



## IMFormation February 2012

### Is it time for a 'Name Change' ?

At the 2011 Annual General Meeting a proposal was put to those present to consider the changing of the Institute's name to The Institute of Materials Finishing. The proposal is that the insignia IMF should remain.

Surface Finishing covers a multitude of finishing not just metals and over the last 60 years the finishing of metals with metallic coatings has significantly decreased with the inroads of plastics and composite materials which can be metal coated where required and the use of organic materials like paints and powder coatings where self coloured ancillary components are preferred.

The objective of putting this proposal to the 2011 AGM was to seek approval to investigate the practicalities of the change which requires time and assessment of necessary alterations to the rules and regulations as well as an estimate of costs implications. The proposal for the change was proposed, seconded and unanimously agreed at the 2011 AGM thus enabling the governing Management Board to proceed with the necessary assessment.

This will be an agenda item at the 2012 Annual General Meeting to be held on the 5 December 2012 at the Birmingham Medical Institute. However, should the assessment proceed with speed it could be that an Extraordinary General meeting may be called.

Major decisions like this should be considered by all Members of the Institute and here is the opportunity for the Membership at large to voice their opinion.

Send your thoughts and comments by letter to Exeter House marked for the attention of the Secretary General or by email to: [barry@instituteofmetalfinishing.org](mailto:barry@instituteofmetalfinishing.org)

### Health, Safety & Environment

#### **Chemical Hazards Communication Society (CHCS) REACH 2013**

#### **London - 21 February 2012 Seminar entitled REACH Registration 2013 – Practical Experience & Help from those who have 'Boldly Gone Before'!**

The REACH Regulation (EC) No 1907/2006 requires manufacturers and importers of those substances of between 100 and 1000 tonnes per year to have registered those substances by 1 June 2013. Selected speakers from HSE's REACH Helpdesk, REACH Ready and Industry will give you the benefits and help you avoid many of the pitfalls experienced by your predecessors who have already gone through the process for the 1000 tonne plus substances.

#### **REACH**

ECHA have added another 20 substances to the candidate list and have published their 3rd recommendation for an update to Annex XIV. ECHA expect this to become part of the legislation in February 2013 with a 'Sunset' date of May 2016.

### IMF News



### **New Members & Transfers Affiliate**

Rivas Neira, Eliseo London  
Rankin, Clare Seagate Ireland  
Griffiths, Brent MP (Eastern) Ltd  
Nickerson, Mark MP (Eastern) Ltd  
Donnan, Russell Surface Technology plc  
Lewis, James Twickenham Plating Ltd  
Tranca, Eugenia Twickenham Plating Ltd  
Kwan, Sw-To Deutsch UK  
Gilmour, Craig Deutsch UK  
Merritt, Lee Mettis Aerospace  
O'Neill, Richard Mettis Aerospace  
Cotton, Edward Morgan Tech Ceramics Ltd  
Harrison, William HENKEL Ltd  
Webster, Shael Interplex PMP Ltd  
Skingsley, Ian Tech-Ni-Plant Ltd  
Keeble, Daniel Tech-Ni-Plant Ltd  
Paterson, Charles Acorn Surface Technology  
Sinclair, Arron Acorn Surface Technology

### **Member (MIMF)**

Hope, Janet LVH Coatings Ltd  
Onwuegbuche, Victor Jaguar Land Rover

### **Fellow (FIMF)**

Dullaghan, Conor Ohio Precision Metals  
Eagleton, Thomas Home Office, London  
Larson, Clive Exec. Transactions Editor

## **Education & Training**

Over the past 2 years we have reviewed and revised, where appropriate, all of the education and training modules to ensure that they are as up-to-date as possible. Below is information on the various modules available.

**Foundation Module** – covers 29 surface finishing named processes (of which a student studies 15 units) covering metallic and non-metallic coating at basic level to give students an initial appraisal of technologies geared to the metallic & organic coating and aerospace industries.

