



**American Foundry Society**  
**Saginaw Valley Chapter**

[www.saginawvalleyafs.org](http://www.saginawvalleyafs.org)

Date: **Thursday, January 4, 2024**

Location: **Zehnders of Frankenmuth - Town Hall downstairs**

Meal: Family Style Chicken (fried and broiled) & Livers dinner

Tickets: **\$35.00**

**SCHEDULE (slight change):**

6:00 PM - Social Hour

6:45 PM - Dinner

7:45 PM - Business Meeting

8:00 PM - Program

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## High Integrity Low Pressure Casting Process

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**Speaker: David Goettsch**

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Dr. Goettsch will discuss the newly patented casting process being developed at SMCO, where the research group earned the GM Global Manufacturing Engineering innovation award in 2022. An industry wide drive for large cast structural components promises to change how vehicles are manufactured. The permanent mold, pump filling process pushes the envelope into this traditional high pressure die casting process (HPDC) dominated structural vehicle components. The high integrity low pressure process (HILP) challenges the current trend to forming these thin-walled, complex shaped components in the most cost-effective way.

Dr. Goettsch joined GM Central Foundry Division in 1991 after completing his Doctorate at the University of Illinois. Over 32 years at GM, he has supported new casting process developments, new component launches and quality improvements at GM's captive foundries and research lab. He has authored 10 patents from metal casting science and its application to product development and manufacturing. His current title is Technical Expert at GM. David has served as a two term Chairman in the Detroit-Windsor Chapter of the American Foundry Society.

