



INFORMATION

APRIL 2018

19th & 20th September 2018
Hall 11, NEC, Birmingham

SURFACE WORLD LIVE 2018



- we have everything covered

VISIT SURFACE WORLD LIVE 2018 ... ALL OF YOUR SUPPLIERS UNDER ONE ROOF

I'm going to Surface World Live 2018, are you?

I want to see the latest technology and new products

See you at the NEC on the 19th & 20th September 2018

I'm going to discuss business with new and existing suppliers

I will be taking advantage of the exclusive show offers

I'm going to watch live demonstrations

I need some advice from experts in the industry

I will be attending the seminars while I'm at the exhibition



Surface World Live 2017 saw a 48% increase in footfall, the 2018 show is predicted to be even busier.
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EVERYONE IS GOING!

IMF DIARY

IMF EVENTS

19TH - 20TH SEPTEMBER 2018
SURFACE WORLD NEC

SOUTHERN BRANCH

WEDNESDAY 23RD MAY 2018
EVENING SEMINAR

THE PORT HOUSE, MARINA KEEP,
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KEEP IN TOUCH

PLEASE MAKE SURE WE HAVE YOUR CONTACT
DETAILS UP TO DATE. ANY CHANGES PLEASE
CONTACT DAVID ON 0121 622 7387 OR
EMAIL: DAVID@MATERIALSFINISHING.ORG

**NEXT ENROLMENT
DATE FOR TRAINING
COURSES IS**

7th September 2018

Contact
David Meacham

Tel 0121 622 7387

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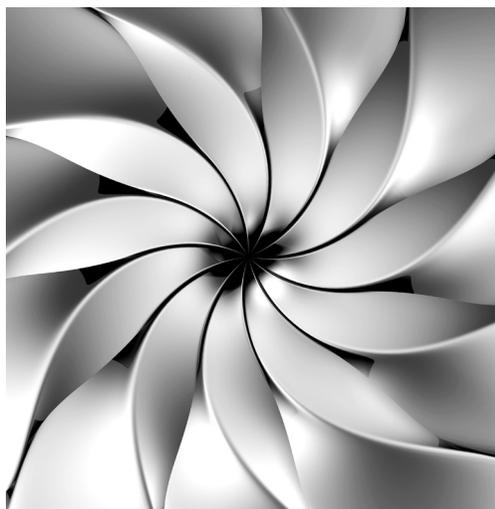
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BONDERITE® M-NT 2040 R2 IS PERFECT REPLACEMENT FOR CHROME-VI

Henkel has developed BONDERITE® M-NT 2040 R2, which is formulated using only non-toxic, chrome-free components. This advanced product not only offers the potential for shorter process times, but does not produce any effluent that requires treatment. Furthermore, it is suitable for dip and spray processes, and is both GSB- and Qualicoat-approved.



Given the many statutory requirements governing environmental protection and occupational safety – such as RoHS, WEE, REACH and ELV regulations – BONDERITE® M-NT 2040 R2 constitutes a viable alternative to traditional chrome-VI conversion treatments, with huge potential for the future. It offers good welding and adhesive bonding properties for uncoated aluminium surfaces, as well as creating an optimal layer on the substrate for subsequent coating.

Importantly, the BONDERITE® M-NT 2040 R2 non-chromic process combines both etching and passivation effects. It thus enables the number of process baths to be decreased and pre-treatment lines to be reduced in length. In fact, if using an alkaline degreaser, it is

possible to eliminate the etching tank altogether, which currently cannot be achieved using any other product on the market. Rinse or multiple rinse stages can also be eliminated, while a DI (deionised water) rinse can be replaced with a conventional tap water rinse in some applications.

As it contains a small quantity of surfactant, BONDERITE® M-NT 2040 R2 can be used as a cleaner-coater, effectively replacing conventional degreaser products. At a customer in Europe, this allowed an existing pre-treatment line to be reduced from six tanks (alkaline degreaser, rinse, rinse, Chrome-VI, rinse, DI rinse) to just four (cleaner-coater, BONDERITE® M-NT 2040 R2, rinse, DI-rinse), thus boosting productivity significantly using a non-chromic process without any detriment to performance.

Another major benefit is that existing green chromating lines can be converted to the new BONDERITE® process without modification to the active baths. Moreover, it can be used at room temperature (around 25°C), leading to significant energy cost reductions, while both water and wastewater are likely to be reduced by up to 70 percent due to fewer baths.

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A HAT TRICK OF APPROVAL AND ACCREDITATIONS FOR PEXA



Pictured Jim Rowbotham (Managing Director), Phil Warrington and Dale Corns (Quality and Operations Manager), and with the new approval certificates.

