



INFORMATION

OCTOBER 2024

2024 AGM

To be held at

The Manor Hotel, Meriden

CV7 7NH

10.45 Arrival Coffee

11.00 am Morning Session

To include 2 lectures and Awards

12.30 Lunch

1.45 pm Afternoon Session

3.00 pm Finish

Email helen@materialsfinishing.org for more details



www.materials-finishing.org



DIARY



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IMF DIARY

DISTANCE LEARNING START DATES

**Apply by 2nd January 2025 for start date
10th January 2025**

**23rd May 2025 for start date 6th June
2025.**

Please note that all course fees must be paid in full before any course materials can be released.

Please contact Karen Yates by email
training@materialsfinishing.org

You can find details of courses and qualifications
on our website- <https://materials-finishing.org/>

UPCOMING EVENTS

Southern Branch Zoom Seminars

12th November - Metals from Space

Times and logon details will be available nearer the time.

Annual General Meeting

20th November 2024



Greetings from the marina front in the village of Latchi in Cyprus. Yes, your Secretary General is off travelling again, but for this week it's at least a holiday! I'm sat having breakfast with an iced coffee overlooking several floating gin palaces in a really pretty harbour; the temperature is a pleasant 26 degrees and the sun is shining from a perfect blue sky! What a relief to be away from rain and flooding in the UK.



It's not all fun though. I get home on Sunday 13th and jet off the day after for 12 days business trip to Japan taking in their air show in Tokyo, supporting the Indestructible distributor for that country, and several key clients to discuss and demonstrate chrome free sacrificial and diffusion coatings. My travelling colleague and I are back in the UK for about 10 days then we're off again to China for about a couple of weeks. This will mean that I will miss attending in person the AGM scheduled for the 20th November, but I will attempt to join the meeting remotely from my hotel room in Zhuzhou!

Trying to turn my mind away from the joys of holidaying back to surface finishing matters, it was good to receive the news that DEFRA had signed off the re-authorisation of Chromium Trioxide for use in coatings and surface treatments for metal finishing. This is for 12 years which allows the continued use to 2036; well beyond when I will have left the industry. This covers use in the UK, and the ability for UK companies to supply products for continued use throughout the world with the exception of Europe.



**Halcyon Environ-
mental**

*Environmental and H&S Consultancy
Services*

I understand that the position on chrome containing materials is again under consideration in Europe, so I hope to be able to further comment in the next edition of IMFormation.





SECRETARY GENERAL'S COLUMN (ii)

Reverting to matters closer to home, can I remind you all again about the AGM scheduled for the 20th November 2024. Whilst being a terrible example by being on the other side of the world, I really would encourage as many of you as possible to attend, this being the AGM before we start to celebrate our 100th anniversary. The calling notice, and full details are noted elsewhere within this edition of IMFormation.

Helen is co-ordinating the plans to celebrate our 100 years, the first of which will be a celebratory dinner to be held on the middle evening of the Surface World Show at the NEC in February next year. The dinner will be held at the Windmill Hotel in Coventry. Again there are details on this elsewhere in this issue of IMFormation and I do encourage all members, individual and sustaining to join me at this exciting event.

Following on through 2025, there are several other events in planning, to include our Golf Day, held jointly with OCCA, which is scheduled for May 2025, this time at what I am told is the challenging course at the Harborne Golf Club in Birmingham. I'm sure the team from Indestructible will be there to defend the trophy won in June this year!

So wish me well on my forthcoming travels and I hope to meet with you all, at least virtually, at the AGM in November.

Graham Armstrong 4th October 2024 Latchi, Cyprus.



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**BE ACTIVE WITHIN
THE IMF, JOIN A
COMMITTEE AS
WE TURN**

100

**We have many committees and are looking for new
committee members get in touch for more details.**

Email office@materialsfinishing.org





The Institute of Materials Finishing has been sponsoring the British Standards Institute for more than ten years.



The IMF has hosted a number of National Standard Board meetings and one is due to take place at New Exeter House in November.

Recently work has been undertaken to fully differentiate the use of hexavalent and trivalent chromium passivation systems on zinc in two international standards and a ballot is now taking place to adopt a standard specifically for the continued use hexavalent chromium in those markets in which this material's inclusion is authorised under the REACH Regulations.

As well as working closely with STI 33, the National Committee for Electro Deposited and Related Coatings the IMF has also had representation on ACE 65 – Non-Metallic Materials for Aerospace Purposes which is, amongst other items, working on the adoption of non-hexavalent chromium containing compounds where its continued authorisation is in doubt and alternative coatings need to be used with proven equivalent or improved properties.

