

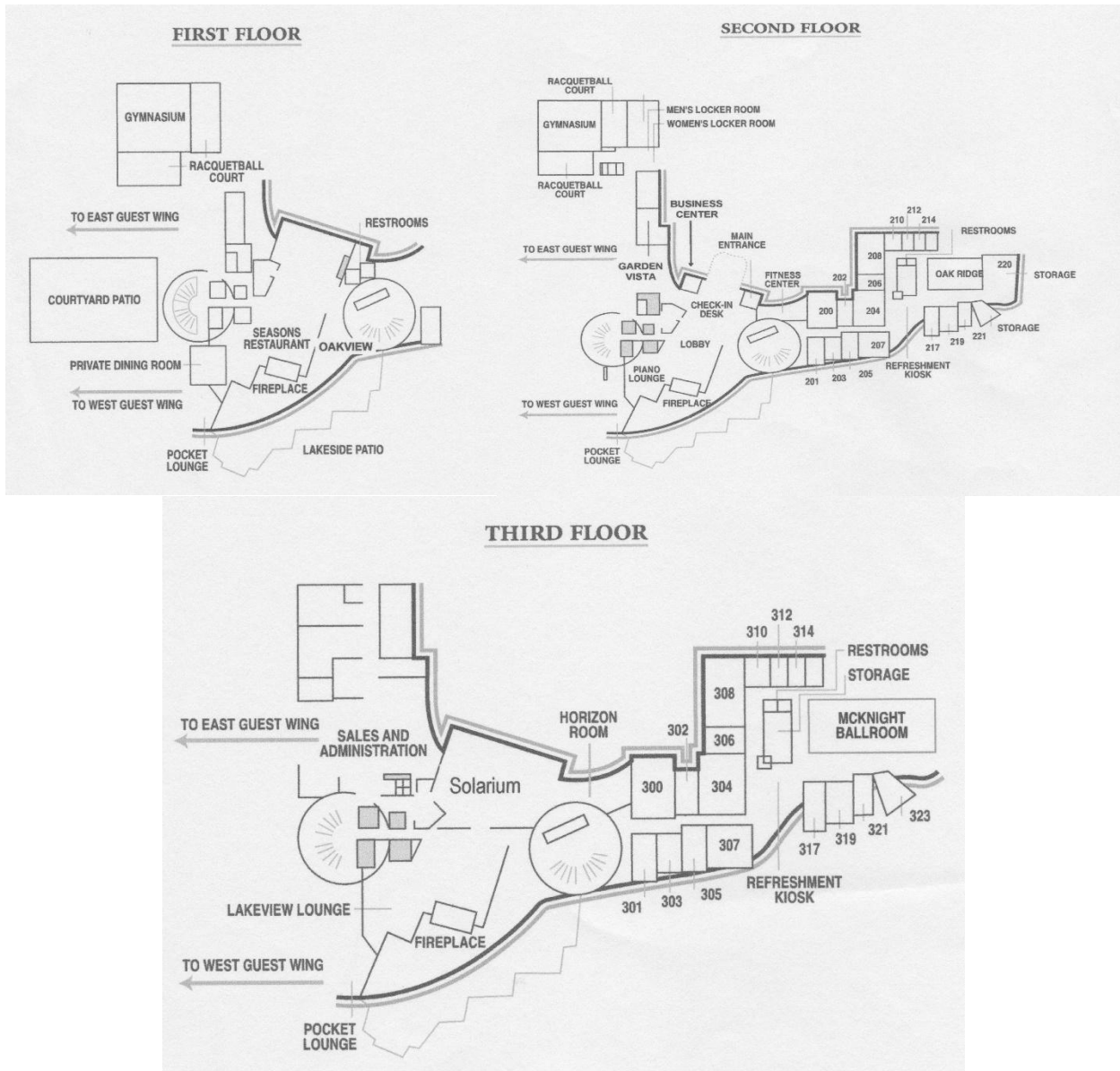
NovoRoi Systems, LLC

Novo User Group Meeting 2018 Agenda

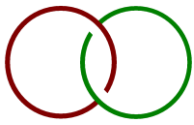
October 7 - 12th - Oak Ridge Hotel & Conference Center - Chaska, MN

Sunday, October 7 Welcome to NUGM 2018	
11:00 - 4:00	NUGM Golf Outing
3:00 - 5:00	NUGM Check-in -Lobby Pick up your credentials and conference materials
5:30 -6:30	Welcome Reception - Sponsored by I/O Data Systems & TTK Solutions Group Piano Lounge
6:30 -8:00	Dinner - Seasons Restaurant

*Dinner each night is for overnight conference guests and for day conference guests who have made a reservation. Please see Diane Miller for a reservation



Oak Ridge Hotel & Conference Center, 1 Oak Ridge Drive Chaska, MN 55318



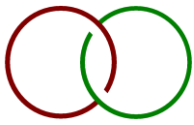
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Novo User Group Meeting 2018 Agenda

October 7 - 12th - Oak Ridge Hotel & Conference Center - Chaska, MN

Monday, October 8 NUGM 2018: Conference Sessions

6:30 - 8:30	Breakfast Buffet - Seasons Restaurant		
8:00 a.m. - 4:00 p.m.	Vendor Exhibitions - McKnight Hallway/3rd Floor Kiosk		
8:30 -9:20	Welcome Address - McKnight A Trey Miller, NovoRoi Systems		
	McKnight A	McKnight B	Room 307
9:30 -10:20	New Capabilities in Manage 2000 8.1 SP2 Doug Farmer & Peter Newby, Epicor Software	Using Schema Exit Subroutines Trey Miller, NovoRoi Systems	Prelude Presentation Getting the Most from Prelude TJ White, Massco
10:30 -11:20	Advanced NovoMotion Team Novo	Navigation Basics Linda McHenry, LJM Services	Vendor Presentation Demonstration of Basic Features of MVON# Using Prelude Grant Hart & Perry Stauffer, ONgroup Intl.
11:30 -12:30	Lunch - Seasons Restaurant		
12:30 -1:20	NovoNexus and Manage 2000 System Administration Marc Harbeson, NovoRoi Systems	Correcting GL Posting Errors Vicki Gabler	Vendor Presentation Leveraging Virtualization to Prevent Your Worst Day Imaginable Kevin King, Precision Solutions
1:30 -2:20	Programming Tips for Interfacing Manage 2000 with Microsoft Windows Doug Farmer, Epicor Software	Intro to Bills, Routings, and Work Centers Lane Johnson, Carter Day International	Prelude Presentation UniData / Linux Tips TJ White, Massco
2:30 -3:00	Break - 3 rd Floor Refreshment Kiosk		
3:00 -3:50	BCI Quarantine Debugging Jeremy Wallender, WCCO Belting & Trey Miller, NovoRoi Systems	Getting Help in Manage 2000 Linda McHenry, LJM Services	Vendor Presentation Disaster Recovery - Are We As Prepared As We Think We Are? Kevin King, Precision Solutions
4:00 -4:50	Using UniObjects and Microsoft .NET to Access Manage 2000 Data Doug Farmer, Epicor Software	Commissions in Manage 2000 Vicki Gabler	Vendor Presentation Real-Time Storefront, Portal, Forms, Sales Tax, and Credit Card Solutions for M2K Paul Batten, AdvancedWare
5:30 -6:30	Cocktail Hour - Solarium		
6:30 -8:00	Dinner - Seasons Restaurant		



