



information

IMF 2016 AGM



1. Gold Medal: Barry Gay
Barry Gay and Graham Armstrong.



8. Best Student at Technician Level: Wendy Chilton
Wendy Chilton and David Eastham.



2. Silver Award: Nick Sawyer
Nick Sawyer and Graham Armstrong.



7. Best Student at Foundation Level: Harley James Ross
Harley James Ross and David Eastham.



3. Hothersall Memorial Award: Sam Briggs
Sam Briggs and Graham Armstrong.



4. Canning Bi Centenary Medal: C M Whittington
WY Lo and MY Yau.
WY Lo, Clive Whittington and Trevor Pearson.



5. The Westinghouse Prize: V Caramia and B Bozzini
B Bozzini.



6. Pexa Award: V. Hilborne and A. F. Averill
V Hilborne, Jim Rowbatham and A F Averill.



Wishing all our Members a very Merry Christmas and a Prosperous 2017



imf news



IMF Events

February 2017

10th Feb -
Enrolment Date

March 2017

22nd-23rd Mar -
Surface World

Southern Branch Events

May 2017

Tuesday 16th May, 2017
at FAST, Farnborough
Aerospace theme.

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

The 2016 AGM of the IMF was held at the Cobden Hotel in Birmingham on the 29th December and was followed by the Christmas Meal and award ceremony. The attendance was high and we welcomed many international members who had travelled specifically to attend this AGM which was a tribute to the importance and wide geographical involvement and influence we have in our industry.

The two speakers gave exceptional presentations firstly Viscount Stansgate gave an impromptu speech on the inner workings of the Parliamentary Science Committee, followed by a very interesting walk through the life of Sam Briggs our past president of the Irish Branch and a very valued member of the Management Board.

After the speakers we had the award ceremony and presented the following awards to the many well deserving recipients from around the world.



Award Winners 2016

Gold Medal - *Barry Gay and Alan Koch*

Silver Award - *Nick Sawyer*

Hothersall Memorial Award - *Sam Briggs*

Canning Bi Centenary Medal - *C M*

Whittington WY Lo and MY Yau

Connie Sieff - *Tony van der Spuy*

The Westinghouse Prize - *V Caramia
and B Bozzini*

Jim Cape Memorial Medal - *GSE Antipas*

Pexa - *V. Hilborne and A. F. Averill*

Best Student at Foundation Level -
Harley James Ross

Best Student at Technician Level -
Wendy Chilton

The president called for a minutes silence to remember Ron Read who had sadly passed away during this year and to recognise the time and effort he had put into the IMF over so many years, he also gave praise to the time and devotion of Alan Koch who had served us

so diligently as our Treasurer and who is now not in good health, we send our best wishes to him and his family. He also asked us to welcome our new treasurer Nick Johnson to his first AGM. He then spoke about the changes that have taken place during his 3 years of office and how quickly that time had passed, but paid tribute to the incoming President and his confidence that the IMF would continue to develop and grow to meet the ever changing needs of our industry under his term of office.

We then moved onto the inauguration of the new President, Barry Gay; the new Secretary General, Graham Armstrong; the new Vice President, Ken Griffiths and the new Treasurer, Nick Johnson.





Barry spoke again of the need to be aware of and move with the ever changing situations that present themselves to us and the potential that BREXIT may mean to us all, our membership is the golden key that we will focus on in the coming years.

We also welcomed new member WY Lo.



W Y Lo, Clive Whittington, Trevor Pearson and Graham Armstrong.



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SURFACE WORLD
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The Secretary General's Column



You will remember that I contributed my thoughts as President to IMFormation, in what became to be called the "Presidents Column". Our new President, Barry Gay, has asked me, in

my new role as Secretary General, to continue the column, so it seems you, our members, will continue to be bombarded by "my thoughts"!

The last three years as President really flashed by, and, excuse me for repeating myself, it was a total honour to serve the Institute and its members as president. I hope I hand over the Institute to Barry in the same rude health as I inherited from Paul Lansdell.

As Barry said in his address to the AGM, there is much to look forward to, and many challenges ahead for our industry, not least "Brexit", and what affect, if any, this will have on the materials finishing and surface engineering industry. At present it is far too early to visualise what changes, if any, will come as a result of the UK leaving the EU, but please be assured the management team will be monitoring happenings, and will pass on our thoughts to our members. At the AGM, we welcomed our new

Treasurer, Nick Johnson, who takes over the reins from Alan Koch. Alan had decided to retire, as currently he is not enjoying the best of health, and we wish him well.

