



## Registration Form

- Please complete this registration form and fax it to 717-217-2277. For questions: Contact Phil Fricks, Phone: [770-608-4082](tel:770-608-4082) or E-mail: [Phil.Fricks@belden.com](mailto:Phil.Fricks@belden.com). You may also register on-line at: [www.belden.com/hirschmann/designseminar](http://www.belden.com/hirschmann/designseminar)
- Please provide us with your contact information:

**Company Name:** \_\_\_\_\_  
**First Name:** \_\_\_\_\_ **Last Name:** \_\_\_\_\_  
**Title:** \_\_\_\_\_  
**Phone:** \_\_\_\_\_ **E-mail Address:** \_\_\_\_\_  
**Street Address:** \_\_\_\_\_  
**City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **ZIP:** \_\_\_\_\_

- Please indicate [X] your class preference below. Only choose one class per session.

Session	Room 1 (Wedgwood)	Room 2 (Coral Room A)	Room 3 (Coral Room B)	Room 4 (Coral Room C) (Hands-On Lab)
Session 1	<input type="checkbox"/> Introduction to Ethernet Networking	<input type="checkbox"/> Switch Selection: Choosing the right product for your application	<input type="checkbox"/> Network Management	<input type="checkbox"/> Managed Switches
Session 2	<input type="checkbox"/> Network Design I: Fundamentals & Best Practices	<input type="checkbox"/> Introduction to Ethernet Networking	<input type="checkbox"/> Network Design V: Wireless Best Practices	<input type="checkbox"/> Network Management
Session 3	<input type="checkbox"/> Network Design III: Managing Multicast Traffic	<input type="checkbox"/> Fiber Optic Cabling	<input type="checkbox"/> Network Design II: Implementing Redundancy	<input type="checkbox"/> Wireless
Session 4	<input type="checkbox"/> Industrial Connectivity: Passive Product Technology	<input type="checkbox"/> Network Design III: Managing Multicast Traffic	<input type="checkbox"/> Network Design I: Fundamentals & Best Practices	<input type="checkbox"/> Network Redundancy
Session 5	<input type="checkbox"/> Network Design IV: Network Isolation	<input type="checkbox"/> Cool things your switch can do that you don't know about	<input type="checkbox"/> Fiber Optic Cabling	<input type="checkbox"/> Managed Switches
Session 6	<input type="checkbox"/> Migrating Legacy Devices to Ethernet	<input type="checkbox"/> Industrial Connectivity: Active Products	<input type="checkbox"/> Network Design IV: Network Isolation	<input type="checkbox"/> Layer 3 / Routing
Session 7	<input type="checkbox"/> Network Design II: Implementing Redundancy	<input type="checkbox"/> Fluke: Troubleshooting Physical Layer Cabling and Testing	<input type="checkbox"/> Migrating Legacy Devices to Ethernet	<input type="checkbox"/> Layer 3 / Routing
Session 8	<input type="checkbox"/> Industrial Automation Cabling (Non-Ethernet Applications)	<input type="checkbox"/> Network Security "The Hirschmann Way"	<input type="checkbox"/> Ethernet Cabling: Your Questions Answered	<input type="checkbox"/> Network Redundancy
Session 9	<input type="checkbox"/> Fluke: Troubleshooting Physical Layer Cabling and Testing	<input type="checkbox"/> Industrial Automation Cabling (Non-Ethernet Applications)	<input type="checkbox"/> Hirschmann System Integrator (HIS) Forum	<input type="checkbox"/> Network Security
Session 10	<input type="checkbox"/> Ethernet Cabling: Your Questions Answered	<input type="checkbox"/> Cool things your switch can do that you don't know about	<input type="checkbox"/> Distributor Forum	<input type="checkbox"/> Network Management
Session 11	<input type="checkbox"/> Network Design V: Wireless Best Practices	<input type="checkbox"/> Fluke: Troubleshooting Physical Layer Cabling and Testing	<input type="checkbox"/> Network Security "The Hirschmann Way"	<input type="checkbox"/> Network Security
Session 12	<input type="checkbox"/> Introduction to the Hirschmann System Integrator (HIS) Program	<input type="checkbox"/> Switch Selection: Choosing the right product for your application	<input type="checkbox"/> Network Management	<input type="checkbox"/> Wireless

- Method of Payment. Please indicate [X] your method of payment.