John Oliver



AGM CALLING NOTICE

Notice is hereby given that the Annual General Meeting of the Institute of Materials Finishing for the year ended 30th June 2024 will be held at The Manor Hotel, Meriden on Wednesday 20th November commencing at 10.45 am.

Agenda

1. To approve the minutes of the Annual General Meeting held 29th November 2023
2. To receive the Report of the Management Board for the year ended 30th June 2024.
3. To receive and adopt the Statement of Accounts for the year ended 30th June 2024
4. To approve the Officers
5. Any other business

By order of G Armstrong



Secretary General

October 2024

ANNIVERSARY DINNER

100 Year Anniversary Dinner 26th February 2025



To start our year of celebrations the Management Board would like to invite you to our 100-year Anniversary dinner to be held at the Windmill Village Hotel Coventry on the 26th February 2025. this is the first night of Surface World.

It will be a three-course meal and entertainment. We do hope you will come and help us celebrate 100 years of the IMF.

Early Bird offer

We are offering tables of 10 for £350 or individual places at £40 a head.

If you are interested in attending, please get in touch with Helen.

helen@materialsfinishing.org





Heartfelt congratulations to Anthony Vaughan "Askey" Retiring after an unbelievable 50 Years of loyal service.....5th August 1974 to 5th August 2024.

His last day was a day of mixed emotions for the entire Amfin team, we were sadly finding ourselves saying goodbye to our friend and colleague.



Askey has worked on various processes throughout his 50 years in the industry including, plating, anodising, passivation, phosphating & maintenance before finally settling in the blasting department.

After an incredible 50 years as part of the Amfin family he has decided that now is the right time to take a well-earned break, and to enjoy more free time with wife Diane and their family. I believe there was also some mention that the fishing rods were going to see a lot more use.

We would all like to take this moment to share our overwhelming gratitude to Askey for his many years of loyal service, hard work and friendship!

Askey, we wish you joy, happiness and good health for the future; enjoy every day of retirement, congratulations!



All the very best from your Amfin Family.

ENROLMENT OFFER



IMF Courses next enrolment 10th January 2025

If you book and Pay for your January 2025 course by the 30th November you pay the 2024 prices.

Email: training@materialsfinishing.org

For further Details



METALS FROM SPACE



Metals in Space

Seminar

Tuesday 12th November 2024 at 19-15hrs

The Southern Branch of The Institute of Materials Finishing is pleased to announce the above upcoming seminar.

Our speaker John Arnold from Leeds Astronomical Society will talk about how Metals, which we recognise as common place on Earth, are more common than you think in the Universe.

John has given previous talks for the IMF which have been well received so we look forward to welcoming you to what we think will be a very interesting evening.

The seminar will be held over the 'Zoom' platform.

If you wish to join us for this seminar, please contact:

Helen Wood via helen@materialsfinishing.org

We look forward to seeing you.



NEW MEMBER-HYDRO (i)

Hydro: Leading the Way in Sustainable Aluminium Production

Hydro is committed to driving the green transition with a focus on sustainability and responsible innovation. As a global leader in aluminium production, we are dedicated to reducing our environmental impact and protecting biodiversity. Our goal is clear: to become a net-zero company producing net-zero products, contributing to a net-zero society.



Innovating Towards Net-Zero

Innovation is at the heart of Hydro's strategy to achieve our climate ambitions. Aluminium plays a crucial role today due to its lightweight, durable, and recyclable properties. More than 70% of Hydro's aluminium is produced using renewable energy, resulting in a significantly lower carbon footprint.

We have invested in advanced technologies for over a decade to increase the use of recycled aluminium, which is central to our circular economy approach. Hydro's low-carbon aluminium products, with a carbon footprint of less than 4 kilograms of CO₂-equivalents (CO₂e) per kilogram, are designed to help our customers meet their greener targets while also satisfying the growing demand for environmentally responsible products.

Anodizing and Fabrication at Hydro

We provide a wide range of aluminium fabrication services with a focus on quality and long-term performance. Our in-house anodizing process plays a crucial role in enhancing the durability and functionality of aluminium components.

Anodizing aluminium extrusions with Hydro improves corrosion resistance and reduces the risks of filiform corrosion, chipping, flaking, peeling, or chalking. Additionally, it enhances the thermal and electrical insulating



NEW MEMBER-HYDRO (ii)

properties of the material. We offer a 25-year guarantee on all profiles and components anodized to our 25-micron standard, ensuring they remain free from excessive peeling, fading, staining, or discolouration, subject to terms and conditions.

Our anodizing and surface treatments are rigorously inspected to meet BS3987:1991 or Qualanod standards. We also provide customers with a detailed guide for maintaining anodized products to help ensure their longevity.

