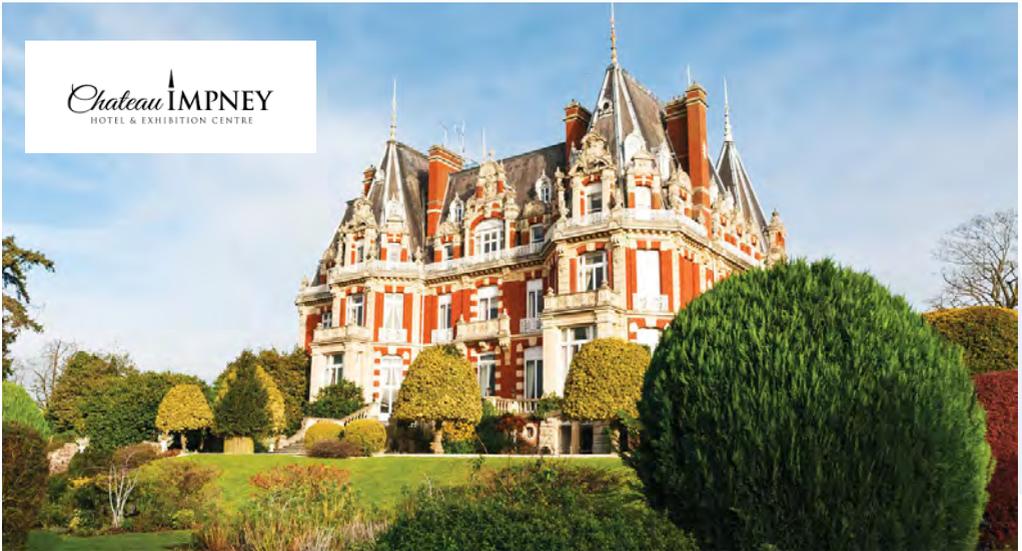




information



The Institute of Materials Finishing are pleased to announce that IMFAIR 2018 will take place on 25th and 26th of September 2018 and we would request that you put a place marker in your diary.



The theme this year will be primarily ‘Coatings in the Automotive, Aerospace and Associated Industries’ and we would like to announce a call for papers with an emphasis on innovative coatings and applications to include pre-treatments and surface preparation. We would particularly welcome any papers referencing finishes on non-metallic surfaces. We also invite any Sustaining Members who would like to ‘sponsor’ parts of the seminar to contact us for details.

As in previous IMFAIR’s there is the opportunity to have an exhibition stand to further promote your company and be a focus for the extremely important networking opportunities.

IMFAIR has always been well attended and proven to be an important event in the Materials Finishing world, don’t be late or you may miss this opportunity to hear about or announce the very latest technology.

Contact helen@materialsfinishing.org
for further details or to pre book

imf dairy

IMF Events

8th September 2017

Education Enrolment Date

1st & 2nd November 2017

Advanced Engineering

28th November 2017

AGM

Cobden Hotel Birmingham

25th & 26th September 2018



Southern Branch Events

4th October, 2017

at Lloyds Register Surface
Engineering and Welding
Seminar Combined meeting
with The Welding Institute

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@materialfinishing.org



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Press release 21/07/2017 – EagleEye Deluxe: The New Handsfree ASTM Compliant Inspection Lamp from Spectroline is Launched

Spectroline NDT, supply partner of Pexa Ltd, have launched a brand-new inspection lamp: the EagleEye™ DELUXE (EK-3000SC). The Inspection Kit frees NDT inspector hands during magnetic particle and liquid penetrant inspections and can be used in any fluorescent inspection application. It makes magnetic particle testing a one-person job in any field. The kit comes complete with the EE-365SC UV-A/white light LED lamp with a lanyard, a head strap, a lamp mount, two replacement splash guards with integral particulate filters, two spare rechargeable batteries, a battery charging cradle with AC/DC cord sets, UV-absorbing spectacles and a padded carrying case.



Key features:

- ASTM Compliant for all fluorescent inspection
 - ASTM E3022-15 Compliant
 - Meets ISO EN 3059 specifications for inspection
 - Integral black-light filters in faceplate minimize violet hue
 - Lamp can be worn on hard hat, or mounted on spray can
 - Upgraded splash guards keep lamp dry
 - Long-lasting UV-A lenses protect against solarisation
- Powered by a rechargeable Lithium-Ion battery (included)
 - Provides up to 90 minutes of continuous inspection
 - NEW and IMPROVED grip for mounting on any spray can!

For more information, please contact:

Matt Lowthian, NDT Business Manager
matt.lowthian@pexa.com

John Haslam, NDT Sales Manager
john.haslam@pexa.com

Pexa welcomes Craig Whittaker MP



Managing Director of Pexa, Jim Rowbotham, (pictured with Craig) had a short meeting with Craig and took him on a tour of the site, where he was able to talk to most of the Pexa team and hear their thoughts on wide range of issues, which they were more than happy to share.

