

STEAM & CONDENSATE SYSTEM SEMINARS

<u>SERIES</u>	<u>SUBJECT</u>
000	INTRODUCTION
100	WATER AND STEAM A discussion of the thermal properties of both as it relates to the drying of paper.
200	MOTION (OR TRANSFER) A discussion of the mechanics of the transfer of mass, including moisture, and heat as they relate to cylinder drying of paper.
300	HEAT TRANSFER AND PAPER DRYING An overview of the basic formula for heat transfer as it relates to cylinder drying of paper.
400	CYLINDER DRYING PROCESS Dissects the cylinder drying of paper into incremental phases.
500	DRYER DRAINAGE A discussion of the removal of condensate from the dryer, particularly as it relates to syphon selection.
600	SYSTEM THERMAL ENGINEERING The basics of the determination of the thermal energy required for a dryer to remove water from paper.
700	DRYER SEGMENTATION A discussion of the need for warm-up, constant rate and falling rate zones in a dryer.
800	STEAM ARCHITECTURE A discussion of cascading vs. recirculating designs for dryers and dryer sections.

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900	SYSTEM FLOW ENGINEERING Application of the conservation of mass as it relates to performing a water and steam balance on a dryer and dryer sections.		
1000	SYSTEM CONTROL STRATEGIES A review and comparison of blowthrough flow and differential pressure control and some guidelines for making a selection.		
1100	YANKEE DRYERS A review of the unique application of steam and condensate systems on Yankee dryer cylinders.		
1200	SYSTEM SURVEYS OR AUDITS A review of the need and benefits of periodic check-ups.		
2000	THERMAL PRODUCTS* <ul style="list-style-type: none"> • Thermocompressors • Steam Condensers & Vacuum Receivers • Steam Conditioners • Dryer Bars 		
3000	FLUIDS HANDLING PRODUCTS* <table border="0"> <tr> <td> <ul style="list-style-type: none"> • Valves • Joints • Syphons • Ballsights </td> <td> <ul style="list-style-type: none"> • Flexible Hoses • Piping • Separators & Modules • Traps </td> </tr> </table>	<ul style="list-style-type: none"> • Valves • Joints • Syphons • Ballsights 	<ul style="list-style-type: none"> • Flexible Hoses • Piping • Separators & Modules • Traps
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4000	CONTROL PRODUCTS* <table border="0"> <tr> <td> <ul style="list-style-type: none"> • Actuators & Positioners • Seal Pots • Safety Relief Valves </td> <td> <ul style="list-style-type: none"> • Transmitters • Controllers • Orifice Plates </td> </tr> </table>	<ul style="list-style-type: none"> • Actuators & Positioners • Seal Pots • Safety Relief Valves 	<ul style="list-style-type: none"> • Transmitters • Controllers • Orifice Plates
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*An overview of the individual products and their application to steam and condensate systems.