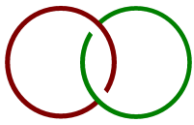
NovoRoi Systems, LLC

Novo User Group Meeting 2018 Agenda

October 7 - 12th - Oak Ridge Hotel & Conference Center - Chaska, MN

Tuesday, October 9 NUGM 2018: Conference Sessions

6:30 - 8:30	Breakfast Buffet - Seasons Restaurant		
8:00 a.m. - 4:00 p.m.	Vendor Exhibitions - McKnight Hallway/3rd Floor Kiosk		
	McKnight A	McKnight B	Room 307
8:30 - 9:20	PWS Function Development Standards, Patterns and Techniques Peter Newby, Epicor Software	Microsoft SQL Server Reporting Services (SSRS) Marc Harbeson, NovoRoi Systems	Prelude Presentation Connecting the Dots-Past, Present & Future of Prelude Connectivity TJ White, Massco
9:30 - 10:20	Security in Manage 2000: Tools to Set Up, Monitor and Report on Security Definitions Doug Farmer & Bud Brown, Epicor Software	FORM.BUILD Customization: Example - SHIPLISTS Joanne Eckenrode, NovoRoi Systems	Vendor Presentation Streamline Manage 2000 Data Analysis Workflows w/ Informer Doug Leupen, Entrinsik
10:30 - 11:20	CRP Overview Lane Johnson, Carter Day International	NovoMotion: How to Speed Up Multiple Set (IPL) Files Marc Harbeson, NovoRoi Systems	Vendor Presentation PRC Software - Lifecycle Management in the Time of Threats and Audits Susan Joslyn, SJ+ Systems Associates
11:30 - 12:30	Lunch - Seasons Restaurant		
12:30 - 1:20	Set Up Dynamic Routings and Install Forms Macros in Laser Jet Printers Doug Farmer & Bud Brown, Epicor Software	How to Configure Manage 2000 Linda McHenry, LJM Services	Prelude Presentation Finding and Correcting Bad Data Diane Luter, Salem Distributing
1:30 - 2:20	Manage 2000 Wizard Panel and Epicor Manage 2000 Q & A - McKnight A		
2:30 - 3:00	Break - 3 rd Floor Refreshment Kiosk		
3:00 - 3:50	Web Function Development Standards, Patterns and Techniques Peter Newby, Epicor Software	Complex Data Exports for Sub-valued Sets in NovoMotion Stephanie Benoit, JSJ Corp, & Trey Miller, NovoRoi Systems	Vendor Presentation Cybersecurity in 2018: The Hits Just Keep on Coming! Susan Joslyn, SJ+ Systems Associates
4:00 - 4:50	Cycle Count Marc Harbeson, NovoRoi Systems	SOP Pricing & Discounts Vick Gabler	Prelude Presentation Training Practices for New Employees David Kyles, EPKO/MDC Wallcoverings
5:30 - 6:30	Cocktail Hour - Lakeside Patio		
6:30 - 8:00	Dinner - Lakeside Patio		



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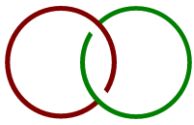
Novo User Group Meeting 2018 Agenda

October 7 - 12th - Oak Ridge Hotel & Conference Center - Chaska, MN

Wednesday, October 10 NUGM 2018: Conference Sessions

6:30 - 8:30	Breakfast Buffet - Seasons Restaurant		
8:00 a.m. - 12:00 p.m.	Vendor Exhibitions - McKnight Hallway/3rd Floor Kiosk		
	McKnight A	McKnight B	Room 307
8:30 - 9:20	Showdown at the B.I. Corral James Taylor, Circle Pi Creative	IEP: Intro and Rules Joanne Eckenrode, NovoRoi Systems	Vendor Presentation Demonstration of Advanced Features of MVON# Grant Hart & Perry Stauffer, ONgroup Intl.
9:30 - 10:20	Master Agent Overview Marc Harbeson, NovoRoi Systems	Exploring the Manage 2000 Database: Tools and Techniques for Finding Your Data Doug Farmer, Epicor Software	Prelude Presentation Modernization Options for Prelude Prelude Users
10:30 - 11:20	Repetitive Processing with Novo Ryan Farnsworth, A&E Incorporated	UniQuery Primer Linda McHenry, LJM Services	Prelude Presentation Amazingly Useful IT Support Tools TJ White, Massco
11:30 - 12:30	Lunch - Seasons Restaurant		
12:30 - 1:20	MRP Overview Joanne Eckenrode & Marc Harbeson, NovoRoi Systems	Introduction to Python with Manage 2000 Peter Newby, Epicor Software	Prelude Presentation Pricing and Profitability - Maximum Profit/Minimal Effort Bob Hawkes, Griffin Greenhouse Supplies
1:30 - 2:20	Work Order & Repetitive Processing Overview Joanne Eckenrode, NovoRoi Systems	SQL Programming Tips James Taylor, Circle Pi Creative Marc Harbeson & Trey Miller, NovoRoi Systems	Vendor Presentation Precision Solutions: Peering into the Future Kevin King, Precision Solutions
2:30 - 3:00	Break - 3rd Floor Refreshment Kiosk		
3:00 - 3:50	Dealing with Multi-Loc Inventory Joanne Eckenrode & Marc Harbeson, NovoRoi Systems	ASSIGN.AUDIT.CTRL, and the REPORT.BUILD Report to Display Trey Miller, NovoRoi Systems	Prelude Presentation Sharing Is Caring: Modifications to Prelude TJ White, Massco
4:00 - 4:50	Closing Comments on NUGM Conference Sessions and General Discussion McKnight A		
5:30 - 6:30	Cocktail Hour - Lakeview Lounge		

