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- 46 **Bohan, M.F.J.** “Automation Solutions Network”, Meeting Moderator, St Louis Park, MN, September 2012.
- 47 **Bohan, M.F.J.** “How technology can help leverage new business opportunities”, Congreso Nacional de la Industria de la Comunicacion Grafica, Columbia, September 2012.
- 48 **Bohan, M.F.J.** “Packaging Panel Discussion”, Congreso Nacional de la Industria de la Comunicacion Grafica, Columbia, September 2012.
- 49 Dolpies, J., Wilson, E., and **Bohan, M.F.J.** “The Technology of Inkjet—Categories of Inkjet Presses, Paper, Ink, Workflow, and More”, Offset and Beyond Conference, St Louis, June 2012.
- 50 **Bohan, M.F.J.** “Technology Tactics that Address the Production Line As a Total Process”, Offset and Beyond Conference, St Louis, June 2012.
- 51 **Bohan, M.F.J.** and Workman, J. “Operational Excellence for Digital Printers”, Printing Industries of America Webinar Series, May 2012.
- 52 **Bohan, M.F.J.** “Controlling the Printing Process”, Round table moderator, Continuous Improvement Conference, St Louis, April 2012.
- 53 **Bohan, M.F.J.** “2012 InterTech Technology Awards” Session Moderator”, 64th TAGA Tech. Conf., Jacksonville, 2012.
- 54 **Bohan, M.F.J.** “How to Evaluate Wide Format Inkjet Press”, Graphics of the Americas, Miami, FL, March 3rd 2012.
- 55 **Bohan, M.F.J.** “How to Evaluate Wide Format Inkjet Press”, Graphics of the Americas, Miami, FL, March 2nd 2012.
- 56 **Bohan, M.F.J.** “Hot Technologies for Growth and Profitability”, Vision 3 Summit, Marco Island, FL, February 2012.
- 57 **Bohan, M.F.J.** “Leveraging digital assets for business success”, Session Moderator, Vision 3 Summit, Marco Island, FL, February 2012.
- 58 **Bohan, M.F.J.** and Harvey, J. “JDF-enabled Print Automation: ROI — A Closer Look”, Memphis, TN, February 2012.
- 59 **Bohan, M.F.J.** “Automation Solutions Network”, Meeting Moderator, Memphis, TN, February 2012.
- 60 **Bohan, M.F.J.** “Unusual Color Management Applications”, Color Management Conference, Phoenix, December 2011.

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- 61 **Bohan, M.F.J.** “How to become the color management champion”, Color Management Conference, Phoenix, December 2011.
- 62 **Bohan, M.F.J.** and Hunter, D. “Future Trends & Pre-drupa Discussion”, Color Management Conference, Phoenix, December 2011.
- 63 **Bohan, M.F.J.** “Commercial Print Trends for the Industry”, RICOH Production Printing Executive Showcase, St Louis, November 2011.
- 64 **Bohan, M.F.J.** “Future Trends for the Industry”, GATC and PIM 2011 Print Leadership Summit, November 2011.
- 65 **Bohan, M.F.J.** “Know the Future in Technology”, Pacific Printing Industries 2011 Regional Conference - Future Focus, September 2011.
- 66 **Bohan, M.F.J.** “Syncing Technology of Yesterday, Today and Tomorrow”, Pacific Printing Industries 2011 Regional Conference - Future Focus, September 2011.
- 67 **Bohan, M.F.J.** “Optimizing Color on Wide Format Devices”, GRAPH EXPO Seminar Series, September 2011.
- 68 **Bohan, M.F.J.** and Workman, J. “Operational Excellence for Digital Printers”, GRAPH EXPO Seminar Series, September 2011.
- 69 **Bohan, M.F.J.** “Wide Gamut Printing Applications and Toner in the USPS System” , GRAPH EXPO Konica Minolta Booth (six sessions), September 2011.
- 70 **Bohan, M.F.J.** and Harvey, J. “JDF-enabled Print Automation: ROI and More”, Los Angeles, CA, July 2011.
- 71 **Bohan, M.F.J.** “Automation Solutions Network”, Meeting Moderator, Los Angeles, CA, July 2011.
- 72 **Bohan, M.F.J.** and Hartman, R. "Automating Profiting with Emerging Technologies: Today and Tomorrow", Offset and Beyond Conference, Orlando, May 2011.
- 73 **Bohan, M.F.J.** “Automating Processes to Cut Waste and Lead Time”, Round table moderator, Continuous Improvement Conference, Kansas City, April 2011.
- 74 Zamorski, D. and **Bohan, M.F.J.** “Offset and Digital Integration: The Right Way!”, Vision 3 Summit, Palm Desert, March 2011.
- 75 **Bohan, M.F.J.** “2010 InterTech Technology Awards” Session Moderator, 62nd TAGA Tech. Conf., Pittsburgh, March 2011.

