A man and a centenary - J P G Farr

The End of Life Vehicle Directive - R R Read

Trivalent passivation of plated zinc and zinc alloys - alternatives to hexavalent based systems - A Gardner and J Scharf

A study of Zn-Co alloy electrodeposits by auger spectroscopy and XPS - D E O S Carpenter, M Ashworth and J P G Farr

The influence of pulse parameters on Zn-Ni alloy coatings plated on AZ91 magnesium alloy - Y F Jiang, X W Guo, C Q Zhai, Y P Zhu and W J Ding

Nucleation and growth of zinc electrodeposited onto electropolished and mechanically polished steel surfaces - K Raeissi, A Saatchi and M A Golozar

Effects of 3-thiothiol-1-propane-sulphonic acid sodium salt and sulphuric acid on the initial stages of copper electrodeposition - L Huang, F Yang, S K Xu and S M Zhou


Deposition of Cu onto polycrystalline Pt electrode from acidic CuSO4 solution in the presence of H2SeO3 - D Simkunaite, A Steponavicius, V Jasulaitiene and E Matulionis

Characteristics of non cyanide acid zinc plating baths and coatings - M Chandran, R L Sarma and R M Krishnan
September 2003 Vol 81 Part 5

86 A farewell to Clive - D Gabe
86 A farewell to Clive - P Farr and S Campbell
90 Letter - P Lansdell
93 The metallisation of ceramic substrates - R Lawson and J Rouhal
95 Research and development techniques 1: Potentiodynamic studies of copper metal deposition - C P de Leon and F C Walsh

Transactions
141 Electrochemical deposition of cupric ions for the determination of mass transfer rates to a stepped rotating cylinder electrode - G Kear, A Purchase and K Bremhorst
148 Chromate conversion coating treatments for electrodeposited zinc-iron alloy coatings from an acidic sulphate bath - Z L Long, Y C Zhou and C Q Yang
154 Methane sulphonic acid in electroplating related metal finishing industries - R Balaji and M Pushpavanam
159 Use of solutions of organic acids to produce low friction anodised surfaces - R H Dahm, R J Latham, B Unal, D R Gabe and M Ward
164 The effects of preparative treatment on the composition of the passive film on duplex stainless steel - E Schmidt-Rieder, M Ashworth and J P G Farr
168 Effects of surfactants on the PTFE particle sizes in electroless plating Ni-P-PTFE coatings - Y Liu and Q Zhao
172 Corrosion studies on pulsed and direct current chromium deposits - S Mohan, R M Krishnan, N G Renganathan, S Raman, B G Kesari and H Latha
Editorial
Letters to the editor
News and views from the President - K Dennis reports on the past year of his presidency, and discusses changes which he hopes will lift the IMF
Practical educational topic #13 - S Breakspear, J Smith and S Campbell discuss lateral force microscopy and friction measurement applications of AFM in surface finishing (part III)
Cyanides in metal finishing: risks and alternatives. Part II - G Smith concludes by discussing effluent treatment, toxicology, risk analysis and environmental impact
Modern treatment methods for strong chelates in surface technology - M Sorensen and J Weckenmann describe the use of UV methods in a paper submitted to the recent Midland branch symposium on IPPC
Current literature - contents of recent issues of sister journals
Branch reports - R R Read describes the Midland branch Forum/Brains Trust on "Troubleshooting coatings problems", and D Colwell summarises the activities of the Southern branch for the past year
Industry news

Transactions
Processing of nickel quasicrystal composite coating produced by pulse reverse current plating - N S Qu, K C Chan and D Zhu
Decontamination of zincate solutions using calcium hydroxide in a fluidised bed reactor - A Pigaga, A Selskis, R Juskenas and V Pakstas
Electrochemical and spectrophotometric control of Pd/Sn catalyst for electroless and electrochemical metallisation - G Koziol and J Bielinski
Pulse anodising - an overview - V Raj, M P Rajaram, G Balasubramanian, S Vincent and D Kanagaraj
Impregnation of hard anodized films on aluminium for improved tribo-properties - M Ward, D R Gabe, R J Latham and R H Dahm
Reactive magnetron sputter deposition of chromium nitride coatings - K Singh, A K Grover and A K Suri
Role of addition agents in zincate bath - a cyclic voltammetry study, - A J Rethinam, G N K Ramesh Bathu and V S Muralidharan
Letter to the editor
Bookshelf - reviews of recent publications
Impact of PPC regulations on process plant chemical engineering - DHemsley reviews the implications
In-process oven temperature monitoring - S Offley of Datapaq describes how it's become quicker, smaller and easier
Symposium report - D Colwell reports on the IMF Southern Branch update on environmental, health and safety legislation
Reel-to-reel plating of connectors - U Landau (OTB Oberflächentechnik, Berlin) discusses new developments
Practical educational topic #12 - J Smith, S Breakspear and S Campbell in part 2 of their review of AFM for surface finishing describe the use of the technique for examining surface roughness
IMF professional qualifications; Technician of the Institute of Metal Finishing - C Barnes, Qualifications Manager of the IMF, describes the new grade and how to achieve it Industry news
Forthcoming conferences/symposia
Current literature - contents of recent issues of sister journals