6:30 - 8:00	Dinner - Seasons Restaurant (Overnight Package Interactive Lab Attendees)		
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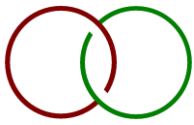


NovoRoi Systems, LLC

Novo User Group Meeting 2018 Agenda

October 7 - 12th - Oak Ridge Hotel & Conference Center - Chaska, MN

Thursday, October 11 NUGM 2018: Interactive Labs		
	Room 300	Room 304
7:00 - 8:00	Breakfast Buffet - Seasons Restaurant	
8:00 - 12:00	NovoFusion: Bringing Data Into UniData Trey Miller, NovoRoi Systems	Advanced ECA Joanne Eckenrode, NovoRoi Systems
12:00 - 1:00	Lunch - Seasons Restaurant	
1:00 - 5:00	Manage 2000/NovoMotion Admin Marc Harbeson, NovoRoi Systems	Power Building in Manage 2000 Linda McHenry, LJM Services
5:30 - 6:30	Cocktail Hour - Lakeview Lounge	
6:30 - 8:00	Dinner - Seasons Restaurant	
Friday, October 12 NUGM 2018: Interactive Labs		
	Room 300	Room 304
7:00 - 8:00	Breakfast Buffet - Seasons Restaurant	
8:00 - 12:00	SQL Server Analysis Services (SSAS) and SQL Server Integration Services (SSIS) Marc Harbeson, NovoRoi Systems	PWS Function Programming Skills Peter Newby, Epicor Software
12:00 - 1:00	Lunch - Seasons Restaurant	
1:00 - 5:00	MASTER AGENT vs. BATCH MASTER and SESC with MASTER AGENT Marc Harbeson, NovoRoi Systems	SCREEN.BUILD MT420: Function Building Trey Miller, NovoRoi Systems



Monday, October 8th - NUGM Conference Sessions

8:30 – 9:20 **Welcome Address - McKnight A**
Trey Miller, NovoRoi Systems

9:30 – 10:20 **New Capabilities in Manage 2000 8.1 SP2 - McKnight A**
Doug Farmer & Peter Newby, Epicor Software

Manage 2000 release 8.1 is available for installation. Release 8.1 includes features that enable mapping, PDF printing and web access, including the ability to access Manage 2000 on hand-held devices. This session is an overview of these new features and a discussion on the reasons to invest in upgrading your software. We will also highlight product enhancements included in 8.1 service pack 2, which is currently available, and talk a little bit about the work in process that will be delivered as service pack 3.

9:30 – 10:20 **Using Schema Exit Subroutines - McKnight B**
Trey Miller, NovoRoi Systems

A little known aspect of the NovoMotion Schema system is the ability to call out to user exit subroutines before and after the creation of the schema data matrix for transmission to SQL databases. This gives an advanced developer the opportunity to trap data and variable state for advanced interfacing purposes. This session is a general overview of this very technical use for the NovoMotion schema system.

9:30 – 10:20 **Prelude Presentation: Getting the Most from Prelude - Room 307**
TJ White, Massco

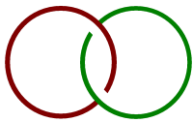
In this open discussion, we will be discussing tips and tricks that everyone uses to get the most from their Prelude system. Some items slated to be discussed include Vendor Managed Inventory, Deposits on Orders, Vendor Rebates, and some finer points of the Warehousing module.

10:30 – 11:20 **Advanced NovoMotion - McKnight A**
Team Novo

NovoMotion has grown into a toolset which provides an integral service to the larger problem of data reporting and data management outside of the U2 Multi-valued environment. This session will demonstrate advanced features of the NovoMotion toolset that the average user might not be aware of yet, such as the effective use of @ functions to replace the need for I-descriptors and data required for insert Boolean concepts to control delivery of data to SQL. Plus more!

10:30 – 11:20 **Navigation Basics - McKnight B**
Linda McHenry, LJM Services

Whether you are new to Manage 2000, need to refresh your knowledge of basic navigation or want to see what's new in 8.1, this session is for you. We will cover topics related to navigating the Menu System, PWS Functions and Web Functions, as well as how to use features that are unique to Manage 2000 such as Backslash Commands, the EOTViewer, Cross-Referencing and the EpiEditor.



Monday, October 8th

10:30 - 11:20 Vendor Presentation: Demonstration of Basic Features of MVON# Using Prelude as an Example - Room 307

Grant Hart & Perry Stauffer, ONgroup Intl

This session is for users of Prelude applications. You will see Prelude on multiple database types (SQL Server, MongoDB and UniData). You will see how you can extend your Prelude application with .NET (CLR-Compliant) languages, such as C# and Python.

12:30 - 1:20 NovoNexus and Manage 2000 System Administration - McKnight A

Marc Harbeson, NovoRoi Systems

Both NovoNexus and Manage 2000 require regular administrative maintenance to keep them running smoothly and efficiently. Marc will run through maintenance tasks every system administrator should be doing for both NovoNexus and M2k. In addition, he will cover fundamental setup and administrative functions that will enhance the user experience and provide for effective operation of the NovoNexus Warehouse Management System, such as Security Build, Menu Build, user setup, printer setup, and troubleshooting. Whether you are a NovoWMS user or are thinking of becoming one, come see the administrative configurations available within the Novo Warehouse Management software.

12:30 - 1:20 Correcting GL Posting Errors - McKnight B

Vicki Gabler

General Ledger posting errors do occur, and when they do it is critical for good financial stability that these errors are corrected properly. Various accounting errors require varying methods of analysis in order to first determine the exact cause of the error and secondly to inject the proper washing transactions to all affected accounts. Vicki Gabler is expert in these analysis methods and this session will lay out some critical steps in order to correct the demonstrated posting error conditions.

12:30 - 1:20 Vendor Presentation: Leveraging Virtualization to Prevent Your Worst Day Imaginable - Room 307

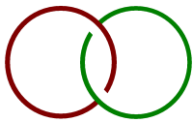
Kevin King, Precision Solutions

What do you do when everything falls over and your data-crunching, business-running database turns into a very expensive doorstop? In this session we'll talk about leveraging virtualization to prepare for disaster recovery and how to pick up some virtualization skills of your own (for the low, low price of free, of course)!