Craig was interested to learn of Pexa's international growth achievements and plans for the future. Important aspects of the impacts of Brexit and other business issues were high on the agenda and Craig took on board many of the points which are important to UK businesses. Jim Rowbotham said "We were very pleased that Craig made time to come and see us and was willing to engage with us on the real issues that we face. I was very pleased that our team offered such a friendly welcome and that Craig was so willing to take time to get to know us".

For further information, please contact:

Pexa: Managing Director Jim Rowbotham
on +44 (0)1422 314400
or email jim.rowbotham@pexa.com

On Friday 21st July 2017, Pexa welcomed Craig Whittaker MP to their premises in Holywell Green. Craig was first elected as Calder Valley MP in 2010 and is a well-known supporter of local businesses and the contribution they make to the economy and local communities. He visited Pexa to learn more about the business and the plans for growth over the coming years.



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Secretary General's Column, August 2017

July has been another busy month in my ever-increasing work load, particularly my employment which has, I'm afraid limited my time spent on behalf of the IMF, although I have managed to attend the latest committee meetings of both the Organic group and Education & Training. One thing to come out of both these meetings is the ongoing desire and commitment to bring our training modules up to date; this is particularly so with the organic content at both foundation and technician level, and the Organic group are currently running a peer review exercise on updated courses. E&TC have been working on electroplating practice, and I'm happy to have been able to contribute some information to help with this.

You will remember that I attended, on behalf of the IMF, a workshop organised by Innovate UK, to consider promoting and developing the image of surface engineering and materials finishing to government, and industry as a whole. The workshop, held in April, highlighted four areas where our industries need to be stronger, particularly in promoting the need for surface engineering across all aspects of UK manufacturing.

I attended a follow up meeting, jointly organised by Innovate UK and Cranfield University, where all the points highlighted at the April workshop had been collated and presented to over forty representatives from industry, institutes and trade bodies. A full report is to be issued by Innovate UK, and I will report on relevant information once received.

However, what came strongly out of the information was an apparent lack of "leadership" for our industry, to interface not only with UK government but other sectors of British industry. A similar "Leadership Forum" has been active in the composites industry for a short time, and the Cranfield meeting were advised of the success this forum has achieved in raising the profile of its industry.

Consequently, an action was raised for senior members of institutes and trade associations involved in materials finishing and surface engineering to meet to try to map out a composition for a leadership forum in our industry, and a

modus operandi to correctly promote our benefits to UK Plc.

I agreed to try to pull this together, and my plan is to host at meeting at Exeter House with senior representatives from other involved bodies, to include the IOM3 Surface Engineering Division, the Surface Engineering Association, the British Coatings Federation, The Welding Institute and the Vitreous Enamellers association. I hope to be able to action this during August, and will report progress in the next edition of IMFormation.

Linked in with these attempts to more widely promote finishing, is the ongoing project, being co-ordinated through the IOM3 schools programme, to attract school leavers into our industry. The teachers' forum, originally planned for June, will now be held in November, and will invite about twenty teachers involved in science and engineering to a day's seminar to promote the advantages and needs of all aspects of our industry and to provide them with packs so they can pass on interest in our dynamic industry to youngsters.

By engaging in promotion of our industry in conjunction with other involved bodies, it is hoped that the importance of all aspects of surface engineering and materials finishing will be highlighted across all aspects of UK industry, and into government, and we can attract more qualified scientists and engineers to come and join our community. This can only be good for the "long term health" of the industry, but also for our Institute!



Graham Armstrong
August 2017

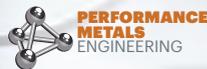
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Coventya appoints sales engineer to support continued growth

Coventya have appointed Mr Matt Hawkins to their team in the newly created role of Technical Sales Engineer. He is focused on supporting a number of existing UK customers, whilst introducing their range of chemical products to surface finishers who supply aerospace and automotive industries.

UK Sales Manager Paul Wynn commented on the new appointment "Strong sales growth and continued expansion means we need to strengthen our sales and service team. Matt is a great fit for our company and I am delighted he chose to join us".