### **Technician Modules**

**Principles of Electroplating** – provides a basic understanding of electrodeposition of metals, process control, corrosion, environmental, health and safety issues. No previous qualifications are necessary although a basic knowledge of chemistry is useful or to have previously studied the Foundation module. **Electroplating Practice** – this module provides a comprehensive knowledge on the deposition by electro and electroless plating of the major metals and the pretreatments currently available for industrial application.

**Paints, Lacquers and Varnishes** – information about ‘wet’ solvent and water-based industrial finishing processes together with application methods, curing, drying and testing. Included is information on application methods and health & safety and environmental issues.

**Powder Coating** – provides knowledge about the various types of powders used to produce

coatings together with the various methods of application, testing, health & safety and environmental issues.

**Environment, Health & Safety (EH&S)** - covers legislative information on EH&S issues from the UK and the European Union.

**Automotive Surface Finishing** – a specialised module developed for the training of employees within the automotive manufacturing industry.

The latest modules available in 2012 are: **Electroforming** – this module describes how this technology can be employed to manufacture components and tools. After study of the module students should know about the following aspects:

Surface finishing techniques

Electrode reactions

Selection and use of mandrels

Electroforming electrolytes

Control of the physical & mechanical properties of electroforms

Plant and equipment requirements

Materials Science - this module covers aspects of manufacture, properties and examination of the many materials that may require various forms of coating or treatment in order for them to fulfil their intended lifespan. Whilst this module is for surface finishing operatives and supervisors it can be of benefit to engineering and design personnel as a ‘stand-alone’ module. The module covers the following aspects:

Classification – metals, ceramics,

polymers & composites

Bulk and surface properties

Property – correlation's of

Evaluation of stress & strain of materials

Testing & evaluation of materials

Toughness, hardness, adhesion & wear

Nucleation & growth of crystals

Bond formation

Amorphous and crystalline solids

Lattice structures and orientation

Nucleation, growth and formation

Solidification of metals

Dendrites, grain boundaries and defects

Solid solution formation in binary alloys

Phase & lever rules, metallography

Working and heat treatment

Metal fabrication processes

Metal casting processes

Polymer fabrication processes

Electroforming

Surfaces and surface hardening

Basic corrosion cells

Thermodynamics and kinetic principles

Methods of corrosion protection

Corrosion damage- prevention/reduction

Visual observation

Electron microscopy & X-ray analysis



Further information on all modules can be seen on the IMF website or contacting David Meacham at Exeter House by telephoning - 0121 622 7387  
[www.instituteofmetalfinishing.org](http://www.instituteofmetalfinishing.org)

## New Sustaining Members

### **Tech-Ni-Plant Ltd**

Unit 4, Holt Court North  
Heneage Street West  
Aston Science Park  
Birmingham B7 4AX  
Tel: 0121 359 8545, Fax: 0121 333 4950  
Email: [shirley.hamilton@techniplant.co.uk](mailto:shirley.hamilton@techniplant.co.uk)  
Web: [www.techniplant.co.uk](http://www.techniplant.co.uk)

Supplier of a full range of surface treatment processes including Ion Implantation, Cr-ionising\*, Hard Chromium and Electroless Nickel Plating, Titanium, Eas-i-glide\*, Titanium Aluminium and Chromium Nitride, Diamond - like coating, Nickel Silicon Boride and Copper Plating \* Company proprietary names

### **Kumi Solutions Ltd**

Unit 6, Bermuda Innovation Centre  
St David's Way  
Nuneaton CV10 7SG  
Tel: 02476 350360, Fax: 05601 277115  
Email: [simon@kumi-solutions.com](mailto:simon@kumi-solutions.com)  
Web: [www.kumi-solutions.com](http://www.kumi-solutions.com)

The UK distributor for Pero, a world-leading manufacturer of metal component degreasing machines. Based in Nuneaton with high quality demonstration facilities for trials to support the solution that best suits our customers.