1:30 - 2:20 Programming Tips for Interfacing Manage 2000 with Microsoft Windows - McKnight A

Doug Farmer, Epicor Software

Using PWS 2014, a programmer can leverage applications and data in the Microsoft Windows world without leaving the comfort of the UniBasic environment. New Manage 2000 functions make communicating with Windows easy. Unleash the power of Windows in a UniBasic environment.



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Novo User Group Meeting 2018 Agenda

October 7 - 12th - Oak Ridge Hotel & Conference Center - Chaska, MN

Monday, October 8th

1:30 - 2:20 **Intro to Bills, Routings, and Work Centers - McKnight B**

Lane Johnson, Carter Day International

The basic building blocks of any ERP system are the parts in a Bill of Material. The methods for assembling the parts into the Bills are described by the shop Routing. The points of operation in the shop where work is performed are the Work Centers. This session is an introduction to Manage 2000's methods for dealing with these basic manufacturing concepts as laid bare by Lane Johnson. Lane draws from over 30 years of experience with the Manage 2000 system in order to give participants the broadest sense of the Manage 2000 capabilities.

1:30 - 2:20 **Prelude Presentation: UniData / Linux Tips - Room 307**

TJ White, Massco

Let's talk about resolving hung user sessions and different approaches to logging people off of the system, some fantastic Linux commands that every Linux admin needs to know, how to share Windows resources with Linux systems with remote mounted drives, and the joys of UniData integrity checking and error correction.

3:00 - 3:50 **BCI Quarantine Debugging - McKnight A**

Jeremy Wallender, WCCO Belting & Trey Miller, NovoRoi Systems

NovoMotion just works. When it works well, you needn't give it a second thought; however, when there are issues the quarantined records need investigation. The means for investigating the various SQL and ODBC errors trapped in the BCI.QUARANTINE file are explored in this session by user use cases provided by Jeremy Wallender of WCCO Belting. A modicum of UniQuery knowledge is required to perform these investigations. Jeremy and Trey will give you a good crib sheet for investigating and correcting many of these error conditions.

3:00 - 3:50 **Getting Help in Manage 2000 - McKnight B**

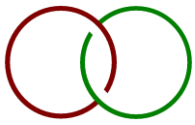
Linda McHenry, LJM Services

Manage 2000 has an extensive, built-in Hierarchical Learning System which can be leveraged by users--both old and new. Come to this session to learn more about finding help, how-to guidance and training topics for whatever you need.

3:00 - 3:50 **Vendor Presentation: Disaster Recovery - Are We As Prepared As We Think We Are? - Room 307**

Kevin King, Precision Solutions

In this open discussion, we'll discuss what everyone is doing for disaster recovery (DR) and consider best practices for testing your DR plan to ensure that when the worst happens, you can be back in business in short order.



Monday, October 8th

4:00 – 4:50 Using UniObjects and Microsoft .NET to Access Manage 2000 Data - McKnight A
Doug Farmer, Epicor Software

Through UniObjects, UniData provides a complete .NET framework to allow a program written in Visual Basic or C# to interact with the UniData database and programming environment. For a programmer who wants to know every bit of information traveling back and forth at the micro level, UniObjects methods and objects are for them. The rest of us would like to stay away from that environment and use friendly routines to do our work. This session covers the Manage 2000 extensions to UniObjects and how to use UniObjects to run UniBasic subroutines to read and write data on the Manage 2000 server.

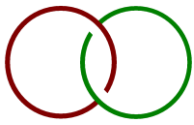
4:00 – 4:50 Commissions in Manage 2000 - McKnight B
Vicki Gabler

The Manage 2000 sales order system is actually quite broad in terms of business sales capabilities. This is due in part to a protracted effort of client funded development driving industry requirements. As a result, there are a number of extremely useful sales tools in the M2k product which can meet the complex needs of a sales force effort. For instance, the world of sales commissions is multi-layered and varied for any given sales force. In this session, Vicki Gabler will cover the intricacies of commission setup, reporting and payments to the reps. Vicki draws back the covers on these important operations and exposes the powerful business functionality of sales commissions as only she can.

4:00 – 4:50 Vendor Presentation: Real-Time Storefront, Portal, Forms, Sales Tax, and Credit Card Solutions for M2K - Room 307
Paul Batten, AdvancedWare

Summary: AdvancedWare Corporation has been an Epicor Partner for over 10 years and has developed a number of solutions integrated in Real-Time with MANAGE 2000. In this session we will cover the following:

1. Storefront (AWWebStore): AWWebStore will enable your Customers (B2B and B2C) and Employees (on behalf of Customers) to purchase your products via your web site. Orders, Customer Specific Pricing, etc is all Real-Time integrated with M2K. AWWebStore is written in .NET and works on Smartphones and Tablets as well.
2. Portal (AWWebPortal): AWWebPortal will enable your Customers and Employees (on behalf of Customers) to view Real-Time M2K information via your web site. Sales Order Status, Shipment Information, Invoices/Statements, and RMA Tracking are all provided with AWWebPortal. AWWebPortal is written in .NET and works on Smartphones and Tablets as well.
3. Electronic Forms (AWForms): With AWForms your M2K System will be producing the most advanced and professional forms possible. Forms can be Emailed in PDF or Word formats, Printed, Automatically Archived, and/or faxed. Barcodes (39, 128, UPC, 2 Dimensional) on the Forms and Barcoded labels are a snap with AWForms. Looking to produce Customer Specific Labels - handled easily with AWForms.



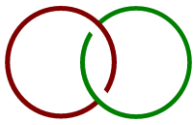
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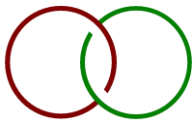
Monday, October 8th

4. Automatic Sales Tax (AWSalesTax). AWSalesTax fully automates the Sales Tax process for M2K. When entering Orders in M2K, AWSalesTax automatically creates the needed codes (with the correct percentages). AWSalesTax also re-verifies the rates at the time of Invoice. With AWSalesTax you don't need to pre-load or maintain any tables on your system because AWSalesTax uses Real-Time Web Services Technology to calculate the taxes.
5. Credit Card processing (AWCreditCard). When entering Orders in M2K, AWCreditCard will automatically validate the Card Information and perform the Authorization Transaction (reserves the funds) for the amount of the Order. When you Invoice in M2K, AWCreditCard automatically charges the Card for the actual Invoice amount. Note: This is accomplished without storing any Credit Card information which is important for PCI Compliance.