Celebrating 90 years as an internationally recognised technology leader, Coventya develops innovative chemical products for electroplating and surface finishing. Established in the UK March 2012, the company operates from its facility in Four Ashes near Wolverhampton, which also their global technology centre for cathaphoretic lacquer development. Products manufactured in Four Ashes are exported around the world throughout Europe, The Americas and into Asia.



exam results

Foundation

James Lyon
Tewkesbury Diamond Chrome

Carl Davis
R A Chilton

Andrew McCourt*
R A Chilton

Tadeusz Kaniewski#
Stainless Plating

Mark Fowler#
Stainless Plating

Kevin Drurly*
Exotec Precision

Robert Cable
Exotec Precision

Kellie Price#
Russell Laboratories

Liam Vermont*
Russell Laboratories

Anna Nowosad-Naklicka*
Interplex PMP

Jaroslav Wyrobek
Interplex PMP

Debbie Redpath*
Interplex PMP

Alanna Draper-Webster#
NMB Minebea

Distinction * Merit

exam results

Foundation

Kirill Djatsenko
West Middlesex Surface

Bartosz Stopczyk#
Silchrome Plating

Nicholas Nyamayenga#
Silchrome Plating

Paul Bailey
Silchrome Plating

Jake Tannahill
Frost Electroplating

Ronald Storer
Frost Electroplating

Charlotte Wicketts
Frost Electroplating

William Storer#
Frost Electroplating

Dale O'Brien#
NMB Minebea

Nazia Kouser
Ashton & Moore

Jaroslav Wyrobek
Interplex PMP

Debbie Redpath*
Interplex PMP

Distinction * Merit

Comprehensive Metal Heat Treatment Services for the Offshore Industry

A Wallwork Group are at Offshore Europe 2017 on Stand 3C147. Many manufacturers in the oil, gas and energy industries rely on the company's services to ensure that their engineered components meet the stringent quality standards needed in such harsh environments.

The company is Schlumberger approved and operates to ISO9100 and ISO9001. As a major supplier of heat treatment services to the aerospace industry, they also enjoy main tier manufacturer approvals. Wallwork use their own fleet of vehicles from three locations and provide a nationwide 24/7 operation to ensure fast order turn-around.



From simple fasteners, nuts, bolts, through gears, pistons, valves to cylinder pumps and well-head components, Wallwork optimise metal hardness to the customer's requirements using a range of heat treatment methods.



Hardening and tempering imparts optimum hardness, strength and toughness. Sometimes this can help component designers save weight and material by avoiding unnecessary over-engineering. Another advantage is a potential to eliminate additional final finishing processes – saving both time and money.

Plasma and gas nitriding has many benefits for the oil and gas industry manufacturers. Particularly, increasing wear and anti-galling properties significantly improves finished part performance.

Tufftride and Quench-Polish-Quench services produce parts that are exceptionally hard wearing and resist fatigue whilst ensuring there is minimal or no dimensional change. Also, surfaces begin to exhibit a self-lubricating behaviour.

Besides these and many more metal heat treatments, Wallwork is also home to advanced PVD and carbon based hard coatings, so can offer a one-stop shop to push part performance to the next level. Find out more at www.wallworkht.co.uk.

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New opportunity with Industrial Strategy Challenge Fund

The Government's recent announcement to eliminate the sale of new petrol and diesel cars and vans from 2040 provides new opportunities and challenges to both the transport and electrical energy storage industries, such as in the development of new electrode surfaces and chemistries. It will also open up new challenges in developing the circular economy and green chemistry, as the demand for reusable and recyclable systems will increase.

In conjunction with this target date, the Government has also announced the flagship Industrial Strategy Challenge Fund, committing £1 billion over the next 4 years. This new opportunity is designed to help deliver a step-change in the UK's ability to turn its research strengths into commercialised products and is aimed at enabling businesses of all sectors to unlock markets and industries of the future in which the UK can become world-leading.

The IMF and its members, both the high technology companies and the academic members, have excellent capabilities in manufacturing technology through electrochemical approaches. They are regularly recognised by industry in the UK

and overseas in key areas including low voltage electrodeposition (< 10V), higher voltage electrophoretic deposition (> 10's V) and electrostatic spraying (> 100's V) to manufacture coatings on metals, alloys, composites and polymers. Whilst the IMF and its members are predominantly focused on the established businesses for coatings manufacture (e.g. marine, aerospace), IMF's science committee recognises the growing challenges and opportunities for coatings manufacture in the new electrochemical energy storage sectors e.g., Lithium-ion batteries and supercapacitors of all types.

This call for interests is to create a dialogue around the key themes of the UK's Industrial Strategy Challenge Fund for energy, specifically about how IMF and members can help the UK to deliver 'the development, design and manufacture of batteries that will power the next generation of low carbon electric vehicles'.

For further communication, please get in touch with Trevor Crichton at IMF Head Quarter, Exeter House, Birmingham, B1 1NQ, United Kingdom.

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We are recruiting for a Gold Plating Technician to operate and maintain our very own 'hard plating' facility on site in our busy Brighton based jewellery workshop. Experience in the field of electroplating is essential as is a background in working safely with chemicals, an understanding of COSHH Health & Safety and a good grasp of maths. Along with keeping up with the demands of plating all the jewellery made by our team of jewellers and managing the pH balance and chemicals within the gold plating tanks, other duties include routine maintenance across machinery and equipment in the workshop such as gas torches and canisters.

