Unique Educational Opportunities:
Giving visitors an unusually in-depth look at many of the advanced new technologies shaping the future of gear manufacturing:

“Industry 4.0 – Potentials of Virtualization in Gear Production”
Prof. Dr.-Ing Christian Brecher, Laboratory of Machine Tools and Production Engineering (WZL), RWTH Aachen

“The Internet of Manufacturing Things”
Dr. Athulan Vijayaraghavan, System Insights

“The Evolution of Information Processing in Gear Manufacturing – Gleason 4.0”
Dr. Hermann J. Stadtfeld, Gleason Corporation

Q & A Session:
Panel of Speakers – Prof. Dr.-Ing Christian Brecher, Dr. Athulan Vijayaraghavan, Prof. Dr.-Ing Hermann J. Stadtfeld

“Pericyclic Transmissions Design for Wind Energy and Rotocraft Applications”
Dr. Edward Smith, Penn State University

“Hard Power Skiving of Cylindrical Gears”
Dr. Hermann J. Stadtfeld, Gleason Corporation

“Latest Trends: Cutting Tool Coatings and Materials”
Paul Lindquist, Gleason Cutting Tools Corporation

Sebastian Strunk, Gleason Corporation – Germany

“Polishing and Other Technology Trends in Gear Grinding”
Dr. Antoine Türich, Gleason Corporation – Germany

“CAE for Transmission and Axle Design and Analysis – How Full System Stiffness and Dynamics Interact With Our Gear Designs”
Dr. Owen Harris, Smart Manufacturing Technology Ltd. (SMT)

“A Transmission Error Based Method for Predicting Gear Dynamic Factors in the Frequency Domain”
Dr. Donald Houser, The Ohio State University

“State of Additive Manufacturing”
Denis Cormier, Rochester Institute of Technology
Experience the Gear Solutions Forum in Rochester, NY – the industry’s single most important educational event for manufacturers of all gear types, every industry. It’s a unique opportunity to learn more about the latest technologies and trends in the world of gearing – and how to apply them to your applications.

Live Demonstrations: 40 exhibits include many live process demonstrations – an up-close, in-depth look at the most important gear production and inspection technologies, including:

Cylindrical Gear Solutions
✓ Hobbing
  • Automation
  • Integrated Chamfer and Debur
  • Hobbing of Fine Pitch Gears
✓ Power Skiving
  • Complete Process for Power Skiving Internal and External Gears Both Pre- and Post-Heat Treat
✓ Profile Grinding
✓ Gear Cutting and Grinding up to 2 Meters
✓ Advancements in Cutting Tools and Workholding

Bevel Gear Solutions
✓ Cutting and Grinding Technologies
  • Low Volume and High Volume Solutions
    – Spiral, Hypoid, and Straight Bevels; Face Gears and Clutches
  • Curvic Coupling Grinding
  • Grind from Solid
✓ New Solutions for Bevel Gear Cutter Grinding, Inspection and Assembly
✓ Lapping
  • Quality Improvement Advantages Utilizing Active Torque Lapping

Automation Solutions
✓ Machine Automation including Pre- and Post-Tothing Processes, and Auxiliary Operations
  • Gauging
  • Marking
  • Washing

Metrology Solutions
✓ Testing
  • Advanced Single Flank and Structure-Borne Noise Testing of Cylindrical and Bevel Gears
  • Analytical Gear Inspection
  • Shop Floor/Production Ready Machines
  • Surface Finish and Burn Detection

5-Axis Machining
✓ Complete Bevel and Cylindrical Gear Solutions
  • From Design Through Manufacturing
  • Productivity and Flexibility

Cutting Tools and Workholding
✓ New Tool Materials and Coatings
✓ Latest Advancements in Tool-less Workholding Changeover

Advanced Gear Design
✓ 3D Graphics and Animation
✓ Interactive Tooth Surface and Easeoff Modifications
✓ Seamless Design to Manufacturing Connectivity

The Smart Factory
✓ Gleason 4.0
✓ Closed Loop Manufacturing

View the Complete Agenda and Register Now at: www.etouches.com/gleasongsf2015