MASTERs Conference 2005 Class List

click on any class number to download the presentation file and any additional material associated with that class

NOTE: Some presentations contain sensitive material and were therefore not included on this CD	
901 PIC	New PIC® Microcontroller Development Starter Course
902 DEV	Tools Review and Preview - Everything You Need to Get Started with Development Tools
903 NEW	The Latest PICmicro® Products: 12 months ahead
904 ANA	Introduction to the latest Analog and Interface Products and Tools
905 BAT	Battery Management Update
906 PER	Technical Review of the New Peripherals and Features on Microchip's Low Pin Count Microcontrollers
907 IDE	What's New in the MPLAB® IDE?
908 SIM	Using the MPLAB® Simulator and Stimulus
909 ICD	MPLAB® ICD 2 for Advanced Users
910 VDI	Microcontroller Peripheral Initialization using the Visual Device Initializer (MPLAB® VDI)
911 C18	MPLAB® C18 - Using C in an Embedded World
912 C30	MPLAB® C30 - A Discussion on Compiler Features
913 HTC	Hi-Tech C Compiler for PICmicro® MCUs
914 PRG	Device Programming from A to Z
915 TAT	Tips & Tricks for Designing with Microchip's New 6/8/14-pin Devices
916 EXT	Using the PIC18F External Memory Bus
917 BTL	Building a Modular Bootloader
918 MIG	On the Move: Migrating PIC18 to High Performance Cost-Effective 16-bit MCU and High Performance Cost-Effective 16-bit MCU to dsPIC30
919 NPA	Introduction to Microchip's 16-bit Microcontroller Family
920 NPB	Get Your Hands on 16 Bits
921 ARC	Introuduction to dsPIC30F 16-bit Digital Signal Controller Architecture
922 GSP	Getting Started Programming the dsPIC30F Digital Signal Controller
923 ARF	Introduction to the Next Generation 16-bit Digital Signal Controller (DSC) Architecture
924 ATP	Advanced Topics in dsPIC30F Programming

925 DSG	High Resolution Delta-Sigma ADCs
926 EFA	Designing PIC® Microcontroller Circuits for EFT/ESD Compatibility
927 EFB	Designing PIC® Microcontroller Circuits for EFT/ESD Compatibility - II
928 PGN	Power, Ground, and Noise
929 SCE	Signal Conditioning in the Embedded World
930 OSC	Building Confidence in Your Oscillator Design
931 RES	Ceramic Resonators and Practical Application
932 ISE	Introduction to Software Engineering
933 MSE	Intermediate Software Engineering
934 ASE	Advanced Software Engineering (Multitasking)
935 RTO	Working with Microchip RTOS
936 OBJ	Introduction to Object Oriented Programming with MPASM™ Assembler and MPLINK™ Linker
937 OOP	Rapid Application Development with Object-Oriented Programmable Integrated Circuits
938 VGP	Visij Graphical Programming with the Muvium Java Virtual Machine for the PIC® Microcontroller
939 PPC	Communicate with PIC® Microcontrollers via the PC Serial Port
940 TCP	TCP/IP Hands-on
941 ZIG	ZigBee™ Protocol Hands-on
942 USB	Full Speed USB Hands-on-Training
943 GPU	Using the Microchip General Purpose USB Windows® driver (Windows Application Programming)
944 I2C	Using the I2C™ to Implement a Termperature Datalogger
945 MOD	Using the V.22bis Soft-Modem Library with the dsPIC30F
946 WSS	Developing a Multi-Node Wireless Scoring System
947 RLD	Radio Link Design
948 WLC	802.11 for Embedded Systems
949 CAN	CAN Basics Hands On
950 AIC	Automotive Industry Standard CAN Software
951 TRA	Smart Sensing and Bidirectional Communication Transponder Design using PIC16F639
952 DCM	Low-cost DC Brushed Motor Control
953 MCL	Motor Control Hands-on Using PIC18FXX31 Microcontrollers
954 AMC	Advanced Motor Control Using PIC18FXX31 Microcontrollers
956 EME	Improving Energy Efficiency in Electrical Motor Drives
957 BLD	BLDC Motor Control Hands-on Using dsPIC30F2010
958 ACM	AC Induction Motor Control with the dsPIC30F

959 KEL	Property Identification using PIC10F2XX Microcontrollers with KEELOQ® Software
960 IPD	Intelligent Power Supply Design
961 IPL	Intelligent Power Supply Lab
962 LLS	Low Cost Inductor, Capacitor, and Microcontroller Based LED Lighting Solutions
963 D2D	Which DC to DC Power Converter is Right for Your Application?
964 DCE	Desiging DC - DC Converters for Embedded Systems Using the PIC® Microcontroller and the MCP1630 High-Speed PWM
965 BCH	Battery Charging in Portabl, Handheld Applications
966 TEM	High Accuracy Temperature Sensors for the Embedded System
967 DCI	Finding Your Way: Digital Compass Implementation
968 HES	Using the Hall Effect Sensor to Improve Your Putting
969 PMA	Overview of Popular Metering Applications and Techniques
970 MET	Utility Metering with PIC Microcontrollers and the MCP3905 Energy Metering IC
971 OPT	The Eyes of the Microcontroller - Interfacing Optoelectronic Sensors to the PIC® Microcontroller
972 DAQ	Cool Data Acquisition Applications (or How to Interface the PIC16F68X to the Real World)
973 PDC	PIC10F Distributed Control
974 TSI	Touch-Screen Implementation
975 LCD	LCD Hands-on for Embedded Engineers
976 MEC	Hands-on Mechatronics
977 SPE	Adding Speech to Low-Cost Microcontrollers
978 SPC	Speech Compression and Decompression with the dsPIC30F
979 ECH	Noise Suppression and Accoustic Echo Cancellation with the dsPIC30F
980 ASP	Advanced Signal Processing with the dsPIC30F Digital Signal Controller

