

## Winter/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 Winter/Spring 2018 Series. Please contact AGS or visit our website for more information.

### Introduction to Gear Process Engineering

February 20-21-22, 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
- And much more!

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.

### Lean Six Sigma Strategies for the Job Shop Environment

March 6, 2018 (1 Day)

Cost: \$675

Lean Six Sigma has become a widely used methodology in manufacturing for reducing waste without sacrificing productivity.



But for job shops, with their unique characteristics and needs, special considerations and strategies must be taken into account for optimal implementation of Lean Six Sigma in these environments.

When considering the implementation of Lean Six Sigma in a job shop environment, the use of several key strategies is critical. Failing to utilize these strategies can result in less than ideal outcomes.

This one day seminar will examine the strategies for implementation of Lean Six Sigma in the job shop - featuring case studies and methods for success.

#### Who Should Attend

- Company Owners and Executives
- Managers and Supervisors
- Members of your Ongoing Improvement Team

#### Training Benefit

By learning about strategies for effective implementation specific to the job shop, attendees will be provided with methods to improve the Lean Six Sigma efforts in their facility, meaning less waste and improved productivity and profitability.

**Continued...**

### Seminar Location



The AGS Seminars are held at the Northern Illinois University - Naperville Conference Center at 1120 E Diehl Rd #150 Naperville, Illinois.

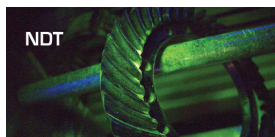
**For Online Registration, please visit**  
**[www.ArvinGlobalSolutions.com](http://www.ArvinGlobalSolutions.com)**

## Winter/Spring 2018 Seminar Schedule

### A Study of Non-Destructive Testing, Surface Temper Inspection, and Barkhausen for Manufacturing

March 22, 2018 (1 Day)

Cost: \$645



Key inspections in the manufacturing process are essential for ensuring quality, meeting customer requirements, as well as regulatory compliance such as Nadcap. Having a solid understanding of these processes

is essential for a number of roles in manufacturing – from inspectors and engineers to supervisors and operators.

This course will provide an introductory overview of the common inspection procedures including,

- Magnetic Particle Inspection
- Dye Penetrant Inspection
- Radiographic Inspection
- Ultrasonic Inspection
- Surface Temper Etch

The causes of the quality problems these inspections are used to identify will also be addressed. This course will also provide an opportunity to learn about the Barkhausen Noise Analysis Method for detecting surface defects in parts.

#### Who Should Attend

Anyone in the manufacturing process who needs a broad knowledge of inspection processes.

#### Training Benefits

With a better understanding of these processes, the attendee will be better equipped to understand the critical role of these inspection procedures and their impact on providing quality products.

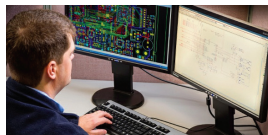
### Advanced Methods and Best Practices for Gear Process Engineering

April 17-18-19, 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
- And much more!

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.

## 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](http://www.ArvinGlobalSolutions.com) and fill out the Online Hotel Reservation Form.

For Online Registration, please visit  
[www.ArvinGlobalSolutions.com](http://www.ArvinGlobalSolutions.com)

## Winter/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](http://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](http://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	February 20-22, 2018	February 9, 2018	\$200
Lean Six Sigma Strategies for the Job Shop Environment	March 6, 2018	February 23, 2018	\$65
A Study of Non-Destructive Testing, Surface Temper Inspection, and Barkhausen for Manufacturing	March 22, 2018	March 12, 2018	\$65
Advanced Methods and Best Practices for Gear Process Engineering	April 17-19, 2018	April 6, 2018	\$200

For Online Registration, please visit  
**[www.ArvinGlobalSolutions.com](http://www.ArvinGlobalSolutions.com)**

[Contact@ArvinGlobalSolutions.com](mailto:Contact@ArvinGlobalSolutions.com)

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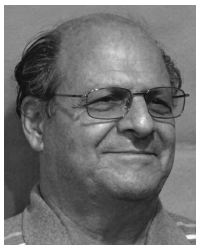
# Your future is already on your shop floor. Will you invest in them?



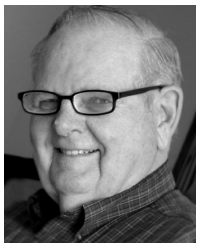
**Geoff Ashcroft**  
Gear Consulting Group  
Manufacturing



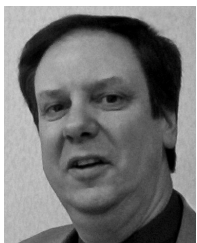
**Arvid Casler**  
Northstar Aerospace  
Heat Treatment



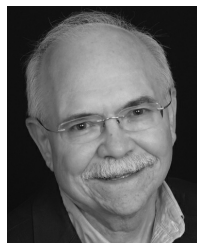
**Ray Drago**  
Drive Systems Technology, Inc.  
Gear System Consulting  
& Forensic Analyses



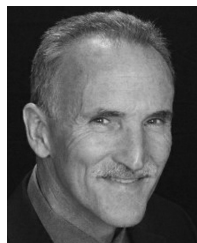
**Len Haas**  
Rolls Royce (Ret.)  
Gearbox Design



**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 Seminar Schedule - Winter/Spring 2018

February 20-22: Introduction to Gear Process Engineering

March 6: Lean Six Sigma Strategies for the Job Shop Environment

March 22: A Study of Non-Destructive Testing, Surface Temper Inspection, and Barkhausen for Manufacturing

April 17-19: Advanced Methods and Best Practices for Gear Process Engineering

**To learn more, please visit our Website at  
[www.ArvinGlobalSolutions.com](http://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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