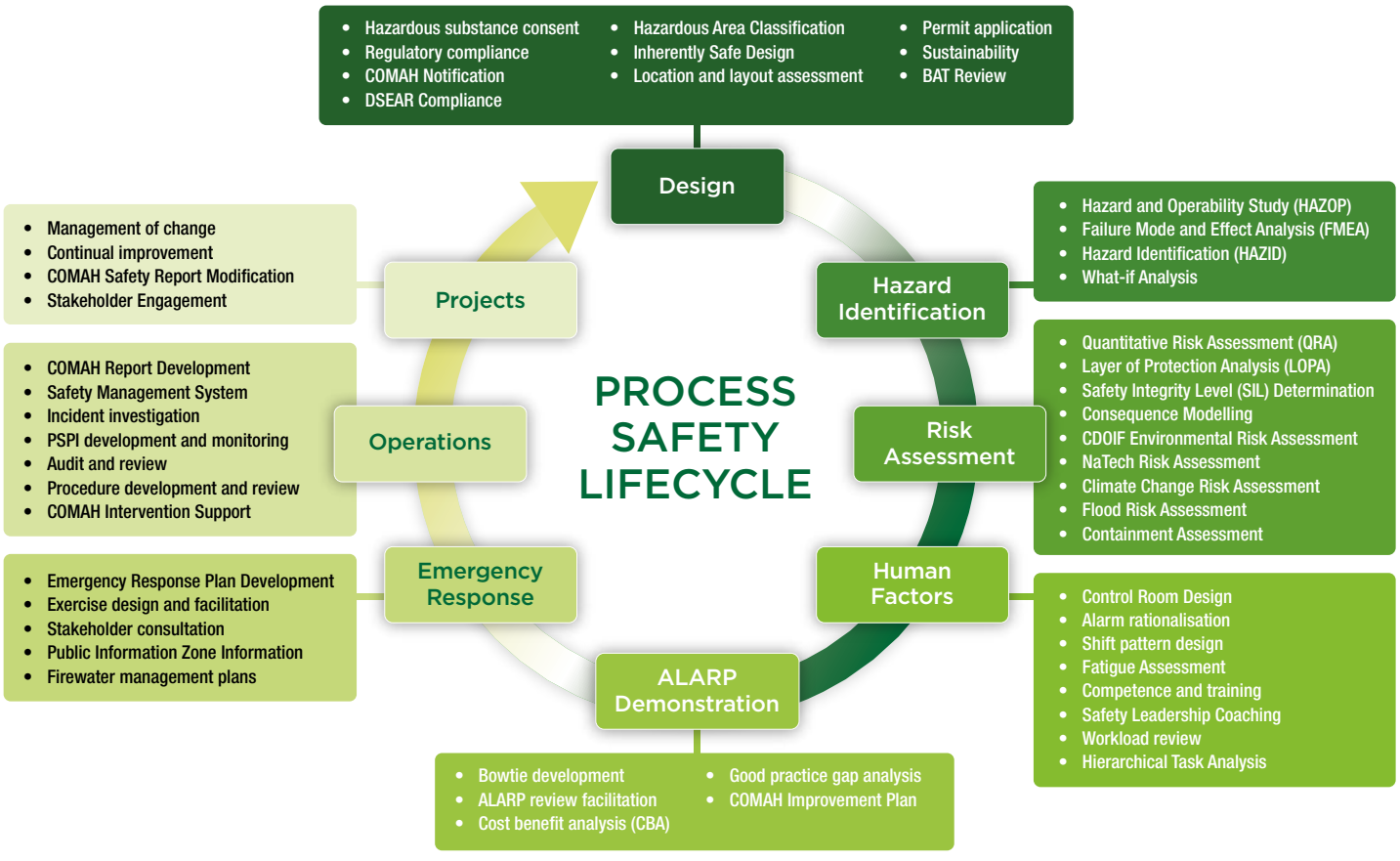
Safe | Smart | Sustainable

RAS Limited is a well-established, specialist risk consultancy working with an extensive portfolio of large corporate clients which manage complex industrial sites and businesses. Our team of expert consultants have experience in a wide range of sectors - from pharmaceutical to energy, aviation and specialist chemical sectors.

We are a Chester-based company with a national and international client list. We work differently because of our great team of specialists. Our multi-disciplinary approach to solving challenges enables us to stand out from the crowd. We are passionate about supporting industry to be safer, smarter and more sustainable.

People are the centre of everything we do. We do not believe in off-the-shelf solutions. We partner with our clients to find the best solution for their particular challenges and businesses.

PRODUCTS AND SERVICES



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Incorporating Sustainability into Process Safety Management

The UN defined sustainability as "meeting the needs of the present without compromising the ability of future generations to meet their own needs." The impact that our industry has upon the world around us is becoming ever more critical in driving decision making. Embracing the principles of sustainability can help our sector become more resilient to climate change, rising energy costs and scarce resources.

During modifications or new projects, sustainable principles can be applied to minimise impact upon our planet by reducing impact to the environment, the climate and human health at each stage: sourcing of raw materials and resources, production of equipment, use during operating life and through to end-of-life disposal and decommissioning of plant.

The following principles should be considered for new processes:

- Materials – are there alternatives that are inherently safer, with a lesser impact upon the environment that we could use for this project?
- Technology – are new technologies available that achieve our desired output and are more sustainable?
- Energy - can the energy demands be minimised and energy re-used to maximise efficiency to minimise reliance on rising energy costs?
- Waste – can we optimise resource management to minimise the amount of waste generated during production, throughout the operational life and at the end of its lifetime?

At RAS we integrate sustainability into our wider process safety thinking, to capture improvements from this perspective into the overall design. For example, when undertaking HAZOP, it is possible to add supplementary guidewords for process safety to highlight any issues related to sustainability, which is easy to implement and can identify easy wins when it comes to designing a more sustainable process. A more efficient process is likely to be cheaper to run and easier to fix, with a lower impact environmentally.

For emerging green technologies, process safety tools can be used to manage the business and project risks, to provide assurance and manage the sensitivity associated with new projects. By ensuring that projects understand the risks, it is possible for them to progress and minimise the potential for a significant incident, which would be reputationally harmful to an emerging sector. This principle can also apply to the application of greener energy sources, to manage the risks associated with the use of batteries, wind turbines or solar panels at industrial sites.

Where existing infrastructure is to be repurposed or alternative technologies are to be implemented as part of the move towards net zero, management of change studies can be used to safely manage the transition.

For existing facilities, the impact of climate change upon the process should be evaluated to account for the increased prevalence of natural hazards, which are increasing in both frequency and severity. RAS have been at the forefront of championing the assessment of NaTech (natural hazard triggered technological) accidents at high-hazard sites, to identify where facilities may be vulnerable to natural hazards and taking measures to mitigate the potential impact, both now and in the future climate. Climate change adaptability assessments can also be used to adapt high hazard processes to the evolving climate and make industry more resilient to a changing climate.

For new projects, thinking about the whole lifecycle on a broader basis and focusing on what would be optimal to run in the long run rather than what is cheapest to implement under project CAPEX is likely to be beneficial from all viewpoints, to save money, optimise the process, minimise operational demands going forward and emphasise sustainability. Whilst the premium costs of initially installing more sustainable tools and technologies may appear as a reasonable deterrent, promoting longer term thinking rather than what is cheapest at face value during procurement is likely to provide significant benefits. For example, a lower operating cost with a lower energy demand will be cheaper overall but may be more expensive to install initially. This long-term outlook is the heartbeat of sustainable action.

For existing assets, when evaluating further measures to implement to manage the ongoing risk of the operation under the principle of ALARP, sustainability should be included in the consideration as part of the benefits of the measure against the cost.

Integrating sustainability into our process safety workstream and using our existing toolkit, will support our industry to manage the transition to net zero in a safe, smart and sustainable way.

About RAS Limited

RAS Limited is a Chester-based process and technical safety consultancy with 30 years of experience across sectors including pharmaceuticals, energy, aviation, and chemicals. With a team of expert consultants, RAS is a trusted partner for managing complex risk in industrial operations and delivering long-term value. **If you would like to get in touch, please email us here or go to our website: https://ras.ltd.uk**

Alexandra Hurst, Senior Consultant - RAS Limited

A decade of opportunity. A 10-year pathway to secure the future of the UK Chemical Industry

While recent trends point to a steady decline of the Chemical Industry, there remains a narrow window of opportunity to reverse course and re-establish competitiveness. A new report from the Chemical Industries Association (CIA), *Project 2035: The Chemical Industry Transition – Pathways for a Resilient and Sustainable Future*, commissioned from S&P Global, explores four potential scenarios for the sector's future. The findings, however, paint a sobering picture—one in which the UK is drifting toward the least favourable outcome—but the report also provides a clear roadmap to a more resilient and prosperous future.

The chemical industry's role in modern life is fundamental. From consumer goods to clean technologies, almost everything we depend on contains or relies on chemicals. For over 150 years, chemistry has formed a foundation of industrial development, and the UK has long played a significant role in that story. Yet, despite this proud legacy, the industry's long terms viability is under threat.

The UK chemical sector remains a cornerstone of the national economy. It provides highly skilled employment, with salaries 27% higher than the national average, contributes 15% of the country's total exports and a highly productive sector with £200,298 GVA per employee. Its importance is indisputable. But without decisive intervention, its future is uncertain.

Project 2035 sets out the challenges ahead and what needs to be done—by both government and industry—to support economic growth, environmental progress and long-term resilience. The report is clear: the UK chemical sector can and should be a central player in the government's pursuit of sustainable growth. Yet it is currently at a disadvantage compared to international competitors, many of whom benefit from significantly lower energy costs, supportive carbon policies, and more consistent government backing for manufacturing.

Despite these structural disadvantages, the CIA remains optimistic. The report identifies 17 realistic policy and investment enablers for sector growth, five of which are highlighted as game-changers. These require urgent and coordinated action from both government and industry.

From government, three strategic priorities must be addressed:

1. **Competitive energy and raw materials:** build a wider level playing field opposite competitor energy prices (including removal of the UK-only carbon price support levy).
2. **Regulation for growth:** Carbon policies that fully address carbon and investment leakage and earmark revenue to support industrial decarbonisation.
3. **Skills for the future:** Build a skills partnership between industry, academia, government and trade unions to rewrite the educational and working life of the UK population.

The actions undertaken by chemical businesses across the UK are equally critical to enabling growth, such as accelerating UK carbon capture utilisation and storage, facilitate low-carbon hydrogen production, scale up UK recycling capability, rebuild UK chemical supply chains for a resilient, low carbon economy, ensure research and innovation leads to UK manufacture.

Our Government's ambitions for economic growth, environmental progress and social inclusion over the next decade will, to a large extent, be realised by key foundation sectors such as the chemical industry. As a result, the CIA has been providing inputs for the development of a forthcoming national industrial strategy.

> "The UK chemical industry is the foundation of our economy and our national security. The critical raw materials we supply for life sciences, clean energy, defence, water and food security plus many other needs, can be exclusively made in this country. Project 2035 shows how we can do that".
>
> ***Martin Ashcroft - Managing Director Tata Chemicals Europe and President of the Chemical Industries Association***

> "Project 2035 is a massive opportunity for the UK. If we get this right then the UK chemical sector can grow and reclaim its place as the essential supplier to UK and international manufacturing. Government and industry need to move quickly, let's get on with it."
>
> ***Steve Foots, Chief Executive of Croda International***

The vital importance of the chemical industry is beyond question. Failure to act will inevitably result in further site closures and, with 96% of all manufactured goods reliant on chemical inputs, an increasing dependence on other nations to meet even our most basic needs. In light of recent global events—including a pandemic and a war in Europe—can the UK really afford to surrender such strategic capability?

Project 2035 is not just a report - it is a call to action.

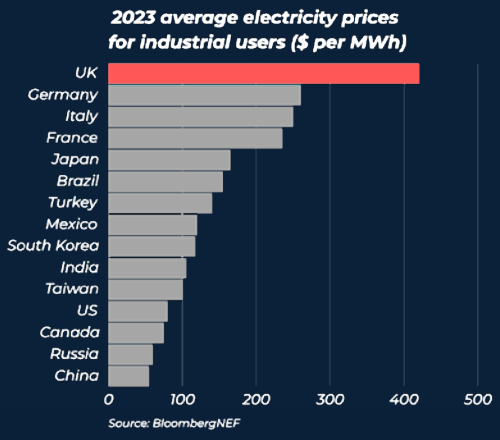
Please click on the front cover or visit - https://www.cia.org.uk/cia-news/the-chemical-industry-transition-pathways-for-a-resilient-and-sustainable-future/1015.article

A Shock to the System: How High Electricity Costs Impacts UK Manufacturers... and what you can do about it

The UK's manufacturing sector is a cornerstone of the economy, contributing significantly to employment, innovation, and exports. However, UK manufacturers face high energy costs that have risen sharply over recent years, impacting operational expenses, competitiveness, investment and growth.

This article explores the effects of high energy costs on manufacturers, and their supply chain, the challenges they face, and pragmatic strategies that work, including how a Chemical Northwest Member are now saving seven-figures a year on their energy costs.

UK's Energy Cost Disparity



UK manufacturers bear some of the highest electricity costs in the OECD (Organisation for Economic Co-operation and Development); driven by regulatory frameworks, market dynamics, and the transition to renewable energy sources.

Impact on UK Manufacturers

Increased Operational Costs: High energy costs lead to increased operational expenses, particularly for energy-intensive industries like chemicals manufacturing, leading to plant closures such as INEOS's synthetic ethanol facility at Grangemouth. These costs erode profit margins, reduce competitiveness, and limit investment in innovation and expansion.

Energy Price Volatility: The unpredictability of energy costs makes planning and budgeting challenging. Manufacturers must develop strategies to mitigate price fluctuations, such as investing in energy-efficient technologies and diversifying energy sources, to negotiating improved energy contracts and avoiding excessive uplift fees.

Transition to Renewable Energy: The shift to renewable energy is crucial for environmental sustainability but presents challenges to manufacturers due to the substantial initial investment required whilst maintaining consistent access to the (expensive) UK Grid.