Pexa, the specialist supplier of surface coatings to the Aerospace and high-tech industries has been certified for many years to EN 9120 and ISO 9001. Now they are very pleased to add the specialist Quality Management Systems for Aviation, Space and Defense Organisations certification Pr EN 9100 2016 (AS9100D:2016)

Pexa has grown and invested in its in-house production with tint lines for aerospace coatings and a manufacturing plant for specialist coatings for the optics markets. A redesign of its internal processes was implemented ensuring that they conform with this latest version of the important aerospace quality approval standard.

Dale Corns, Pexa's Quality and Operations Manager said "We worked with our long standing external quality consultant

Phil Warrington to redesign our process maps and produced new flow and turtle diagrams for our business-critical processes. We also rewrote our Business Management System and incorporated new tiers of quality documentation to cover key processes and forms. Our accreditation provider EQA visited us at the end of 2017 for our triennial audit and added the Pr EN 9100 requirements. We are very pleased and proud to be awarded this new standard which sits alongside our EN 9120:2016 and ISO 9001:2015 accreditations."

He continued "This is only the start of the process, as our continuous improvement group is now working on new procedures with new graphics for all our regular processes and we hope to have that whole package in place by the time of our first renewal audit which will be carried out in 2018 for the three accreditations (9100, 9120, 9001)."

INDESTRUCTIBLE PAINT BRINGS PERFORMANCE COATING EXPERTISE TO THE THERMAL ENGINEERING SHOW



Indestructible Paint Ltd., which has a leading worldwide reputation in the field of protective paints and coatings, is bringing its expertise for the first time to this year's Thermal Engineering Show. The company is highlighting both its product range and commitment to ongoing research and development with a particular focus on its belief in working closely with customers to develop and supply tailored coating solutions.

"Providing protection in high temperature applications, including heat abrasion resistance, is one of the key elements of our services," says Managing Director, Brian Norton, who will be accompanied on the stand by senior Indestructible Paint personnel. "This links directly to a range of highly demanding environments – not only in engineering and manufacturing, but also in specific sectors such as aerospace and defence." He points out that the company has a long and proven track record in the aerospace sector, for example, providing coating systems to many of the world's leading component manufacturing and maintenance operations.

One of the highlights on the Indestructible Paint stand

is the company's recent rationalisation of the Colour-Therm range. Comprising a choice of coatings, sprays and adhesive labels which change colour under pre-determined functional and environmental conditions, Colour-Therm coatings deliver a visual guide that provides both functional and safety benefits.

"Typical uses range from the identification of temperature overrun on sensitive materials, to tamper-proofing or decorative use on consumer products," adds John Bourke, Global Sales Manager at Indestructible Paint. Importantly, the Colour-Therm range can be applied either during manufacture or as a retrofit operation, with both reversible and non-reversible formats available.

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Full details of the company's services and specialist skills are available at the Thermal Engineering Show on the Indestructible Paint stand N° OR 27.

The attendees will be provided with a fully documented training manual, with space allowed for attendees to make notes as the course progresses.

On successful completion of the course, attendees will be issued with a certificate identifying the aims of the course and confirming their attendance.

JOB VACANCY – LABORATORY TECHNICIAN



Business Background

Founded in 1947, Abbey Metal Finishing Co Ltd (Amfin) has established a reputation as a professional and accomplished metal finishing company. We serve customers in a diverse range of industries including aerospace, defence, rail, automotive, general and specialist engineering & hold accreditations for NADCAP, ISO 9001 - AS/EN9100, BS ISO 14001, BS OHSAS 18001. Our 2012 facility in Hinckley is among the world's most modern integrated processing and finishing plants, ensuring efficiency whilst reducing costs and lead times.

Laboratory Technician

Scope of Position

To support the manufacturing operations via the control and analysis of production processes whilst ensuring safe production at the right level of quality. You will be working alongside our current Laboratory Technician.

Key Areas of Responsibility

- Ensure health and safety guidelines are followed at all times
- Technical support for wet processing
- Control of process solutions through chemical analysis to a dedicated schedule
- Calibration of process control equipment
- Corrosion testing
- Stock replenishment and expiry control
- Housekeeping of dedicated areas
- Support of NPI process
- Participate in customer meetings as required
- Liaising with different departments as required
- Control of effluent treatment and steam boiler chemical protection
- Support process qualification as required

Key Areas of Responsibility

- Ensure health and safety guidelines are followed
- Have experience in working within the metal finishing industry
- Have experience in working in a laboratory environment
- Be self-motivated and able to accept responsibility of ensuring the laboratory runs smoothly
- A good chemistry background
- Be a team player and be able to work well with other departmental heads
- Computer literacy
- Good communicator and people manager
- Attention to detail

Salary dependent on experience

Please send your C.V. and covering letter to rbrook@amfin.co.uk

COVENTYA MANAGEMENT CHANGES

Coventya Ltd, have recently celebrated their 6th year of direct sales into the UK and are now a well-regarded and established supplier into the UK electroplating market. They also continue to be the centre for Cathaphoretic lacquers development and manufacture for Coventya worldwide.

