

MONDAY, NOVEMBER 14

TECHNOLOGY	8:00 a.m. – 10:00 a.m.	10:30 a.m. – 12:30 p.m.	1:30 p.m. – 3:30 p.m.
CUTTING			F20: Comparative Cutting with Tech Tour B Room S403a
FINISHING	C01: The Basics of Industrial Finishing B Room S404a	C10: Selecting Coatings For Your Parts: An Overview of Today's Coatings Technologies B Room S404a	C20: NEW Finishing & the Environment B Room S404a
	C02: Understanding & Lowering Finishing Costs A Room S404b/c	C11: Understanding the Basics of Electrocoating B Room S404b/c	C21: NEW Advancements in Liquid Coating Materials and Equipment A Room S404b/c
	C03: Right Sizing Your Finishing System A Room S404d	C12: Manual Powder Coating Basics B Room S404d	C22: Converting From Liquid to Powder Coating B Room S404d
FORMING & FABRICATING		F10: NEW Laser Marking B Room S403a	F21: Punch Press Technology B Room S403b
		F11: Safeguarding Your Equipment I Room S403b	F22: Estimating – Made to Order Manufacturing B Room S402a
MANAGEMENT	F01: Introduction to True Kaizen B Room S401a	F12: Lean 101 –Principles of Lean Manufacturing B Room S401a	F23: NEW Use 5S to Control Workspace B Room S402a
	F02: NEW Creating an Employee Empowered Culture to Drive Performance A Room S401d	F13: NEW Recruiting and Selecting the Best Employees I Room S401d	F24: NEW Developing a Winning Sales Force I Room S401d
		F14: Automation Strategies to Streamline your Job Shop Office A Room S402a	F25: Strategic Planning for the Job Shop I Room S402b
STAMPING	S01: Error-proof Metalforming A Room S405a	S10: NEW Increasing Productivity and Quality Monitoring A Room S405a	S20: Die Design and Efficiency A Room S405a
	S02: Stamping Advanced High Strength Steels (AHSS) B Room S405b	S11: NEW AHSS Stamping Forensics and Green Fluid Technology B Room S405a	
TUBE & PIPE	F03: NEW Fundamentals of Tube Mill Operations B Room S402a		F26: NEW Advanced Tube Mill Operations A Room S405b
WELDING			
CONFERENCES	W28: Welding Technology to the Rescue • 8:30 a.m. – 3:00 p.m. • Room N134		
SEMINARS	W20: D1.5 – Bridge Code Clinic • 8:00 a.m. – 12:00 p.m. • Room N133 W21: D15.1– Railroad Code Clinic • 1:00 p.m. – 5:00 p.m. • Room N133 W22: Metallurgy Applied to Everyday Welding • 8:00 a.m. – 5:00 p.m. • Room N135		
PROFESSIONAL PROGRAM	W33: Session 1: International Trends in Welding Research • 8:00 a.m. – 10:00 a.m. • Room N139 Session 2: NSF I/UCRC Sponsored • 2:00 p.m. – 5:00 p.m. • Room N139 Session 3: Solid-State Processing • 2:00 p.m. – 5:00 p.m. • Room N140		
SPECIAL PROGRAMS	W40: Education Annual Program – FREE • 8:00 a.m. – 5:00 p.m. • Room N131 W41: Certified Welding Sales Representative – FREE Sample Session • 1:00 p.m. – 2:00 p.m. • Room N138 W42: Certified Welding Inspector – FREE Sample Session • 2:00 p.m. – 3:00 p.m. • Room N228 W46: Weld-Ed's Professional Development Offerings for Welding Educators – FREE • 8:00 a.m. – 9:00 a.m. • Room N138 IIW and the 2012 Annual Assembly Session – FREE • 11:30 a.m. – 1:00 p.m. • Room N137 AWS Professional Welders Open Competition • 10:00 a.m. – 5:00 p.m. • Show Floor		