A strong understanding and experience of using Microsoft Office is required to ensure records are kept of all the activities surrounding the gold plating machine and the chemicals within it. This must be done very thoroughly so a fastidious nature is a characteristic we'll be looking for in a potential plating technician.

Additional responsibilities include:

- Routine maintenance across all the equipment and machinery in the workshop;
- Monitoring and maintaining the levels of workshop consumables
- Health & Safety for the workshop; and
- General ad hoc technician duties

Skills:

- You will have experience in gold plating and working within a workshop environment;
- Experience working with Chemicals or studied Chemicals / Chemistry;
- A basic knowledge of jewellery equipment processes and practices;
- Strong problem solving and analytical skills are essential as is the ability to work alone under your own initiative. The ability to work well under pressure and organise and prioritise is essential for this role;
- This is a hands-on position working in a fast-paced environment, team players are a must in this department, the kind that go the extra mile without being asked;
- Some Health and Safety knowledge in a manufacturing environment would be desirable.

This is a full-time role. The salary offered is dependent on skills and experience. PPE will be provided and must be worn.

To apply, please send a CV and covering letter to francesca@poshtottydesigns.com

Innovative Approach to Electroless Nickel



R A Chilton have a long history of copper electroforming. We produce the copper rotors for use in high speed air bearing spindles. The requirement for quality and reliability on these parts, which rotate at incredible speeds of up to 350krpm, is paramount; if they are not exactly right the copper could separate from the rotor and destroy the spindle.

Our reputation for quality, reliability, and attention to detail, led a customer to ask us to solve an ongoing quality issue with their electroless nickel plating.

A combination of numerous blind threaded holes, and an end customer with exacting specifications was causing issues. The threaded holes at both ends of the part were suffering quality issues requiring them to inspect 100% of the threads on return from plating. Issues included non plating and rust, too much growth, and salt deposits trapped in the holes after plating.



We had never worked with electroless plating solutions before, but we like a challenge! Comprehending the electroless nickel process involved a sharp learning curve, but also enabled us to take a fresh approach unhindered by traditional methods or existing production. After 18 months of R&D we have progressed from the lab with a beaker on a hotplate, to a working production line.

Our threaded holes are now flawless, thanks to the use of ultrasonics and our innovative fixturing to ensure the cleaning, rinsing, and plating solutions access every hole at every stage of the process.

We look forward to a continued good relationship with our customer, and to establishing new relationships as we establish ourselves as a quality supplier for Electroless Nickel, alongside our traditional Copper Electroforming.



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David Meacham**

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david@materialsfinishing.org**

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London's Indestructible Surprises

It isn't obvious, but many of London's famous landmarks – according to publicity at the time – owe much to Indestructible Paint. The Houses of Parliament, Buckingham Palace, the British Museum and even outside the capital at Windsor Castle – all have benefitted from Indestructible Paint's technology and expertise . . . at least as it was around the turn of the 19th/20th century.

In each case, protection of these world-renowned structures owes much to one Mr Henry Browning, who not only developed 'Browning's Indestructible Preservative' but is also recorded at the time as manager of Indestructible Paint.

"A case in point is Cleopatra's Needle," says today's Managing Director, Brian Norton. "Arriving from Egypt in 1878, and already some 3300 years of age, there were widespread fears about the granite's ability to withstand the London air of the day – not least the myriad coal fires powering rapid industrialisation at the time.

"Henry Browning's mixture of wax and resin was used immediately as a protection and was seen as so successful it went on (literally) to a list of other famous structures which still, of course,

delight to this day," adds Brian Norton.

A mixture of cleaning and coating at periodic intervals since then has maintained not only a pleasing appearance but has also provided the protection needed to survive everything the capital's atmosphere has thrown at it for almost 140 years. "Proof, it seems, that the name Indestructible Paint stood for as much technical capability then as it does today," concludes Brian Norton.



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Institute of Materials Finishing



“Sparks will Fly”

Date: Wednesday 4th October 2017 (17:00 - 21:00)

The Southern Branch of the IMF in conjunction with the Southern Counties Branch of the Welding Institute is pleased to invite you to an evening Seminar.

**Venue: Lloyds Register Global Technology Centre,
Southampton Boldrewood Innovation Campus,
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Southampton,
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Presentations:

To be confirmed

Exhibition: 16:30 - 18:45

Space will be available for 7-9 small table exhibits in the auditorium area. If you are interested in exhibiting then please contact:

Clive Arnold (e.mail: clive.arnold@lr.org).

Charge: £10:00 to cover the buffet payable on the day.

Registration: If you are interested please contact either Helen Wood (helen@materialsfinishing.org) or Clive Arnold (e.mail: clive.arnold@lr.org)