Tuesday, October 9th - NUGM Conference Sessions

- 8:30 – 9:20 PWS Function Development Standards, Patterns and Techniques - McKnight A**
Peter Newby, Epicor Software
- Ever wonder why paragraphs exist in Manage 2000 instead of just writing programs, why paragraphs are not just stored directly in the VOC instead of being dereferenced through remote voc pointer entries, or why does SCREEN.BUILD exist? And why do I need to call all of these 'Tools' subroutines and invoke secret pre-compiler code instead of just writing programs directly out of the UniData Programming commands reference? In this session we will explore how Manage 2000 PWS oriented software ought to be written and why.
- 8:30 – 9:20 Microsoft SQL Server Reporting Services (SSRS) - McKnight B**
Marc Harbeson, NovoRoi Systems
- This session continues to be a fan favorite. The session will focus on Microsoft's SQL Server Reporting Services. The latest versions of SSRS, in the Microsoft SQL Server product, offer the developer a wide range of reporting options, and Marc will utilize data recently exposed with NovoMotion to demonstrate these powerful features.
- 8:30 – 9:20 Prelude Presentation: Connecting the Dots - The Past, Present & Future of Prelude Connectivity - Room 307**
TJ White, Massco
- In this session we'll discuss options for connecting to Prelude. We'll talk about other terminal emulators like AccuTerm and Anzio, and discuss tools and techniques for exporting information from Prelude and importing information into Prelude.
- 9:30 – 10:20 Security in Manage 2000: Tools to Set Up, Monitor and Report on Security Definitions - McKnight A**
Doug Farmer & Bud Brown, Epicor Software
- In this new world of hackers, Sarbanes–Oxley, internet trolls, etc., security takes on a bigger and bigger presence. This overview of security procedures and best practices will help keep your data safe. New tools are available to help with the setup and execution of security. PWS Functions and Web pages are both covered.
- 9:30 – 10:20 FORM.BUILD Customization: Example - SHIPLISTS - McKnight B**
Joanne Eckenrode, NovoRoi Systems
- This session is an overview of FORM.BUILD and FORM.FIELDS processes with simple customization examples. Beginning users and intermediate users who are tasked with the issue of creating standardized print forms in the Manage 2000 product will appreciate this session. Joanne Eckenrode brings her considerable experience to explain the basic uses of the M2k forms building tools.



NovoRoi Systems, LLC

Novo User Group Meeting 2018 Agenda

October 7 - 12th - Oak Ridge Hotel & Conference Center - Chaska, MN

Tuesday, October 9th

9:30 - 10:20 **Vendor Presentation: Streamline Manage 2000 Data Analysis Workflows with Informer - Room 307**

Doug Leupen, Entrinsik

Entrinsik has been offering information management solutions to organizations using MultiValue systems for over 30 years. With Informer, businesses using Manage 2000 alongside other data sources can aggregate disparate data using a single platform to create a cohesive, curated, governed data hub for self-service data analysis and collaboration within and across departments. Business users, data analysts and IT staff can generate reports and dashboards that consolidate real-time data to track and analyze key performance metrics. Modernize your ERP reporting and data analytics without losing the investment in your system. See how.

10:30 - 11:20 **CRP Overview - McKnight A**

Lane Johnson, Carter Day International

Capacity Resource Planning (CRP) is an underutilized aspect of the Manage 2000 manufacturing system. Users know that M2k is an extremely versatile production planning and procurement system, but not everyone realizes that the results of the planning processes can produce extremely useful data concerning the shop load capacity. Understanding shop capacity and constraints is critical to streamlining and enhancing shop efficiencies. In this session Lane Johnson explains his unique and creative approach to reporting and analyzing this very useful set of data. If you have questions or interest in streamlining shop workflow processes, do not miss this session.

10:30 - 11:20 **NovoMotion: How to Speed Up Multiple Set (IPL) Files - McKnight B**

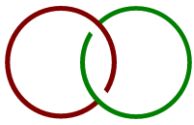
Marc Harbeson, NovoRoi Systems

The Inventory Planning (IPL) file in Manage 2000 is a tricky animal in terms of data files. The primary issues arise from the fact that the IPL is both a master data file and an inventory transaction file. It is a master data file when it holds important item data like Engineering_Status. It is a transactional file when it holds various inventory totals for requirements planning and Material Resource Planning (MRP) processes. This two-fold use makes the IPL an extremely busy file as well as very challenging in terms of real-time interface to SQL with NovoMotion. Marc Harbeson details a particular project approach with can dramatically speed up the data delivery processes.

10:30 - 11:20 **Vendor Presentation: PRC® Software Lifecycle Management in the Time of Threats and Audits - Room 307**

Susan Joslyn, SJ+ Systems Associates, Inc.

Built in and for the MultiValue/U2 environment, PRC can take a company from chaos to compliance in days while providing robust tools to make everything easier. Happy auditors, happy programmers, happy users.



Tuesday, October 9th

12:30 - 1:20 **Set Up Dynamic Routings and Install Forms Macros in Laser Jet Printers - McKnight A**

Doug Farmer & Bud Brown, Epicor Software

Every year we hear we are going to a paperless society. Every year, we buy reams of paper! No longer content to print on plain paper, Manage 2000 can send a macro to the printer to serve as a background form. Don't want to print at all and hoping to go paperless? The dynamic router option in SPE may be for you. Save, fax, email, or create PDF's, all from a report that was originally meant to go to the printer.

12:30 - 1:20 **How to Configure Manage 2000 - McKnight B**

Linda McHenry, LJM Services

Find out how to get the most from PWS (Personal Work Station) and the Manage 2000 Web Functions by employing the many built-in options to personalize and configure the user's environment.

12:30 - 1:20 **Prelude Presentation: Finding and Correcting Bad Data - Room307**

Diane Luter, Salem Distributing

While it doesn't happen often, sometimes bad things happen and chaff data is left behind. Join Diane as she talks about a recent incident she had with a TDF sync and how she worked with Epicor support to get it resolved. Bring your own stories for discussion!

