

Spring 2018 Seminar Schedule



Joseph L. Arvin
President and CEO
Arvin Global Solutions

AGS is dedicated to promoting *Intergenerational Knowledge Transfer* in the Manufacturing Industry.

To meet this need, we launched the **AGS Manufacturing Training Series**. The primary purpose of this seminar series is to provide a forum for the exchange of manufacturing knowledge from the older generation of industry experts to those who are in the earlier stages of their career path.

We are pleased to announce our course offerings for Spring 2018 Series. Please contact AGS or visit our website for more information.

Introduction to Gear Process Engineering

May 1-2-3, 2018 (3 Days)

Cost: \$1,925

A Jump Start on Gear Process Engineering



The intensive 3-day course is designed to provide attendees with a comprehensive overview of the fundamentals involved in successful processing of gears for manufacturing.

In this course, the attendees will learn,

- Evaluating the blueprint for processing
- Determining equipment and sequences required for producing the part
- Strategies for efficient, cost saving processing
- Review of major production operations for processing insights
- Principles of locating surfaces and stock allowance
- The impact of heat treatment
- Quality - Surface Temper Etch and Magnaflux

Upon completing the course, attendees will have processed sample gears, and will fully understand the core principles - preparing them for further on-the-job refinement of their skills. Attendees will also receive an in-depth training manual for future reference on key topics.

Who Should Attend

- Newly degreed manufacturing engineers
- New hires with little process engineering experience
- Experienced shop personnel transferring into Engineering
- Prerequisites include blueprint reading, shop math, a good knowledge of gear manufacturing and/or general metal working experience

Training Benefits

Finding qualified gear process engineers is a common challenge in the gear manufacturing industry and companies are often faced with the need to train internal resources on their own. However, this can be a very long process and can put a strain on existing engineering staff. By utilizing the AGS training experience, trainees can acquire a comprehensive overview of gear processing from leading industry experts; resulting in a skilled process engineer much faster and for far less cost.

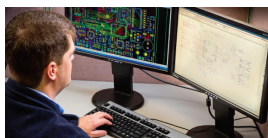
Advanced Methods and Best Practices for Gear Process Engineering

May 22-23-24, 2018 (3 Days)

Cost: \$1,925

Hands-On Training for Gear Process Engineering Success

The intensive 3-day course is a follow-up to An Introduction to Gear



Process Engineering conducted by Arvin Global Solutions (AGS). It is designed to provide attendees with a solid understanding of the methods and best practices for the successful processing of gears for manufacturing.

In this course, the attendees will learn,

- Minimizing and compensating for heat treat distortion with machining methods
- Critical quality procedures to include in the process
- Expert tips and tricks to review and refine a process for achieving optimal productivity and cost savings

Upon completing the course, attendees will have studied existing processes and learned best practice methods for developing a process. Attendees will also develop their own processes on complex parts that will be reviewed by a panel of experts for opportunities for improvement.

Who Should Attend

- New manufacturing process engineers
- Experienced process engineers looking to refine and expand their knowledge
- People involved in quoting (all relevant processing cost drivers are necessary in the quoting process)
- Prerequisites include a strong knowledge of gear manufacturing and completion of An Introduction to Gear Process Engineering or equivalent on-the-job experience

Training Benefits

Finding qualified gear process engineers is a common challenge in the gear manufacturing industry and companies are often faced with the need to train internal resources on their own. However, this can be a very long process and can put a strain on existing engineering staff. By utilizing the AGS training experience, trainees can acquire a strong knowledge base of gear processing from leading industry experts; resulting in a skilled process engineer much faster and for far less cost.

For Online Registration, please visit
www.ArvinGlobalSolutions.com

Spring 2018 Seminar Schedule

An In-Depth Study of the Causes and Prevention of Grinding Damage

June 12, 2018 (1 Day)

Cost: \$645



Grinding damage on metal parts during the manufacturing process is responsible for millions of dollars in scrap and rework every year. To prevent this waste during the grinding of teeth, ODs, and IDs, a deep understanding of the causes is essential.

This course will provide an in-depth study of grinding damage and will present a full range of methods for minimizing the occurrence of these quality problems. Topics to be covered include:

- Understanding Surface Tempering, Rehardening, and Grinding Cracks
- The inspections used to detect grinding damage
- Understanding the impact of Feed Rate, Surface Speed of the Wheel, Balance of the Wheel, Runout in the Part, Dressing related problems, Coolant, and Magnetism.
- Understanding the latest developments in Grinding related technologies.

Who Should Attend

Anyone in the manufacturing process who needs a broad knowledge base on Grinding Damage, including operators, engineers, supervisors, and managers.

Training Benefits

With a better understanding of the topic of grinding damage, the attendee will be better equipped to avoid these quality problems and prevent costly scrap and rework.