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- 76 **Bohan, M.F.J.** “Optimizing Profits in Digital Printing”, Graphics of the Americas Seminar Series, February 2011.
- 77 **Bohan, M.F.J.** “Driving Costs with Bindery Automation”, Graphics of the Americas Seminar Series, February 2011.
- 78 **Bohan, M.F.J.** “Color Management”, 2011 LPIA Technical Institute, Pittsburgh, February 2011.
- 79 **Bohan, M.F.J.** “Automation Solutions Network”, Meeting Moderator, Wilmington, DE, February 2011.
- 80 **Bohan, M.F.J.** “A preview of Bridge Publications Meeting”, Automation Solutions Network, Wilmington, DE, February 2011.
- 81 Upton, S. and **Bohan, M.F.J.** “Color In Perfect Balance: How to get there and maintain it”, Printing Industries of America Color Management Conference, Phoenix, December 2010.
- 82 **Bohan, M.F.J.** “Justification and ROI of Color Management” Pre Conference Day, Printing Industries of America Color Management Conference, Phoenix, December 2010.
- 83 **Bohan, M.F.J.** “Production Inkjet: Today & Tomorrow”, Printing Industries of America Converge Conference, Memphis, November 2010.
- 84 **Bohan, M.F.J.** “Production Inkjet: How Is It Evolving And Where Are The Business Opportunities?”, Printing Industries of America Webinar Series, October 2010.
- 85 **Bohan, M.F.J.** “Inkjet Technology: Overview”, GASC Teachers Conference, October 2010.
- 86 **Bohan, M.F.J.** “Inkjet Technology: How Is It Evolving And Where Are The Business Opportunities?”, GRAPH EXPO Seminar Series, October 2010.
- 87 **Bohan, M.F.J.**, Sanders, C., Flom, D, Elliot, C. and Ortbach, R. “Offset Press Optimization: How to Troubleshoot, Control and Accelerate”, Offset and Beyond, Baltimore, May 2010.
- 88 **Bohan, M.F.J.** “Good Jobs Gone Bad: How to Avoid Mistakes that May Ruin Productivity and Deplete Profitability”, Offset and Beyond, Baltimore, May 2010.
- 89 **Bohan, M.F.J.** “Controlling the Digital Production Process”, Continuous Improvement Conference, Tampa, April 2010.
- 90 **Bohan, M.F.J.** “Lean and automation”, Round table moderator, Continuous Improvement Conference, Tampa, April 2010.

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- 91 **Bohan, M.F.J.** “Technology innovations for business development”, EFI Connect, Las Vegas, April 2010.
- 92 **Bohan, M.F.J.** “Automation Solutions Network”, Meeting Moderator, Columbus, GA, March 2010.
- 93 Duncan, D., Cousineau, P., and **Bohan, M.F.J.**, “Sustainability”, Advanced tutorial, 62nd TAGA Tech. Conf., San Diego, March 2010.
- 94 Stanton, A. and **Bohan, M.F.J.**, “Production Inkjet: The Next Frontier”, Advanced tutorial, 62nd TAGA Tech. Conf., San Diego, March 2010.
- 95 **Bohan, M.F.J.** “2009 InterTech Technology Awards” Session Moderator, 62nd TAGA Tech. Conf., San Diego, March 2010.
- 96 **Bohan, M.F.J.** “Assessing Emerging Technology”, Presidents Conference, Scottsdale, March 2010.
- 97 **Bohan, M.F.J.** “Save Money with Automation”, Presidents Conference, Scottsdale, March 2010.
- 98 Makin, M., Lyons, L., Davis, R., and **Bohan, M.F.J.** “Printing Industries of America Highlights”, Presidents Conference, Scottsdale, March 2010.
- 99 Shaffer, J. and **Bohan, M.F.J.** “Optimizing color and file handling”, 2010 LPIA Technical Institute, Pittsburgh, February 2010.
- 100 **Bohan, M.F.J.**, and Iskey, B. “Automation and Logic Based Decision Making”, 2010 LPIA Technical Institute, Pittsburgh, February 2010.
- 101 **Bohan, M.F.J.** “General Session: Global Standards: Why Can’t We All Speak the Same Language?”, Session Moderator, Printing Industries of America Color Management Conference, Phoenix, December 2009.
- 102 Shaffer, J. and **Bohan, M.F.J.** “Printing Across Different Printing Processes” Pre Conference Day, Printing Industries of America Color Management Conference, Phoenix, December 2009.
- 103 **Bohan, M.F.J.** and Tuccitto, J. “Color Management Technology Overview and Conference Orientation”, Printing Industries of America Color Management Conference, Phoenix, December 2009.
- 104 **Bohan, M.F.J.** “Inkjet 2.0”, Printing Industries of America Converge Conference, Orlando, November 2009.

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- 105 **Bohan, M.F.J.** “Automation Solutions Network”, Meeting Moderator, Orlando, November 2009.
- 106 **Bohan, M.F.J.** and Iskey, B. “How to select an MIS system: What are the practical steps that need to be taken?”, Automation Solutions Network, Orlando, November 2009.
- 107 **Bohan, M.F.J.** “Web to Print Solutions and the web2awards”, Automation Solutions Network, Orlando, November 2009.
- 108 **Bohan, M.F.J.**, and Iskey, B. “Automating for Survival”, PRINT09 Seminar Series, September 2009.
- 109 Shaffer, J. and **Bohan, M.F.J.** “Optimizing Your Digital Press: Where it Works and Where it’s Broken”, PRINT09 Seminar Series, September 2009.
- 110 **Bohan, M.F.J.**, Gibson, W and Lawton-Forsyth, L. “Technology Forecast: What’s Hot and What’s Not”, PRINT09 Seminar Series, September 2009.
- 111 **Bohan, M.F.J.**, and Radencic, G. “Controlling the Print Process: Steps to Avoid Customer Rejects”, PRINT09 Seminar Series, September 2009.
- 112 **Bohan, M.F.J.**, Harvey, J., Miners, C., Bonsell, M. and Schiro, J. “Printer-to-Printer” PRINT09, September 2009.
- 113 **Bohan, M.F.J.**, Miners, C. and Boudreau, J. “Success Stories with JDF Automation”, Printing Industries of America Webinar, August 2009.
- 114 **Bohan, M.F.J.** “Process Improvements Customer Panel”, Session Moderator, EFI Connect, Las Vegas, August 2009.
- 115 **Bohan, M.F.J.** “Process Improvements Industry Panel”, Session Moderator, EFI Connect, Las Vegas, August 2009.
- 116 **Bohan, M.F.J.** “JDF User Group Meeting”, Meeting Moderator, Little Rock, July 2009.
- 117 **Bohan, M.F.J.** “The Cutting Edge of Technology”, Offset and Beyond, Las Vegas, May 2009.
- 118 Radencic, G., and **Bohan, M.F.J.** “Productivity Improvements Begin with Benchmarking”, Offset and Beyond, Las Vegas, May 2009.
- 119 **Bohan, M.F.J.**, Wood, C. and Illa, C. “Offset & JDF—How Can Workflow Integration Work?”, Offset and Beyond, Las Vegas, May 2009.
- 120 **Bohan, M.F.J.**, Hutcheson, D. and Stout, C. “Where Are the Savings in Consumables?”, Offset and Beyond, Las Vegas, May 2009.