1:30 - 2:20 **Manage 2000 Wizard Panel and Epicor Manage 2000 Q & A - McKnight A**

NovoRoi Systems and Epicor Development Experts

The Manage 2000 development team and Team Novo are on hand in an open forum atmosphere to try to answer questions you have regarding capabilities in the Epicor iSolutions and NovoRoi Systems software products. The Epicor Development team will be available to answer past, present, and future development circumstances with Epicor iSolutions products, including Manage 2000. Our panel will attempt to answer all questions, or work to get an answer to you as soon as possible. Don't miss this opportunity to meet the panel face to face. All participants can be on deck for questions and answers in an open, sharing format.

3:00 - 3:50 **Web Function Development Standards, Patterns and Techniques - McKnight A**

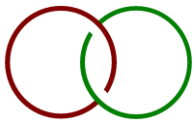
Peter Newby, Epicor Software

Why don't Manage 2000 Web Functions behave like other Visual Studio projects? How do all the Manage 2000 Tools features get into my .Net code? What do .Net ADO Datasets have to do with Manage 2000 Business Objects? In this session we will explore how Manage 2000 web functions ought to be written and why.

3:00 - 3:50 **Complex Data Exports for Sub-valued Sets in NovoMotion - McKnight B**

Stephanie Benoit, JSJ Corp & Trey Miller, NovoRoi Systems

The sub-value is typically the most complex data in the M2k database. The UniData file system has attributes which equate to SQL columns and within those attributes are multiple values (multi-values) which equate to SQL rows. The problem arises in that SQL Server only



Tuesday, October 9th

deals in two-dimensional tables where UniData deals in three dimensional cubes. Inside the multi-value of UniData there can be sub-values. Now do these sub-values relate to more rows in SQL or do they relate to a separate table altogether? Stephanie Benoit of JSJ Corp gives real user examples in dealing with this sticky problem and Trey Miller will show some interesting ways the NovoMotion product can make the problem manageable.

3:00 - 3:50 **Vendor Presentation: Cybersecurity in 2018 - The Hits Just Keep on Coming! - Room 307**

Susan Joslyn, SJ+ Systems Associates, Inc.

An overview of threats, risks and compliance that every human should understand, and the duty of IT on the frontlines.

4:00 - 4:50 **Cycle Count - McKnight A**

Marc Harbeson, NovoRoi Systems

Inventory control is an important part of every ERP system. If a planning system does not have good inventory on hand valuations, then the system is suspect for everything from daily plans to inventory accounting valuations. Having exact inventory counts is absolutely critical to any ERP system and Manage 2000 is no exception. M2k has designed its Cycle Count module to answer the need for exact inventory counts and preclude the necessity to do expensive annual Physical Inventory (PI) processes. Marc Harbeson explains the use and incredible time saving capabilities that can be realized with a well-run cycle counting procedure. A simple contrast of Cycle Count by location versus Cycle Count by item will be included in this session.

4:00 - 4:50 **SOP Pricing & Discounts - McKnight B**

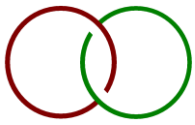
Vicki Gabler

The Manage 2000 sales order system utilizes a number of means to price finished good products. Individual catalog prices, special prices and special discount pricing are all available and useful in interchanging circumstances within the Sales Order Processing (SOP) module. The trick is knowing when to use one approach over another and how to keep pricing properly updated to maximize income margins for the company. These are critical operations and they can have large impact on the business bottom line, so getting it right is crucial. Vicki Gabler is the developing software engineer behind many of these pricing modes and methods. No one knows this system like Vicki and we encourage any user who wants to understand M2k pricing to seize this opportunity to get instruction directly from the foremost expert on the subject.

4:00 - 4:50 **Prelude Presentation: Training Practices for New Employees - Room307**

David Kyles, EPKO/MDC Wallcoverings

Bring your experiences to this open discussion to share and learn what others have done with training new employees to ensure they hit the ground running and can be productive in the Prelude environment as quickly and efficiently as possible.



Wednesday, October 10th - NUGM Conference Sessions

8:30 – 9:20 Showdown at the B.I. Corral - McKnight A
James Taylor, Circle Pi Creative

Business intelligence projects are plagued with higher failure rates than one would expect. In this session we will briefly examine a case study to explore why business intelligence projects fail and what we can do differently to increase the odds of success. Next we will evaluate tools and techniques available to support successful BI projects and then conclude with a practical demonstration bringing together the elements of the discussion.

8:30 – 9:20 IEP: Intro and Rules - McKnight B
Joanne Eckenrode, NovoRoi Systems

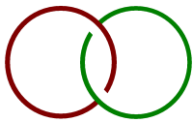
IEP has renewed serviceability for reporting requirements since recent Manage 2000 tools changes allow IEP results to be displayed in the EOT viewer. When speed is an issue, IEP often provides a faster option for your reporting needs. Explore setup and debugging capabilities within the IEP module with Joanne Eckenrode. Joanne brings her years of experience to the session for display and discussion of the advanced IEP functionality which is useful for 21st century reporting requirements.

8:30 – 9:20 Vendor Presentation: Demonstration of Advanced Features of MVON# - Room 307
Grant Hart & Perry Stauffer, ONgroup Intl

Watch a demonstration of advanced features of MVON#, such as instant failover, horizontal scaling, application profiling and for whatever else we have time and interest.

9:30 – 10:20 Master Agent Overview - McKnight A
Marc Harbeson, NovoRoi Systems

The Manage 2000 Master Agent system replaces Batch Master and Delayed Job Stream automation, adds the capability to launch jobs from the powerful ECA subsystem in M2k, plus more! The modern Master Agent control system can perform significantly more than simple job automation. The scheduling and control mechanisms in the Master Agent system are numerous and complex. Marc Harbeson brings his expertise to this session in order to expose and explain the complexities of this highly configurable module. If you have a need to automate and control critical functions, without wanting to constantly monitor the system, then understanding Master Agent capabilities will be an invaluable part of your time-saving efforts.



Wednesday, October 10th

9:30 -10:20 **Exploring the Manage 2000 Database: Tools and Techniques for Finding Your Data - McKnight B**

Doug Farmer, Epicor Software

There are 85,000 data fields in the Manage 2000 data base contained in over 2,400 files. Looking for data can seem like Finding Nemo. Fortunately, Manage 2000 contains many tools to help narrow down your search. If you are not sure where to find the name of a manufacturer of a key piece of plant equipment, this will show you how to search for that and many more pieces of data.