Strategies and Solutions

While greener energy is essential for long-term sustainability, it has contributed to short-term cost burdens for manufacturers. Energy-intensive industries, especially chemicals, can overcome these challenges by adopting:

Energy Efficiency Measures: Investing in these measures can reduce energy consumption and lead to significant cost savings. Bonham & Brook has partnered with DCC plc, the FTSE100 energy transition and decarbonisation experts, to work with Manufacturers in upgrading machinery, improving insulation, and implementing energy management systems to enhance competitiveness.

Diversification of Energy Sources: Diversifying energy sources can help chemical manufacturers manage costs and reduce dependence on volatile energy markets. Options like combined heat and power (CHP) systems, biomass, and other alternative energy sources can provide stable and predictable energy pricing.

Government-Backed Energy Tax Incentives: Chemical Manufacturers are eligible for significant tax incentives known as the EII (Energy Intensive Industries) schemes; reducing energy costs **~30%** for up to 5 years. EII savings can reinvested in sustainable and energy-efficient strategies, generating additional cost savings for years to come.

However, **less than 2%** of UK manufacturers with EII qualifying SIC codes have successfully applied for the EII tax exemptions, due to a lack of awareness or companies incorrectly assuming they're not eligible when they are!

With offices in London, Glasgow and Manchester, Bonham & Brook's dedicated EII Tax Consultants work with manufacturers throughout the UK and across multiple sectors, with notable success in chemical manufacturing.

Chemicals Northwest EII Success

Chemical Northwest member Lanxess (LXS) engaged Bonham & Brook to identify eligible energy tax incentives. Bonham & Brook successfully applied to the EII scheme on LXS's behalf, saving precious time and delivering substantial savings. As Paul Dunne, Lanxess GPL Strategic Buyer (Indirects) highlights:

"When LXS Chemical engaged with Bonham & Brook, [LXS] wasn't fully aware of the potential impact the Energy Intensive Industries Exemption could have on its bottom line. However, taking the leap proved to be a game-changer.

The results spoke for themselves. The implementation of the EII scheme delivered substantial savings (seven-figures yearly), not just for LXS Chemical's business unit but also within the broader KPI savings framework. The success of the initiative exceeded expectations and demonstrated the power of a well-executed strategy.

For businesses hesitant to take the first step, the Lanxess case study serves as proof that the right expertise through Bonham & Brook can unlock savings and efficiencies that were previously untapped. If you're on the fence, let this be the reassurance you need to move forward with confidence."

For information on Energy Intensive Industries (EII) tax incentives and compensation, visit www.bonhamandbrook.co.uk/energy-tax-relief

To discuss how Bonham & Brook can help your business contact Jon Menzies at jmenzies@bonhamandbrook.co.uk or Call/WhatsApp +44 (0) 7474 478228

Poison Centres and Emergency Response
- An exercise in reading, and translating, the small print

We are well into 2025 now and have long passed the final transitional deadline for the introduction of EU Poison Centre notification for all chemical mixtures with a physical or health hazard (also known as CLP Annex VIII). A piece of legislation that was prescribed as a solution to 'harmonise the patchwork of member state national requirements'.

And if we overlook for a moment the mild panic over its accidental introduction, and subsequent revocation in Great Britain, it seems like a good opportunity to step back and evaluate whether it has indeed reduced the overall regulatory burden in Europe.

Prior to the introduction of Annex VIII, the requirement for Poison Centres still existed (under CLP Article 45) – it was simply left to the individual member states to interpret and implement that requirement. This, as you would expect, led to plenty of diverse and 'interesting' systems with differing levels of success. From personal experience, trying to notify a product in France made glaciers look speedy, whilst Spain seemed to want miniscule amounts of money, repeatedly – making an enemy of every corporate finance department.

So, in theory, implementing a harmonised notification portal can only be a success story. All EEA countries, except Bulgaria, accept PCN through the portal. And ECHA themselves claim that only 3 member states are levying fees for the notification - Belgium, Hungary, and Italy. A situation that is considerably less complex than the variety of national registers and fees in place prior to Annex VIII.

Yet, those of you who have gone on to submit Poison Centre notifications will know that the reality looks a lot different from ECHAs rose tinted view. Many of the member state regulations were never withdrawn or updated leaving national requirements in place in addition to the ECHA portal responsibilities.

For example, Croatia has maintained its requirement for a Registry of Chemicals - an SDS register in Croatian language which serves as the resource for their Poison Centre. It is mandatory to submit an SDS for any product subject to Article 31 of REACH to the registry and there is an inclusion fee per document. If an SDS is not submitted, or the SDS is found to contain errors, the Croatian authority is permitted to withdraw the product from sale.

These requirements fall under the Croatian Chemicals Act, and the Croatian Ordinance on keeping a register of chemicals. Both of which are published in Croatian in the Croatian Official Gazette. The Croatian toxicology service performs checks on the content of the SDSs (as well as providing emergency response information) meaning that they would be reducing their level of service if the registry is removed. The problem is that nowhere on the ECHA website, Poison Centre portal, guidance notes or FAQs will you find any reference to this additional requirement.

Nor is it a one-off. Only directly comparable submission steps have been removed from national legislation. Leaving seventeen EEA member states with one or more additional requirements that is not included in the ECHA Annex VIII information and can result in a product being non-compliant with the Poison Centre and Emergency Response requirements. Eight of them will charge additional fees, without which your carefully submitted EU Portal PCN may be null and void.

EU Poison Centre Notification and Emergency Response has become a flagship program of harmonisation. Whilst beneath the surface lurks a complex tapestry of national registers, provincial poison centres (Italy), private poison centre service contracts (Germany), indemnity waivers (Ireland) and annual reporting requirements (too many to mention!)

If you're wondering why your collection of Portal submissions remain stubbornly stuck at 'received' status but never seem to progress further, consider if you are missing any national legislation requirements? Your regulatory experts may indeed be experts in reading the small print, but it does become a little harder when the small print is in 24 languages and not readily translated. And it is substantially harder when the celebrated headline is that Poison Centres are now 'Harmonised' across the EU!

Article written by Alison Potts, Associate Director of Chemical Compliance at WSP

For further information please visit - https://www.wsp.com/en-gb

CNW Sustainability Group

Former industrial chemist now Business Sustainability/ESG consultant Dr Roger Wareing PIEMA, reports on the latest from the CNW Sustainability Group.

The CNW Sustainability Group was launched in Autumn 2024 to support CNW member companies to successfully navigate this emotive, complex, and often confusing space. We have since refined three clear themes which resonate with members' needs and where we can be genuinely additive (see BOX below). These in turn are aligned with Chemical Northwest's mission to improve the sustainability, competitiveness, and image of our industry.

I was delighted to facilitate our third event at Daresbury in May where we were pleased to welcome more new member companies alongside those from previous events.

Chemicals northwest Sustainability Group

The CNW Sustainability Group is focused on advancing business sustrainability within the chemical industry and its value chain and is open to all CNW members.

Knowledge	**Regulatory developments, new frameworks and guidance, examples of best or improved practices, advice relating to specific topics and/or experiences.**
Engagement	**Advancing sustainability within members' organisations and their value chains. Broadening engagement by welcoming new members to the group.**
Delivery	**Working on shared problems, overcoming common barriers and forging new collaborations which match individual challenges with innovative solutions.**

We kicked off our KNOWLEDGE theme with a short "State of Sustainability" presentation ahead of the main "Regulatory Update and Direction" session which, this time, focussed on two emerging developments.

The EU "Omnibus" proposals represent a seismic shake up of sustainability reporting requirements which is set to have far reaching consequences. This will be especially true for companies who fall/will fall under the flagship EU Corporate Sustainability Reporting Directive (CSRD) and those who supply to them. However, since this is also expected to influence UK developments - based on the international ISSB standards - the ramifications are likely to be even wider. As such, we will be monitoring developments and anticipated consequences closely.

Closer to home for many organisations, the International Environmental Management Standard, ISO14001, is set for its next evolution in 2026 having been last updated in 2014. Although ISO are only proposing "minor" changes in the draft which is currently out for consultation, the proposed changes will result in overall broadening of both coverage and depth reflecting the rising importance of sustainability in a business context and the need to align with increasing regulation and best-practice. Again, this is something we will be monitoring to give members a head start on confirmed changes to requirements.

We would like to thank those CNW members who completed the CNW Environmental Sustainability Survey as part of our ENGAGEMENT theme. This snapshot provides vital intelligence of where our peers see themselves in relation to our industry's three key environmental sustainability challenges: net zero, sustainable resource use and product stewardship. The anonymised results (which are available on request) were presented and revealed a broad spectrum in current engagement and delivery with all respondents reporting some progress whilst acknowledging that they have some way to go. With this in mind, the information relating to perceived barriers and enablers will be particularly useful.

But what really matters of course is DELIVERY on the sustainability agenda, and so we were especially pleased to hear two Chemicals Northwest 2025 award winners present our first case studies. Elaine Littlewood from RS Clare & Co Ltd spoke candidly about what sustainability means to the business and some important achievements they have already delivered on. Elaine went on to expand on what is currently driving their sustainability journey forward including a very candid - and particularly useful - overview of some of the challenges they are working to overcome to realise their bold ambitions.

Suzanne Tse, from DSV – Global Transport and Logistics, also gave an inspiring presentation demonstrating the power of a local sustainability initiative within a large organisation. Suzanne's story centred on how a "refusal" to bin unwanted office furniture generated through a local office refit and refurb program led to the "win-win-win" of quantifiable environmental impact reduction and community enrichment from reuse alongside the powerful internal and external "boost" which companies can enjoy through successful sustainability engagement.

We finished the morning, as always, with a lively lunch where the discussions continued. Our "superpower" is getting people with a desire to confront and help solve common challenges together so we can help to create the more resilient and prosperous chemicals value chain we want to see. We are always keen then to hear from CNW members about specific topics of interest to them and we hope that other CNW members – wherever their organisations are on the business sustainability spectrum – will join us in accelerating progress.

Thank you again to both speakers and the attendees for their positive engagement and thoughtful contributions during another well-received event.

Contact Alex or Roger to register your interest in the group and future events.

Dr Roger Wareing PIEMA
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PFAS and Environmental Regulation: Practical Guidance for Chemical Operators

For chemical manufacturers, understanding and addressing PFAS-related risks has become an operational imperative. While media scrutiny and regulatory pressure continue to intensify, the response need not be alarmist. By adopting practical, science-led approaches, businesses can better assess exposure, manage legal and reputational risks, and maintain regulatory compliance, helping to safeguard operations and long-term commercial value in the face of a complex and enduring challenge.

Understanding the PFAS Challenge
PFAS represent a diverse family of synthetic fluorinated compounds known for their surfactant properties and exceptional resistance to heat, water, and oil. Two of the most well-known – PFOS and PFOA – have now been largely phased out, but thousands of other PFAS are in use or exist as degradation products.

These compounds are under increasing scrutiny due to their persistence in the environment, their potential mobility in water, and mounting evidence of toxicological concern at low concentrations. Importantly for the chemical sector, PFAS-related risk is no longer confined to a few legacy sites or historical activities; it may be embedded in operational processes, materials, waste streams and present around on-site firefighting facilities, which are common at chemical production sites.

The Regulatory Outlook: What to Expect
In the UK, the regulatory approach to PFAS is fast moving. Current oversight includes a patchwork of regimes:

- **Environmental Permitting Regulations (EPR):** Sites with permits (e.g. manufacturing or waste facilities) may face Regulation 61 notices requiring detailed information about PFAS emissions, especially to water.
- **Water Resources Act 1991 and the Water Framework Directive:** Enables enforcement where PFAS is causing or threatening pollution to surface or groundwater.
- **Part 2A of the Environmental Protection Act 1990:** Governs land contamination and can trigger remediation notices if risks to health or controlled waters are deemed unacceptable.
- **UK REACH and POPs Regulation:** PFOA and PFOS are already classified as Persistent Organic Pollutants, with broader PFAS restrictions under consideration, particularly in firefighting foams and consumer products.

These regulatory frameworks are being actively applied. The Environment Agency's Phase 4 PFAS screening programme is currently assessing over 10,000 high-risk sites across England, with early attention focused on airfields and major chemical installations. In parallel, the use of Regulation 61 notices is increasing, enabling the Agency to compel operators to disclose information relevant to potential PFAS contamination.

Avoiding the Alarm Bells: A Scientific Approach
The chemical industry is very familiar with handling complex substances. PFAS should be approached similarly: with a rational, data-led methodology. The challenge lies not just in whether PFAS are present, but in understanding their form, behaviour, and risk profile.

Unlike traditional contaminants, PFAS often occur as complex mixtures, including precursors that degrade into terminal products (e.g. perfluoroalkyl acids – PFAAs). This makes source attribution, toxicity assessment, and remediation planning more nuanced. Therefore, proactive characterisation is critical.

Step 1: Inventory and Identification
Start with a review of PFAS usage or potential presence:

- Examine chemical inventories and safety data sheets – but be cautious, as PFAS may be listed under trade names or in proprietary blends (e.g. Zonyl™, Capstone™, Scotchgard™, Forafac®, GenX™, Krytox™).
- Identify past or current use of aqueous film-forming foams (AFFF), coatings, surfactants, or processing aids known to include PFAS.
- Consider indirect sources such as waste, biosolids, and supply chain inputs.
- Laboratory testing may be required to confirm PFAS presence in raw materials, effluents, sludges, or environmental media (soil and groundwater).

Step 2: Risk Assessment and Monitoring
If PFAS are suspected or confirmed, the next step is a structured risk evaluation:

- Establish baseline concentrations in soil and groundwater, particularly for permitted sites.
- Use accredited laboratories to perform PFAS suites - typically up to 53 analytes - and, where relevant, Total Oxidisable Precursor (TOP) assays.

- Monitor effluent streams for PFAS loading and potential treatment efficacy.
- Develop a site conceptual model (CSM) based on source-pathway-receptor logic.

This approach helps build a defensible understanding of site status and identifies potential offsite migration or exposure routes. Given the Environment Agency's increasing use of Regulation 61 notices compelling information disclosure, proactive risk evaluation is essential.

Step 3: Engage Early with Regulators

Dialogue with the Environment Agency and the devolved regulators (SEPA, NRW and NIEA) is advisable where PFAS issues are identified or anticipated. Across the UK, regulators increasingly expect:

- Evidence of proactive investigation
- Plans for containment or remediation
- Consideration of Best Available Techniques (BAT)
- Integration of PFAS into permit surrender or site redevelopment plans
- Early engagement that helps avoid surprises and positions the operator as a responsible actor.