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- 121 **Bohan, M.F.J.** “Building Automated Workflows Round Table”, Session Moderator, Offset and Beyond, Las Vegas, May 2009.
- 122 **Bohan, M.F.J.** “JDF User Group Meeting”, Meeting Moderator, Minnesota, March 2009.
- 123 **Bohan, M.F.J.** “2008 InterTech Technology Awards” Session Moderator, 61st TAGA Tech. Conf., New Orleans, March 2009.
- 124 Iskey, B. and **Bohan, M.F.J.** “JDF Geek! Advanced Session”, Advanced Tutorial, 61st TAGA Tech. Conf., New Orleans, March 2009.
- 125 **Bohan, M.F.J.** “Boost Your Margins-Effective Utilization of Your Equipment-Methods, Tips, and Tricks”, Presidents Conference, March 2009.
- 126 **Bohan, M.F.J.** “What’s Hot in Technology-Where Are the Opportunities?”, Presidents Conference, March 2009.
- 127 Makin, M., Lyons, L., Davis, R., and **Bohan, M.F.J.** “Printing Industries of America Highlights”, Presidents Conference, March 2009.
- 128 **Bohan, M.F.J.** and Radencic, G., “Digital Benchmarking Study”, Printing Industries of America Webinar, December 2008.
- 129 Radencic, G., and **Bohan, M.F.J.** “PIA/GATF Research Study - Digital Benchmarking Study”, Printing Industries of America Color Management Conference, Phoenix, December 2008.
- 130 **Bohan, M.F.J.** “General Session: Overview of Standards and Industry-Accepted Procedures”, Session Moderator, Printing Industries of America Color Management Conference, Phoenix, December 2008.
- 131 Radencic, G., and **Bohan, M.F.J.** “Digital Benchmarking Study”, Printing Industries of America Color Management Pre-Conference Digital Day, Phoenix, December 2008.
- 132 **Bohan, M.F.J.** “2008 InterTech Technology Awards” PIA/GATF Webinar, November 2008.
- 133 **Bohan, M.F.J.** “JDF User Group Meeting”, Meeting Moderator, Tampa, November 2008.
- 134 Radencic, G., Cathie, E., and Ferrari, L., and **Bohan, M.F.J.** “The Impact of Changing Fountain Solution Chemistry and Press Consumables on the Runnability of a Web Offset Press” manroland Power Printers User Group, GraphExpo, October 2008.
- 135 **Bohan, M.F.J.** “The State of the Art of Digital Proofing for Packaging”, FFTA’s 2008 Fall Conference, Indianapolis, October 2008.

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- 136 **Bohan, M.F.J.** “JDF/JMF—What Are the Benefits?” Converge Conference, Phoenix, September 2008.
- 137 **Bohan, M.F.J.** “Managing Hybrid Workflows Effectively” Converge Conference, Phoenix, September 2008.
- 138 **Bohan, M.F.J.** “What’s hot in technology?” 24th Annual Printing Industries of the Midlands Conference, Okoboji, July 2008.
- 139 **Bohan, M.F.J.** “Low VOC Cleaning Solvents”, Offset and Beyond, Chicago, April 2008.
- 140 **Bohan, M.F.J.** “Building Practical Workflows”, Offset and Beyond, Chicago, April 2008.
- 141 **Bohan, M.F.J.** “Ink Optimization: What are the options?”, Offset and Beyond, Chicago, April 2008.
- 142 **Bohan, M.F.J.** “Lenticular Printing”, Offset and Beyond, Chicago, April 2008.
- 143 **Bohan, M.F.J.** “Web Offset Technical Peer Exchange”, Session Moderator, Offset and Beyond, Chicago, April 2008.
- 144 **Bohan, M.F.J.** “Process Automation Round Table”, Session Moderator, Offset and Beyond, Chicago, April 2008.
- 145 Makin, M. and **Bohan, M.F.J.** “Economic and Print Market Trends and Outlooks / What is happening with technology?”, Printing Industries of New England, Wakefield, MA, April 2007.
- 146 Makin, M. and **Bohan, M.F.J.** “Economic and Print Market Trends and Outlooks / What is happening with technology?”, Printing Industries of New England, Mansfield, MA, April 2008.
- 147 Makin, M. and **Bohan, M.F.J.** “Economic and Print Market Trends and Outlooks / What is happening with technology?”, Printing Industries of New England, Southboro, MA, April 2008.
- 148 Makin, M. and **Bohan, M.F.J.** “Economic and Print Market Trends and Outlooks / What is happening with technology?”, Printing Industries of New England, Windsor, CT, April 2008.
- 149 Makin, M. and **Bohan, M.F.J.** “Economic and Print Market Trends and Outlooks / What is happening with technology?”, Printing Industries of New England, Concord, NH, April 2008.