[Tradmarks and Disclaimers]

Class Downloads for MASTERs Conference 2004

click on any class number to download the presentation file and any additional material associated with that class

NOTE: Some presentations contain sensitive material and were therefore not included	
801 BEG	PIC® Microcontroller Starter Course
802 MPL	Getting Started with MPLAB® IDE
803 MEC	Hands-on Mechatronics
804 P18	Learning to Program in Assembler on the PIC18
805 ARC	dsPIC30F 16-bit MCU Architecture
806 P30	Getting started Programming on the dsPIC30F
807 P51	Come to the light: Learning the basics of PICmicro microcontroller from an 8051 perspective
808 TLS	Tools in Preview - What's coming down the pike from Development Tools
809 LAB	MPLAB 301
810 PIN	Microcontroller Peripheral Initialization using the Visual Device Initializer (MPLAB® VDI)
811 INF	User Interface Considerations for Embedded Systems
812 ENG	Software Engineering for PICmicro MCUs
813 C18	MPLAB® C18 C Compiler Hands-on Training
814 HTC	Hi-Tech C compiler for PICmicro MCUs
815 C30	MPLAB® C30 - A Discussion on Compiler Features
816 MUV	Visual Development with Muvium Java Virtual Machine for the PICmicro MCU
817 APD	Rapid Application Development with Object Oriented Programmable Integrated Circuits
818 NEW	The Latest PICmicro® Products: 12 months ahead
819 NNW	What's new with the PIC18 Architecture including nanoWatt Technology Features and the Extended Instruction Set
820 8PN	What have they done to my favorite 8/14/18 pin PIC Microcontrollers?
821 PWR	Hands-on for Low Power Features of the nanoWatt Family Devices using PIC18F4620 and C18 Compiler
822 PER	Introducing Microchip's New Battery Optimized PIC12F635/PIC16F636/16F639 Devices
823 AUR	Project: Aurora-X
824 DHO	Advanced Hands-On Programming with the dsPIC30F

825 WHT	What is all this DSP stuff anyhow?
826 DPS	Advanced Signal Processing with the dsPIC30F
827 EEP	Intermediate Hands-on Programming for SPI EEPROMs using the PIC18F452 and Microchip Tools
828 TIP	Tips & Tricks on designing with Microchip's new 8/14-pin devices
829 DSD	Intro to Digital Sound Processing on the dsPIC™ Digital Signal Controller
830 PGA	The MCP6S2X Programmable Gain Amplifier
831 TMP	Temperature Measurement Circuits for Embedded Applications
832 MTS	Designing Multi-Tasking Firmware without an RTOS
833 OVS	A/D basics and Oversampling Techniques
834 PID	PID Implementation on PIC18
835 KLS	Smart Sensing and Keyless Entry Systems using PIC16F639
836 DAQ	A Cool Data Acquisition Application (or how to interface the PIC16F68x to the real world)
837 OPT	Optimizing Embedded Analog Circuits
838 RAD	Radio Link Design
839 LCD	LCD and Touch-screen Control with the PIC18F8490
840 DSM	Using a 22-bit Delta Sigma A/D Converter
841 NSE	Power, Ground, and Noise
842 CND	Signal Conditioning In The Embedded World
843 OSC	Quartz Crystal and Crystal Oscillator Selection
844 EMC	Designing PIC® Microcontroller Circuits for EFT/ESD Compatibility
845 SNS	Sensor and Sensorless Control of a BLDC motor using a dsPIC DSC
846 PSU	PIC® MCU In Your Power Supply 101
847 SPS	Marrying Micros to Switchers, with Hardware and Firmware
848 PMG	Intelligent Switch Mode Battery Charging Solutions Using the PIC® MCU
849 BAT	Battery Management in Portable Applications
850 PSX	Microchip Battery Management Hardware and Development Tools
851 CHG	Optimizing Available Capacity with Microchip Battery Managers and Chargers
852 ZGB	Introduction to Zigbee™
853 CAN	An Introduction to CANopen
854 BUS	CAN Do, Will Do 1: CAN Bus basics
855 BHO	CAN Do, Will Do 2: Hands-on CAN class
856 ECN	ECAN Hands-On
857 TCP	Connectivity Solutions for the dsPIC30F

858 USB	Introduction to Full-Speed USB
859 RSC	Communicate with PIC MCUs via the PC serial port
860 STP	Stepping Motor Fundamentals and Control
861 BSH	Low Cost DC Brushed Motor Control
862 TRK	Tips and Tricks of Driving a Motor
863 MTR	Motor control Hands-on using PIC18Fxx31 Microcontrollers
864 ACI	AC Induction Motor Control with the dsPIC30F
865 FAB	Plant Tour

[Tradmarks and Disclaimers]

©Copyright 2004 Microchip Technology Inc.