Hotel Accommodations



Hampton Inn Chicago/Naperville

Across the street from the Conference Center

1087 East Diehl Rd., Naperville, Illinois

630-505-1400

For Reduced Rates, call direct for reservations and mention the AGS Training Seminar or visit www.ArvinGlobalSolutions.com and fill out the Online Hotel Reservation Form.

**For Online Registration, please visit
www.ArvinGlobalSolutions.com**

Spring 2018 Seminar Schedule

General Information about the Seminar Series

Thank you for your interest in the AGS training seminar. The following information is provided as reference to issues pertaining to the event.

Seminar Times

Seminars will begin each day at 7:30 AM and conclude at approximately 5:00 PM. There is a one-hour break for lunch and 15 minute breaks during the morning and afternoon sessions.

Location

The seminars are held at the Northern Illinois University - Naperville Conference Center at 1120 E Diehl Rd #150, Naperville, IL 60563. Their phone number is (630) 577-9101. There is plenty of parking in the rear of the building. Upon arrival, please see the reception desk for directions to the meeting room.

Fees

Fees for a single attendee are as follows:

- One-Day Seminar \$ 645 to 675
- Two-Day Seminar \$1,275
- Three-Day Seminars \$1,925

If you are registering more than one person using the online system, each additional registrant will receive a 10% discount. The link to the online registration system can be found on the AGS website at www.ArvinGlobalSolutions.com.

Meals

Breakfast and Lunch will be served at the seminar each day. If you have any dietary restrictions, please call Scott Newton at (630) 234-4988 prior to the event so arrangements can be made. For dinner, there are a variety of restaurants in the area and are within a short cab/Uber ride.

Hotel

For attendees who are traveling, we have reserved a block of rooms for each seminar at the Hampton Inn Chicago-Naperville, which is located at 1087 E Diehl Rd, Naperville, IL 60563, and is across the street from the NIU-Naperville Conference Center. To make your reservation, please call direct to (630) 505-1400 and be sure to mention the AGS Seminar for the discounted rate. You can also use the online hotel reservation form on our website at www.ArvinGlobalSolutions.com. In the event of inclement weather or for those needing assistance, the Hampton Inn offers a free shuttle to and from the Training Facility.

Air Travel

Both Chicago O'Hare Airport and Midway Airport are suitable arrival and departure points for the Naperville location.

Assistance

If at any time during the seminar you have any questions or need assistance, please contact Joe Arvin at (815) 600-2633 or Scott Newton at (630) 234-4988.

Policies

Electronic Recording: Recording of still images or motion video of presenters and presentation materials during the seminar is not permitted.

Copyright: All materials presented and distributed to attendees of the Seminar are subject to copyright. Copy and/or transfer to a third party is only allowed upon written authorization by Arvin Global Solutions.

Image Usage: Registrant agrees to allow Arvin Global Solutions to use for our promotional or marketing purposes, without restriction, photographic or videographic material of the Seminar wherein their person, image or voice may appear. We will make good faith efforts to honor requests to be excluded from such materials which are received in writing.

Cancellation:

If Arvin Global Solutions needs to cancel the Seminar due to any unforeseen circumstance beyond our control, our complete obligation to the registrant may be discharged in its entirety by our refund of your registration fees, without prejudice, and disclaiming any secondary consequences or costs that you may incur. Specifically, we can not refund travel or other costs associated with your planned visit for the Seminar. If the Seminar needs to be cancelled, Arvin Global Solutions will contact you as soon as possible using the information you supplied during the registration process.

If you need to cancel your registration, you can do so up through the day prior to the seminar. However, fees may apply for non-refundable charges associated with the training facility. Please refer to the table below for details. The balance will be refunded to the credit card used when you registered. NOTE: After the day before the seminar, registration fees can not be refunded. To cancel your registration, please contact AGS as soon as possible by calling Scott Newton at (630) 234-4988.

Seminar	Seminar Dates	Cancellation Deadline (No Fee Applies)	Cancellation Fee After Deadline
Introduction to Gear Process Engineering	May 1-2-3, 2018	April 24, 2018	\$200
Advanced Methods and Best Practices for Gear Process Engineering	May 22-23-24, 2018	May 15, 2018	\$200
An In-Depth Study of the Causes and Prevention of Grinding Damage	June 12, 2018	June 5, 2018	\$65

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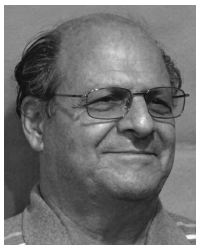
Your future is already on your shop floor. Will you invest in them?