Hydro's in-house fabrication capabilities, including 5-axis CNC aluminium machining, bending, welding, and anodizing, allow us to manage the entire process at our facilities. This integrated approach ensures consistent quality, precise lead times, and effective management of environmental impact.



Transparent and Greener Practices

At Hydro, we believe in full transparency regarding the environmental impact of our aluminium. From raw material extraction to the final product, we provide detailed carbon footprint documentation for every step of the process, including materials and transportation. This ensures that our customers can confidently achieve their more sustainability goals with our products.





NEW MEMBER-HYDRO (iii)

Aluminium and it's potential

Aluminium is a highly versatile material, and at Hydro, we are focused on making the most of its recyclable properties. By increasing the use of recycled aluminium and prioritising energy efficiency in our production processes, we are contributing to a more circular economy. As industries adopt more stringent climate targets, Hydro's low-carbon and recycled aluminium can help to reduce overall environmental impact.



Why Choose Hydro?

In a world that is increasingly focused on climate action, industries must innovate and transform their operations to meet new standards. Hydro's low-carbon and recycled aluminium products offer a practical and a more sustainable choice for those looking to reduce their environmental footprint.

Hydro's commitment to more sustainability practices is not just about reducing our own impact; it's about enabling our customers and society to achieve a greener future. Together, we can work towards a net-zero world.





Dear Esteemed Colleagues,

We are pleased to inform you that abstract submission and registration for EDNANO-16 are officially open as of today, 16 September 2024.

EDNANO-16, dedicated to the ElectroDeposition of NANOstructures and their applications, will be held in **Florence**, Italy, from **10-12 April 2025**.



The conference will include oral and poster sessions at the University of Florence. Unlike previously announced, the conference will be held in the city centre, in the building of the Faculty of Humanities and Education in Via Laura 48.

In addition to the scientific programme, special social events have been organised, including a **social dinner** in a typical Tuscan restaurant and an **excursion** to the Palazzo Vecchio museum.

For full details, abstract submission and registration, please visit the website: www.ednano-16.unifi.it.

Important dates:

- 16/09/2024 - Opening of registration and submission of abstracts
- 15/01/2025- Deadline for submission of abstracts
- 12/02/2025- Notification of acceptance of abstracts
- 20/02/2025- Deadline for registration
- 10-12/04/2025- EDNANO-16 Congress

We look forward to welcoming you in Florence for this special event.

Kind regards,

The EDNANO-16 organizing committee



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We are a leading provider of technical training and skills development for employers and individuals. IMF courses lead to recognised qualifications and cover a wide range of materials finishing and surface engineering applications. IMF tutored courses, distance learning and corporate training underpin business performance and enable profitability.

Foundation Module Basic Surface Finishing

Develops fundamental understanding from 29 Units of which a student studies 15, including 7 mandatory units. One of three core technology blocks are chosen, either **Electroplating** (8, 9, 10 & 18); **Organic Coating** (19, 20, 21, & 23); or **Aerospace Finishing** (19, 21, 24 & 25), each comprising 5 units plus 3 optional units relevant to the student or their employer – all units are listed below.

Two pieces of marked coursework are required and on passing an examination a student is awarded the **Foundation Certificate**.

Unit 1 *	Surface Finishing
Unit 2 *	Corrosion
Unit 3 *	The Environment & Surface Finishing
Unit 4 *	Health and Safety
Unit 5 *	Cleaning and Pre-treatment
Unit 6 *	Sacrificial Coatings
Unit 7 *	Services
Unit 8	Surface Improvement
Unit 9	Principles & use of Electroplating (Double unit)
Unit 10	Plant and Equipment
Unit 11	Copper, Silver and Gold Plating
Unit 12	Nickel Plating
Unit 13	Chromium Plating
Unit 14	Zinc & Cadmium Plating & Passivation
Unit 15	Electroless Plating

Unit 16	Alloy Plating & Composites
Unit 17	Printed Circuit Board Processes
Unit 18	Electroplating - Care & Maintenance of Solutions & Product Quality
Unit 19	Conventional Paint Processes (Double unit)
Unit 20	Electrophoretic Paint Processes
Unit 21	Paint Application Methods
Unit 22	Coating Powders & Application
Unit 23	Testing Paint & Powder & Coatings
Unit 24	Chemical Conversion Coatings and Sol Gel Coatings
Unit 25	Anodising of Aluminium & Alloys
Unit 26	Vacuum Coating Processes
Unit 27	Duplex Coatings of Galvanising plus Paint
Unit 28	Electroforming
Unit 29	Nanotechnology

* Mandatory units

On achievement of the **Foundation Certificate** candidates may wish to progress to the **Technician level modules**, please see over the page for details.

