



Date: **Thursday, March 3, 2022**  
 Location: **Zehnders of Frankenmuth - Town Hall downstairs**  
 Meal: **Family Style Chicken (fried and broiled) & Livers dinner**  
 Tickets: **\$30.00**

**SCHEDULE:**

6:00 PM - Social Hour  
 7:00 PM - Dinner  
 8:00 PM - Business Meeting  
 8:15 PM - Program

**EDUCATION NIGHT**

**Student Experiences in Impractical Molds Using Rapid Casting Processes**

SPEAKERS: WMU STUDENTS SEAN DERRICK & JUAN FOO

**“HOLD MY BEER”**

**Impractical Molds Using Rapid Casting Processes**

Western Michigan Students with Dr. Sam Ramrattan will present their experiences in Impractical Molds Using Rapid Casting Processes.

The Challenge was to redesign and cast a commercial Dock Clamp “Kit” using TWO different Rapid Casting (RC) techniques to demonstrate how RC can generate good castings from molding constraints that would prohibit typical sand techniques.

What’s So Special? Three clamp components used to create a waterside Boat Dock. The parts being presented could be created using any number of conventional sand-casting processes. Simple Right...? However, the molds which created these components have been deliberately designed in such a way as to be completely impractical or impossible using conventional sand-casting techniques. In fact, the mold designs break most, if not all the rules of good mold design. The Reason is customers often request design criteria that force bad or impossible molding conditions. New digital processes, called Rapid Casting (RC), aren’t limited to past design constraints.

Conclusion was using new digital techniques, it is possible to fulfill even the craziest customer demands, while delivering good castings. They say the test of a good chef is to have them cook an egg. We have cooked three eggs in the most backward and inverted way possible... and successfully done it using two different methods.

All student involved were: Sean Derrick, Juan Foo, Levi Koebbe, Rehan Manimalath



**FOR INFORMATION CONTACT: Sue Manyen 989-906-5061 or smanyen@comcast.net**

**The AFS 2021-2022 Program** will be posted to the website. Mark your calendars.

Watch for: **Foundry in a Box** event announcements – Clarkston on April 30, NCCE on May 20

**Buffalo Wild Wings Fundraiser** (in Saginaw). Date TBD

**Golf Outing** at Swan Valley Golf Course - Saturday, June 4, 2022 -

**The AFS 2022-2023 Program** still start with a dinner meeting on **October 6, 2022**. Mark your calendar!

# **THANK YOU TO OUR SPONSORS !**

Dinner Event Sponsors for 2019-2022 Program Year:

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Wolverine Bronze

See the AFS Saginaw Valley Chapter web site for Chapter information, Foundry in a Box calendar, photos from prior events and links to our sponsors at [www.saginawvalleyafs.org](http://www.saginawvalleyafs.org).