There is a separate report on the activities at the AGM elsewhere in this issue of IMFormation, but it was a pleasure to chair such a lively meeting, and to meet friends old and new over the "first Christmas Lunch" of the year. I must say well done to Helen, for such good organisation of the meeting, and an excellent choice of venue!

So we continue into 2017 looking forward to the challenges facing us! We will continue our co-operation with other linked associations, to include the cross-sector group, and particularly the Surface Engineering Division of IOM3, where we are actively contributing to a scheme to attract young blood to Materials Finishing and Surface Engineering. This I think we can all agree is a necessity to maintain the continuity of our industry: let's face it, none of us are getting any younger!!

Graham Armstrong
December 2016



Cleaning solvent issues solved for Prima Dental

Millions of its dental burs help dentists improve smiles globally every year. Prima Dental itself had cause to smile after component cleaning specialist Fraser Technologies helped the manufacturer solve some component cleaning solvent issues.

With a 150-year dental manufacturing heritage, Gloucester-based Prima Dental produces around 30 million dental burs - or drill bits - per year. In June 2015, Prima's Production Engineer, Nigel Frampton, contacted Fraser with a view to replacing the Methylene Chloride cleaning solvent used to clean the burs with an agent offering an improved health and safety profile.

Prima has two Crest AVD 500 semi-automated solvent cleaning systems, one used for gross-cleaning and the second for final cleaning before packing and dispatch. The burs are made typically in batches of 1000 and stacked in baskets which are then hung on an auto-loader ready for cleaning.

After initial discussions, Fraser recommended comparing the technical performance of the existing Methylene Chloride agent with Opteon™ Sion™, a new-generation fluorinated solvent combining high 100 KB cleaning power with an improved safety profile.

Fraser held initial trials at its Livingston in-house trial unit, and the cleaning performance results with Sion were superior. The specialists also considered aqueous cleaning but decided against this as it would have meant installing a new cleaning system and would have been less efficient given Prima's high-volume cleaning requirements.

A further issue of concern to Prima was high solvent losses in its existing process. It was agreed to run on-site trials, in which Fraser would be involved in the changeover of chemistry, tank clean-out and system set-up. Ahead of the changeover, Fraser conducted a full system audit, which revealed a number of issues with the equipment. These were corrected by repairs and cleaning process optimisation, significantly reducing solvent usage.

On-site trials were very successful, although the high levels of oil introduced to the process resulted in frequent tank clean-outs and solvent disposal. Unlike Methylene Chloride, Opteon Sion is very stable and readily recoverable, allowing recovery levels of stable product of 90 - 95 per cent of the solvent content from the waste stream.

Trials were therefore run using off-line distillation equipment to recover solvent for re-use. Encouragingly, these demonstrated that 74 per cent (in this case Sion) of the overall waste stream that would normally be disposed of could be recovered for re-use. The remainder was mainly waste oil. Despite its higher cost per litre than

Methylene Chloride, Sion's high recoverability, combined with process optimisation, meant that running costs would be comparable to previous ones.

Furthermore, Prima would avoid costly cleaning equipment replacement, while benefiting from Sion's improved performance and a superior health and safety and environmental profile. On this basis, Prima adopted the Sion process, and performance to date has met original expectations.

Performance levels were so good that Prima wanted to use the process elsewhere. Fraser installed a new-generation Crest F100-1010 cleaning system together with Sion fluid on site to allow Prima to assess the performance and solvent usage. Following the successful trial, Prima purchased the system, as well as an off-line still which had a 6-month payback period.

Nigel Frampton commented, "Fraser Technologies demonstrated that they go beyond supplying equipment and chemistries. Their pre-sale audit of our cleaning process, product trials and innovative thinking helped deliver a component cleaning solution that yields better performance, an improved health and safety profile, and excellent solvent recovery."

Fraser Technologies continues to support and optimise Prima's cleaning systems and processes, keeping them at the cutting edge in more ways than one.