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- 150 *Miners, C.* and **Bohan, M.F.J.** “JDF and Quality—the Undiscovered Partnership”, Session Moderator, Continuous Improvement Conference, San Antonio, March 2008.
- 151 **Bohan, M.F.J.** “Statistical Process Control Round Table”, Continuous Improvement Conference, San Antonio, March 2008.
- 152 **Bohan, M.F.J.** “JDF and Automation Round Table”, Continuous Improvement Conference, San Antonio, March 2008.
- 153 **Bohan, M.F.J.** and Iskey, B. “JDF Specification Development”, JDF User Group Meeting, Pittsburgh, March 2008.
- 154 **Bohan, M.F.J.** “JDF User Group Meeting”, Meeting Moderator, Pittsburgh, March 2008.
- 155 **Bohan, M.F.J.** “2007 InterTech Technology Awards” Session Moderator, 60th TAGA Tech. Conf., San Francisco, 2008.
- 156 Makin, M. and **Bohan, M.F.J.** “What is happening with technology?” Ontario Printing and Imaging Association, Toronto, March 2008.
- 157 **Bohan, M.F.J.** “ICS & Product Certification” JDF Education Event, Ryerson University, Toronto, February 2008.
- 158 **Bohan, M.F.J.** “Introduction to Color Management: Planning Your Sessions”, PIA/GATF Color Management Conference, Phoenix, December 2007.
- 159 **Bohan, M.F.J.** “Confessions of G7 Implementations”, Session Moderator, PIA/GATF Color Management Conference, Phoenix, December 2007.
- 160 **Bohan, M.F.J.** “Pre-Conference Session: G7 Methodology”, Session Moderator, PIA/GATF Color Management Conference, Phoenix, December 2007.
- 161 **Bohan, M.F.J.** “2007 InterTech Technology Awards”, PIA/GATF Fall Administrative Meeting, Chicago, November 2007.
- 162 **Bohan, M.F.J.** “Flexo Growth in the Offset Industry”, FFTA’s 2007 Fall Conference, Nashville, November 2007.
- 163 **Bohan, M.F.J.** “Building workflows that enhance productivity”, PIA/GATF Workflow Conference, Atlanta, October 2007.
- 164 **Bohan, M.F.J.** “2007 InterTech Technology Awards”, PIA/GATF Seminars, GraphExpo, Chicago, September 2007.
- 165 **Bohan, M.F.J.** “What is hot in technology?” Printing Industries of Minnesota, Inc., St Cloud, September 2007.

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- 166 **Bohan, M.F.J.** “What is hot in technology?” Printing Industries of Minnesota, Inc., Minneapolis, September 2007.
- 167 **Bohan, M.F.J.**, and Radencic, G. “Benchmarking Sheetfed Production”, GraphExpo, Chicago, October 2006.
- 168 **Bohan, M.F.J.** “Integrating MIS into one seamless workflow”, PIA/GATF Workflow Conference, Detroit, September 2006.
- 169 **Bohan, M.F.J.** “Survival”, 23rd Annual Printing Industries of the Midlands Conference, Okoboji, July 2007.
- 170 **Bohan, M.F.J.** “Technology for the Future”, 23rd Annual Printing Industries of the Midlands Conference, Okoboji, July 2007.
- 171 **Bohan, M.F.J.** “JDF at PIA/GATF”, EFI Connect, Las Vegas, June 2007.
- 172 **Bohan, M.F.J.** “PDF to JDF to CIM: JDF implementation”, FFTA's 2007 Annual Forum, Montreal, May 2007.
- 173 **Bohan, M.F.J.** “Research results you can take to the bank!” WOA and PIA/GATF Offset and Beyond, Toronto, April 2007.
- 174 Makin, M. and **Bohan, M.F.J.** “Update new technology” Ontario Printing and Imaging Association, Toronto, April 2007.
- 175 **Bohan, M.F.J.** “PDF to JDF: Why it makes a difference”, EMA Spring Meeting, Tucson, April 2007.
- 176 **Bohan, M.F.J.** “PIA/GATF InterTech Technology Awards”, Session Moderator, 59th TAGA Tech. Conf., Pittsburgh, 2007.
- 177 Makin, M. and **Bohan, M.F.J.** “Update new technology” PIA/GATF Presidents Conference, Phoenix, February 2007.
- 178 Prosi, R., **Bohan, M.F.J.**, and Belkofer, D. “JDF Update: From Upstart to 300 Members, 10 Megabytes and Version 1.3”, Digital Smart Factory, Orlando, January 2007.
- 179 **Bohan, M.F.J.** “Introduction to Color Management: Planning Your Sessions”, PIA/GATF Color Management Conference, Phoenix, December 2006.
- 180 Radencic, G., Suffoletto, J., and **Bohan, M.F.J.** “A practical evaluation of GRACoL methodology”, PIA/GATF Color Management Conference, Phoenix, December 2006.

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- 181 Radencic, G., and **Bohan, M.F.J.** “Follow up to the PIA/GATF Color Management Study: Impact of rendering intents”, PIA/GATF Color Management Conference, Phoenix, December 2006.
- 182 **Bohan, M.F.J.** “PIA/GATF InterTech Technology Awards”, PIA/GATF Fall Administrative Meeting, Milwaukee, November 2006.
- 183 **Bohan, M.F.J.** and Radencic, G. “2006 Sheetfed Benchmarking”, GraphExpo, Chicago, October 2006.
- 184 **Bohan, M.F.J.** “JDF – coming of age”, Session Moderator, PIA/GATF Workflow Conference, Detroit, September 2006.
- 185 **Bohan, M.F.J. and Lind, J.** “Assessment, Development and Demonstration of Low VOC Solvents for Cleaning of Lithographic Printing Ink Application Equipment”, SCAQMD meeting, Los Angeles, September 2006.
- 186 **Bohan, M.F.J.** “Computer Integrated Manufacturing, Job Definition Format and Process Control”, CPIA Vancouver, September 2006.
- 187 **Bohan, M.F.J.** “RFID Demystified”, 22nd Annual Printing Industries of the Midlands Conference, Okoboji, July 2006.
- 188 **Bohan, M.F.J.** “Current issues, challenges and opportunities”, 22nd Annual Printing Industries of the Midlands Conference, Okoboji, July 2006.
- 189 **Bohan, M.F.J.** “Introduction to Color Theory and Perception”, PIA/GATF·NAPL Sheetfed conference, Chicago, June 2006.
- 190 **Bohan, M.F.J.** and Ryan, G. “2006 PIA/GATF sheetfed benchmarking study”, PIA/GATF·NAPL Sheetfed conference, Chicago, June 2006.
- 191 **Bohan, M.F.J.,** Radencic, G., Cathie, E. and Ferrari, L. “Problem solving in the press room”, Web Offset Association (WOA), Orlando, May 2006.
- 192 **Bohan, M.F.J.** “JDF 101”, Web Offset Association (WOA), Orlando, May 2006.
- 193 **Bohan, M.F.J.,** and Hartman, R. “Automation in the bindery”, Web Offset Association (WOA), Orlando, May 2006.
- 194 **Bohan, M.F.J.,** and Miners, C. “Automation in the pre-press and MIS”, Web Offset Association (WOA), Orlando, May 2006.
- 195 **Bohan, M.F.J.** “JDF: Witness the Evolution”, Printing Industries Financial Executives (PIFE), Orlando, May 2006.