**Purchase Order** Please attach Purchase Order to your registration form       **Check**  
 **Credit Card** We will contact you for your credit card billing information.

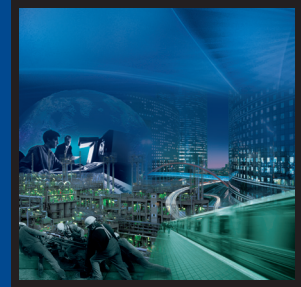
- Please indicate your desired shirt (golf) size. Male:  Female:   
 SM  M  LG  XL  XXL  Other \_\_\_\_\_ (specify)

**NOTE: Classroom sizes are limited, so seating is being offered on a first-come, first served basis.**



## Schedule at a Glance

Day 1		Sunday, September 19, 2010			
4:00pm - 8:00pm		Registration/Information Desk Open			
5:00pm - 8:00pm		Welcome Reception - Cocktails and Hors D'oeuvres (Outside Terrace)			
Day 2		Monday, September 20, 2010			
7:00am to 5:00pm		Registration/Information Desk Open			
7:00am to 8:00am		Breakfast (Atrium)			
8:00am to 9:00am		Welcome - Keynote Address - General Session (Crystal Ballroom D & E)			
<b>Room GS</b> (Crystal Ballroom D & E)	<b>Room 1</b> (Wedgwood)	<b>Room 2</b> (Coral Room A)	<b>Room 3</b> (Coral Room B)	<b>Room 4</b> (Coral Room C) (Hands-On Lab)	
Session 1					
9:15am to 10:45am	Introduction to Ethernet Networking	Switch Selection: Choosing the right product for your application	Network Management	Managed Switches "Out of the Box"	
Session 2					
11:00am to 12:30pm	Network Design I: Fundamentals & Best Practices	Introduction to Ethernet Networking	Network Design V: Wireless Best Practices	Network Management	
12:30am to 1:30pm		Lunch (Crystal Ballroom D & E)			
Session 3					
1:45pm to 3:15pm	Network Design III: Managing Multicast Traffic	Fiber Optic Cabling	Network Design II: Implementing Redundancy	Wireless	
Session 4					
3:30pm - 5:00pm	Industrial Connectivity: Passive Product Technology	Network Design III: Managing Multicast Traffic	Network Design I: Fundamentals & Best Practices	Network Redundancy	
5:00pm - 7:00pm		Trade Show (Atrium Area) - Appetizers & Open Bar			
7:00pm - 8:00pm		Dinner ( Crystal Ballroom D & E)			
8:00pm - 11:00pm		Entertainment: Casino Night (Crystal Ballroom C)			
Day 3		Tuesday, September 21, 2010			
7:00am to 5:00pm		Registration/Information Desk Open			
7:00am to 8:00am		Breakfast (Atrium)			
8:00am to 8:30am		General Session (Crystal Ballroom D & E)			
<b>Room GS</b> (Crystal Ballroom D & E)	<b>Room 1</b> (Wedgwood)	<b>Room 2</b> (Coral Room A)	<b>Room 3</b> (Coral Room B)	<b>Room 4</b> (Coral Room C) (Hands-On Lab)	
Session 5					
8:30am to 10:00am	Network Design IV: Network Isolation	Cool things your switch can do that you don't know about	Fiber Optic Cabling	Managed Switches "Out of the Box"	
Session 6					
10:30am to 12:00pm	Migrating Legacy Devices to Ethernet	Industrial Connectivity: Active Products	Network Design IV: Network Isolation	Layer 3 / Routing	
12:00am to 1:15pm		Lunch (Crystal Ballroom D & E)			
Session 7					
1:45pm to 3:15pm	Network Design II: Implementing Redundancy	Fluke: Troubleshooting Physical Layer Cabling and Testing	Migrating Legacy Devices to Ethernet	Layer 3 / Routing	
Session 8					
3:30pm - 5:00pm	Industrial Automation Cabling (Non-Ethernet Applications)	Network Security, The Hirschmann Way	Ethernet Cabling: Your Questions Answered	Network Redundancy	
6:15pm - 11:00pm		Dinner/Offsite Event			