### **24-7 Response**

OHES Environmental Ltd  
1, The Courtyard, Denmark Street,  
Wokingham, Berkshire, RG40 2AZ  
Tel: 0118 9029373, Fax: 0118 9772147  
Email: [richard.shreeve@24-7response.org](mailto:richard.shreeve@24-7response.org)  
Web: [www.24-7response.org](http://www.24-7response.org)

24-7 Response provides specialist advice in case of incidents involving chemicals. Clients can display a dedicated emergency telephone number on safety data sheets, transport documents, in staff procedures etc.

### **ASF Training Ltd**

Frampton, St Athan Road, Cowbridge,  
Glamorgan, CF71 7EQ  
Tel & Fax: 01446 775593  
Email: [asftraining@live.co.uk](mailto:asftraining@live.co.uk)  
Web: [asftraining.co.uk](http://asftraining.co.uk)

ASF Training Ltd offer a wide range of courses within the refinishing industry. Training packages are tailor-made to suit the customer and we are always willing to discuss training requirements.



## Examination Results – January 2012

### South West Metal Finishing - Principles of EP

Coombe, David \* Giles, Peter #  
Gryglowska, Agnieszka # Hall, Clover \*  
Rose, Matthew \*

### South West Metal Finishing–Environmental H & S

Coombes, Tim Cox, Leigh \*  
Duffield, Ian Ennis, Anthony  
Harrer, Jason Lovatt, John \*  
Mayer, Christopher \* Urbsyte, Ruta  
Werblanska, Katarzyna \*

### Poeton Industries – Principles of EP

Addis, Jessica \* Ashmore, Jessie  
Banton, Marcell Langley, Daniel  
Wallace, Daniel

### Distance Learning – Paint, Lacquer & Varnish

Dinsdale, Nicola \* BAE Systems

### Distance Learning – Foundation Certificate

Cottam, Ian GKN Aerospace  
Khatri, Mohammed \* Godrej & Boyce  
Mhatre, Rupesh Godrej & Boyce  
Mishra, Somshankar Godrej & Boyce  
Nalgirkar, Vinayak \* Godrej & Boyce  
Johnson, Matthew \* (Praxair Surface  
Brown, Kevin \* (Technologies  
Cox, Sean \* Selex Galileo  
McDonnell, Richard # Harwin plc  
\* pass with Merit # pass with distinction

## Southern Branch

### Thursday 15 March 2012, Portsmouth Museum Tour, Mini Exhibition & Symposium

2.00 Tour of Royal Armouries Museum  
4.15 Symposium & Exhibition entitled - Surface Technology workshop & Health & Safety  
update at the BAE Systems Broad Oak Social Club.  
Further information contact Clive Arnold - Email: [Clive.arnold@baesystems.com](mailto:Clive.arnold@baesystems.com)

### Senior Meeting Wednesday 18 April 2012 at Exeter House

commencing with Buffet Lunch at 12.30  
Talk by Prof. David Gabe entitled:  
Another use for Lead, Tin & Zinc – Organ Pipes Please contact David at Exeter House of  
your intention to be present [karen@materialsfinishing.org](mailto:karen@materialsfinishing.org)

### Sheffield & North West Branch

Saturday 10 March 2012  
Annual Dinner & Dance  
at the Thorne Park Hotel  
Further details & to reserve places contact: John Torr – Email: [j.torr@tesco.net](mailto:j.torr@tesco.net)



Representing finishing professionals in  
surface engineering and coatings  
since 1925



**National Metals Technology Centre**

2nd European Titanium Conference

27/28 March 2012 entitled:

Latest in Technology, Research and Application for Titanium

At Tortworth Court, Bristol

For further details email: [jenny.barratt-jones@namtec.co.uk](mailto:jenny.barratt-jones@namtec.co.uk)