Step 4: Consider Remediation Options

Unlike most other contaminants, remediating PFAS requires a tailored approach. Conventional remediation technologies may be ineffective due to PFAS's stability and solubility. Strategies may include a combination of the following:

- Water treatment: Granular activated carbon (GAC), colloidal activated carbon (CAC), foam fractionation, ion exchange resins, reverse osmosis.
- Soil treatment: Soil washing, stabilisation/solidification, or in some cases thermal destruction.
- Combined systems: "Treatment trains" that integrate several technologies for optimal PFAS mass reduction.

Remediation design should be based on site-specific data and supported by laboratory or field trials.

Step 5: Revisit Contracts, Insurance and Liability

PFAS-related costs can be significant, so careful contract drafting and risk allocation are vital:

- Review historic leases, sale contracts, and environmental warranties for PFAS clauses.
- Assess whether existing environmental insurance provides coverage for PFAS – many older policies may include it, but exclusions are becoming common as insurers become aware of the PFAS issue.
- Where PFAS liabilities are likely, consider specific indemnity insurance or remediation cost cap products.

Conclusion: Informed Management Over Panic

PFAS guidance and regulation is evolving, but it is not insurmountable. Manufacturers and plant operators who take a structured, data-driven approach can maintain control, meet regulatory expectations, and reduce potential liabilities. The key is early engagement, robust site understanding, and a willingness to adapt operations in line with technical and regulatory developments.

With the right support, expertise and planning, the industry can manage legacy risks while continuing to innovate for the future.

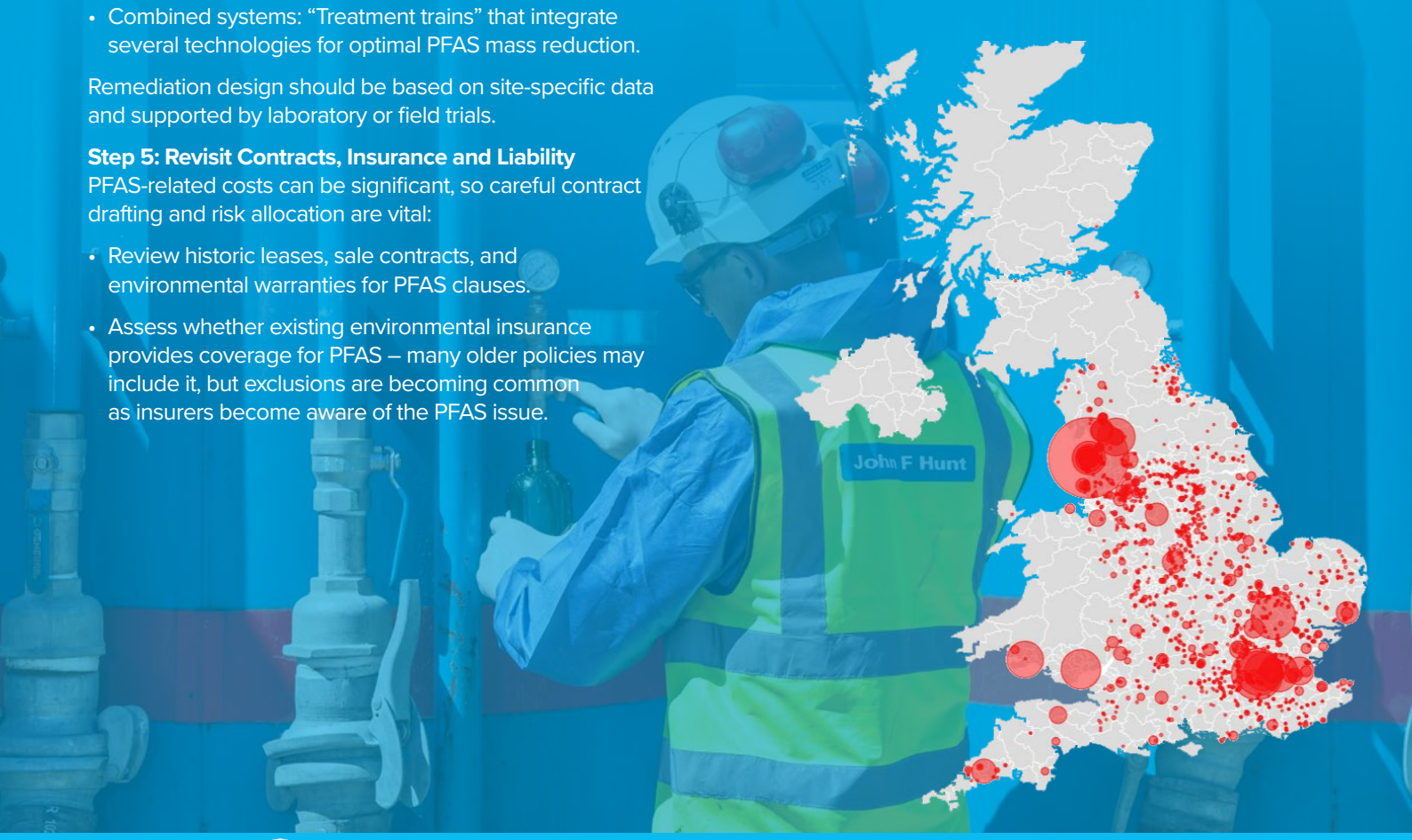
How John F Hunt Regeneration Can Help

John F Hunt Regeneration is a UK leader in brownfield remediation and environmental risk management, with experience in assessing, characterising, and implementing PFAS remediation strategies. Working alongside experts in the PFAS remediation space, we can provide end-to-end support, from conceptual site modelling and lab/field trials through to full-scale remediation and regulatory engagement. Whether managing legacy issues or supporting ongoing operations, we deliver pragmatic and robust solutions tailored to each site.

Further Information:

CIRIA C819: Good Practice Guidance on PFAS in Soil and Water
EA Soil Screening Values for Ecological Risk (2022)
CL:AIRE C4SL PFAS Guidance
HSE RMOA on PFAS (2023)

For technical or regulatory support on PFAS site assessment or remediation, contact:
Dr Sam Hall - sam.hall@johnfhunt.co.uk



Hosokawa Micron Expertise Revolutionises Eco Cement Powder Processing

Global powder processing technology expert, Hosokawa Micron has been instrumental to assisting Material Evolution, a rapidly growing British SME, to scale up its powder material production to industrial proportions as the company commercialises its ground-breaking, sustainable alternative to cement at its brand-new facility in North Wales.

Invented by ancient civilisations 5,000 years ago, cement evolved from its initial lime mortar beginnings (used to create buildings such as the Pyramids) to early pozzolanic hydraulic cement, invented by the Greeks, who introduced volcanic ash to the lime mortar mix. Later, the Romans perfected the use of pozzolans to create spectacular buildings such as the Parthenon in Rome. However, due to the fall of the Roman Empire the expertise was lost for over 1,000 years, builders returning to natural materials such as stone and brick for construction. In 1824, the original Ordinary Portland Cement (OPC) – patented by the British builder, Joseph Aspdin and mimicking the look of prestigious Portland stone – became the next major evolution of cement and has remained largely unchanged since then…until now.

The modernised Portland Cement at the heart of the contemporary £500 billion cement industry is second only to water as the most utilised commodity in the world. Modern cement's ingredients and production processes are responsible for 80% of its emissions, mainly due to the method of heating limestone and clay in a kiln at a higher temperature, which requires huge amounts of heat energy and produces masses of Carbon Dioxide.

The flipside of producing such a strong and durable product is that its production now represents 8% of global emissions (1.5% in the UK) – unsustainable in a world endeavouring to cope with an increasing global population, evolving technology and industrialisation, as well as climate change and a raft of other negative environmental impacts.

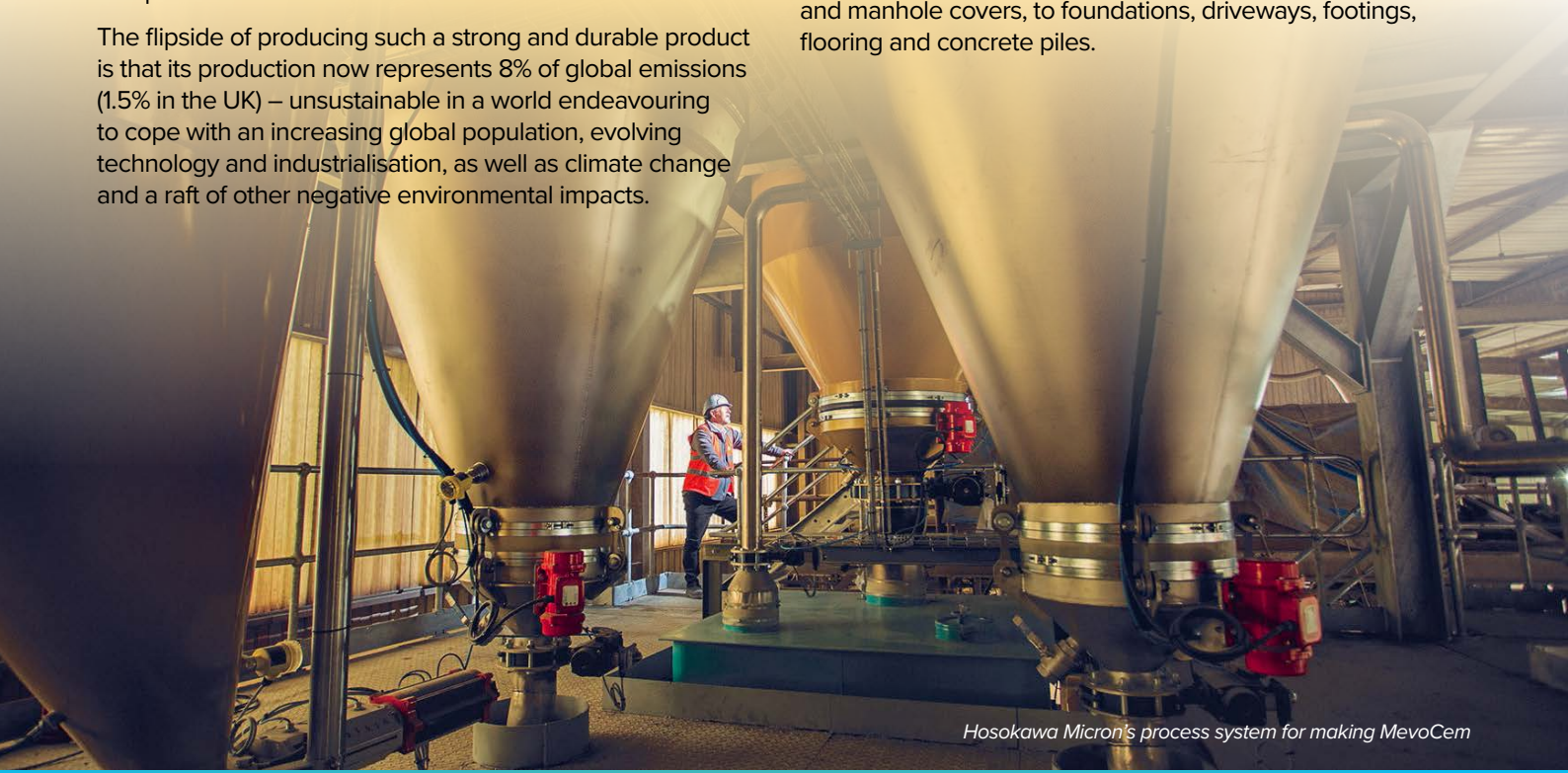
A revelatory new solution, to create a sustainable alternative to cement, was long overdue. Invented in 2020 by pioneering scientist Dr Liz Gilligan in a homemade garage laboratory in the UK, MevoCem (an ultra-low-carbon cement replacement) and Material Evolution, the company she co-founded with Sam Clark to drive the product forward, were born.

MevoCem – the future of Cement and Concrete Decarbonisation?

Utilising Alkali Fusion principles and combining advanced chemical science with AI and machine learning technology, patented processes and the tailor-made Hosokawa Micron process system required to make MevoCem, the need to bake the cement alternative at high temperatures is removed.

Instead, powdered feedstock (sourced from various forms of industrial waste) is mixed at ambient temperatures to create the infinitely more sustainable, stronger, high-performance clinker-like formulations that reduce the carbon emissions caused by traditional cement production by up to a staggering 85%. Using industrial waste as the source material supports green circular economy principles, which could undoubtedly be a game-changer not only for the worldwide construction industry but the health of the planet. The aim – to remove a gigaton of carbon from concrete production by 2040.

When compared to Portland Cement, the revolutionary MevoCem product offers greater versatility, superior chemical, weather, fire and scratch resistance, enhanced strength and zero clinker and has been specifically developed to meet the needs of a multitude of pre-cast and ready-mix applications. Formulated to exceed industry standards, MevoCem's end uses include everything from paving, gardening and landscaping products, roof tiles, pipes and manhole covers, to foundations, driveways, footings, flooring and concrete piles.



Hosokawa Micron's process system for making MevoCem

Commercialising the MevoCem Solution

Through word of mouth, Material Evolution discovered and approached Hosokawa Micron – world-renowned experts in powder processing technology and techniques – to help them scale up their proven piloted concept for a sustainable cement product. Material Evolution required excellent homogenous, flexible mixing of various input materials at a very high throughout and guarantees of consistency, quality and repeatability. Impressed by Hosokawa Micron's industry experience, its own commitment to sustainability and the work it was already doing with clients on processes such as carbon black recovery, the collaboration began.

COVID restrictions in place during this time initially changed the usual process of in-person collaboration and trials, but undeterred by this, many Zoom and Teams calls moved the project forward until, in December 2021, the two companies collaborated in person, trialling the proposed demo solution at Material Evolution's Middlesborough headquarters. The initial trial, using a gravity-fed Hosokawa Micron mixer and dosing equipment, included optimising flow rates and machine controls and eventually produced 20 tonnes of material. Limits were pushed and a better-than-expected throughput was achieved from the trial equipment, from a maximum expectation of between one and four tonnes an hour to six tonnes an hour.

Dr Gilligan's experience of working with Hosokawa Micron's specialist engineering team, led by team manager Marc Jacobs, was transformative and enhanced the technical discovery process and permanent integration of the original pilot plant equipment. "Marc was very pragmatic and helpful. He called in a few favours so that we could take over all the equipment that had been installed – which had officially only been provided to us on loan – rather than waiting for new equipment to be made for us".

