ISD Spring Technical Event June 5-6, 2014

Session	Presenter	Length
 Fugitive emission Fugitive emission Legislation Certified valve packing technology Valve sealing performance standards (comparison) New products development 	Teadit – Ron Walters	1 hour
Fluoropolymer Basics and Applications This talk will cover the fundamentals of fluoropolymer materials and applications where they are utilized. Topics covered: -Tools for solving problems that cannot be resolved with traditional elastomers -Examine considerations when choosing a fluoropolymer in reference to design, application, and cost -Instruction on the process for choosing the correct fluoropolymer for specific applications -Provide instruction on formulating and processing fluoropolymers Specific materials to be reviewed: -Fluoroelastomers (FKM) -Perfluoroelastomers (FFKM / PFE) -Fluoroplastics (PTFE, FEP, THV, PVDF, etc.) Those attending should have a basic understanding of elastomers and their end-use applications. The class will provide instruction on how to make decisions of choosing the correct fluoropolymer for the right application. Primary focus will be on elastomers with some additional information on plastics.	Ed Cole - Sr Chemist 3M Advanced Materials Division	2 hours
Rubber Manufacturing Processes: How Rubber Polymers are Constructed This is a general technical presentation on what kinds of ingredients are used to make the various varieties of rubber sheet used in the gasket and sealing business. Background on these materials will explain why neoprenes, EPDMs and SBRs are considered appropriate alternative compounds for sealing widely divergent applications. Extenders, ozone resistances, oils and fillers are lesser ingredients that enhance a compounds resistance to sealing uses. Emphasis will be given to learning what compounds can be chosen for oil resistance, oil proof-ness, weather resistance, wear resistance, tear resistance and other demands of the environment. Like baking a cake, choices of ingredients can alter the end result of what's made. There will be a of couple case studies highlighting misuse vs desirability.	American Biltrite - Paul Smith	2 hours
HNBR/NBR (description TBD)	Zeon	2 hours

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How to make rubbe through production	per seals: Discussion and Shop Tour. Tour s areas including	Precision Associates	2 hours
Rubber Lab Rubber Prep Deflashing Packagi	Mold Shop Molding Inspection ng		
below, this session wo	ussion of the above topics than the Shop Tour noted vill cover Injection, Transfer & Compression Molding es will observe specific operations in order to get a ds used and difficulties encountered during		
Shop tour: Tour th	rough productions areas including	Precision Associates	1 hour
Rubber Lab Rubber Prep Deflashing Packaging Tour will give a quick	Mold Shop Molding Inspection Clean Room overview of these operations used by Precision	Associates	
Associates.	, , , ,		
D2000, and visit a ru required for this specific for the specific for	presentation that covers the ASTM specification bber lab. Attendees will observe the specific tests diffication as well as other laboratory operations. al Properties Testing includes: (Tensile, Modulus, Elongation, Tear Resistance, th) in Set (Room Temp & Elevated Temp) Testing bjects: Retraction (TR-10, etc.) Restress Relaxation (CSR) esting (Durometer, IRHD) wity recompression (RGD) tance	Precision Associates	2 hours
Class includes a disc familiar with when se the rubber industry a	cussion of considerations seal distributors should be lling to the medical industry, including terms used by s it relates to the medical industry, specification des in depth tour of clean room operations.	Precision Associates	2 hours

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How to pack a pump	American Braiding	2 hours
We will review packing selection and installation in a power point overview that lasts 30 to 45 minutes and then we'll move to an actual pump and un-pack and re-pack it (and valve as well) with hands on participation. Limit 10 students per class.		
Fugitive emission packing to the new API 622 specification, cutting edge Valve Sealing Technology	American Braiding	2 hours
This session will include both lecture and hands-on work with packing.		
Fluoroelastomers	Alpha Associates	2 hours
A look at some of the latest product developments and implications for the sealing business.		