TUESDAY, NOVEMBER 15

TECHNOLOGY	10:30 a.m. – 12:30 p.m.	1:30 p.m. – 3:30 p.m.
CUTTING	F30: NEW CO₂ Laser Cutting B Room S403a	F40: Waterjet Cutting Advancements A Room S403a
	F31: NEW Panel-CO₂ Laser Cutting Situations and Solutions B Room S403b	F41: Laser Cutting Considerations for First-time Buyers B Room S403b
FINISHING	C30: Modern Pretreatment: The Basics B Room S404a	C40: NEW Energy Savings for Finishing A Room S404a
	C31: NEW Efficient Curing with Infrared for the Finishing Industry B Room S404b/c	C41: NEW Achieving Quality Finishes When Using a Custom Coater B Room S404b/c
	C32: Fast Color Change A Room S404d	C42: The Future of Coatings Technology A Room S404d
FORMING & FABRICATING	F32: Press Brakes with Tech Tour B Room S402a	F42: NEW General to Advanced Roll Forming Concepts I Room S402a
	F33: Getting Started with Robotics B Room S402b	
MANAGEMENT	F34: NEW Visual Controls to Improve Work A Room S401a	F43: Demand Pull in the Fabrication Job Shop B Room S401a
	F35: Top 10 Secrets of Lean Success for Managers A Room S503a	F44: NEW Five Marketing Moves for Tomorrow B Room S401d
	F36: NEW Social Marketing on Speed – A Crash Course B Room S401d	
	F37: NEW Financial Planning Strategies A Room S504a	
STAMPING	S30: Beyond Forming: Fabrication in the Stamping Press A Room S405a	
	S31: Improving Stamping Efficiency I Room S405b	
TUBE & PIPE	F38: Tube & Pipe Joining & Inspection A Room S403b	
WELDING		
CONFERENCES	W27: National Welding Education Conference • 9:00 a.m. – 4:30 p.m. • Room N138 W29: 8th Conference on Weld Cracking • 8:30 a.m. – 4:00 p.m. • Room N230b	
SEMINARS	W23: D1.1 – Road Map • 8:00 a.m. – 5:00 p.m. • Room N227a W24: ASME Section IX, B31.1 & B31.3 Code Clinic • 8:00 a.m. – 5:00 p.m. • Room N230a W26: Advanced Visual Inspection Workshop Day 1 • 8:00 a.m. – 5:00 p.m. • Room N229	
PROFESSIONAL PROGRAM	W34: Session 4: Shipbuilding • 8:00 a.m. – 12:00 p.m. • Room N139 Session 5: Arc Welding Processes • 8:00 a.m. – 12:30 p.m. • Room N140 Session 6: NSF I/UCRC Sponsored • 2:00 p.m. – 5:00 p.m. • Room N139 Session 7: Weld Modeling • 2:00 p.m. – 5:00 p.m. • Room N140	
SPECIAL PROGRAMS	W39: AWS Awards Luncheon • 12:00 p.m.–2:00 p.m. • Room N226 W40: Education Annual Program (including Plummer and Memorial Lectures) – FREE 10:30 a.m.– 5:00 p.m. • Room N131 W43: Certified Welding Supervisor – FREE Sample Session • 8:00 – 9:00 a.m. • Room N138 W44: Certified Radiographic Interpreter – FREE Sample Session • 9:00 – 10:00 a.m. • Room N228 W45: Thermal Spray Basics: Putting Coatings to Work – FREE • 1:00 p.m. – 5:00 p.m. • Room N137 AWS Professional Welders Open Competition • 9:00 a.m. – 5:00 p.m. • Show Floor	