Today, the original pilot plant is largely unchanged – except for a few winching and conveying optimisations – and remains operational, producing 96 tonnes of batch-made material per day.

Dr Gilligan's ambitions for MevoCem were buoyed by the outstanding success of the powder processing system collaboration with Hosokawa Micron. "For me, openness and honesty are the most important pillars of a relationship; the planet doesn't have time for games. We need to challenge each other to make a real difference, and Marc at Hosokawa Micron was a terrific sparring partner who wasn't afraid to probe the reasons for our decisions. We found collaboration in the hard questions."

As a result, Material Evolution wanted even more scale-up, to industrial-scale continuous production...

Commercial Collaboration at Scale

Historically, the construction industry is cautious of change. A groundbreaking, fundamentally new, material, capable of undergoing geopolymerisation, to replace 'traditional' cement could have been greeted with scepticism, but Material Evolution has not only met the exacting requirements of the new BSI Flex350 code of practice pertaining to ultra-low-carbon concrete being specified for use in construction projects, but has sought – and found– clients and investors with a similar green ethos to work with, leading to their latest business expansion in Wrexham, North Wales.

Commissioned in October 2024 after taking just eight months to construct, Mevo A1 is the UK's largest ultra-low-carbon cement production facility. A first of its kind, the 120m^2 plant boasts a tailor-made Hosokawa Micron-designed and built process system capable of producing 120,000 tonnes of material per year. The site is shared with a producer of pre-cast concrete blocks, allowing low-carbon cement and concrete to be produced in one location, further contributing to lowering the carbon footprint of the block company's pre-cast building products.

Hosokawa Micron's high-performance, modular powder processing system has helped to make the technologically disruptive MevoCem products a commercial reality, offering highly scalable success for Material Evolution and game-changing sustainable building potential for the domestic and global construction industry. Material Evolution and Hosokawa Micron are looking forward to sharing this timely decarbonisation journey together as the scale-up to a greener future continues apace. "We're very happy with the relationship we've built with Hosokawa so far, and we hope they will continue to be part of our journey as we scale up further as a business."

For further information, please contact:
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Mevo A1, Material Evolution's cement production facility in Wrexham, North Wales

Interview with Abigail Simmons, the winner of the Chemicals Northwest Young talent award from Corrosion Resistant Products (CRP).

We sat down with Abigail for a short Q and A.

How did you get into engineering?
Throughout school, I have always enjoyed Design and Technology, Science, and Maths. For my GCSEs, I chose to study Design and Technology alongside Triple Science. After completing my GCSEs, I decided to pursue A-levels in Physics, Maths, and Chemistry.

During my time at school, I made sure to get involved in engineering-related activities, such as bridge-building competitions and other practical challenges. While completing my A-levels, my interest in manufacturing grew, especially after visiting several manufacturing sites with my college Physics class.

These experiences, combined with my interest in Physics and Maths, confirmed my decision to pursue a career in engineering.

What inspired you to pursue a career in engineering?
I have grown up around my dad, who has worked as an engineer throughout his career. From a young age, I spent hours building projects with him, looking at his drawings, and learning about his work. These experiences gave me early exposure to engineering and helped got me interested in designing, problem-solving, and understanding how things are made.

What do you enjoy most in your role and in your degree?
In my role at CRP, my favourite part is communicating with and supporting various areas of the business. I've had the chance to assist with purchasing and tracking raw materials, working closely with the logistics manager. I also get a firsthand look at how materials are processed in the accounts department, where I help out whenever needed. Additionally, being involved in audits allows me to spend time with the manufacturing team, giving me the opportunity to communicate, learn, and engage with the entire company. This wide-ranging involvement helps me understand the bigger picture.

In my degree, my favourite aspects are learning about the detailed properties of different materials and understanding how they react to various forces, which informs their applications. I also enjoy studying specialist manufacturing processes, which provides me with insight into manufacturing practices beyond my company.

What has been your proudest achievement so far in your engineering career?
So far, my proudest achievement has been winning the Chemical Northwest Young Talent Award. This recognition highlights the hard work I've put into my role and serves as a celebration of everything I've learned during my time at CRP. As an apprentice, I've been given the opportunity to develop a wide range of skills, and receiving the award was a testament to that growth.

Are there any challenges you faced?
Balancing a full-time degree with my job has been the most challenging part of the apprenticeship. Juggling a full workday, university assignments, family time, and personal activities requires a high level of organisation and a strict timetable—quite different from my time at college.

During exam season, balancing extensive test preparation and assignments with my work responsibilities meant taking breaks from my usual hobbies. However, as time has passed, I've learned to manage my schedule more effectively and adapt to the new demands of my commitment.

Looking forward.
How do you see your role evolving over the next few years? – like are there any areas at CRP or in engineering you want to move into.

As I continue my journey at CRP, I'm eager to explore more departments within the company. Engineering is a field I truly enjoy, and I'm excited to take on different projects as my knowledge and experience grow.

Currently, I really enjoy my role in engineering, along with the chance to work intermittently with other departments. The variety of tasks lets me help out when other teams need support, while also giving me a mix of responsibilities that go beyond just engineering.

What advice would you give to other young people considering a career in engineering?
My advice would be to find a company or a degree that truly interests you and take the leap. Engineering is a vast field, and you'll learn so much from people across your company, even outside of your department. Always try to speak to others, show genuine interest in what they do, and learn about their roles.

My apprenticeship has been one of the best decisions I've made, and although it can be challenging at times, I genuinely enjoy going to work and learning new things and meeting up with my classmates at university.

What skills or qualities do you think are most important for young engineers today?
I believe some of the most valued qualities of a young engineer are the ability to communicate effectively with everyone you encounter and to engage with people in a way that clearly conveys your message. Another important quality is a strong work ethic and a proactive mindset when problems arise. It's important to remember that your team is there to support you, and your contributions are valuable to the overall success of the team.

However, overall best skill to have is a willingness to learn. As my career progresses, I've gained new skills and developed old ones, all thanks to actively listening and staying open to learning.

What are your next goals or projects you're excited about?
As I look forward to completing my degree and graduating next year, I'm particularly excited about writing my dissertation on a new project. This project will allow me to dive deep into extensive research, giving me the opportunity to gain new skills and a thorough understanding of a specific process. I'm eager to apply the insights I gain to both my academic studies and my work at CRP.

For further details about CRP visit:
https://www.crp.co.uk/
enquiry@crp.co.uk

Graham Hart Joins Forces with University To Raise Funds and Awareness for the Teenage Cancer Trust

Bradford-based manufacturing and engineering firm, Graham Hart Process Technology, has teamed up with the Chemical Engineering Society at Bradford University to raise funds and awareness for the Teenage Cancer Trust, the only UK charity dedicated to supporting young people aged 13-24 facing cancer.

The partnership was inspired by the rare cancer diagnosis of the son of one of Graham Hart's long-term employees in 2024. In response, the company has launched several initiatives to spotlight the charity's vital work. With cancer affecting around 1 in 10 young people in the UK—often with symptoms mistaken for common teenage ailments like fatigue or growing pains—early awareness and specialist support are critical. The Teenage Cancer Trust provides tailored medical care, emotional support, and a sense of community to help young patients navigate this life-altering challenge.

To mark April as Teenage Cancer Awareness Month, Graham Hart and the Chemical Engineering Society collaborated on a campus information awareness day to educate students and the public about the warning signs of cancer in young people. They will also join forces for the Bradford Dragon Boat Race in June, aiming to raise over £1,000 for the cause.

Several Graham Hart staff members are proud alumni of Bradford University, including Managing Director Chris Hart, who also serves as Chair of the Chemical Engineering Society. Chris said:

"The Teenage Cancer Trust is a fantastic organisation that has been invaluable in terms of the support they have given Wendy and Daniel, alongside thousands of other families facing really challenging circumstances. With 1 in 10 young people diagnosed with cancer each year, it's vital we raise awareness of the signs to look out for, alongside raising funds to support the work of the Teenage Cancer Trust."

Ioan-Bogdan Apetri, President of the Chemical Engineering Society, added:

"When Graham Hart approached us about supporting the work they are doing for the Teenage Cancer Trust, it was a no-brainer for us. As students, we're passionate about using our skills and energy to make a difference, especially for a cause that directly impacts people our age. Cancer can strike anyone, and for young people, it has a huge impact on education, relationships, and future plans. We're looking forward to taking part in the Dragon Boat race with Chris and the team, and raising vital funds for the charity."

The 20-person team from Graham Hart and the Chemical Engineering Society is determined to make a splash at the Dragon Boat Race with every donation helping to fund specialist nurses, youth support teams, and hospital wards designed for teenagers and young adults—services that make a tangible difference in the lives of young cancer patients.

For more information or to donate, visit: https://www.justgiving.com/page/graham-hart.

Photo: (L-R) Bogdan Apetri, Bradford University Student and President of the Bradford University Chemical Society, Heather Bowen, Teenage Cancer Trust and Chris Hart, Managing Director, Graham Hart.

Minamine Technology A less Sensitive Subject

CHEMICAL PROCESSING SERVICES LTD [CPS] is a global market leader in the field of innovative epoxy curative technology. The company's success is based on innovation along with partnership-based cooperation with clients. A variety of new safer or bio-based high performing disruptive technologies, have Intellectual Property that has been Patent protected. The Company continuously develops new technology and with several Patents granted and numerous published or pending, CPS continually advances their position supporting their aim to help customers satisfy evolving regulatory and societal requirements.

One of the latest Patents to grant is for the new MINAMINE[1] epoxy curing agent technology[2], that has been introduced to the market as an alternative to conventional amine derived epoxy curatives, and the associated technical and regulatory issues. Several Minamine grades offer extremely good performance as well as a low hazard rating. This stems from very low or absence of free phenol and very low or an absence of free amine. The subsequent coatings offer excellent adhesion and cure response even at 5°C. The absence of free amine contributes to their surface appearance, offering an extended re-coatability window. These products offer outstanding cure rates and have been screened for numerous hazards.

Hazard assessments come in numerous forms and include "in silico" assessments conducted on a computer using simulation or modelling. The ICH6 M77 guideline "Assessment and control of DNA reactive (mutagenic) impurities in pharmaceuticals to limit potential carcinogenic risk" (M7 step 4 Assessment and control of DNA reactive (mutagenic) impurities in pharmaceuticals to limit potential carcinogenic risk, 2014), takes an important step forward in defining the regulatory use of in silico predictions to minimise the risk of exposure of DNA-reactive chemicals to humans.

Utilising SMILES (Simplified Molecular Input Line Entry System), a chemical notation that represents a chemical structure can be used by the computer to data mine and predict the likelihood of problematic species. An example is provided below.

ENTRY 1 - SMILES NOTATION

Figure 1

	ICH-M7			Tox Tree		Comments
ENTRY	LEADSCOPE STATISTICAL MODEL *	DEREK EXPERT BASED MODEL	DEREK ICH-M7 CLASS	TTC CLASS	THRESHOLD FOR 60 KG ADULT (ug/day)	
1	NEGATIVE	NEGATIVE	CLASS 5	HIGH CLASS III	90	NO STRUCTURAL ALERTS, TREAT AS NON-MUTAGENIC

The assessments try to identify structural elements/structural alerts within the molecules of interest, which may cause a mutagenic effect.

The "statistical model" is a black box and compares data based on defined descriptors. The outcome is derived from (given/defined) training data and not the hand of an expert (results are purely data based).

The "expert rule based" models are driven by the knowledge of one or multiple experts, that is, decisions are made during the evaluation process.

The screening highlights that in the case of the Minamine H401, there is a likelihood of reduced hazard categorisation as the chemical structure offers no alerts, and appears to be a non-mutagenic NIAS [Non-intentionally added substance].

Additionally, we have looked to undertake "in vitro" experiments. These are further experiments that are performed outside of a living organism (e.g. in a petri dish) and provide a good indication of the response offered by specific chemicals under controlled testing. NB: We do not undertake "in vivo" experiments on live subjects.

In Vitro analysis of products has been undertaken on numerous products within our broad portfolio. This includes Endocrine disruption.

The European Commission has published a Delegated Regulation amending CLP Regulation, which sets out new hazard classes and criteria for the classification, labelling, and packaging of substances and mixtures. It applies to all chemical substances and mixtures placed on the EU market under REACH.

This EU legislation is binding to manufacturers, importers, downstream users and distributors placing substances on the European Union market. Member States will also refer to the new hazard classes and criteria when making proposals for harmonised classification and labelling. The new hazard classes include:

Hazard class and category code	Hazard statement code	Hazard statement
ED HH 1	EUH380	May cause endocrine disruption in humans
ED HH 2	EUH381	Suspected of causing endocrine disruption in humans
ED ENV 1	EUH430	May cause endocrine disruption in the environment
ED ENV 2	EUH431	Suspected of causing endocrine disruption in the environment

SOURCE : COMMISSION DELEGATED REGULATION (EU) 2023/707

Paul H Jones, Managing Director and innovator of this new technology stated, "We are delighted with the results received so far. Consideration of these health hazards Is something we have promoted for many years and is now becoming imperative, due to the imminent changes. We believe that we have a fundamental understanding of some of the polymer design requirements that can help prevent classification as a carcinogen or reduce the immunological hazards associated with amine derivatives. This specialist business was set up to develop new disruptive technology in any field that can help address anthropogenic damage and/or avoid CMR concerns. The chemical structure of the Minamine grades in the main is not significantly different from the conventional grades that are offered now. The primary difference being the residual free amine, which can vary but is generally targeted at <0.1% to meet with regulatory threshold limits".

These Minamine products will be presented at the Thermoset Resin Formulators Association Annual Meeting in Knoxville, Tennessee later in the year. Further grades are being tested to extend the portfolio and add information to the range.

For further details visit:
https://www.cps-consultancy.com/

1 Patent Application Ref: GB2405842.2 Inventor(s): Paul Jones [GB]

Carbon capture, utilisation and storage

Limiting global warming requires ambitious action, with the Intergovernmental Panel on Climate Change calling for carbon neutrality by the mid-21st century to keep the global temperature rise in check. The Paris Agreement sets a clear deadline of 2050, however, this may not be feasible through emission reductions alone. Actively removing greenhouse gases already accumulated in the atmosphere will likely be essential. As a result, carbon capture, utilisation, and storage (CCUS) technologies are gaining momentum as critical tools in the global effort to combat climate change.