EDUCATION AND TRAINING (ii)

For more comprehensive details of all modules offered please refer to our website www.materials-finishing.org where you find the full syllabus for each module.



Technician Modules

Develops in-depth knowledge for key finishing technologies and their application and best practice methods.

Principles of Electroplating	Broad introduction to electroplating technology
Electroplating Practice	Industrial application of major metals and supporting pre-treatments for electroplating and electroless deposition
Paints, Lacquers & Varnishes**	Application methods, equipment, curing, drying and testing of solvent and water based industrial finishing processes
Powder Coating	Application methods, testing, environmental, health & safety topics
Environment, Health & Safety	Legislation information on environmental, health & safety topics
Materials Science	Manufacture, properties and examination of materials which require various forms of coating or treatment to meet service life needs
Automotive Surface Finishing**	Applications specific to the automotive industry
Electroforming	How electroforming can be used to manufacture components and tooling

On successful completion of four marked assignments and passing an examination, a student is awarded a **Technician Module** certificate.

Passing two Technician modules leads to the award of **Technician Certificate**.

Passing four Technician modules leads to the award of **Advanced Technician Certificate**.

** These modules together cannot rate towards the award of a Technician Certificate





EXTREME SURFACE ENGINEERING & COATINGS (i)



This three-day course will provide an understanding of the role that surfaces play in materials behaviour of thin film and coating systems. Sessions will review concepts of surface engineering for multiple applications and how this may be used to optimise and influence the product life cycle.

The course covers the deposition and characterisation of functional coatings and thin films, focussing on coatings for aerospace and the influence of surface engineering on the product life cycle. Deposition methods covered include, physical vapour deposition, chemical vapour deposition, electroplating, and plasma spraying. The role coatings play in high temperatures tribological and environmental applications will be covered. Learn how surface engineering is driving performance improvements and innovation across these sectors.

Continuous Professional Development (CPD)

This course is designed to support your ongoing professional growth. Equip yourself with the knowledge and skills needed to excel in your career, stay current with industry trends, and meet the demands of your profession.

Networking Opportunities

Connect with industry peers and leaders. Build valuable relationships that could enhance your professional journey.

At a glance

- Dates 12 - 14 Nov 2024
- Duration - 3 days
- Location - Cranfield campus
- Cost - £975 [Concessions available](#)



EXTREME SURFACE ENGINEERING & COATINGS (ii)

Course structure

The structure covers the product life cycle from the design of a coating system to the intended application and a session on the sustainability aspects. The sessions cover deposition methods, coatings testing and coatings in applications

What you will learn

- Expanded knowledge of engineering PVD, CVD, electrochemical and plasma spray coating processes, and their applications.
- Awareness of alternative coating technologies and the advantages they offer.
- Understanding of how coatings are designed into products, and how their performance may be assessed and improved.
- Opportunity to meet experts from different engineering coatings fields.

On successful completion of this short course, you will be able to:

- Demonstrate understanding of the concepts of surface engineering applied to a product lifecycle.
- Have a greater awareness of alternative coating technologies and the advantages they offer.
- Understanding of how coatings are designed into products, validated, and how their performance may be assessed and improved.
- An appreciation of future materials sustainability and process technologies.

Core content

Surface engineering; including surface characterisation using SEM, FIB, XRD, nano-indentation, AFM, XPS, scratch testing, RFDA, optical methods such as FTIR, Raman, UV-Vis spectroscopy.

Coatings technology; PVD, thermal evaporation, CVD, electroplating, and plasma spraying.

Contact

For further information contact Geoff Hale :-

geoffhaleiom3@gmail.com



Join us as we celebrate **100 years**

The IMF are 100 years old in 2025



In 2025 the Institute of Materials Finishing is celebrating our 100 birthday.

Founded in 1925 as the Electrodepositors Society to serve the electroplating industries, we became the Institute of Metal Finishing in the 1950's. In 2012 we re-badged ourselves as the Institute of Materials Finishing, to better reflect our involvement with all aspects of surface engineering.

Our celebrations begin in February 2025 at the Surface World exhibition, with a centenary dinner taking place on the first evening, Wednesday 26th February 2025.

Tickets will be £35 per person or a table of 10 for £300.

There will be a 3 course dinner followed by entertainment.

Please let Helen know soonest if you would like to attend by email: helen@materialsfinishing.org.



Further events are being planned throughout 2025, which we are sure will interest and engage all our members. Please keep an eye out for

announcements in future editions of IMFormation! Please try to join us as we mark our Centenary!

Email: helen@materialsfinishing.org