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- 196 **Bohan, M.F.J.** “RFID update”, LPIA, Sewickley, May 2005.
- 197 **Bohan, M.F.J.** “RFID demystified”, Printing Industries of Northern California, Seattle, March 2005.
- 198 **Bohan, M.F.J.** “RFID demystified”, Printing Industries of Northern California, San Francisco, March 2005.
- 199 **Bohan, M.F.J.** “Fundamental of color management: Planning your conference sessions”, PIA/GATF Color Management Conference, Phoenix, December 2005.
- 200 **Bohan, M.F.J.** “Causes associated with ink piling”, 49th NPIRI Technical Conference, Las Vegas, October 2005.
- 201 **Bohan, M.F.J.** “Wrap-Up: What’s Hot and What’s Not”, Session Moderator, PIA/GATF Digital Workflow Conference, Arlington, Texas, October 2005
- 202 **Bohan, M.F.J.** “Implementing JDF”, PRINT 05, Chicago, September 2005.
- 203 **Bohan, M.F.J.** “ROI of JDF – Pressroom and Finishing”, PIA/GATF·NAPL Sheetfed conference, Chicago, June 2005.
- 204 **Bohan, M.F.J.** and Prosi, R. “JDF Certification”, JDF Interoperability Tutorial, Sewickley, April 2005.
- 205 **Bohan, M.F.J.** “Offset Lint Testing: An Overview of Options and Issues”, PAPTAC 91st Annual Meeting, Montreal, February 2005.
- 206 **Bohan, M.F.J.** “Piling it on with Stochastic” PIA/GATF TechAlert Conf., Pittsburgh, February 2005.
- 207 **Bohan, M.F.J.** “Proof to print: The effect of coating” PIA/GATF TechAlert Conf., Pittsburgh, February 2005.
- 208 **Bohan, M.F.J.** “Automated defect detection” PIA/GATF TechAlert Conf., Pittsburgh, February 2005.
- 209 **Bohan, M.F.J.** and Wagner, R. “Is JDF for real: Beyond the hype” GraphExpo, Chicago, October 2004.

Prior to appointment at Printing Industries of America

- 210 **Bohan, M.F.J.**, Clist, A.M. and Barden, T. “The measurement of dot and line shape for process control”, VECCO users meeting, RAL, May, 2003.

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- 211 **Bohan, M.F.J.** “The measurement of components in printing and coating to aid predictability and control”, VECCO users meeting, Huddersfield, September 2002.
- 212 **Bohan, M.F.J.**, Claypole, T.C. and Gethin, D.T. “ISO standards”, 6th Int. Flexographic Printing Conf., PIRA, Manchester, 2001.
- 213 **Bohan, M.F.J.**, Claypole, T.C. and Gethin, D.T. “Anilox measurement”, 6th Int. Flexographic Printing Conf., PIRA, Manchester, 2001.
- 214 **Bohan, M.F.J.** “The predictive modelling of flow into a substrate”, Inks and Coating Rheology Colloquium, Gregynog, September 2001.
- 215 **Bohan, M.F.J.** “Numerical modelling of printing contacts”, Inks and Coating Rheology Colloquium, Gregynog, September 2001.
- 216 **Bohan, M.F.J.** “The measurement of pressure, ink film thickness and temperature on printing presses”, Inks and Coating Rheology Colloquium, Gregynog, September 2001.
- 217 **Bohan, M.F.J.** and Claypole, T.C. “ISO standards - Right first time”, Advanced Flexo Seminar, GiDue - Italy, June 2001.
- 218 **Bohan, M.F.J.** “Application of white light interferometry in printing and coating”, VECCO users meeting, UCL, March 2001.
- 219 **Bohan, M.F.J.** and Claypole, T.C. “Towards integrated systems”, TAGA/VDD 4th International Printing & Research Congress, DRUPA, May 26th, 2000.
- 220 Claypole, T.C., **Bohan, M.F.J.** and D. Waldron “Working towards industry standards for Flexo”, 4th Int. Flexographic Printing Conf., PIRA, Manchester, 1999.
- 221 **Bohan, M.F.J.**, Gethin, D.T. and Claypole, T.C. “A numerical evaluation of flow properties in multi-roll coating”, Printing and Coating Forum in Wales, U.W. Swansea, Wales, 17th November 1998.
- 222 **Bohan, M.F.J.**, Claypole, T.C. and Gethin, D.T. “Factors affecting the physical performance of rotogravure presses”, ERA Cylinder Preparation and Prepress Systems Commission, Bristol, 20th October 1998.
- 223 **Bohan, M.F.J.**, Claypole, T.C., Gethin, D.T., Anderson, J.T. and Megat Ahmed, M.M.H. “The influence of rheology on print quality”, British Society of Rheology, Cambridge University, 22nd September 1998.
- 224 **Bohan, M.F.J.** “Contract researchers and their means of development”, University of Portsmouth, 5th May 1998.