Using the most recent available patent filing data, we have analysed the global trends in innovation in this important field up to 2022.

Global patent filings indicate a surge in technological advancements driven by the growing need for CCUS solutions, bolstered by supportive governmental policies. Global CCUS-related patent filings previously peaked in 2011, however this was surpassed in 2021 – nearly doubling those in 2020. This upward trend continued and the number of new filings reached an all-time high in 2022.

The US have led in CCUS patent filing numbers since the early 2000s, however, its growth from 2021 to 2022 slowed significantly. This may be due to the US's mature position, with robust existing infrastructure and policies like the 45Q tax credit. In 2022, South Korea surpassed Europe to claim the second spot in patent filings. South Korea's aggressive government initiatives and investments in CCUS as part of its Carbon Neutrality Framework Act 2021 are likely contributing factors. China also remains a significant player, actively increasing patent applications with the potential for global impact.

Direct air capture

Unlike traditional "at-source" carbon capture methods, direct air capture (DAC) aims to remove CO_2 directly from the atmosphere, positioning it as a potential carbon-negative solution. As atmospheric concentrations are relatively low, DAC plants must process large volumes of air to extract meaningful amounts of CO_2. This process is therefore highly energy-intensive, and current DAC relies on access to low-carbon energy sources and effective CO_2 storage solutions.

The global patent filings related to direct air capture (DAC) technologies showed a notable increase in 2022, marking the highest year for filings to date. Climeworks consistently stands out as a leading assignee in this field and, in 2022, continued to file patents focused on sorbent materials for CO_2 capture.

Storage and utilisation

The number of patent filings specifically targeting CO_2 storage or utilisation technologies closely follows overall CCUS patent activity trends. By 2022, the number of filings reached its highest point in the past two decades. Nevertheless, there was a slowdown in the rate of growth in filings.

Historically, the US and South Korea have been dominant, but Japan is emerging as a significant contributor in this area. A diverse group of major Japanese corporations, including Toshiba, Mitsubishi, Honda, Toyobo, and Toyota are now developing technologies to capture and store CO_2. Their efforts reflect Japan's broader commitment to advance carbon capture technologies and address climate change through industrial innovation. Japan's growing influence in patent filings is supported by strong government backing as part of its broader 2020 Green Growth Strategy.

Utilisation technologies and the future

Worldwide, new policies are emerging to support the development of low-emission fuels and materials that promote utilisation of captured carbon. For example, in the EU, the ReFuelEU Aviation proposal mandates that synthetic aviation fuels must incorporate 0.7 per cent of carbon originally present in the atmosphere by 2030, such from biomass or carbon capture, further increasing to 28 per cent in 2050. In the US, captured CO_2 utilisation in synthetic fuels could receive further support through the Clean Fuels & Products Shot announced in May 2023. This initiative aims to facilitate alternative routes that can reduce or offset the emissions intensity of fuels and chemicals by 85 per cent by 2035. We expect these policy changes to spur a wave of innovations in the CCUS sector, leading to the development of commercially viable methods and products in the coming years.

At Appleyard Lees, we have considerable experience in working with green technologies and recently published the fourth edition of our annual Inside Green Innovation report. Access the report via the QR code.

Visit the website:
https://www.appleyardlees.com/

Author: Ashley Wragg, Patent Attorney

Simplifying Product Stewardship and Regulatory Affairs With knoell Compliance Assessments

The chemical industry is no stranger to regulatory challenges. With legislation constantly evolving, manufacturers and suppliers are presented with an ever-growing compliance burden. For regulatory professionals grappling with changing hazard classifications, restrictions, impending registration deadlines and new sustainability requirements, staying ahead of the curve can feel like an insurmountable challenge.

Even regulatory content providers are struggling to keep up with the fast pace and sheer volume of change. To remain compliant, manufacturers and suppliers are having to anticipate future requirements and take on a lot of the regulatory research and data maintenance burden themselves. This makes it much harder to deliver effective product stewardship, with limited resources, it is often only barely possible to keep up with the mandatory requirements.

At knoell, we think that product stewardship and regulatory affairs should be about more than just compliance. Product stewards and regulatory affairs colleagues should be steering their companies to develop more desirable, sustainable, and profitable products. That's why we developed the knoell Compliance Assessment, which simplifies the regulatory analysis for large portfolios of chemical substances, providing an intuitive overview of the requirements for each substance.

The knoell Compliance Assessment can:

- **Identify substances impacted by new requirements**
- **Assess the accuracy and consistency of your regulatory data**
- **Analyse regulatory risk for new or existing products**
- **Help optimise products for sustainability, lower hazard or other criteria**

So how does it work? We utilize unique substance identifiers, like CAS or EC numbers, to reference a huge variety of regulatory lists and then provide a customizable output that conveys exactly the information you need.

We stay on top of the latest updates to the legislation so that you can always be confident in the accuracy of the findings.
We can repeat the assessment at a frequency to suit your needs or on an ad-hoc basis. This can be really helpful for management of change activities or if you just can't afford to wait for the next update from your standard regulatory content provider.

The assessment is fully customisable so we can cover a variety of use cases. Here are some examples of uses that have been particularly helpful for our clients.

New CLP Hazard Classes:
The EU CLP regulation has recently been updated to include four new hazard classes, including Endocrine Disruption (ED) Persistent Bioaccumulative and Toxic (PBT) etc. Substances placed on the market must be classified by 1st of May 2025, followed by mixtures and products by the 1st of May 2026.

These changes pose a significant challenge for chemical manufacturers and suppliers, as there is typically very little data available to classify. Information on identified or suspected substances is spread across a variety of sources and often requires expert interpretation.

Our knoell Compliance Assessment addresses this challenge by rapidly analysing portfolios of substances and flagging those that meet the relevant criteria. This allows our clients to:

- **Screen for products containing affected / suspected substances**
- **Classify any affected products in time for the deadlines**
- **Focus further investigations on suspected substances**

UK REACH Registration Deadlines:
The first UK REACH registration deadlines are approaching fast, with the first on 27th October 2026. Determining which substances need to be registered by these deadlines can be complicated as it depends on hazard classification, status as a Substance of Very High Concern (SVHC) and tonnage.

Our knoell Compliance Assessment simplifies this process by quickly categorizing large lists of substances, providing an overview of the applicable deadline for each one.
This helps our clients to:

- **Plan their UK REACH compliance strategy**
- **Prioritise data gathering activities in preparation for registration**
- **Seek Only Representative support where needed**

Sustainability Assessments:
The Compliance Assessment forms an integral part of our wider sustainability assessment services where it can screen for products with unacceptable regulatory risk and identify those with greater potential for increased sustainability. With the addition of substance / product data on sustainability-related properties such as carbon footprint analysis, recycled content, etc it can be a really helpful tool for re-formulation and new product development activities.
This service can support clients in:

- **Meeting the SSbD criteria**
- **Applying for Ecolabels**
- **Sustainability reporting (e.g. CSRD)**

In conclusion, the knoell Compliance Assessment simplifies the complex task of navigating regulatory challenges. It helps companies stay compliant and focused on their core business objectives and gives regulatory professionals more time to spend on value-added activities. The scalability and flexibility of the assessment make it suitable for any project, big or small.
We are currently offering a free trial of this service for up to 10 CAS numbers. Please check out the link below to take advantage of this and see what the knoell Compliance Assessment can do for you. If you are interested to learn more, please don't hesitate to drop me an email, I would be delighted to discuss in detail how this service can support your business objectives.

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knoell worldwide registration

knoell Compliance Assessment Free Trial
https://www.knoell.com/en/compliance-tool-free-trial-request

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Looking to upskill?

IChemE is a market leader in professional training for the chemical, process and related industries.

Visit our website to browse the extensive range of courses on offer and search upcoming dates – online or face-to-face.

We also offer on-demand courses for independent learning when it suits you.

If you have a team to train, our expert trainers will come to you and provide customised courses if needed.

Process safety

- Hazard identification and risk analysis techniques (including HAZOP and LOPA)
- Process safety management
- Understanding different hazards (eg hydrogen)
- Human factors in the chemical and process industries

Contract and project management

- Contract law for engineering contracts
- Engineering project management
- Applying the IChemE Forms of Contract

Process and plant operations

- Chemical engineering core concepts
- Distillation technology
- Plant and production management
- Scale-up of chemical processes

Sustainable process engineering

- Introduction to sustainable process engineering
- Sustainability leadership
- Sustainability measurement
- Material resource management and the circular economy

MB 0545_25

Search our courses at **www.icheme.org/training**

Potential Plant Stopper

Valvworx recently received an urgent request to attend site, as our customer was unable to close a Control Valve. This valve plays a crucial role, feeding stock to a downstream plant, and a quick intervention prevented a shut down, potentially costing thousands.

One I/E Engineer on plant stated, “It was appreciated that Valvworx were onsite within 2 hours of the phone call to support our site team in diagnosing the potential problem with the control valve prior to it being removed from plant. Rectification works then saw it returned to site within 24 hours of the initial phone call to Valvworx. With Valvworx being local to site, response and repair times were reduced keeping the plant offline for the shortest period possible”.

There is no record of any maintenance being carried out on this valve since installation in 2015. Good result for the manufacturer right? 9 years in service before a failure. However, things fail eventually, unless we carry out PREVENTATIVE MAINTENANCE measures.

Would you leave your car 9 years without servicing it? A car is considered a crucial part of many people’s lives, so of course it would be serviced regularly. This is called **PREVENTATIVE MAINTENANCE**, to make sure life can continue with minimal interruption, though as we know, a service can’t account for hitting a pothole and shattering your suspension.

The same goes for valves in service.

PREVENTATIVE MAINTENANCE should be considered for **CRITICAL** valves that are constantly in the thick of it, in a high cycle process, and could potentially cost businesses thousands in the event of a failure during production.

These valves should be included in a planned outage or shutdown, to significantly reduce the chance of failure and substantial losses.

We’d be delighted to discuss your preventative maintenance / asset management / outage plans with you.

And if your valves should hit one of those ‘potholes’ along the way, either have a spare available, or make sure you have a friendly, helpful, local valve repair company ready to get you out of trouble.

For any industrial valve maintenance, repair and supply requirements, our Business Development Manager, Selwyn Jones, is available for site visits, and can be contacted via sjones@valvworx.co.uk or 07359 499602.

Alternatively you can e-mail sales@valvworx.co.uk or call 01925 982804

We also welcome visits to our Workshop and Office in Warrington, where you are welcome to take a look at our overhaul and test capabilities, and meet the team.

let’s TALK...

ValvworX

It's all under control

The Role of Mag Drive Pumps in Process Safety

Chemical leaks in processing facilities cost the industry billions a year and pose serious risks to worker safety and environmental compliance. Mag drive pumps are the simplest solution to this persistent challenge and offer superior performance compared to traditional sealed pumps in chemical processing applications.

These pumps are simplistic at their core and this simplicity removes the need for mechanical seals, consequently reducing the risk of dangerous chemical leaks while improving operational efficiency. By using a magnetic coupling to transfer power from the motor to the pump impeller, we have a completely sealed system that prevents not only the loss of product but also vapours and fumes, whilst minimising contamination.

Invented in the 1940's, magnetic drive pump technology marked a significant shift in fluid handling capabilities. In essence, mag drive pumps operate through two distinct magnetic assemblies - a drive magnet connected to the motor shaft and a driven magnet attached to the impeller. The magnetic field generated between these components enables torque transfer without physical contact, effectively eliminating the need for mechanical seals.

Safety and Environmental Impact

The implementation of mag drive technology represents a major advancement in industrial safety and environmental protection. Through innovative design features and robust containment capabilities, these pumps offer substantial improvements across multiple safety and environmental metrics.

- **Worker Safety Improvements:** Mag drive pumps fundamentally enhance workplace safety through their sealless design. The elimination of mechanical seals removes a primary source of chemical exposure risk.
- **Environmental Benefits:** The sealless design makes it easier to maintain an emission-free environment which is a significant benefit to industries handling volatile organic compounds.
- **Waste Reduction:** The waste reduction capabilities of mag drive pumps extend beyond mere containment. These pumps preserve process fluids and minimising environmental impact.

Through their innovative design, mag drive pumps ultimately contribute to both immediate workplace safety and long-term environmental sustainability. The ability to prevent leaks, coupled with advanced monitoring capabilities, creates a safer operational environment while ensuring regulatory compliance.

Making the Right Choice

Choosing the right mag drive pump depends on a variety of factors. Undoubtedly, the most crucial consideration is the compatibility between pump materials and process fluids. The selection process should evaluate the process as a whole, flow rate, maximum operating conditions, the temperature range of the fluid, chemical compatibility and ambient temperature and external environmental factors to name but a few.

In a nutshell, the sealless design of magnetically driven centrifugal pumps is an extremely effective solution to the industry's persistent challenges with leaks, downtime, and safety risks however, success with mag drive pumps depends on proper selection, installation, and maintenance protocols. Careful attention to material compatibility, operating parameters, and monitoring systems helps to make sure your pumps perform well and longevity and the array of external monitoring devices can help ensure your site remains operational and safe.

If you want to find out more about how magnetic drive pumps can benefit your processes, call CDR Pumps on 01933 674777 or visit www.cdrpumps.co.uk/mag-drive-pumps/

Procurement Spend in the UK Chemical Industry

Historically, Procurement Was Considered a Back-Office Function — In the UK Chemical, Industry That's Changing

Until recently, procurement in the chemical industry was viewed as a necessary but administrative function—focused on purchasing raw materials, negotiating contracts, supply chains and managing suppliers. But that view is rapidly evolving. Today, with political & economic headwinds, increased and volatile import duties, global supply chain pressures leading chemical companies are repositioning procurement as a strategic lever for profitability, risk mitigation, and sustainable growth.

Two of the key changes have come from the most important export markets for UK chemical manufacturers, China & America.

China's state backed group procurement organisation focused on chemical, pharmaceutical and life sciences products imported into China and the Trump administration's volatile import duties have caused havoc for UK chemical manufacturers in terms of additional administration and profitability.