WEDNESDAY, NOVEMBER 16

TECHNOLOGY	8:00 a.m. – 10:00 a.m.	10:30 a.m. – 12:30 p.m.	1:30 p.m. – 3:30 p.m.
CUTTING	F50: Plasma Plate & Structural Cutting B Room S403a	F60: NEW Fiber Laser Cutting B Room S403a	
FINISHING	C50: NEW Finishing Essentials: Safety & Business Continuity B Room S404a	C60: NEW Finishing Essentials: Measurement & Testing B Room S404a	C70: Finishing Essentials: Racking & Stripping B Room S404a
	C51: NEW Turning Your Finishing System Green A Room S404b/c	C61: NEW Structured Troubleshooting: A Disciplined Approach to Finding & Resolving Paint Issues A Room S404b/c	C71: Process Control & Preventive Maintenance A Room S404b/c
	C52: NEW Advances in Porcelain Enamel A Room S404d	C62: Fast & Profitable Powder Coating Systems A Room S404d	C72: NEW Ultrafiltration of Electrocoat Paint B Room S404d
FORMING & FABRICATING		F61: NEW Laser Joining Overview B Room S402b	
	F51: NEW Add-on Applications for Roll Forming A Room S403b	F62: Effectively Slitting & Blanking Coils A Room S403b	F70: NEW Advancements in Coil & Sheet Leveling Technology A Room S403a
		F63: NEW Robotic Automation B Room S402b	F73: Advanced Laser Technology and Applications A Room S403b
MANAGEMENT	F52: Low Volume, High Variety Production – No Problem for Lean A Room S401a	F64: Total Productive Maintenance for the Fabrication Job Shop A Room S401a	F71: NEW Team Building on Steroids B Room S401a
	F53: Sales and Marketing Strategies to Attract Profitable Business I Room S401d	F65: NEW Finding and Fixing Profit Destroyers in High Mix Operations I Room S401d	F72: Four Steps to Improving Sales and Productivity in a Recession A Room S401d
STAMPING	S50: NEW Best Practices for Manufacturing: World Class Safety and How to Compete Globally B Room S405a	S60: NEW Vibration Control and Installation Methods to Improve the Performance of Metal Working Machinery B Room S405a	
TUBE & PIPE	F54: NEW Hydroforming – It's Lower Cost than You Think! B Room S405b		
WELDING			
CONFERENCES	W30: What's New in Power Sources • 8:30 a.m. – 4:00 p.m. • Room N127 W31: Thermal Spray Technology: High-Performance Surfaces • 9:00 a.m. – 5:00 p.m. • Room N128		
SEMINARS	W25: The Why and How of Welding Procedure Specifications • 8:00 a.m. – 5:00 p.m. • Room N230a W26: Advanced Visual Inspection Workshop Day 2 • 8:00 a.m. – 5:00 p.m. • Room N229		
RWMA SCHOOL	W32: RWMA Resistance Welding School Day 1 • 7:45 a.m. – 5:30 p.m. • Room N227a		
PROFESSIONAL PROGRAM	W35: Session 8: Laser Materials Processing • 8:00 a.m. – 11:30 a.m. • Room N139 Session 9: Filler Metals, Overlays and Repair • 8:00 a.m. – 12:00 p.m. • Room N140 Session 10: Sensing and Control • 2:00 p.m. – 5:30 p.m. • Room N139 Session 11: Joining Metallurgy • 2:00 p.m. – 5:00 p.m. • Room N140		
SPECIAL PROGRAMS	W40: Education Annual Program – FREE • 9:00 a.m. – 5:00 p.m. • Room N131 W47: Prayer Breakfast: Helping the Poor • 7:00 a.m. – 8:30 a.m. • Room N137 AWS Professional Welders Open Competition • 9:00 a.m. – 5:00 p.m. • Show Floor		

THURSDAY, NOVEMBER 17

TECHNOLOGY	8:00 a.m. – 10:00 a.m.	10:30 a.m. – 12:30 p.m.
FINISHING	C80: NEW “Green” Pretreatment A Room S404a	
	C81: NEW Finishing Large Parts A Room S404b/c	
FORMING & FABRICATING	F80: NEW Part and Surface Cleaning Technologies B Room S401a	F90: Press Brake Troubleshooting A Room S403a
	F81: NEW Automated Deburring; A Surprising Cost and Time Saving with Tech Tour A Room S401d	
MANAGEMENT	F82: NEW Value People Component of Lean B Room S403a	F91: NEW Establishing a World Class Safety Culture I Room S402a
	F83: NEW CLOUD Computing Basics B Room S403b	
	F84: NEW Leadership: Critical Communication and Team Development. A Room S402a	
TUBE & PIPE	F85: Basics of Tube & Pipe Fabrication B Room S405b	F92: NEW Advanced Tube and Pipe Fabrication with Tech Tour A Room S405b
WELDING		
RWMA SCHOOL	W32: RWMA Resistance Welding School Day 2 • 8:00 a.m. – 3:45 p.m. • Room N227a	
PROFESSIONAL PROGRAM	W36: Session 12: Materials Weldability • 8:00 a.m. – 11:00 a.m. • Room N139 Session 13: Industrial Technology • 8:00 a.m. – 11:00 a.m. • Room N140	
SPECIAL PROGRAMS	W40: Education Annual Program – FREE • 9:00 a.m. – 12:00 p.m. • Room N131 Certification Exams (advance application required) • 7:00 a.m. – 6:00 p.m. AWS Professional Welders Open Competition – Awards Ceremony • 11:00 a.m. – 12:00 p.m. • Show Floor	