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- 225 **Bohan, M.F.J.**, Claypole, T.C. and Gethin, D.T. "Evaluation of rotogravure printing in packaging", IOP Congress 98, 19th March 1998.
- 226 **Bohan, M.F.J.**, Claypole, T.C. and Gethin, D.T. "Application of spectrophotometry to through the run analysis", National Physics Laboratory, 19th February 1998.
- 227 **Bohan, M.F.J.**, Lim, C.H., Claypole, T.C. and Gethin, D.T. "Experimental evaluation of ink film thickness and pressure measurement", Printing and Coating Forum in Wales, U.W. Swansea, Wales, 1st July 1997.
- 228 **Bohan, M.F.J.**, Claypole, T.C. and Gethin, D.T. "Numerical methods in offset printing", Faculty of Engineering, U.P.M., Malaysia, 28th March 1997.
- 229 **Bohan, M.F.J.**, Claypole, T.C. and Gethin, D.T. "The application of orthogonal array techniques in web offset printing", Faculty of Engineering, U.P.M., Malaysia, 25th March 1997.
- 230 Claypole, T.C., **Bohan, M.F.J.** and Gethin, D.T. "Rotogravure printing for packaging: An experimental investigation into process parameters", IOP Congress 97, University of Leeds, 24th to 27th March 1997.
- 231 **Bohan, M.F.J.** and Claypole, T.C. "Colour control for heat set web offset printing", Measurement and Inspection in Printing and Packaging, Seminar of the Manufacturing Machines Sensors Group, Brunel University, October 1994.
- 232 **Bohan, M.F.J.** and Claypole, T.C. "The measurement of particle shape in relation to laser doppler based techniques", The Measurement of Particle Shape and the Influence of Shape on Particle Behaviour, SCI, London, September 1994.
- 233 **Bohan, M.F.J.** and Claypole, T.C. "Sensors for colour control in web offset and screen printing", DTI/SERC/ACME Colloquium, DTI, December 1993.
- 234 **Bohan, M.F.J.**, Gethin, D.T. and Lim, C.H. "Sensor development for Web Offset printing", ASTTP/LINK Sensors Colloquium, Warwick University, May 1993.
- 235 **Bohan, M.F.J.** and Claypole, T.C. "Colour in relation to web offset printing", Measurement and Analysis of Colour, DTI/SERC Colloquium, DTI, January 1993.

Dr. Mark Bohan: 17 November 2015

BSc Curriculum Development and Teaching

Part-time BSc in Printing and Coating

The BSc in Printing and Coating Technology is a distance learning course designed for applicants with an industrial background. The format of the modules requires an extensive text to be prepared for each module, this developed into web pages, the normal lecturing material. All of this is given to the student at the start of the module. Each module has three residential periods, examinations and continual assessment. Module preparation has to be carried out according to a rigorous predetermined schedule. I was involved in the overall curriculum development and the execution of the modules for which I was responsible.

The modules I have responsibility for are all double credit modules. I was assigned to develop four of these double modules by September 2003 for parts 1 and 2. This represented one third of the course. These are listed below

1 Part 1 Colour physics and perception (20 credits)

Sole author and delivery. The module includes; • the basics of light and its interaction with objects, • the visual system, • densitometry principles and instruments, • densitometry measurements, • colour control for process control.

2 Part 1 Introduction to printing and coating (20 credits)

Authored with EH Jewell and sole delivery. The module includes; • an overview of the major printing and coating process, • an understanding of the working of the processes, • the components of each of the processes.

3 Part 2 Printing technology (20 credits)

Sole author and delivery. The module includes; • coating operability and defect causes, • technical developments of print process components, • effect of process variables on ink transfer, • causes of print defects

4 Part 2 Colour measurement for control (20 credits)

Sole author and delivery. The module includes; • colour order systems, • colour matching experiments, • development of colour spaces, • colour tolerances, • instrument design, • process variability.

Dr. Mark Bohan: 17 November 2015

MSc Curriculum Development and Teaching

Full-time and Part-time MSc in Printing and Coating Technology Part-time IGDS MSc in Colour Application Technology

The MSc in Printing and Coating Technology / IGDS Colour Application Technology is a distance learning course designed for applicants with an industrial background. The format of the modules requires an extensive text to be prepared for each module, in addition to the normal lecturing requirements. Each module has a four-day residential period, four assignments and an examination. Module preparation has to be carried out according to a rigorous predetermined schedule. I was on both the academic standards panel and industrial steering committee for the Integrated Graduate Development Scheme (IGDS) MSc in Colour Application Technology. I was involved in the overall curriculum development and the execution of the modules for which I was responsible. The full time MSc in Printing and Coating Technology started in November 1997 and uses the IGDS modules. I have been involved closely with the development of the full time MSc since its inception. Since 2000 the Printing and Coating Technology MSc has been available on a part time basis.

I have been involved with the development of five modules and was the lead academic on three.

- 1 **In process colour monitoring (15 credits) – 100%**
Sole author and delivery. The topics covered include; • colour perception • colour spaces and their mathematics • colour measurement • different measurement methods (their advantages and disadvantages) • colour measurement errors • densitometry principles, standards and control • tone gain analysis • test strip analysis.
- 2 **Coating technology, (15 credits) – 100%**
Sole author and delivery. Topics covered include; • development of the different coating processes • their commercial application • include multi roll coating, EHL, slot, slide, curtain, blade, air knife and spray coating • substrate pretreatment and surface activation • coating defects, detection, identifying sources of defects.
- 3 **Printing technology, (15 credits) – 85%**
Authored and delivery with E.H. Jewell. The topics covered include; • fundamentals of printing processes and ink transfer • factors affecting quality • processes covered include offset, rotogravure, flexography, screen, digital and pad.
- 4 **Pre-press production processes**
Authored with A. Johnson and E.H. Jewell.
- 5 **Inks, coatings and substrates**
Authored with T.C. Claypole, D.T. Gethin and E.H. Jewell.

