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MEMORANDUM

- **Present Position:** Product Application Manager
- **Present Employer:** Foseco
- **Brief Outline of Career:** Plant Metallurgist at Steel Improvement and Forge Co., 40 years at Foseco in Ferrous Metal Treatment, Feeding Aids, Development, and Filtration. My broad background in ferrous metal treatment, filtration and feeding aids, developed during forty years of foundry contacts, is utilized to assist foundrymen in defect analysis and problem solving. For the past forty years, I have traveled to foundries in the USA, Mexico and Canada to assist them in the application of filters and feeding aids.
- **Education:** Bachelor of Science in Metallurgy from Case Western Reserve University in 1975.
- **External Activities:** Member of the AFS Division Council; Past Chairman of AFS Iron Production and Processing Committee (5P); DIS Research Committee member; Past Director for DIS; Instructor at DIS Production Seminar; Instructor at CMI course on Effective Use of Filtration in the Foundry; Instructor at AFS Cleveland Chapter course on Gating and Riserling; Member of Case Western Reserve University Metals Laboratory advisory board; Past chairman of AFS Iron Gating and Riserling Committee (5-G); Past member of the AFS Thin Wall Iron Group; Past member of the Machinable Iron Consortium; Northeast Ohio Chapter Past Advertising Chairman.
- **Presentations and Panels:** Panel participant at the 1996 AFS Casting Congress on the Practical Approaches to Gating and Riserling of a Ductile Iron Hub Casting; Presentation to the Foundry Society of Mexico in 1998 titled Fifteen Years And Beyond: A Reexamination and A Look to the Future of Filter Applications; Panel participant at the 1999 AFS Casting Congress on You've Got Your Gating Troubles, I've Got Mine: Computer Illustrations Reinforcing Principals of Gating and Riserling; Presentation to the Foundry Society of Mexico in 2000 titled Computer Illustrations Reinforcing Principals of Gating and Riserling; 2001 Ductile Iron Society meeting presentation titled Experiences in Gating and Riserling Vertically Parted Molding; 2002 AFS Casting Congress panel on Utilizing Today's Technology and Tools; 2003 Foundry Society of Mexico Expo presentation titled Elimination of Iron

Casting Defects in Vertically Parted Molds Resulting From Excessive Runner System Turbulence; 2004 AFS Casting Congress panel on Gating and Riser Handbook: Past, Present and Future; 2005 AFS Casting Congress Cast Iron Process Simulation Panel; 2005 AFS Casting Congress “Ask the Expert” panel on defects; 2005-2007 AFS Casting Congress “Ask the Expert” panel on simulation, 2006 Presentation to the Foundry Society of Mexico; 2006 Presentation to the DIS in Monterrey; 2008 Casting Congress paper titled “Computer And Fluid Flow Modeling Of Filtration Mechanisms In Foam Filters”; 2010 AFS Metalcasting Advancement Center panel titled “Gating And Riser Choice Can Sidetrack Your Profitability”; 2011 AFS Metalcasting Advancement Center panel titled “The Problems You Could Have And How To Find Them!”; 2012 AFS Metalcasting Congress 5-P Committee panel titled “Would You Like To Get More Good Castings Shipped?; CastExpo '13 presentation in the “Defect Solution Forum” panel; 2014 Metalcasting Congress presentation for the panel on “Iron Defects Forum”; 2015 Metalcasting Congress presentation participant in the “Defects, the Never-Ending Battle” panel; 2016 Metalcasting Congress presentation for the panel on “Defect Solution Forum”; 2017 Metalcasting Congress presentation for the panel on “Defect Remedy Conclave”.

- **Papers And Articles:** “Principles of Metal Casting” textbook revision editor of iron chapter, An Examination of Runner System Design in Vertically Parted Molding; Ceramic Filters for Ductile Iron Filtration, Part 1 & 2; KALSERT® Sleeves and CELTEX® Filter Application to Disamatic Molding; KALPUR® Direct Pouring Systems, Investing in Your Bottom Line; You Got the Job, Now Make It!; Take Another Look at Your Iron Gating System Design and Filtration for Increased Profit; Lean Manufacturing Cost Reduction Goals Achieved Through Direct Pouring; Direct Pouring Achieves Lean Manufacturing Cost Reduction Goals; Utilizing Direct Pouring to Attain Manufacturing Cost Reduction Goals; Computer And Fluid Flow Modeling Of Filtration Mechanisms In Foam Filters; Enhancing Filtration Knowledge To Improve Foundry Performance; Evaluating Iron Filter Print Designs—30 Years Later.