Due to the growth of the UK business, there have recently been several changes in the management of the company to better position COVENTYA Ltd. to continue this expansion and reward people for their efforts.

Paul Wynn has been promoted to become the UK Sales Director; Paul has an unparalleled wealth of experience and knowledge of the finishing industry including many areas of specific expertise such as zinc and zinc nickel plating. This has been used to support our customers over the last 4 1/2 years. He will now also assume responsible for liaison with automotive and aerospace industries.



*Paul Wynn:
UK Sales Director*

David Hawthorne is now the UK Technical Manager: Dave has worked in plating lines, at both Wm. Canning and MacDermid during this time creating a great depth of knowledge across the range of electroplating and surface finishing processes. Dave is responsible for all technical matters in COVENTYA Ltd. including the service and development laboratories and customer support.



David Hawthorne: UK Technical Manager

Russell Barnbrook is promoted to the UK Operations Manager: Russell has worked his way up through COVENTYA Ltd. having started in the warehouse bottling and cleaning. We are delighted that whilst furthering his education he has continued to progress his career and is now responsible for all aspects of the factory including manufacturing, purchasing, warehousing and Health and Safety.



Russell Barnbrook: UK Operations Manager

With extra appointments expected in June for the Sales and Laboratory, Coventya are planning to accelerate their growth both in the UK and in overseas lacquer sales.

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Based in our UK factory in Sandhurst, Berkshire for 60 years, E Braude has built a brand that stands for quality and reliability, and are well known as specialists in the supply of heating and cooling equipment for highly corrosive liquids.



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As with all products by E Braude, the Polaris range is made in the UK, guaranteeing the highest possible quality. Everything is made to order ensuring customers receive the exact specifications they require and products are sure to fulfil their needs. And, despite the post-Brexit uncertainty, we continue to attract large orders from prestigious clients, from the UK and overseas; clients who have come to us because they're confident they can get the quality and reliability they demand.



Since it was established in 1957, E Braude has always maintained a commitment to produce products and services of the highest quality. Our equipment has been used worldwide for many years, providing an efficient service for a whole host of industries including Metal Finishing, Marine, Aerospace and Food and Drink.

Just recently we joined forces with Manchester based Heatrod Elements – the UK's leading manufacturer of heating elements and associated equipment for domestic and industrial heating applications. Through Heatrod, E Braude has become a member of the Backer Group and part of the NIBE Elements Group, adding to their portfolio and confirming our products are of the high quality we have always promised.

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A NOSTALGIC LOOK AT THE ELECTROPLATING INDUSTRY (CONT...)

Into the world of laminates, plated through holes and beyond

In 1970 I saw a position advertised at a company called Shipley Chemicals based in Coventry. They were looking for someone who had some knowledge in electroplating to work for them as a technician out on the road and as I quite liked the idea of being “on the road” I applied and got offered the position.

I knew little about Shipley except that they were suppliers to the printed circuit board industry which at that time was new and upcoming. Shipley then was an American family run firm and operated out of a small facility in Coventry with a total workforce of about 30 people and I was now in a world of plating materials without the use of electricity (known as electroless plating). Although I had dabbled a little into Plating on Plastics with Cannings this was something totally new and alien to me.

I spent my first few weeks on a training programme that taught me about the world of different electroless coppers (oh how I just loved the smell of formaldehyde) but you might ask where was the requirement for electroplating as was advertised.

Obviously electroless copper only deposited then, a very thin layer of copper on the board surface and through the holes and the need to increase this thickness was all down to electroplating with copper.

Shipley had a small tank of acid copper, but the trend then was for a copper that would “throw” down the holes with a thickness equal to that on the board surface and early acid coppers were not yet capable of that. The copper of choice was pyrophosphate copper, hot, steamy and smelling of ammonia but it did a fantastic job and nearly all early PCB shops used this.

Shipley also supplied Plating on Plastics chemistry and I was introduced to electroless nickel as the metallising choice for ABS plastic. Etching the ABS was achieved by using Hot (60+°C) chromic acid/sulphuric acid solutions and most of the large POP shops had hundreds of litres of this aggressive material often in unventilated tanks as the strict rules for this material were not around in those days. Shipley provided many manufacturers with their chemistry and this became a main part of my technical service as acid copper solutions were used to build up the 25 microns of copper required on the plastic part which sometimes needed ‘tweaking’ and this is where my knowledge of electroplating helped as some of the issues were

not always down to the electroless side of the chemistry.

Obviously after the acid copper, electroplated nickel and decorative chromium were used and my knowledge into that increased.