## Schedule at a Glance and Session Descriptions

Day 4		Wednesday, September 22, 2010			
7:00am to 12:00pm		Registration/Information Desk Open			
7:00am to 8:00am		Breakfast (Atrium)			
8:00am to 8:30am		General Session (Crystal Ballroom D & E)			
<b>Room GS</b> (Crystal Ballroom D & E)	<b>Room 1</b> (Wedgwood)	<b>Room 2</b> (Coral Room A)	<b>Room 3</b> (Coral Room B)	<b>Room 4</b> (Coral Room C) (Hands-On Lab)	
Session 9					
8:30am to 10:00am	Fluke: Troubleshooting Physical Layer Cabling and Testing	Industrial Automation Cabling (Non-Ethernet Applications)	Hirschmann System Integrator (HSI) Forum	Network Security	
Session 10					
10:15am to 11:45pm	Ethernet Cabling: Your Questions Answered	Cool things your switch can do that you don't know about	Distributor Forum	Network Management	
12:00am to 1:15pm		Lunch (Crystal Ballroom D & E)			
Session 11					
1:30pm to 3:00pm	Network Design V: Wireless Best Practices	Fluke: Troubleshooting Physical Layer Cabling and Testing	Network Security, The Hirschmann Way	Network Security	
Session 12					
3:30pm - 5:00pm	Introduction to the Hirschmann System Integrator (HSI) Program	Switch Selection: Choosing the right product for your application	Network Management	Wireless	

Session ID	Session Title	Session Description	Frequency
TP01	<b>Introduction to Ethernet Networking</b>	Ethernet 101: A foundation class that will introduce you to the history and evolution of ethernet, the OSI model, industry standards and common terms.	2
TP02	<b>Network Design I: Fundamentals &amp; Best Practices</b>	This session will introduce you to a systematic approach to designing a network from the ground up. What questions need to be asked and what factors need to be considered to insure that you deploy a robust and future proof network.	2
TP03	<b>Network Design II: Implementing Redundancy</b>	We'll begin with a discussion of redundancy protocols: open standards vs. proprietary methods, and the pros and cons of each. Then we will examine the various ways that each method can be implemented, so that you can make the best selection for your applications.	2
TP04	<b>Network Design III: Managing Multicast Traffic</b>	EtherNet/IP is a very popular industrial protocol that takes advantage of multicasting. This session will provide you with an understanding of how multicasting works, so that you can manage it properly on your network and maximize the performance of each end device.	2
TP05	<b>Network Design IV: Isolating Network Traffic</b>	A network's performance can be dramatically improved by isolating traffic. This session will look at the reasons why you would want to isolate network segments, and various ways to deliver this isolation including the use of VLANs, routers / Layer 3 switches and firewalls.	2
TP06	<b>Network Design V: Wireless Best Practices &amp; Applications</b>	WLAN technology is rapidly gaining acceptance in mission critical networks. This session will help you understand the 802.11 "alphabet soup". From there we will look at several real world applications to see how those technologies are implemented successfully.	2
TP07	<b>Network Security, The Hirschmann Way</b>	Network security is an important, and very broad topic. This session will introduce you network security, and look at various approaches to implementing security on your network and current trends in the market. Security features inside Hirschmann switches will be discussed, as well as dedicated security products.	2