Dr. Mark Bohan: 17 November 2015

Curriculum Development

SENA / Colombia National Program

Printing Industries of America were approached by SENA on behalf of the Colombian government to tender for and then update the national training curriculums for the graphics arts, update the teachers on the curriculum content, provide teaching materials, assess the teaching environments and provide examinations for the teachers and students. Four curriculums have been updated, these are listed below with the structure used shown. I have been responsible for obtaining the contracts, the management of the curriculum updates and 75% of the technical content, with oversight on the remaining 25%. I was solely responsible for the presentation of the curriculums and all of the assessments of the teaching environments. The curriculums and materials were all developed in English and translated to Spanish. The teaching time for each of these curriculums varied from 800 hours to 1200 hours on the technical aspects.

1 Offset Printing (100% responsible)

- i. Identify the needs of the graphic production process according to company polices, technical specifications and international standards
 - Workflow • Raw materials and supplies • Health and safety • Standards, specifications and guidelines • Technology trends • Color • Color Management
- ii. Prepare the offset plates and blankets according to company polices, technical specifications and international standards
 - Preparation of Material • Plates • Blankets
- iii. Prepare and operate ink, dampening and coating systems for offset press according to company polices, technical specifications and international standards
 - Preparation of Material • Dampening Systems • Inking Systems • Coating Systems
- iv. Prepare the offset substrate handling systems according to company polices, technical specifications and international standards
 - Preparation of Material • Sheet Transfer Systems • Web Transfer Systems
- v. Operate the offset printing machine according to company polices, technical specifications and international standards
 - Printing Press Operation • Waste Management and Environmental Issues • Workplace Management • Press Maintenance
- vi. Control the printing process to quality specifications and troubleshoot problems on the press according to company policies, technical specifications and international standards
 - Print Quality • Quality Control Devices and Methods • Print Quality Optimization

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2 Digital Prepress (Reviewed all materials)

- i. Identify the needs of the graphic production process according to company policies, technical specifications and international standards
 - Workflow • Raw materials and supplies • Health and safety • Standards, specifications and guidelines • Technology trends • Color • Color Management
- ii. Describe the needs of graphic communications and prepress according to company policies and technical specifications
 - Graphic Communications • Prepress Hardware and Equipment • Digital File Basics • Prepress Software • Introduction to Job Output
- iii. Layout job according to company policies and technical specifications
 - Design and Typography • Color Specification • Image-editing Software • Illustration Software • Page Layout Software • Adobe Acrobat and PDF
- iv. Preflight and repair job for output according to company policies and technical specifications
 - Digital File Formats • Font Formats and Management • Preflighting • Digital File Problems and Solutions • File Repair Tools • Proofing
- v. Capture digital images, color adjust, and prepare for job output according to company policies and technical specifications
 - Image Capture Hardware • Image Color Correction • Digital Image Concepts • Color Separation and Reproduction
- vi. Prepare job for printing process, paper, press, binding and finishing according to company policies and technical specifications
 - Press Considerations • Finishing Considerations
- vii. Impose, trap, output proofs and output plates according to company policies and technical specifications
 - PDF Creation • Digital Trapping • Digital Imposition • Advanced Job Output • Advanced Proofing • Computer-to-Plate • Plate Manufacturing for Flexographic Plates • Process Control

3 Flexography (100% responsible)

- i. Identify the needs of the graphic production process according to company policies, technical specifications and international standards
 - Workflow • Raw materials and supplies • Health and safety • Standards, specifications and guidelines • Technology trends • Color • Color Management
- ii. Prepare the flexographic plates according to company policies, technical specifications and international standards
 - Preparation of Material • Plate Types • Plate Mounting • Plate Inspection

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- iii. Prepare the flexographic printing press according to company polices, technical specifications and international standards
 - Preparation of Material • Ink • Metering System • Substrates • Web Transport Systems • Sheet Transport Systems • Ancillary Equipment • Press Check
- iv. Operate the flexographic printing machine according to company polices, technical specifications and international standards
 - Press Maintenance • Workplace Management • Printing Press Operation • Waste Management and Environmental Issues • Printing Press Verification
- v. Control the flexographic printing process to quality specifications and troubleshoot problems on the press according to company policies, technical specifications and international standards
 - Print Quality • Quality Control Devices and Methods • Print Quality Optimization

4 Bookbinding and Finishing (100% responsible)

- i. Identify the needs of the graphic production process according to company polices, technical specifications and international standards
 - Workflow • Raw materials and supplies • Health and safety • Standards, specifications and guidelines • Technology trends • Color • Color Management
- ii. Operate cutting equipment in accordance to company policies and technical specifications.
 - Preparation of Material • Guillotine Cutter • Quality Control
- iii. Operate folding equipment in accordance to company policies and technical specifications.
 - Preparation of Material • Folder • Quality Control
- iv. Operate saddle stitching equipment in accordance to company policies and technical specifications.
 - Preparation of Material • Saddle-Stitcher • Quality Control
- v. Operate adhesive binding equipment in accordance to company policies and technical specifications.
 - Preparation of Material • Adhesive Binder • Quality Control
- vi. Operate thread sewing equipment in accordance to company policies and technical specifications.
 - Preparation of Material • Thread Sewing Machine • Quality Control
- vii. Operate case binding equipment in accordance to company policies and technical specifications.
 - Preparation of Material • Case Cover Machine Equipment • Case Binder Machine • Quality Control