One day, I was working in the laboratory at head office awaiting a visitor from a company called M & T Chemicals based in West Bromwich. M & T not only supplied electroplating chemicals (competitors to W.Canning) but they also supplied equipment for the plating industry and were building a complete POP line for a customer, hence the reason for the visit to get a better understanding on what was required in terms of plant, tanks, filters, air lines etc. The meeting went well, in fact so well that I was asked if I would consider a position as a technical representative working for them and about two months later I was now employed by M & T Chemicals at West Bromwich.

I learnt a lot working at M & T and my main forte was Copper, Nickel and Chromium. I dabbled in zinc and cadmium (yes that was freely plated in those days) but I loved Cu/Ni/Cr after all these were lovely coloured solutions not clear liquids like zinc & cadmium and they also didn’t smell of ‘bitter almonds’ (cyanide) but I suppose chromic acid was not the best of materials.

A typical day would be going into the office getting the list of where to visit and calling on these customers to check if all was okay and if any samples needed collecting and, in those days, you could spend nearly a full week just going around plating shops (large & small) in the Midlands with Birmingham having its fair share. In fact, in some instances it was better to drop the car off and walk to the customers, greeted most times with a friendly smile a cup of tea and chat whilst standing around a steamy plating shop. It was a great industry and I think that all that worked in it by and large enjoyed it.

In my next article I’ll continue my reminiscing of the electroplating world.

John Burgess



DEVELOPMENT MANAGER: MEMBERSHIP AND EDUCATION

The Institute

The IMF is an internationally recognised organisation representing professionals and companies in Materials Finishing. The Head Office is based in Birmingham, and due to the imminent retirement of the current incumbent there is now a vacancy for the post of Development Manager, Membership and Education.

Brief Job Description

A full-time position, to be responsible for the day to day management of the Institutes education and membership functions.

The Candidate

An efficient sales development specialist with excellent interpersonal skills, able to relate to his/her colleagues, Institute volunteers, members and other organisations. Competent with Microsoft Office software: training will be provided with Institute systems.

The Remuneration

- Salary negotiable based on experience and demonstrable competencies
- 36 hours per week

To Apply

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JOB VACANCY – TECHNICAL MANAGER REQUIRED



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We look forward to hearing from you.

ANNE CHAPMAN HAS RETIRED



Anne Chapman has retired from EQB and will be missed



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Dr P Farr receiving his silver award from Prof G Wilcox

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Wednesday 3rd July 2018 (18:30 – 21:00)

The he IMF is pleased to invite you to an evening Seminar.

VENUE:

The Institute of Materials Finishing, Exeter House,
48 Holloway Head, Birmingham BI 1NQ

PRESENTATIONS:

Currently to be confirmed

Registration:

Please register in advance by contacting:

Helen Wood (helen@materialfinishing.org)

INDESTRUCTIBLE PAINT HIGHLIGHTS ADVANCED PERFORMANCE COATING DEVELOPMENTS AT SURFAIR SHOW



Surface coating specialist, Indestructible Paint Ltd., is once again bringing its technology and extensive involvement in the aerospace industry to the fore at this year's Surfair exhibition between 22nd and 24th May. The company's stand in Biarritz will present full details of its range of products and services with a particular focus both on the organisation's commitment to research and development, and also on its ongoing drive to produce highly effective and environmentally beneficial paints and coatings.

"In the spotlight at Surfair will be our revised range of Ipcoat, Ipseal and Ipal sacrificial and diffusion coatings," Brian Norton, Indestructible Paint's Managing Director says. "Although originally developed as chrome-based products, the new regulations under REACH – and other international standards – now call for Chrome VI to be replaced. Our new generation of products in this field addresses this requirement and will take centre stage on the stand at the show."

This important step forward is the direct result of Indestructible Paint's cooperation with both commercial and academic partners, and reflects the company's long standing belief in continuous product research and development.

"The greater performance needs that sit alongside stronger, more stringent regulatory demands mean that the industry can never stand still, and our well-established belief in acting both as a catalyst and innovator has always been central to our success," adds Brian Norton. He points out that the aerospace sector has always been one of the key beneficiaries of this approach.

Indestructible Paint is also drawing attention to its long list of industry accreditations with AS9100 Revision D an excellent recent example. "The AS9100 Revision D recognition, which builds on our well-established Revision C accreditation, is a direct result of our management's and employees' commitment to high standards," continues Brian Norton.



"We are very proud of this achievement and are confident its importance will be acknowledged by customers throughout the aerospace field," adds Alan Norton, Operations Director, who will oversee the integration of the standard into the company's culture.

Full details of Indestructible Paint's leading role in the aerospace coating field are being presented on the stand where the organisation is also happy to discuss trial requirements with OEM's.

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