



## Contact

13133 Beech Street  
Weston, OH

## Key Skills

Alloy Chemistry  
Grain Structure  
Modification  
SPAL™/ EGAL™  
Costing/ Quoting

## Technical Publications

“Dewaxing Investment Casting  
Molds”, 56<sup>th</sup> Tech. ICI Conference

“Immediate Foundry Cost  
Reductions & Quality  
Improvements with SPAL™”, 54<sup>th</sup>  
Tech. ICI Conference

## Awards

The Deming Award from FORD  
Q1 Program

Keating Award in Scientific  
Excellence – American Foundry  
Society 2007

AFS Gold Metal Award for No-  
Bake Sand Casting 2009

## Technical Areas of Expertise

Fourth generation hands-on foundryman with **50+** yrs experience in all aspects of precision investment and sand casting, including the Shaw and ‘no-bake’ processes. Well versed in alloy chemistry, grain structure, alloying compositions. A world leader in metallurgical process control, best practice and defect analysis. Extensive understanding of shell systems and organic/ inorganic additives to optimize slurry and shell performance. Served on ASTM committees for alloy development (A01/ B01). process control systems.

## Background

*May 1991 - Present*

### **Vice President • MCM Precision Castings**

Over see all foundry activity from engineering new castings, quoting, training wax, shell, pouring operations and sales. Custom makes all alloys from raw feed stock to all ASTM/ ASM and other specs.

*April 1982 – February 1991*

### **Foundry Supervisor • Rimer Precision Castings**

Oversaw all foundry systems and processes from wax to metal finishing.

## Leading Industry Expert

Developed the Investment Casting Institute’s Process Control Standards Program. This provides investment casting foundries a mechanism for self-evaluation of their process control, thereby, enhancing their industry effectiveness, profitability and overall performance while providing an ongoing means of facilitating process improvement.

Co-developed the SPAL™ and EGAL™ processes with Air Liquide to optimize metal castings for overall quality and reduced cost.

## Stewardship

Fun fact that Doug grows his hair for the purpose of donating it to make hair pieces/wigs for children surviving cancer through chemotherapy treatments.