Chemical manufacturers and suppliers are starting to work together to mitigate these threats. From improving sourcing strategies for specialty chemicals, to consolidating suppliers and unlocking more favourable terms through group purchasing, procurement is becoming a driver of innovation and profitability.

When procurement is aligned with business goals, companies can increase profits which allows them to reallocate resources to accelerate R&D, pursue new markets, and scale production more efficiently.

What Does Strategic Procurement Mean in the Chemical Industry?
In a word: **Data.** For chemical companies, strategic procurement means using advanced analytics to optimise everything from raw material sourcing to freight and logistics. Working with customers their insights revealed major opportunities to drive contract compliance, reduce fragmentation, and leverage volume-based pricing in commonly purchased categories like MRO, transport, lab equipment, and packaging.

One example: a global specialty chemicals company was managing maintenance and repair services through over 15 vendors across multiple sites. While essential, it was not a core business activity. We helped them consolidate to fewer, higher-performing providers, negotiated consistent pricing and service SLAs, and rechannelled internal procurement resources toward more strategic sourcing initiatives, such as securing critical raw material supply in a volatile market.

How Can Chemical Companies of All Sizes Benefit?
Whether large or mid-sized, chemical companies face unique procurement challenges. Bigger enterprises must navigate complex regulatory requirements, international supply chains, and volatile raw material pricing. Their procurement teams are often stretched managing operational complexity. We help these organisations reduce this burden—through improved visibility, technology platforms, and leveraging indirect supplier spend - so their teams can focus on strategic sourcing and risk management.

Medium sized chemical firms, on the other hand, often lack the tools, procurement manpower, and leverage to optimise indirect supplier relationships. That's where leveraging co-ordinated supplier spend comes in:

- providing scalable expertise
- spend analysis
- supplier consolidation strategies

Freeing up valuable time for Executive and Procurement leaders to drive growth and innovation.

We also support procurement in public-sector chemical research institutions, universities, and sustainability initiatives, helping them stretch limited budgets and align with regulatory goals.

What About Public vs. Private Chemical Companies?
In privately owned, and those that have equity-based backing chemical companies, we're seeing a surge in interest around procurement as a lever to rapidly increase EBITDA and value.

Traditionally, firms focused on headcount or top-line growth, but the new strategy includes unlocking savings in indirect categories like safety supplies, transportation, and IT services to increase overall profitability.

Shaping the Future of Procurement in Chemicals
In today's world, procurement can no longer remain in the background. In the chemical industry especially, it can help companies increase profitability, manage risk, and fuel long-term growth.

John Clark, founder, of The Procurement Team, a group purchasing organisation helping companies in the UK Chemical, Life Sciences & Pharmaceutical industries reduce costs on their Indirect Supplier Spend. For further details visit - https://www.theprocurementteam.com/ or email john@theprocurementteam.com

2025 | Radisson Blu Heathrow Hotel
Wednesday, September 24, 2025

Global Chemical Regulation Conference London

Scan the QR code to find out more

Join Us at the 2025 CIRS Global Chemical Regulation Conference

On Wednesday, September 24, 2025, the CIRS Group, a leading product safety and regulatory consulting firm, will be hosting its Global Chemical Regulation Conference at the Radisson Blu Heathrow Hotel in London.

This one-day event will bring together over 100 industry professionals, including government representatives, key decision-makers, manufacturers, and distributors, to discuss and navigate the complexities of global chemical regulations.

The conference aims to enhance understanding and strategies for addressing regulatory challenges worldwide.

What to Expect

- ✔ Nine expert speakers covering key regulatory developments.
- ✔ An industry panel discussion exploring the biggest challenges and opportunities in chemical and supply chain compliance.
- ✔ An exclusive presentation & panel discussion hosted by the Department for Business and Trade (DBT).
- ✔ Ample networking opportunities throughout the day to ensure you can speak with the presenters and panelists, as well as make new industry connections.
- ✔ Sponsorship opportunities available (Gold, Silver, and Bronze).
- ✔ A complimentary drinks reception to close the event, ensuring a more relaxed atmosphere to unwind with connections new and old.

Why Should You Attend?

This conference is the perfect opportunity to connect with regulatory experts, gain actionable compliance insights, and engage with government representatives. Whether you're looking to stay informed, expand your network, or explore sponsorship opportunities, this is the event for you!

Date: September 24, 2025.

Location: Radisson Blu Heathrow Hotel, UB3 5AW, London.

Price: Chemicals Northwest members can take advantage of the early bird price of £249 right up until the event.

To register or to find out more about sponsorship opportunities, contact us at conference@cirs-group.com or scan the QR code.

Science, Innovation, and Inclusion Shine at the 2025 Business of Science Conference

The 2025 Business of Science Conference brought together over 250 delegates to the iconic Spine Building in Liverpool's Knowledge Quarter, marking a record-breaking year for attendance, sponsorship, and engagement. The event, held in the heart of Liverpool's Innovation Zone and headline sponsored by the University of Salford, showcased the growing momentum behind the UK's science and innovation agenda.

This year's programme featured 46 diverse speakers spanning academia, industry, and government, enabling full inclusion and varied discussions. Approximately 30% of attendees were early-career professionals and students, offering a powerful representation of the future of STEM through active participation in panel discussions and networking.

Opening the conference, Steve Rotheram, Mayor of the Liverpool City Region, celebrated the region's flourishing innovation ecosystem and its growing international profile. He emphasized the strategic importance of Liverpool as a hub for science-led growth.

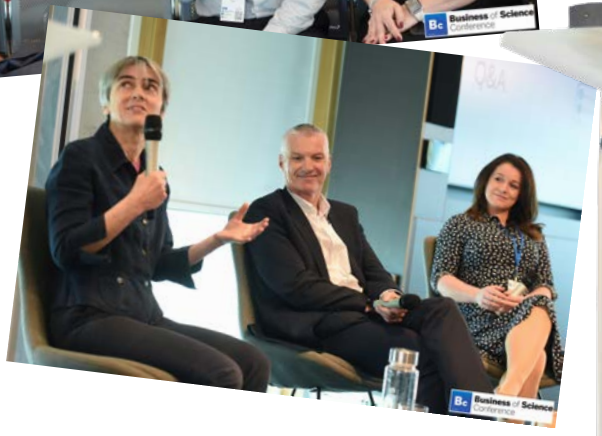
Three keynote speakers followed, each offering a unique perspective on the future of science and innovation:

- **Prof. Dame Ottoline Leyser**, CEO of UK Research and Innovation (UK R&I), highlighted the role of public sector investment in addressing the UK's productivity challenge, underscoring the need for sustained funding to support science, technology, and industrial development.
- **Prof. Tim Jones**, Vice-Chancellor of the University of Liverpool, spoke from an academic standpoint, championing collaborative efforts across the private and public sectors and advocating for global scientific partnerships.
- **Dr. Natalie Kenny**, CEO of Biograd Ltd, offered a candid reflection on private sector challenges—particularly the urgent need for equity in R&D funding. Calling for policy reform, she pointed to the stark statistic that only 1.9% of venture capital funding reaches women-led enterprises, a figure she linked to the UK's position as having the worst gender health gap in the G20. "It's time for decisive action," she urged, "to ensure that government commitments to women's health and economic equity are realised."

The day featured a wide array of breakout sessions exploring pressing topics including artificial intelligence, the Net Zero workplace, materials science, and pathways to commercialisation. These sessions provided delegates with actionable insights and facilitated cross-sector dialogue.

The conference concluded with the annual Innovation Awards, celebrating creative thinkers of all ages—including finalists as young as six—who showcased bold scientific ideas and solutions from across the UK.

With the 2025 edition declared a resounding success, the Business of Science Conference will return on **14th May 2026** at the University of Nottingham, promising another vibrant exchange of ideas at the intersection of science, policy, and enterprise.



Unlocking the Future of Drug Delivery: Digital Solutions for the Chemical Industry

Can we mimic viruses to enhance the accuracy of drug delivery? By embracing digital technologies through the Hartree National Centre for Digital Innovation programme, we are now a step closer to this reality through the collaborative work of Science and Technology Facilities Council's (STFC) Hartree Centre, IBM Research, and the National Physical Laboratory (NPL).

Viruses have the remarkable ability to navigate the body and deliver genetic material with precision, bypassing the body's defence mechanisms. By engineering synthetic particles that emulate these viral properties, drugs can be encapsulated and guided to target areas in the body, avoiding breakdown and minimising the risk of unintended side effects.

However, the development of these synthetic virus-like particles for precise drug delivery is not trivial. The minuscule size of these particles makes it difficult to study their assembly using experimental methods. STFC Hartree Centre has played a crucial role in addressing this challenge by developing a cutting-edge software platform that integrates high-performance computing (HPC) and automated data analysis. HPC allows for molecular dynamics simulations at the atomic level, enabling the precise modelling of particle self-assembly, while advanced algorithms accelerate the process of analysing the structural data of these particles. These advancements have helped reduce development time for this novel drug delivery system.

Beyond drug delivery, molecular dynamics tools can also provide critical insights into chemical systems, enabling researchers to predict properties, optimise formulations, and develop new materials with greater precision. The STFC Hartree Centre helps businesses of all sizes in the chemical sector leverage computational techniques to accelerate innovation, streamline R&D, and enhance process efficiency—giving the industry a competitive edge in an increasingly digitalised world.

For further details visit https://www.hartree.stfc.ac.uk/ or contact yingwei.ouyang@stfc.ac.uk

Geosyntec Consultants

Engineers | Scientists | Innovators

Geosyntec is a consulting and engineering firm that works with private and public sector clients to address new ventures and complex problems involving our environment, natural resources, and civil infrastructure. With a combined staff exceeding 2,600 engineers, scientists, and related technical and project support personnel, we serve our clients from more than 130 offices in the United Kingdom, Ireland, Finland, United States, Canada, Sweden, Spain, Portugal the United Arab Emirates, Saudi Arabia, and Australia.

Since our founding in 1983, we have built top tier practices to meet our clients' needs in:

- Contaminated Land and Groundwater Site Assessment and Remediation Design and Implementation
- Geotechnical and Ground Engineering Assessment and Design
- Environmental Planning (inc. EIA), Permitting, Auditing and Compliance
- Transactional Due Diligence and Consultation
- Water and Natural Resources
- Wastewater Engineering

We are internationally renowned for our technical leadership, broad and deep experience, and exceptional client service. In each of our practices, our aim is to develop best-in-class capabilities and client reputation.

How We Help our Chemical Clients
Clients in the downstream chemical and petrochemical manufacturing and refining industries seek integrated multidisciplinary technical services to strategically manage and resolve complex environmental issues.

Geosyntec helps clients develop site-specific, focused, and innovative strategies for environmental permitting and planning, compliance management, site assessment and remediation, and property development and redevelopment logistics.

For the chemical and petrochemical industry, clients seek our expertise in air quality, water and wastewater, stormwater, ecological and land compliance, sustainability, remediation, and emergency response.

Geosyntec consultants
engineers | scientists | innovators

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Geosyntec UK & Ireland – UK & Ireland Engineering and Scientific Consulting
Geosyntec Consultants

Kemea Ltd

Partner with Kemea Ltd to bring your product vision to life.

We understand that every product idea is unique, and we offer expert formulation services tailored to your specific needs, from initial concept to finished product. Whether you're developing a cutting-edge cosmetic, a powerful industrial cleaner, or anything in between, our 25+ years of experience ensures the highest quality and effectiveness.

Our comprehensive approach covers every step of the product development journey. We begin with in-depth discussions, either face-to-face or via video call, to fully understand your objectives, target market, and desired product characteristics. We then leverage our extensive network of suppliers to source the finest ingredients, ensuring optimal performance and adherence to all relevant regulations.

Our expert chemists and formulators work closely with you throughout the development process, creating and refining formulas until they perfectly match your vision. We provide samples for testing and feedback, ensuring your complete satisfaction. Once the formulation is finalised, we assist with packaging and labelling, ensuring your product stands out on the shelf.

We also manage the manufacturing process, overseeing production with our partners to maintain the highest quality standards.

Our partners offer flexible production runs to accommodate your needs, whether you're launching a small batch or require large-scale production.

Finally, we handle delivery, both within the UK and internationally, ensuring your product reaches your customers efficiently.

From concept to creation, Kemea Ltd is your trusted partner in product development. Contact us today to discuss your project and let us help you turn your idea into a successful product.

KEMEA LTD

Contact:

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Metrohm

Metrohm is one of the world's most trusted names in high-precision instruments for chemical analysis. With a legacy of innovation and reliability, Metrohm is committed to delivering pioneering, sustainable solutions to customers across the globe.

As a globally active company, Metrohm embraces its economic, social, and environmental responsibilities. We don't just innovate - we act with purpose.

Leaders in Titration and Beyond
A global market leader in titration, Metrohm also offers a comprehensive range of analytical technologies, including:

- Ion Chromatography (IC)
- Near-Infrared Spectroscopy (NIRS)
- pH and Conductivity Measurement
- Voltammetry and CVS
- Oxidation and Stability Testing
- Liquid Handling (LQH)

Online process analysis: Metrohm Process Analytics
Metrohm's expertise extends beyond the lab to the factory floor. Our Metrohm Process Analytics division develops robust process analysers for real-time industrial monitoring across a wide range of sectors. These systems ensure continuous quality control and help streamline production processes.

Advancing Electrochemistry: Metrohm Autolab & DropSens
Through the electrochemical branch of our company, Metrohm Autolab and Metrohm DropSens, we offer a full spectrum of electrochemical instrumentation. Our products include precision potentiostat/galvanostats, screen-printed electrodes, and accessories designed for both research and development.

Rapid, Reliable Identification: Raman Spectroscopy
Metrohm Spectro designs and manufactures a diverse portfolio of handheld and portable Raman spectrometers. These devices enable rapid, accurate material identification — whether for verifying raw materials, detecting hazardous substances, or identifying illicit drugs.

Expertise You Can Count On
At Metrohm, we don't just provide instruments - we provide solutions. Our extensive database holds thousands of application notes, and our experts are ready to develop custom methods tailored to your unique analytical needs.

Metrohm

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Always Close By: Local Support Across the UK & Ireland
Service excellence is at the core of what we do. With our main office and laboratory in Cheshire and satellite locations in Dublin, Oakham, and Tetbury, our regional teams offer quick, responsive support and on-site demonstrations - ensuring expert guidance is always within reach.

