

## **STEAKFEST 2023 SEMINARS**

**Tuesday, Sept. 19**

**9:30am – 10:30am: Automation – What are my options? – pros and cons of each.**

- Collaborative Robots
- OEM Integrated
- Palletizing
- Software Solutions
- Metrology Integration
- Material Handling

**11:00am–12:00pm: Mastering 5-Axis with OPEN MIND/hyperMILL – How can I get into 5-axis machining? What does it take to program 3+2 or 5-axis? Can I really cut out multiple steps with 5-axis? How much should I invest when researching a 5-axis machine? **Chris Robson of Concept will answer these questions and more!****

**1:00pm – 1:30pm: Concept Machine Tool Service Capabilities – How can we support your organization?**

- Preventive Maintenance Programs
  - Why should you be implementing a PM program?
  - How can Concept support you with your Preventive Maintenance needs?
- Complete machine calibrations and the benefits of routine calibrations
- Cost of downtime, chip/coolant management
- “Behind the way cover” – what things don’t you see that need to be addressed?
- Planned vs unplanned and the ROI of PM

**2:00pm–3:00pm: Automated Measurement Solutions & Machine Tool Compensation – Hassle free measurement solutions for automated part handling and inspection with machine tool feedback.**

- **ZEISS Automation - by Alex Kovack of ZEISS**
  - Why look towards automation?
  - Where can automation be implemented?
  - I am looking into automation within the next few years, what is needed to get started?
  - What other add-ons can I benefit from?
- **AutoComp software – Automated Tool Wear Compensation Software**
  - How to use inspection data to automatically offset your machine
  - Interface with almost any electronic gauging device

**3:15pm – 4:00pm: Benefits of Machine Calibration** - This presentation will focus on monitoring positional accuracy and calibration of machine tools but will also touch other areas of process control throughout the whole manufacturing cycle.

Process variation is the enemy of competitiveness and profitability. It causes waste and inefficiency, leads to high quality costs and manning levels, and results in late deliveries and poor traceability.

The secret to consistent, automated, and productive machining is to understand where variation comes from and how to deal with it at the source.

Machine tool calibration and machine health monitoring are preventative controls that reduce sources of variation before machining starts and ensure a solid platform to build a repeatable and accurate process.

### Wednesday, September 20

**9:30am – 10:30am: Unlimited Materials in Additive Mfg.** - The first half of this presentation will cover **Polymers by ROBOZE**, and the second half will focus on **Farsoon Additive Metal Printing**.

**11:00am – 12:00pm: Everything Swiss – why every shop should have a Swiss style lathe.**

- What is Swiss style?
- Benefits of Swiss over conventional turning
- Optimal parts and applications

**1:00pm – 1:30pm: CEO Corner: How Concept is investing to serve you better. Why partner with Concept?** – by Andrew Hecker, CEO

**2:00pm – 3:00pm: Automation – What are my options? – pros and cons of each.**

- Collaborative Robots
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**3:30pm – 4:00pm: Concept Metrology Programming Capabilities** – How can we support your organization?

- Programming Case Study – Learn how Concept helped a customer with its programming needs
- ZEISS Calypso and Micro-Vu InSpec

## Thursday, September 21

- 9:30am – 10:30am: Industry 4.0, Quality 4.0 and Measurement Systems** - Predictive analytics, unstructured data, machine learning, neural networks are several Quality 4.0 data science applications. A second key element of Quality 4.0 is the human element. Challenges exist in assuring consistent and reliable data is being gathered for analysis. This human element involves addressing soft skills, cultural consciousness and leadership are offered alongside practical presentations outlining leading-edge applications and technologies, helping to bridge the gap between emotional and scientific intelligence and advance the quality community's global standing as a comprehensive resource for progress, innovation, and excellence. This critical aspect of Quality 4.0 requires measurement science to determine how the data acquired from the human factors can be calibrated and controlled. The rigid measurement instrument practices utilized in the manufacturing environment need to be developed for the critical data gathering of human activities.
- Can human activities be calibrated? Can a measurement system be developed to provide consistent and accurate information related to human data analysis?
- This thought-provoking presentation will provide several measurement system development basic activities for assessing the validity and consistency of data gathered by the data science professionals.
- 11:00am – 12:00pm: Mastering 5-Axis with MASTERCAM** - How can I get into 5-axis machining? What does it take to program 3+2 or 5-axis? Can I really cut out multiple steps with 5-axis? How much should I invest when researching a 5-axis machine? **Chris Robson of Concept will answer these questions and more!**
- 1:00pm – 2:00pm: Solving Common Cylindrical Grinding Errors** - Join Bob Beals, Application Engineer from UNITED GRINDING North America, as he reveals some of the most common OD/ID grinding errors he encounters in the field, and how to fix them in this one-hour intensive session.
- 2:30pm – 3:00pm: Overview of Additive Manufacturing applications** - Whether you are at the beginning of deploying Additive Manufacturing (AM) in your prototyping process or are looking to scale production using 3D printing, Concept takes the time to evaluate your unique needs and match them with the right solution.