Transaction
An electrochemical and in situ SERS study of Au electrodeposition from a thiourea solution - A Fanigliulo, C Mele and B Bozzini
Electrodeposition of iron films on copper surfaces from iron (III) gluconate solutions - S S Abd El Rehim, E A Abd El Meguid and E M Moustafa
Effect of sealing agents on the corrosion behaviour of sulphamic acid anodized alumina films - V Raj, D Kanagaraj and S Mohan
Corrosion resistance of copper deposits produced from different electrolytes - P Kokila, R Lekshmana Sarma and S Sreeveeraraghavan
Corrosion behaviour of Zn coatings electrodeposited from alkaline and acid solutions, - A Narkevicius, D Bucinskiene, M Samuleviciene and R Ramanauskas
Investigation and simulation of the voltage - current dependencies during A.C. electrolysis of porous alumina templates - A Jagminas and J Reklaitis
IMF professional qualifications, education and training - an update from President K Dennis and R R Read
Practical educational topic #11 - J Smith, S Breakspear and S Campbell introduce AFM for surface finishing
Symposium report - R R Read gives an account of the Midland Branch meeting on practical solutions to IPPC
Cyanides in metal finishing: risks and alternatives - in part 1 of this paper, G Smith discusses process technologies and costs
Current literature - contents of recent issues of sister journals

Transactions
Characterisation of insoluble anodes for acid copper electrodeposition - A J Cobley and D R Gabe
Electroless Co-W-Zn-P films having high coercivity and high corrosion resistance - S Yae, N Fukumuro, Y Yamada and H Matsuda
Influence of heat transfer on dc-anodizing of aluminium in sulphuric acid - I De Graeve, H Terryn and G E Thompson
Transient electrochemical processes during Cu-Ni deposition - W R A Meuleman and S Roy
The electrodeposition of gold from KAu(CN)2 solutions containing 4-cyanopyridine and cetylpyridinium chloride - B Bozzini, A Fanigliulo and C Mele
Effect of addition agents on the electrodeposition of INVAR alloys - R Karthik
 Characteristics of Hot-dip Zinc Coating Measurement - G Bikulucius, A Rucinskené and E Matulionis
Editorial - future of Exeter House
Letters to the editor - IMF moving?
Symposium report - D Colwell summarises the Southern branch event on basic chemistry for surface finishing
IMF Sustaining Members Directory - an abbreviated version of the biannual listing of the institute's corporate supporters
Practical educational topic #10 - Elcometer's J Fletcher discusses the design and use of the modern coating thickness gauge
Replacing chromates for the passivation of zinc surfaces - G Wilcox summarises the alternatives
Fastener coating developments - P Wynn reviews the present situation and the impact of changes required by automobile manufacturers on the finishing industry
Industry News
Forthcoming Conferences/Symposia

Transactions
Minutes of 2002 AGM
Gold Medal Lecture - Agitation: the most versatile degree of freedom for surface finishers - D R Gabe
Hothersall Memorial Medal Lecture - Surface engineering - a green technology, - C Bishop
Influence of corrosion on microstructure of chromated zinc surfaces. Part 2 - influence of corrosion media on the changes of surface microstructure of chromated zinc coatings - R Sarmaitis, T Bernatavicius, V Dikinis, V Rezaite and I Demcenko
Electrodeposition of NiCrAlY coating on In-738 super alloy and its oxidation and hot corrosion performance - M Saremi and M Bahraini
Proposal of a test procedure for ultrasonic cleaners - B Niemczewski
Metallographic study on alloying of nickel-tin films from stacked single layers through heating - T Kobayashi, H Kanematsu, N Wada and T Oki