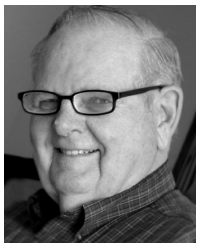
Geoff Ashcroft
Gear Consulting Group
Manufacturing



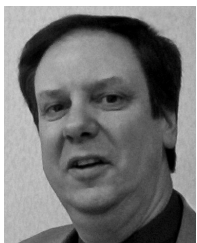
Arvid Casler
Northstar Aerospace
Heat Treatment



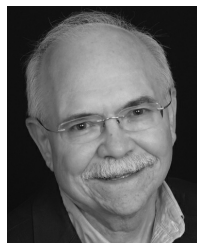
Ray Drago
Drive Systems Technology, Inc.
Gear System Consulting
& Forensic Analyses



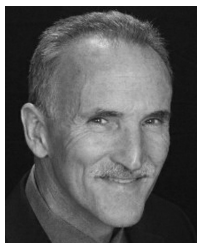
Len Haas
Rolls Royce (Ret.)
Gearbox Design



Mark McVea
KBE+, Inc.
Gear Design



Rick Miller
Innovative Drive
Solutions
Gearbox Design



Matt Mondek
Mondek Solutions
Manufacturing



Bruce Roberge
The Quote Machine
Manufacturing



Chuck Schultz
Beyta Gear Service
Gearbox Design

In manufacturing, a workforce armed with deep technical knowledge is critical to success. But as the older generation leaves the workforce, their departure creates a knowledge gap. Helping you transform your most ambitious young talent into your future experts is what the **AGS Manufacturing Training Series** is all about.

Your best and brightest deserve nothing less than the finest in guidance and training. It is why we have assembled a coalition of the industry's top experts who want to share their knowledge with the next generation. Spanning a comprehensive range of technical disciplines, our experts will prepare your talent to be the experts of tomorrow. Sign up today to take advantage of these unique learning opportunities and gain access to decades of real-world experience. Your company's future stars deserve the best, and the **AGS Manufacturing Training Series** can deliver.

The AGS Manufacturing Training Series **NEW SEMINAR SCHEDULE**

Spring 2018

May 1-3: Introduction to Gear Process Engineering

May 22-24: Advanced Methods and Best Practices for Gear Process Engineering

June 12: An In-Depth Study of the Causes and Prevention of Grinding Damage

**To learn more, please visit our Website at
www.ArvinGlobalSolutions.com**



The AGS Manufacturing Training Series Seminars are held at the Northern Illinois University Conference Center in Naperville, Illinois.



Joe Arvin, President
Arvin Global Solutions



Kevin Walsh
Overton Chicago Gear (Ret.)
Manufacturing



Al Swiglo
Swiglo Metallurgical Consulting
Metallurgy



Mike Steele
Northstar Aerospace
NDT Specialist

**The AGS
Manufacturing Training
Series**



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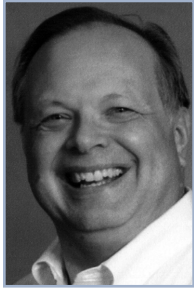
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Spring 2018 Seminar Schedule

The Presenters

Introduction to Gear Process Engineering

- May 1-2-3, 2018 (3 Days)



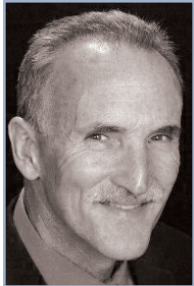
Arvid Casler

NorthStar Aerospace - Metallurgist

Overview:

Frost & Sullivan and Presidential Service Award recipient - 2016

Affiliations - Currently serves on ASTM E28 committee, as a founding member of the Rockford-Stateline Chapter of ASNT, and several committees of ASM International while a current member of NACE, AIME/TMS, STLE and SAE.



Matt Mondek

Mondek Solutions - President

Previously:

Reliance Gear Corporation - President/CEO

American Gear Manufacturers Association (AGMA) - Chairman of the Board

Cotta Transmission, LLC - President

Outboard Marine Corporation - Director, Management and Engineering Positions



Bruce Roberge

The Quote Machine LLC - President

Previously:

Rave Gears - President

Northstar Aerospace - Business Development Manager and Forward Planner

Arrow Gear Company - Manufacturing Engineering Manager, European Project Manager, Process Engineer



Chuck Schultz

Beyta Gear Service - Principal, Gear Consultant

Previously:

Senior Executive and Engineering positions at:

Brad Foote Gear Works

Milwaukee Gear Company

Quaker City Gear Works

Ex-Cell-O Corporation

Chicago Gear/D.O. James



Mike Steele

NorthStar Aerospace - Responsible Level 3 (instructor)

Moraine Valley Community College - Instructor Consultant - NDT and Nadcap Certification

Previously:

Arrow Gear - Level 3 NDT Inspector

Advanced Methods and Best Practices for Gear Process Engineering

- May 22-24, 2018 (3 Days)



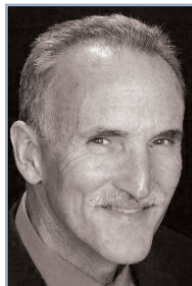
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An In-Depth Study of the Causes and Prevention of Grinding Damage

- June 12, 2018 (1 Day)



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