9:30 -10:20 **Prelude Presentation: Modernization Options for Prelude - Room 307**

Prelude Users

“Modernization” is a big topic these days. Everyone wants something a little different. Come join this open discussion as we discuss options for putting a fresh face on the mighty power of Prelude.

10:30 - 11:20 **Repetitive Processing with Novo - McKnight A**

Ryan Farnsworth, A&E Incorporated

The Manage 2000 repetitive module was an answer to planning system theories that started as ‘zero inventory’ or ‘just-in-time’ inventory planning concepts. Recent manufacturing concepts that address these streamlining theories are frequently called LEAN procedures with a renewed focus on reducing waste. The M2k Repetitive processing module is designed to reduce reporting and process waste by streamlining work order sequence workflows in the shop; however, this necessarily means that some critical information, which would indicate shop efficiencies, has not been collected. Ryan Farnsworth brings his unique use of NovoMotion to the session and shows how M2k Repetitive processing systems can be greatly enhanced by utilizing creative and highly functional reporting systems of his own design.

10:30 - 11:20 **UniQuery Primer - McKnight B**

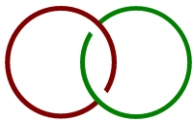
Linda McHenry, LJM Services

Explore the power and magic of UniQuery. The UniData query language can be utilized as a simple but powerful method to query the UniData database or it can be quite complex and extremely powerful in producing a full-featured reporting result. This session will cover a range of topics from basic usage to sophisticated queries such as Selecting, Transforming, and Exporting data. Join Linda McHenry in a comprehensive general survey of these important business features to UniData’s extremely powerful query tool.

10:30 -11:20 **Prelude Presentation: Amazingly Useful IT Support Tools - Room 307**

TJ White, Massco

Join TJ as he talks about some of the tools and web tools he uses every day to keep his IT ship upright and moving in the right direction..



NovoRoi Systems, LLC

Novo User Group Meeting 2018 Agenda

October 7 - 12th - Oak Ridge Hotel & Conference Center - Chaska, MN

Wednesday, October 10th

12:30 – 1:20 **MRP Overview - McKnight A**

Joanne Eckenrode & Marc Harbeson, NovoRoi Systems

Material Resource Planning (MRP) is a cornerstone of the M2k ERP system. There are planning codes at the system, order and individual part level, as well as planning lead times, planning fences and planning constants. In addition, there are dozens of methods for constructing, testing and operating complex planning systems in Manage 2000. This session is a good general overview for first-time users or a refresher course for experienced users, provided by Marc Harbeson and Joanne Eckenrode. These two are ready to meet and greet each and every one of you in order to answer all your planning questions.

12:30 – 1:20 **Introduction to Python with Manage 2000 - McKnight B**

Peter Newby, Epicor Software

Manage 2000 8.1 sp2 runs on UniData 8.2 which includes Python as a native language (on Windows). In this session you will see some of what that means from within PWS and from outside Manage 2000 looking in from the Python biosphere.

12:30 – 1:20 **Prelude Presentation: Pricing and Profitability - Maximum Profit with Minimal Effort - Room 307**

Bob Hawkes, Griffin Greenhouse Supplies

In this roundtable session we will discuss some of the problems everyone faces in terms of getting pricing from vendors, setting prices to customers, handling direct ship negotiated prices, and ensuring that you can get the most from your products with the least amount of work.

1:30 – 2:20 **Work Order & Repetitive Processing Overview - McKnight A**

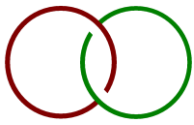
Joanne Eckenrode, NovoRoi Systems

This session will be a comprehensive overview designed to contrast traditional work order process with streamlined repetitive order process. Joanne Eckenrode will review the various ways to release work orders and the subsequent work order processing flow once the work orders are released to the floor. Then, the repetitive module workflow will be compared and contrasted with the normal work order workflow. This comparative analysis will naturally lead to discussion and exploration of the differences for distinct processing order environments. Users will be able to leverage Joanne's experience with M2k in order to determine best planning practices for their organization. Efficient utilization of work order or repetitive processing procedures can save organizations in terms of time, efficiency and eventually money. Don't miss this session to know which manufacturing order processes are right for your organization.

1:30 – 2:20 **SQL Programming Tips - McKnight B**

James Taylor, Circle Pi Creative; Marc Harbeson & Trey Miller, NovoRoi Systems

Contrary to popular opinion, Structured Query Language (SQL) was not invented by Microsoft to drive the SQL Server operations. Structured Query Language has been utilized to investigate Relational Data Base Management Systems (RDBMS) since the 1970s. Modern RDBMS which make use of this query language are Oracle, MySQL, and of course Microsoft SQL Server. In this session James Taylor, Marc Harbeson, and Trey Miller explain some basic



NovoRoi Systems, LLC

Novo User Group Meeting 2018 Agenda

October 7 - 12th - Oak Ridge Hotel & Conference Center - Chaska, MN

Wednesday, October 10th

and intermediate tips for dealing with SQL databases. The NovoMotion tool is an important solution for exposing UniData and building a SQL database in real-time. The tips the boys offer in this session will allow you to analyze and leverage that data quickly and effectively for any number of modern business reporting requirements.

1:30 – 2:20 **Vendor Presentation: Precision Solutions: Peering into the Future - Room 307**
Kevin King, Precision Solutions

Now in its 25th year, Precision Solutions has come a long way in building relationships with results, helping customers get the most value from their technology investments. Come peer into our crystal ball to see what's in store for the next 25.

3:00 – 3:50 **Dealing with Multiple - Location Inventory - McKnight A**
Joanne Eckenrode & Marc Harbeson, NovoRoi Systems

Multi-Loc in M2k is critical to many manufacturers who utilize the M2k system. The ability to keep and track various parts in specific locations is critical to many advanced manufacturing requirements. The allocation of multi-loc inventory and movement during manufacturing processes can be confusing and difficult to conceptualize. M2k experts Joanne Eckenrode and Marc Harbeson will break down the complexity of Multi-Loc processing in this session and make it understandable for general purpose and further discussion.

3:00 – 3:50 **ASSIGN.AUDIT.CTRL, and the REPORT.BUILD Report to Display - McKnight B**
Trey Miller, NovoRoi Systems

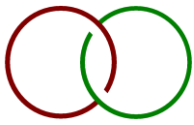
The Manage 2000 applications have the ability to turn on audit controls which track the changes to any data file when they are performed by M2k operations. There is a set of REPORT.BUILD features which gives an M2k administrator the ability to report on the changing values in these files. Trey Miller uses this session to give a demonstration of the audit control features and report building operations.