## Session Descriptions

Session ID	Session Title	Session Description	Frequency
TP08	<b>Network Management</b>	SNMP, OPC, Web Browser, Hyperterminal...are all methods to interface with your network devices, and each has its place, but what combination of these is right for your application? As your network grows and becomes increasingly important, a solid network management strategy is a must. This session will provide you with an understanding of network management so that you can make informed decisions on your own networks.	2
TP09	<b>Physical Layer Cabling &amp; Testing: How to test and troubleshoot a reliable ethernet network</b>	Reliable ethernet network performance is dependent upon a robust physical layer. Learn the best practices from Fluke Networks for installing, verifying and troubleshooting the ethernet physical layer for copper, fiber and wireless networks.	3
TP10	<b>Switch Selection: Choosing the right product for your application</b>	Picking out an ethernet switch is simple, right? Just flip open the Hirschmann catalog and pick one! With literally thousands of part numbers, this is not such an easy task. This session will begin with the basics, what is required for your application: Managed or Unmanaged, din rail, 19" rack or surface mount, environmental specs, and so on. From there we'll look at each Hirschmann product family and help you to understand the part numbering system. We'll also show you several part number configuration tools to simplify the entire process.	2
TP11	<b>Cool things your switch can do that you don't know about</b>	There are many features inside a Hirschmann switch, but most people don't know they are there. However, many of these features offer valuable, time saving benefits. We'll introduce you a number of these features, and show you how to take advantage of them.	2
TP12	<b>Migrating legacy devices to Ethernet</b>	Upgrading a legacy system to ethernet is often done in phases, and upgrading equipment just for ethernet connectivity is not always practical. This session will introduce the new family of Hirschmann serial to ethernet gateways, and show you how they can be implemented to provide ethernet connectivity to non-ethernet devices.	2
TP13	<b>Industrial Connectivity: Passive Product Technology</b>	This session will review the basic building blocks of a fieldbus network - cordsets and distribution boxes. We will look at the physical characteristics of these products, and show you how they can be used as an efficient way to increase your network capacity. This session is focused on applications, and you will gain a better understanding of this technology so that you can make informed decisions on your networks.	1
TP14	<b>Industrial Connectivity: Active Products</b>	A discussion of various fieldbus networks (As-I, Interbus, Can, Devicenet and Profibus) and ways that these networks can be implemented in a more cost effective manner using products from Lumberg Automation. We will also examine added benefits that come with this technology - primarily access to more information and diagnostics.	1
TP15	<b>Ethernet Cabling: Your Questions Answered</b>	Over 35% of network downtime is a direct result of cabling problems. This session will help you understand cable standards, applications and options. Cat 5e or 6? Shielded or Unshielded? Conduit or not? Belden will present the answers to these and many more tough application challenges.	2
TP16	<b>Fiber Optic Cabling</b>	A presentation covering all aspects of fiber optic media: single-mode versus multimode fiber, loose tube and tight buffer cables as well as types of fiber cables for different applications. Fiber connectivity reviewed including LC, SC and ST connectors and more.	2
TP17	<b>Industrial Automation Cabling (Non-Ethernet Applications)</b>	The various industrial automation protocols each have unique cable requirements. This session details the varied cabling requirements for DeviceNet(R), ControlNet(R), Profibus(R), Foundation Fieldbus(TM), etc. The physical and electrical attributes of these automation cables will be discussed.	2
TP18	<b>HSI Forum</b>	This session is limited to authorized Hirschmann System Integrators only. This is designed to be an information exchange to provide an update on the HSI program, answer questions and gather feedback to make the program even better.	1
TP19	<b>Distributor Forum</b>	This session is limited to authorized Hirschmann distributors only. This is designed to be an information exchange to provide an update on Hirschmann's distributor program, answer questions and gather feedback for future enhancements.	1
TP20	<b>Introduction to HSI - Hirschmann System Integrator Program</b>	For integrators interested in learning more about the Hirschmann System Integrator program, this session will provide details, requirements and benefits.	1
LB01	<b>Managed switches "Out of the Box"</b>	Literally, out of the box. Attendees will power up a switch and learn how to set parameters and commission the switch for their application.	2
LB02	<b>Network Management</b>	Learn how easy it is to implement a network management system, and also see how powerful a tool this can be.	2
LB03	<b>Network Redundancy</b>	Learn how to implement the 2 most common types of network redundancy - HiPer Ring and Rapid Spanning Tree.	2
LB04	<b>Layer 3 / Routing</b>	Students will implement both static and dynamic routing on their lab equipment and see firsthand the benefits of each method. If you are new to layer 3, this is a great opportunity to learn about it.	2
LB05	<b>Network Security</b>	Students will have the opportunity to implement network security with the Eagle family of products, as well as learn about security features inside every Hirschmann managed switch.	2
LB06	<b>Wireless</b>	It's been said that the best way to learn wireless is to do wireless...here's your chance to do just that!	2