Supplying to the Chemical Industry

Knowing your local supply chains is important, and suppliers of expertise, solutions and great products are right here in the northwest. CNW members have a strong association with and many years of experience supplying to the chemical industry. The companies listed in this directory cover a wide range of products and services. They have established customers in the sector, with proven track records. Many will be well known, long-standing firms and there will also be new and innovative businesses that you may not have heard about. Effective supply partnerships, delivering success for all! For more details, the websites for the listed companies and organisations can be found at:

https://www.cia.org.uk/chemicalsnorthwest/Membership/Our-Members/

Chemicals Distribution, logistics & chemical handling

2M Holdings Ltd
Chemical distribution and related services of sample management, storage and blending. Provision of AdBlue, Samsol products, packed chlorine and TRIKLONE & PERKLONE chlorinated solvents. Markets served include: automotive, precision cleaning, coating, oilfield & refineries, flavours, fragrances, surfactants for personal care, household and industrial cleaning and pharmaceuticals.

Actikem Ltd
An ISO9001 certified business, specialising in a range of chemical processes and manufacturing services, including mixing, storage and re-packaging. We provide toll and custom manufacturing services for SMEs as well as blue-chip organisations, and supply customers with on-tap production facilities, offering them potential cost-savings and greater flexibility.

Camida
Established in 1988, is a customer-focused supplier of specialised chemical products. We provide global sourcing solutions across industries, meeting strict international standards. Our expert sourcing team handles over 3,000 annual enquiries, ensuring seamless procurement. Camida simplifies your supply chain, acting as your trusted partner in sourcing and supply.

F2 Chemicals Ltd
As a specialist in the handling of fluorine gas, F2 Chemicals Ltd offers a variety of organofluorine products all manufactured at our Preston plant. Our primary product is a range of high specification perfluorocarbons, such as octafluoropropane and perfluorodecalin, under the Flutec tradename, used in applications including medical, tracers, plasma-cleaning, cooling and cosmetics.

Hibiscus
Hibiscus is one of the UK's leading manufacturers of chemical labels and hazard communication compliance software. For over 40 years they have specialised in providing high-quality labelling solutions for the chemical and hazardous goods industries and are renowned for their knowledge of industry legislation and for the durability and excellent performance of their products.

Hosokawa Micron Ltd
Integrated powder processing technologies including: size reduction, air classification, mixing, drying, containment equipment such as gloveboxes and downflow booths. Contract processing services for 1kg to multi-tonne lots. Remote monitoring solutions that include: condition monitoring, analytics for improving product quality and energy efficiency and on-line diagnostics for predictive maintenance and improved plant availability.

Indaver Solvents Ltd
Part of the international environmental group Indaver. Indaver Solvents offers comprehensive in-house and end-to-end solutions for industrial (non) hazardous solvent waste and recycling requirements. They support with lab analysis, pilot scale trials, and recycling at commercial scale. With their Cheshire-based solvent recovery installations, combined with bespoke fine chemicals manufacturing, they provide continuous, sustainable and high-quality recovery solutions to the Chemical and Pharmaceutical industry . Find out more here - Solvent recycling - Indaver

Keyser & Mackay
Keyser & Mackay is a market oriented agent and distributor of chemical raw materials and industrial equipment, acting as an intermediary between customers and suppliers. Keyser and Mackay NV has their headquarters in Amsterdam, Holland and has been active since 1894. With over 125 years' experience, the company's success today is down to reaping the benefits of all those generations of staff that have been or still are working for it. Today, the group has offices in the Netherlands, Belgium, France, Switzerland, Germany, Poland and Spain, and has started another chapter with the recent entry into the UK market.

Klüber
Global manufacturer of over 2500 specialty lubricants for virtually every industry, Klüber Lubrication high-performance speciality lubricants and effective lubrication management programs enable customers to achieve their operational efficiency goals, increase reliability, and lower the total cost of ownership across assets.

The Rhenus Group
One of the leading logistics specialists with global business operations and annual turnover amounting to EUR 8.2 billion. 41,000 employees work at 1,330 business sites in more than 70+ countries and develop innovative solutions along the complete supply chain. Whether providing transport, warehousing, customs clearance or value-added services, the family-owned business pools its operations in various business units where the needs of customers are always the major focus.

Scott Pallets
An established timber pallet and packaging solutions business that delivers a wide range of goods and services to industrial, and manufacturing markets across the UK. We supply new manufactured pallets and packaging, reconditioned pallets and recover pallets across our strategic UK site network.

Education, training & skills

Catalyst Science Discovery Centre
An independent charitable trust playing a pivotal role in promoting science across the Northwest. Catalyst works in conjunction with industry partners to excite young people about all STEM subjects and careers available within the science sector. Companies can also sponsor a local school to visit and attend industry days.

Centre for Industry Education Collaboration
CIEC supports companies in making credible and sustainable links with primary schools, in order to inspire the next generation of scientists and engineers. We train STEM professionals to improve their communication skills, and develop industry-focused activities for use directly by teachers or by ambassadors visiting schools.

Chemistry with Cabbage
We work with students of all ages, demonstrating through practical experiments, the relevance of chemistry in solving problems. Research shows that children make career choices very early on, so capturing their imagination early is important. Chemical companies are welcome to support our hands-on work in primary schools.

IChemE
The leading professional qualifying body for chemical, biochemical and process engineers.

National STEM Learning Centre
We aim to improve lives through STEM education. We do this by delivering teacher CPD (continuing professional development) in STEM subjects, bring STEM role models into schools as part of the STEM Ambassadors Programme, provide careers support and opportunities for young people through Destination STEM and deliver bespoke, long-term support for groups of schools in collaboration with companies. Find out more.

Engineering products & services

AM Technology
AM Technology are experts in continuous manufacturing solutions for the chemical and pharmaceutical industries with their patented Coflore flow reactor technology suitable for a wide range of chemical processes, including multiphasic reactions with slurries, from grams to kilotons.

Beamex
Beamex helps its customers to find a better way to calibrate, according to the most demanding requirements of process instrumentation. Beamex offers a comprehensive range of products and services – from portable calibrators to workstations, calibration accessories, calibration software, industry-specific solutions and professional services.

CDR Pumps UK
A leading independent Pump manufacturer. Since opening our doors 60 years ago, we have gone from strength to strength bringing you a company that has the product, service and knowledge to support the chemical, nuclear and pharmaceutical industries on a global scale. And small enough to give you the individual care and attention you need yet big enough to support multi-site,multi-national blue-chip chemical companies. Our global manufacturing facility in Milan is strategically located to support our customers across the world.

CRP
A leading provider of Fluoropolymer PTFE/PFA lined piping and associated equipment. Suppling everything necessary to construct fully integrated piping systems, whilst also offering ongoing support and education from there experts. Their products withstand the most challenging environments, ensuring safety and reliability in even the most demanding applications.

Dron & Dickson
Dron & Dickson are recognised market leaders in the supply and maintenance of hazardous area electrical equipment. Our Engineering Services and Wholesale divisions offer bespoke solutions incorporating the very latest industry standard and safety legislation.

Know your supply chains

continued overleaf

Engineering products & services

Laker Vent Engineering Ltd
Supply, fabrication and installation of process and utility piping systems. Project management, detailing, procurement, on and off-site fabrication and installation of pipework and coded welding. Associated steelwork supporting and mechanical installation of plant and equipment. Testing and Handover. Pipework and steelwork is fabricated to specific customer-needs and conforms to all appropriate ISO, BS EN and ASME standards and specifications.

Langfields
Langfields are specialist fabricators of process plant equipment for the Hydrogen, Waste to Energy, Pharmaceutical, Petrochemical, Chemical, Nuclear and other process industries.

Lokring UK
Lokring UK offer technical engineering support and sales for Lokring technology across the UK. The Lokring “Cold Weld” pipe and tube joint reduces the need for hot work, NDT inspection and reduces on site resources. Code compliant with ASME B31. Lokring is a Safer, Faster, Lower Cost replacement for site welding and flanged fabrication.

Manntek AB
Supply of safety dry disconnect and safety breakaway couplings. Comprehensive range of specialist dry quick release couplings to suit 99% of known chemical applications. Bespoke solutions with a size range of ¾” to 8” nb. Dry disconnect couplings are made to NATO standard Stanag 3756.

METTLER TOLEDO
Mettler Toledo manufacture & service weighing, analytical and inspection equipment used throughout the product cycle from Research & Development, through Scale-Up & Production to Quality Control, Storage & Despatch. We work with our customers to understand and achieve their business goals, including key areas of safety, quality, productivity and sustainability.

O’Hare Engineering Design Ltd
Innovative, Detailed, Working Solutions.
O’Hare Engineering Design Ltd. are providers of 3D laser scanning, mechanical and pipe design solutions. With over 18 years’ experience, we know that accuracy is fundamentally the most important element in every engineering design project, so our client focused approach uses the latest technology to provide an effective solution that is sure to hit the brief, every time.

Perry Process Equipment Ltd
Buying and selling of high quality used processing plant and equipment. Savings of up to 70% on the cost of process equipment, full mechanical and electrical refurbishment and equipment immediately available form stock. Centrifuges, dryers, evaporators, filters, heat exchangers, mills, mixers, reactors, separators, tanks.

ProDecon®
Providing industrial service solutions to the Oil&Gas, Chemical, Power, Pharmaceutical and Industrial sectors. Specialising in hazardous hydrocarbon and chemical environments. ProDecon® has a unique range of technical expertise, that enables us to support customers with restoring process performance and providing maintenance risk management through bespoke industrial cleaning solutions.

Studley Engineering Ltd
A multi-disciplined mechanical and electrical engineering contractor, providing a comprehensive service to the process industries in disciplines including: steelwork, welding, maintenance, site services, pipework, tanks and vessels. Over time we have gained an enviable reputation as a reliable, responsive, motivated contractor that delivers safe, high quality, cost effective work.

Summit Dynamic Solutions
Specializes in creating optimised custom material handling and processing systems tailored to meet the unique needs of various industries. Our innovative solutions enhance efficiency and productivity, ensuring seamless operations for diverse materials. We are committed to delivering excellence through advanced technology and expert engineering, driving success for our clients.

Valvworx Ltd
Valve breakdowns are commonplace, and high on the list of painful problems for Chemical Plant Operators. At Valvworx Ltd, we can support you with valve maintenance & repair solutions, and offer advice, specification and supply of new valves, ensuring suitability for the process they are intended for, and lasting longer in service.

Yokogawa
Yokogawa is a leading provider of field instrumentation, safety systems, industrial automation and digital transformation solutions. IIOT, OT Cybersecurity and Alarm Management are specific areas of focus for Yokogawa’s Advanced Solutions team with a number of major projects currently being delivered across Europe.

Engineering project management & energy

Arthian
Combining three decades of high-hazard industry expertise with technical excellence to support every project phase, from feasibility and planning to design and construction. Our planning, environmental, engineering, and safety consultants deliver insights and innovative, sustainable solutions, empowering clients to make strategic, long-term decisions.

Atlas Copco Rental UK
Provides temporary cost and energy efficient solutions for long- or short-term demands, planned maintenance or unexpected emergencies. Our engineers design the most suitable temporary installation, utilising our fleet of state-of-the-art equipment which includes 100% oil-free Class 0 and oil-injected compressed air at medium or high pressure, generators for power, and nitrogen. Quality of service, environmental care and personnel safety are guaranteed by our triple ISO certification.

AXIOM
A multi-award-winning, asset management solutions provider, supporting the chemical, pharmaceutical, oil & gas, bulk storage, power, renewables and related industries. With integration of their Materials, Mechanical, Inspection, Process Engineering and Process Safety Services, Axiom are uniquely positioned to identify and mitigate key through-life risks across the entire asset life cycle.

Graham Hart (Process Technology) Ltd
Graham Hart Process Technology Ltd is a global leader in the design and manufacture of high integrity heat transfer and specialist pressure equipment. Their knowledge, reputation and expertise makes them the first choice for many companies desiring guaranteed mechanical and process design solutions, for their individual heat exchanger and pressure vessel needs.Providing innovative, bespoke solutions to a variety of sectors for over 50 years, they have a skilled, agile and talented team that has achieved a 100% On Time In Full delivery record for their clients since 2016.

Geosyntec
a consulting and engineering firm serving the chemicals, pharmaceuticals and wider manufacturing sectors addressing new ventures and complex problems involving land contamination, transactions, permitting and compliance, and civil infrastructure. We operate from over 130 offices located in the UK & Ireland, North America, Sweden, Spain, Middle East, and Australia.

John F Hunt Regeneration Ltd
John F Hunt Regeneration are a trusted partner for brownfield demolition, remediation, water treatment and enabling services. As part of the John F Hunt Group, we have the scale and financial stability to provide a complete works package no matter the size of the scheme.

PM Group
PM Group is an employee owned, international project delivery company operating across Europe, the USA and Asia. We have a 50+ year track record in project management, process design, process safety, facility design and construction management for leading multinational companies.

px Engineering
Deliver expert engineering, project delivery, and consultancy services across the energy, chemicals, oil and gas, and renewables industries. As part of px Group, we combine project execution capabilities with our knowledge and skills as owner and operator of Upper Tier COMAH facilities to support all phases of a project lifecycle from concept through to FEED, detail engineering design, procurement, construction, commissioning, and handover.

Engineering, IT & process consultants

Gexcon UK Ltd
Safety and risk management and advanced dispersion, explosion and fire modelling. Unique expertise and shared knowledge on how to prevent explosion accidents. Carrying out accident investigations and dedicated facilities for physical testing. Ventilation and dispersion modelling also available. Hazardous area classification and quantitative and qualitative risk analysis and assessment.

OpenPSM
OpenPSM® is a cloud-based software solution, developed to help businesses manufacturing or handling hazardous chemicals meet the requirements of modern risk-based process safety legislation. Providing a unique framework allowing you to log and assess every aspect of your company’s process safety management programme, OpenPSM® necessarily supports engagement from shopfloor to boardroom, allowing everyone with an active part to play in process safety to have relevant information to hand.

Siemens Digital Factory & Process Industries and Drives
Siemens Digital Industries (DI) is a global leader in automation and digitalisation, dedicated to driving the digital transformation of the manufacturing and process industries. Their comprehensive Digital Enterprise portfolio offers an end-to-end suite of products, solutions, and services designed to integrate and digitalise the entire value chain. This portfolio is tailored to meet the specific needs of the Chemical Industry, enhancing productivity, flexibility and efficiency. By leveraging cutting-edge technologies and close collaboration with customers, Siemens DI helps businesses achieve greater innovation and competitiveness.

