## November 13–15–Methods, Practices, Application and Interpretation for the Design

Engineer. Hard Rock Hotel and Casino, Las Vegas. Raymond Drago, chief engineer-gear technologist, Drive Systems Technology, Inc., will instruct attendees on the methods used to manufacture and inspect gears, including external and internal spur, single and double-helical gears, as well as bevel and worm gears. A description of each basic manufacturing and inspection method is provided. Both the methodology and underlying theory are explained. The seminar also covers the methods of specifying the data required to control both the manufacturing and inspection processes on an engineering drawing and in a specification. This includes the data to be defined and its presentation on the engineering drawing. It is critical that the design engineer understand the manufacturing and inspection processes that will be employed so that the intent of the design can be successfully translated into practice. Most gear inspection centers on gear tooth geometry; however, various nondestructive and destructive tests (such as ultrasonic, magnetic particle, acid etch, etc.) are also required to ensure the quality of the basic gear material and the results of various heat treatment procedures. In this seminar the basics of a variety of these tests will be covered, including their underlying theory, application techniques and, most importantly, interpretation of the resultant data. This seminar aims to narrow and possibly close the information gap by providing gear design engineers with a good foundation in both manufacturing and inspections processes and procedures. For more information, visit www.agma.org.

## November 14–15–AWEA Wind Energy Fall

**Symposium.** Chandler, Arizona. The AWEA Wind Energy Fall Symposium sets the stage for sharing successes, strategies and lessons-learned with wind energy industry peers. This executive-level event is one of the only venues where AWEA's committees, working groups, and board of directors convene face-to-face - it's a "Who's Who" of those who are driving the wind energy industry forward. This year, expert speakers discuss

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Monthly, except in February, April, July and Decemb	er	8							\$70.00	
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recent challenges the industry is facing, what these uncertain times mean for the future of wind energy and your business, and how best to realign your thinking and strategies to emerge from this period even more successful. General session speakers include political analyst and commentator, Paul Begala and former White House Press Secretary, Ari Fleischer. For more information, visit www.awea.org.

## December 4–6–Detailed Gear Design – Beyond Simple Service Factors. Crowne Plaza Old Towne

Alexandria, Alexandria, Virginia. Raymond Drago, chief engineer-gear technologist, Drive Systems Technology, Inc., will instruct attendees on a basic introduction to gear theory and standardization of AGMA/ISO analyses. This will include practical considerations and limitations associated with the application of standard AGMA/ISO durability rating analyses and investigation of the differences in stress states among the various surface durability failure modes including pitting, spalling, case crushing and subcase fatigue. Attendees will improve gear design, better understand gear rating theory and discuss time dependent and time independent failure modes related to tooth design. For more information, visit www.agma.org.

## December 10–13–Gear School Fundamental Gear

**Course.** Loves Park, Illinois. Gleason Cutting Tools offers this parallel axial gear course dealing with fundamentals of gears, gear inspection, use and care of cutting tools and materials and coating for these tools. The course is recommended for any person in the gear industry who wants knowledge of the fundamentals of gears. The past attendance varied from people in the purchase of gear products, sales of the gear products, gear engineers and gear manufacturing engineers. Course includes gear history, gear types, involute gear geometry, gear tooth systems, general formulas, mathematics, high speed steels and coatings, gear cutting, gear inspection and much more. In addition, attendees will receive a Gleason Cutting Tools plant tour and an optional offsite tour of a complete gear manufacturing facility. For more information, visit www.gleason.com.

13. Publication Title Gear Technology, the Journal of Gear Manufacturing		14. Issue Date for Circulation Data Below September 2012				
5. Extent and Nature of Circulation a. Total Number of Copies ( <i>Het press run</i> )		Average No. Copies Each Issue During Preceding 12 Months	Each Ing Issue Published Nearest to Filing Date			
		12,387	10,484			
<li>Legitimate Paid and/or Requested Distribution (By May and Outside the Mail)</li>	(1)	Outside County Paid/Requested Mail Subscriptions stated on PS Form 3541. (Include direct written request from recipient, telemarkeling and Internet re- quest s from recipient, paid subscriptions including mominal rate subscriptions, employer requests, advertiser's proof copies, and exchange copies.)	8,446	7,966		
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	(3)	Sales Through Dealers and Carriers, Street Vendors, Counter Sales, and Other Paid or Requested Distribution Outside USPS®	747	725		
	(4)	Requested Copies Distributed by Other Mall Classes Through the USPS (e.g. First-Class Mail®)				
<ol> <li>Total Paid and/or Requested Circulation (Sum of 15b (1), (2), (3), and (4))</li> </ol>		9,193	8,691			
	(1)	Outside County Nonrequested Copies Stated on PS Form 3541 (include Sample copies, Requests Over 3 years ofd, Requests induced by a Premium, Buit Sales and Requests including Association Requests. Names obtained from Business Directories, Lists, and other sources)	1,575	345		
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f. Total Distrit	olluc	n (Sum of 15c and c)	12,207	10,124		
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h. Total (Sum of 15f and g)			12,387	10,484		
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16. Publication issue of thi		tatement of Ownership for a Requester Publication is required and will be printed plication.	in the October 2012			
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