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Press release 14/11/2016 – Pexa wins Halifax Business of the Year 2016

Pexa, the Halifax based supplier of surface coatings to the aerospace industry has won the coveted “Business of the Year” award in the Halifax Courier Business Awards 2016. This award sponsored by Riley & Co. is for the top business, which will meet the criteria of “being able to demonstrate successful year on year growth in its sector, and having a strong commitment to innovation. The business of the year will have effectively promoted itself on the national and international stage. Will also be a supporter of the community and have a corporate & social responsibility policy”.

Pexa is very pleased and proud to be recognised in this way, 2015/16 has been a significant year for us, moving to new premises and opening new sales offices in France and India has projected us on the international stage and it is very encouraging to be awarded this high-profile honour.

A group from Pexa attended the awards dinner and ceremony and enjoyed a great night celebrating winners in all the award categories and hearing the stories of how they are contributing to a vibrant and successful business sector in the Calderdale area.



A-Gas Electronic Materials

A-Gas Electronic Materials has successfully attained the Investors in People award. Investors in People are the UK's leading people management standard and help organisations to improve business performance through their people. A-Gas EM has achieved the national award for demonstrating complete excellence in the way the business develops and supports its staff.

For A-Gas EM, the status represents the commitment and drive from their employees with continuous development, delivering the best practice to their customers and suppliers.

The A-Gas EM team was congratulated for their tenacity in working with the Standard to ensure such a fantastic achievement.

Jonathan Sellars, Managing Director commented "The team of people working with me have shown their loyalty, professionalism and commitment to ensuring our success – this accolade is truly deserved."



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'Kynar® University'



ARKEMA held our second Kynar® university session in Dubai, with the theme that : 'You build it and we will protect it' The Seminar was well attended by the three major paint producers in the Middle East; PPG, Beckers and Spectrum and they were joined by many Architects, building and façade specifiers and all the major Coil Coating companies operating in this region. Just like last year, the presentation was oriented towards the licensing standards of Kynar® 500 and how to achieve the quality aspects that ensure the longevity of the construction, it also included information on touch up and repair work for erection damage or on site fabrication conditions and the Aquatec water based range of Kynar® based paint systems which was introduced for the onsite restoration of buildings previously coated by other materials and which have been subjected to UV degradation.

Kynar® 500 is the major specification for the iconic buildings of this area having a proven durability for the extreme conditions posed by the Middle East.



IMF launch Practical Paint Training Workshops

Over the past few months, the IMF have received a number of requests for practical training workshops to cover surface finishes, most specifically aimed at paint and powder application.

Such training falls outside our normal offering of distance learning courses to Foundation and Technician level, which deal more with detailed knowledge of the science behind surface engineering and finishing. This makes these courses more suited to laboratory staff and technicians rather than operatives.

To meet this new need, our organic finishing group committee, working closely with our education and training committee, have devised courses for the application of both wet finishes and powder coatings.

The courses will be run over consecutive days, subject to a minimum number of applicants. Anyone who wishes can attend both the powder and paint sessions.

The courses are designed so that they can to be held either within training/applications laboratory, located at one of two sites in the West Midlands or, preferably, at clients' own premises, where specific issues with the coating of their own components can be directly addressed.

The attendees will be provide 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.

The sessions cover the following topics:

- The basis of paint and coatings technology
- Why paint and/or powder is used
- Technical characteristics of different types of coatings
- The theory of paint and/or powder application
- Basic details of application equipment and its care
- Personnel protection and Health & Safety
- Detailed application information for any required specific products
- Practical application instruction in a spray shop or applications laboratory
- Simple quality control and evaluation of the applied coatings

**For further details, costings and the next planned course, please contact Helen or David on
Telephone: 0121 622 7387
helen@materialsfinishing.org
david@materialsfinishing.org**

welcome

New Members

Affiliate

Nicholas Johnson

Stefano Galeani

Via Del
Commercio

Paul McMullen

Seagate

Scott Funston

Seagate

Anwasha Fernandez

Seagate

Graduate

Anna Czech

Morgan
Advanced
Material

Fellow

Wai Lo

Hong Kong
Productivity Council

Wendy Chilton

R A Chilton

Associate

Harley-James Ross

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Materials Science

Eugenia Tranca • Twickenham Plating

EHS

Christopher Gray • BMW Oxford

Principles of Electroplating

Robert Crosskill* • SPS Technologies

Philip Reynolds • SPS Technologies

Graham Ford • Eaton Ltd

Robert Arnold • Abbey Metal Finishing

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Hannah Parker • Ashton & Moore

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