Environment, health & safety risk management

Ambipar
The global leader in environmental solutions, operating across six continents. It offers a comprehensive range of services, including emergency response to industrial accidents, hazardous spills, natural disasters, environmental management, waste disposal, sustainable recovery, and specialised training and consultancy. Ambipar supports governments, corporations, and infrastructure networks, ensuring regulatory compliance, risk mitigation, and long-term environmental stewardship worldwide.

BakerRisk Europe Ltd
Dedicated to help predict, prevent and mitigate hazards and explosions, fires and toxic releases. Specialising in process safety and risk management, we help clients understand their risks and offer cost-effective risk management solutions. Success id delivered through proven knowledge and experience, innovative research and unique engineering capabilities.

Chemical and Industrial Consultants Association
An association of independent consultants with extensive experience, many having worked in the chemical industry, across various fields. Provision of technical and business advice on almost every aspect of chemical manufacture, development, marketing and management.

International Fire Protection
Specialises in providing fire safety solutions for high-hazard industries, including COMAH sites, power generation, and hydrocarbon processing facilities. Our expertise includes ATEX and SIL-rated Fire & Gas detection systems, as well as advanced fire detection and protection systems tailored to meet the specific safety needs of these critical sectors.

Neales Waste Management
A family-owned enterprise with over three decades of expertise, offers specialized hazardous waste services in the North West region. As a key player in the waste management sector, we operate an extensive network of facilities, delivering comprehensive waste solutions to various clients and industries.

RAS Ltd
Expertise that covers the full range of risk assessment and management services across; safety risk, business risk and environmental risk. Carry out Quantitative risk Assessments and Predictive & consequence modelling, through 'softer' risks affecting an organisation's reputation.

SLR Consulting
A unique blend of leadership, management, consulting, engineering and training services is offered to the chemicals industry. A forerunner in sustainable process safety management combined with proven business improvement capabilities enables delivery of practical solutions to promote safety and efficiency in design, operation and maintenance of complex hazardous facilities.

Wareing Consulting
Roger Wareing is a business sustainability/ ESG consultant and former industrial chemist. Roger helps you navigate what ESG challenges mean for your company's future, shaping your response to growing regulatory obligations and rising expectations, and supporting delivery and reporting to drive value creation and resilience alongside wider positive outcomes.

Facilities, finance and other business services

Department for Business & Trade
Operational support for British exports as well as facilitating inward and outward investment activity. Support is given to first-time exporters or established exporters requiring more help with accessing more difficult markets or putting strategic alliances in place. Access to expert advice, trade services, training and events.

Pen Underwriting incorporating OAMPS
Specialist Insurance services to high hazard manufacturing and haulage industries. Motor fleets, property, liability and transit policies. We help clients minimise risk through proactive risk management and a range of training and response services to assist companies in planning for and dealing with incidents and emergencies.

Sci-Tech Daresbury
We are a national science and innovation campus, and enterprise zone providing a range of office, laboratory and workshop accommodation for technology companies (from a desk to large laboratory and office units). Companies have access to a range of facilities covering material analysis, virtual design & simulation, and rapid prototyping.

STFC Innovations Technology Access Centre
A unique, fully equipped space for innovation, research and development. Providing flexible access to laboratory space, "hot labs" and scientific equipment. Ideally suited to start-up companies, smaller and medium size enterprises and R&D team from established companies.

The Henry Royce Institute
The national institute for advanced materials research. Royce was established to ensure that the UK remains at the forefront of materials research and exploitation through collaborations with industry and academia, and by providing access for the UK materials community to state-of-the-art equipment and facilities. Royce's mission is to support and grow world-recognised excellence in UK materials research, accelerating commercial exploitation and delivering positive economic and societal impact for the UK.

The Procurement Team
Helping clients save money and become more profitable, focusing on their indirect spend such as IT, MRO, Consumables, Transport, Utilities etc. We work with organisations in the Chemical, Pharmaceutical and Life Sciences industries and leverage their combined indirect supplier spend to drive extra savings for all our clients by creating economies of scale.Our team realise that increased buying power translates into savings across the board and inherent value beyond cost, such as improved service levels and vendor reduction.

Laboratory products, testing and services

Kemea Ltd
Offering expert formulation services, from concept to creation. With 25+ years of formulation experience, we'll guide you through the development process, focusing on your project needs. We also offer packaging, labelling, and delivery, both in the UK and internationally. Partner with Kemea Ltd to bring your product vision to life.

Metrohm
one of the world's most trusted names in high-precision instruments for chemical analysis. With a legacy of innovation and reliability, Metrohm is committed to delivering pioneering, sustainable solutions to customers across the globe. As a globally active company, Metrohm embraces its economic, social, and environmental responsibilities. We don't just innovate - we act with purpose.

Scymaris Ltd
We offer high quality and cost-effective ecotoxicology, environmental fate, and chemistry services to the global agrochemical, pharmaceutical, industrial chemicals & animal health industries. Our state-of-the-art laboratory is equipped with controlled temperature rooms, freshwater and seawater testing facilities and is accredited to work according to GLP and most Global regulatory requirements.

Total Lab Supplies (TLS)
Your trusted partner for laboratory equipment, chemicals, and supplies. With years of industry expertise, we offer a diverse range of high-quality products and expert support tailored to the needs of researchers, scientists, and professionals across various industries.

Legal & patents

Appleyard Lees LLP
Patent and trademark attorneys. Aim to obtain the best possible patent protection for clients. Experience of product clearance against competitor patents and in due diligence for mergers and acquisitions. Advice on licensing issues and collaboration agreements relating to IP.

Bawden and Associates
A legal firm providing professional services across all IP matters. Drafting and prosecution of patent applications, handling opposition and appeals in the EPO and in litigation in UK and international courts. Business led and strategic approach to generate assets of real commercial value.

Mathys & Squire LLP
Mathys & Squire LLP is a full-service intellectual property law firm with industry-leading expertise in patents, trade marks, design protection and IP litigation and including a dedicated chemistry team of highly experienced attorneys holding higher degrees and research or industrial experience who are passionate about innovation in the chemical field.

Squire Patton Boggs (UK) LLP
Global legal company providing legal, regulatory and advocacy assistance to the chemical and performance material industries. Expertise that emphasises areas that mean the most to industry such as environmental, mergers and acquisitions, commercial finance, construction, litigation, Ip, public policy and international expansion.

WP Thompson
Intellectual property attorneys providing high quality advice to start-ups, SMEs or FTSE 100 companies. Team of experienced IP attorneys specializing in chemistry and life sciences, with first degrees and PhDs in these fields. Securing the most appropriate, cost effective and commercially valuable protection for your intellectual investment and innovation.

Know your supply chains

REACH and chemicals services

Chemical Processing Services Ltd
[CPS] provides innovative technology and/or niche speciality polymers with a focus on an absence or reduced CMR content and regulatory compliance, sustainability, and high process or technical performance.

CIRS
CIRS Group was established in 2007 and is a leading product safety and regulatory consulting firm. It utilizes its technical expertise, resources, and international network to provide comprehensive compliance services including chemical notifications and registrations, global GHS compliance, laboratory testing, R&D, and data services across multiple industries globally.

Dr Knoell Consult Ltd
An independent service provider for the chemical and related industries. Globally the Knoell group has over 450 employees covering all aspects of regulatory compliance for industrial chemicals, agrochemicals and biocides: e.g., strategic planning, dossier preparation, exposure assessment, SDS preparation, and from REACH to K-REACH!

GlobalMSDS
A complete safety data sheet/literature and regulatory service for your entire product communications in any language, style and format required. Hazmix is a new 'pay as you go' web-browser product that is setting a new standard in SDS authoring. A Solutions service that also provides technical advice.

Intertek Regulatory Services
Health, environmental and regulatory services for implementation of chemicals management. Worldwide registration of chemicals, food contact compliance and notification, global chemicals compliance, design/optimisation of toxicological and eco-toxicological studies, hazardous substance management, EU cosmetic and biocidal products compliance, classification & labelling, SDS consulting.

WSP in the UK
Recognising that chemical companies face a wide range of regulatory challenges, WSP's centre of excellence can assist companies with chemical compliance and safety obligations. The team's role is to facilitate a company's route to compliance in areas such chemical registration (including EU and UK-REACH), supply chain management, GHS/CLP and DGSA, amongst other safety related services.

Yordas Group
Yordas Group is a leading provider of scientific, environmental, human health and global regulatory consulting services. They offer chemical regulatory support, expert scientific services and support on chemicals management and product stewardship, global hazard communication, hazard and risk assessment, analytical and (eco)tox testing.

Recruitment

Adepto Technical Recruitment
A specialist engineering, manufacturing and scientific recruitment consultancy that focuses upon the provision of permanent staff and contract resource to the Chemicals industry. Established in 2015, Adepto has quickly become the partner of choice for many blue-chip and SME manufacturers, engineering companies and consultancies due to our deep knowledge of the industry, credibility and professionalism.

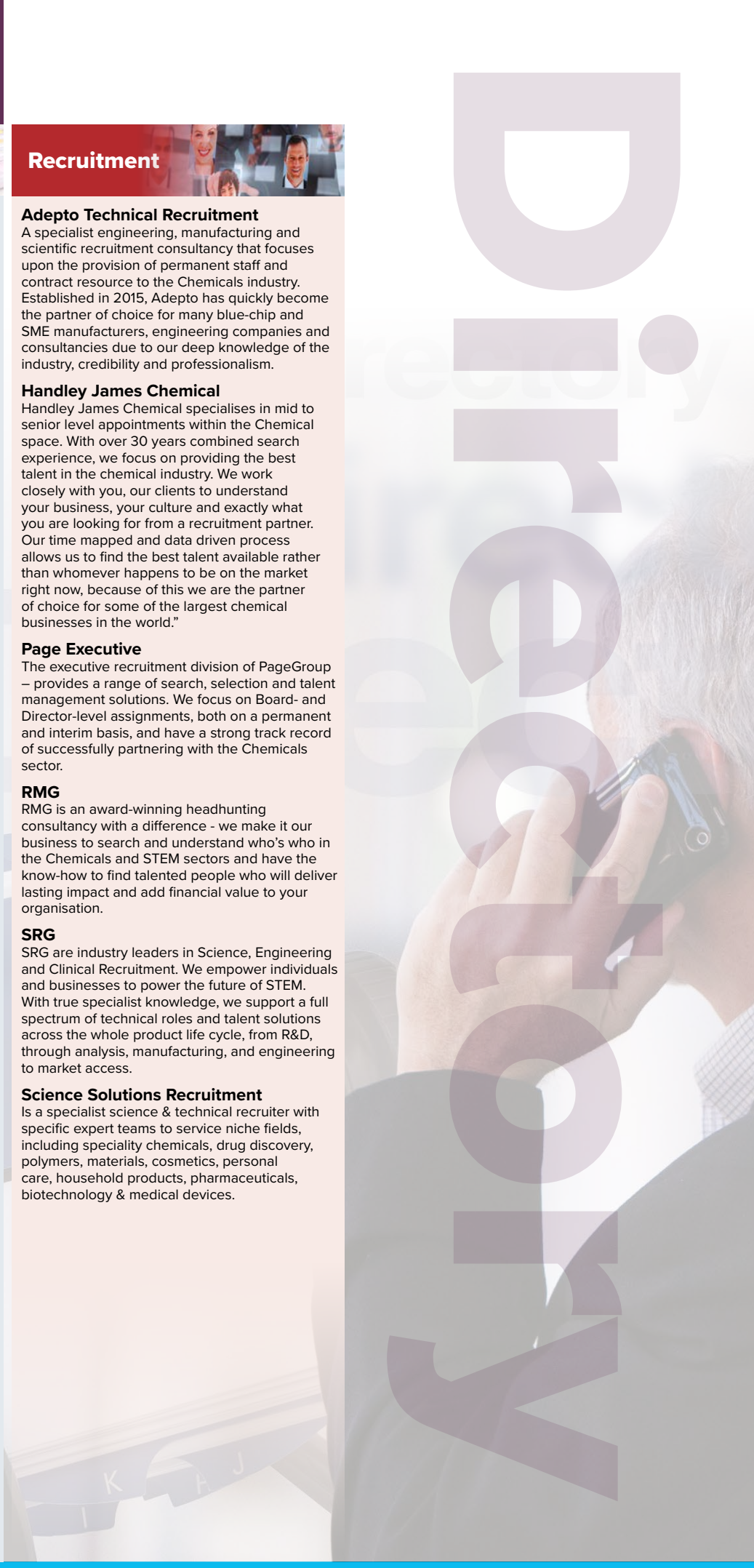
Handley James Chemical
Handley James Chemical specialises in mid to senior level appointments within the Chemical space. With over 30 years combined search experience, we focus on providing the best talent in the chemical industry. We work closely with you, our clients to understand your business, your culture and exactly what you are looking for from a recruitment partner. Our time mapped and data driven process allows us to find the best talent available rather than whomever happens to be on the market right now, because of this we are the partner of choice for some of the largest chemical businesses in the world."

Page Executive
The executive recruitment division of PageGroup – provides a range of search, selection and talent management solutions. We focus on Board- and Director-level assignments, both on a permanent and interim basis, and have a strong track record of successfully partnering with the Chemicals sector.

RMG
RMG is an award-winning headhunting consultancy with a difference - we make it our business to search and understand who's who in the Chemicals and STEM sectors and have the know-how to find talented people who will deliver lasting impact and add financial value to your organisation.

SRG
SRG are industry leaders in Science, Engineering and Clinical Recruitment. We empower individuals and businesses to power the future of STEM. With true specialist knowledge, we support a full spectrum of technical roles and talent solutions across the whole product life cycle, from R&D, through analysis, manufacturing, and engineering to market access.

Science Solutions Recruitment
Is a specialist science & technical recruiter with specific expert teams to service niche fields, including speciality chemicals, drug discovery, polymers, materials, cosmetics, personal care, household products, pharmaceuticals, biotechnology & medical devices.



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A global leader in full spectrum sustainability solutions, providing clients with strategic advice and on the ground support.

Making Sustainability Happen

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