3:00 – 3:50 **Prelude Presentation: Sharing Is Caring: Modifications to Prelude - Room307**
TJ White, Massco

Bring your best ideas and greatest achievements to this session and let's see if it can help others!

4:00 – 4:50 **Closing Comments on NUGM Conference Sessions and General Discussion - McKnight A**
TeamNovo

As always, thank you so much for being a part of NUGM and making it what it is!



Thursday, October 11th - NUGM Interactive Labs

8:00 – 12:00 **NovoFusion: Bringing Data Into UniData - Room 300**

Trey Miller, NovoRoi Systems

The UniData database is extremely flexible for application programming. The various functionality and application system designs that users are familiar with is made possible in part by the versatility of the UniData multi-valued, nested database structure. With that realization in mind, the nature of the NovoMotion product is to open UniData up for real-time interface to a hierarchical structured database like SQL Server. Converse to that is the product NovoFusion, designed to bring structured data into the multi-valued nested environment. Simply dumping raw data into UniData is not enough, rules of engagement must be respected; a business rule layer is optimal but at the very least there must be system design to incorporate the associated, multi-valued structures. This lab is an exploration of those techniques utilizing the NovoFusion service. Attendees will be shown methods and techniques for building inbound data interfaces to UniData as well as best practices for using or crafting a proper business rule layer.

8:00 – 12:00 **Advanced ECA - Room 304**

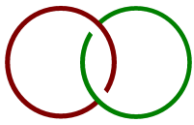
Joanne Eckenrode, NovoRoi Systems

This lab is a more advanced survey of the Manage 2000 Event, Condition, Action (ECA) module. Lab attendees will explore various examples of email notification actions using HTML in the body of an ECA form to send an invoice. Additionally, attendees will review several methods of using user-exit subroutines to leverage little known ECA variables that are extremely useful for programming operations, which will simplify complex programming efforts that might otherwise take days into a matter of hours. Further exploration will examine features of ECA administration, such as start, stop, options, debugging and truth results. Attendees will survey the ECA.TXNS and ECA.SCAN processes and gain an understanding of their uses. This lab session will present an invaluable, hands-on inspection of advanced ECA concepts for intermediate users and advanced users alike.

1:00 – 5:00 **Manage 2000/NovoMotion Admin - Room 300**

Marc Harbeson, NovoRoi Systems

Both Manage 2000 and NovoMotion have evolved into very stable data processing/ delivery systems. NovoMotion runs on UniData and is dependent upon that database as an operating repository even as it is processing the real-time UniData updates and making delivery to the associated external databases. It is critical to the NovoMotion system that UniData be properly administered and in good operating state in order to facilitate the most efficient delivery to SQL server systems. This hands-on lab is an exploration of the necessary administrative tasks that are critical to the smooth running of both Manage 2000 and NovoMotion. System expert Marc Harbeson will guide attendees as he demonstrates and explains the best practice techniques for optimal performance of Manage 2000 and NovoMotion with various hands-on use cases. For example, file-sizing, purging, maintenance schedules and tasks, etc. will be covered.



NovoRoi Systems, LLC

Novo User Group Meeting 2018 Agenda

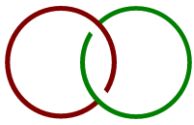
October 7 - 12th - Oak Ridge Hotel & Conference Center - Chaska, MN

Thursday, October 11th

1:00 - 5:00 **Power Building in Manage 2000 - Room 304**

Linda McHenry, LJM Services

Experience the power of the many BUILD function in Manage 2000. We will learn how to create custom files and functions using DICT.BUILD, create and modify screens in SCREEN.BUILD, create validation tables in TABLE.BUILD and TABLE.CTL.BUILD, organize functions using MENU.BUILD, and much more.



Friday, October 12th - NUGM Interactive Labs

8:00 - 12:00 SQL Server Analysis Services (SSAS) and SQL Server Integration Services (SSIS) - Room 300

Marc Harbeson, NovoRoi Systems

The Microsoft SQL Server database system standard edition comes complete with highly functional data processing and analysis tools. SSAS is a versatile data dimensional analysis system. SSIS is a highly configurable data processing system that handles a variety of data file structures. Lab attendees will use their own virtual machine environments in a guided tour through both of these versatile server systems. Attendees will gain an understanding of useable application cases for SSAS and SSIS processing. Systems expert, Marc Harbeson, will guide and explain how data imported to MS SQL from external data sources can be aggregated and analyzed in the Microsoft environment. SSIS will then be used to automate loading of the SSAS cubes. Attendees will leave this lab with an understanding and experience in leveraging both SSAS and SSIS in their own network environments.

8:00 - 12:00 PWS Function Programming Skills - Room 304

Peter Newby, Epicor Software

Practice writing event handlers for PWS function prompts and screens events. Learn how to integrate SUB.MT500 screen processing into your own mainline so that your users experience a standard Manage 2000 user interface, but you get to control all the processing of the user request.

1:00 - 5:00 MASTER AGENT vs. BATCH MASTER and SESC with MASTER AGENT - Room 300

Marc Harbeson, NovoRoi Systems

Manage 2000 BATCH.MASTER processing systems can be investigated and replaced with the more versatile MASTER.AGENT system. Marc Harbeson will lead individualized lab study in analyzing and breaking down BATCH.MASTER, DJS, and ECA jobs in order to redesign, replace, and potentially extend that functionality in the MASTER.AGENT system. In addition we will cover SESC schedules and all the different ways scheduling can be done with MASTER.AGENT.

1:00 - 5:00 SCREEN.BUILD MT420: Function Building - Room 304

Trey Miller, NovoRoi Systems

The Manage 2000 SCREEN.BUILD tool, in conjunction with the PROC pre-processing program MT420, comprises the basis of the M2k standard function system. Attendees to this lab will be given an individualized lab environment to investigate creation, alteration, and use of functions designed with SCREEN.BUILD. Lab exercises using the MT420 PROC processor will guide attendees with hands-on examples for building functions. The use cases explore function designs for data reporting, data processing with the logic of the MT420 scripting system. Trey Miller will instruct lab attendees with practical examples that will be transportable and immediately useful in home server environments.