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- viii. Operate mechanical binding equipment in accordance to company policies and technical specifications.
 - Preparation of Material • Mechanical Binder • Quality Control
- ix. Operate mechanical special finishing equipment in accordance to company policies and technical specifications.
 - Preparation of Material • In-line Finishing • Mailing Equipment • Mechanical Special Finishes • Quality Control
- x. Operate visual special finishing equipment in accordance to company policies and technical specifications.
 - Preparation of Material • Visual Special Finishing • Quality Control

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Appendix A

Industrial technology transfer seminars

These are one and two-day seminars specifically developed for industry to raise awareness and understanding of the topics covered. Wherever possible practical demonstrations are incorporated to aid the presentations and to solve problems specific to the delegates on the seminar. The seminars have been presented to a wide range of audiences of varying experience. Fourteen seminars have run. They have been developed and are run wholly by myself.

- 1 “An introduction to colour measurement”, WCPC, U.W. Swansea, **6 times** (1996 –2000)

This one-day seminar provides an understanding of colour and its measurement. Basic theory is presented to illustrate the advantages and disadvantages of the various colour definitions. Means of measuring colour are discussed and practical measures carried out on different samples to reinforce the theory. Process control functions within image are explained.

- 2 “Two day colour measurement course”, provided for KEF, **2 times** (2002 - 2003)

Module details as for the UWS course, with the emphasis based on measurement issues

- 3 “An introduction to colour measurement”, provided for EFTA, **4 times** (1999 - 2003)

Module details as for the UWS course, with the emphasis based on flexographic printing

- 4 “An introduction to colour measurement”, provided for WESTEC, **1 time** (2001) and Corus, **1 times** (2001)

Two day course covering similar module details as for the UWS course, with the emphasis based practical applications.

- 5 “An Introduction to Printing Technology: Offset printing”, WCPC, U.W. Swansea, 1998.

This one-day seminar provides an overview of the different printing processes and how they relate to one another. This is followed by a detailed explanation of offset printing, its operation and the faults that may occur with the printed product. The effect of process parameters on print quality and consistency are presented, utilising the latest research findings.

Dr. Mark Bohan: 17 November 2015

Appendix B – Documents Reviewed by Dr. Mark Bohan

Exhibit Number	Description of Document
Paper 1	Petition for Inter Partes Review
Paper 7	Patent Owner Preliminary Response
Paper 9	Decision – Institution of Inter Partes Review
1001	U.S. Patent No. 8,137,757 (“the ‘757 Patent”)
1002	‘757 Patent US Patent and Trademark Office prosecution history
1003	U.S. Patent No. 6,451,409 (“Lassiter”)
1004	U.S. Patent No. 5,101,759 (“Hefele”)
1005	U.S. Patent No. 6,875,710 (“Eaton”)
1006	PCT Int’l Pub. WO 00/71834 (“Allman”)
1007	U.S. Patent No. 5,597,618 (“Bayer”)
1008	U.S. Patent Publication No. 2004/0178544 (“Jackson”)
1009	U.S. Patent No. 4,755,545 (“Lalwani”)
1010	U.S. Patent No. 5,365,709 (“Lassiter II”)
1011	Gravure Process and Technology (1991), Gravure Education Foundation and Gravure Association of America (“Gravure Process”) (select pages)
1012	The GATF Encyclopedia of Graphic Communication (1998),

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	Roman and Roman, Graphic Art Technical Foundation (“GATF Encyclopedia) (select pages)
1013	PCT Int’l Pub. WO 98/06891 A1 (“Halley”)
1014	Declaration of Harvey R. Levenson
1015	Complaint, Fast Felt Corporation v. Owens Corning and Owens Corning Roofing and Asphalt, LLC, Civ. A. No. 3:14- CV-00803-DAK (ND OH)
1016	U.S. Provisional Patent Application No. 60/474,194
1017	U.S. Provisional Patent Application No. 60/485,774
1018	U.S. Patent No. 7,666,498 and its US Patent and Trademark Office prosecution history
1019	U.S. Patent No. 7,201,946 and its US Patent and Trademark Office prosecution history
1020	PCT Int’l Pub. WO 01/62491 (“Dagher”)
2001	Miami-Dade County Notice of Acceptance of Fast Felt
2002	Exterior Research & Design, L.L.C. Laboratory Report
2003	Declaration of Roofing Expert Mr. Ed Todd
2004	Declaration of Printing Expert Dr. Mark Bohan
2005	Deposition Transcript of Petitioner’s Expert Harvey Levenson

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2006	Bohan, M.F.J., Claypole, T.C. and Gethin, D.T. “An investigation into the effect of process parameters on the ink supply characteristics to a roller train in a offset printing press”, J. Prepress & Printing Technology, vol. 3, March 1999
2007	Levenson Pocket Dictionary
2008	Levenson Complete Dictionary
2009	Bohan, M.F.J., Claypole, T.C. and Gethin, D.T. “The effect of process parameters on product quality in rotogravure printing”, Proc. IMechE part B, vol. 214, 2000, pp 205-219, 2000.
2010	A.M. Clist “Ink transfer in image and non-image areas in the rotogravure process”, PhD thesis 2004, page 71 and 158.
2011	Hefele USPTO Prosecution History
2012	Bob Thompson, Printing Materials: Science and Technology
2023	Bayer USPTO Prosecution History
2024	Eaton USPTO Prosecution History
2026	Petition for IPR2014-01397
2027	Petition for IPR2014-01401
2028	Petition for IPR2014-01402
2029	Petition for IPR2014-01403

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2030	Petition for IPR2014-01404
2031	Petition for IPR2015-01159
2032	Petition for IPR2015-01160
2033	Petition for IPR2015-01161