

Configuration Management II Users Groups

CMII 2000

The 13th Annual Configuration Management II Conference

Radisson Hotel South and Plaza Tower, Bloomington, MN

June 4 - 7, 2000

Sponsored by

The Institute of Configuration Management

Arizona State University

CMII User Group Headquarters

Co-Hosted by

Guidant/CPI

Hutchinson Technology Inc.

The Minnesota CMII Users Group

Framatome Cogema Fuels

MERANT

Robbins-Gioia

System Technology Associates, Inc

CMII 2000 Detailed Agenda

Sunday June 4, 2000

3pm - 5pm: Early Registration

6pm - 8pm: Welcome Reception

Monday June 5, 2000

7am - 8am: Registration and Continental Breakfast – Garden Court, Radisson 1st Floor

8:00 - 8:15 Opening Remarks and Introductions

Presented by: Mr. Craig Senior, CSL Consulting, CMIIC, Conference Emcee and Past President of the Eastern Canada CMII Users Group

8:15 - 9:30 "CMII Overview"

The CMII Awareness session is an overview of how CMII fits into the activity of running a business. For those CM Professionals not familiar with CMII, this overview will aid in understanding a more effective and efficient approach to CM as practiced by CMII professionals. For those with CMII certification, the overview will provide an update of CMII principles previously learned and is of great value in introducing CMII principles to your management.

Presented by: Mr. Leo Clark, Institute of Configuration Management, BS, CMIIC

Assisted by: Mr. Craig Senior, CSL Consulting, CMIIC, Conference Emcee and Past President of the Eastern Canada CMII Users Group

9:30 - 10:00 "Best Practices in the decade of Speed"

Mr. McCoy has spent the last five years with MERANT in the Application Development Management business unit, helping to address customer's primary business requirements with the innovative use of information technology. MERANT's focus on customer solutions is based upon a framework called "e-gility". "e-gility" combines expertise, technology and best practices to provide Infrastructure Solutions and Enterprise Solutions in support of the new "e-business" environment.

Presented by: Mr. Kevin McCoy, Vice President Strategic Accounts, MERANT. Mr. McCoy previously held Sales and Sales Management positions with BORLAND International and NBI Automation Systems. Mr. McCoy holds a

Bachelor of Science Degree in Economics and Management from Centre College of Kentucky.

10:00 - 10:15 Morning Break

10:15 - 10:45 *"Marching Forward – CMII Implementation at Delphi Delco Electronics Systems – Lessons Learned as Theory is Applied to Reality"*

Delphi Delco Electronics Systems is one of the world's largest suppliers of automotive electronics products. Delphi-D is a complex global enterprise of multiple design centers, designing multiple product lines that feed a global network of manufacturing sites. Controlling the design definition in a "Design Anywhere – Build Anywhere" environment requires good CM to effectively and competitively deliver products throughout the whole product life cycle. Mr. Gilbert will discuss some of the challenges and lessons learned as CMII is being implemented at Delphi-D.

Presented by: Mr. William F. Gilbert is a Principle Technical Fellow at Delphi Delco Electronics Systems, Kokomo, Indiana – a Division of Delphi Automotive Systems. Bill's present focus is on Configuration Management implementation strategy. Bill is CMII Certified and has a BSEE degree from Purdue University and an MBA from Indiana University. He joined Delco Electronics in 1968 and has experience in automotive receiver systems including the design of receiver integrated circuits. He has also participated on industry committees that developed improved AM and FM broadcast standards. His recent assignments to improve the effectiveness of engineering design systems and tools led to the focus on CMII.

10:45 - 11:15 *"Priority Resolution, A Hidden Jewel of CMII"*

"Why have my priority problems disappeared since the implementation of CMII?"
"What are the two parameters we measure to keep changes on track and why have they worked?"

This presentation will answer these questions by examining a very powerful "fallout" from a CMII implementation.

Presented by: Mr. Doug Shelburne, Framatome Cogema Fuels, Manager CM Systems, BS, CMIIIC, and President of the Blue Ridge CMII Users Group

11:15 - 12:00 Keynote Speaker: *"Change...What the Fruit Fly and the Disk Drive Industry have in Common"*

If you want to understand why something happens in genetics you would study the fruit fly, because they are conceived, born, mature, and die in a single day. To understand what happens in business, the Disk Drive industry comes closest

to the fruit fly. A drive program will go from Concept, design lock, volume, and end of life in 18 months. During this time the suspension, the component that enables the read/write head to fly two millions of a inch over the recording disk, will be tooled, with changes at each stage of the life cycle, at a cost of \$2 million per program.

Presented by: Mr. Richard Myers, VP of Administration, Hutchinson Technology Inc. Richard C. Myers has been with Hutchinson Technology since 1977 and was elected Vice President in 1988. He has held the position of Vice President of Administration since November of 1994. Mr. Myers previously held the positions of Vice President of Sales & Marketing in 1988 and Director of Sales & Marketing in 1985. Prior thereto he held positions in manufacturing; three years as Director and five years as Manager. Mr. Myers came to Hutchinson Technology from northern California, where he spent 16 years in the printed circuit and hybrid electronics industry.

12:00 - 1:00 Luncheon - Veranda Ballroom, Radisson 2nd Floor

1:00 - 1:30 *"Simple and Compliant: Implementing CMII in a high-tech start-up"*

Medical device companies are under many regulations and directives to make sure their devices are safe and effective. This usually requires many levels of control and bureaucracy. In a high-tech start-up company, the drive is to get a product out quickly, before the funding dries up. Putting these both together presents many challenges. Implementing CMII at St. Croix Medical will show how information control can be both simple and compliant.

Presented by: Mr. Mark Rutkiewicz, Director of Engineering Services at St. Croix Medical. St Croix Medical is a start-up venture creating a totally implantable hearing restoration system. Mark has been with St Croix Medical since January. For the last thirteen years, Mark was with Guidant Corporation, where he became CMII certified. His last position at Guidant was the Manager in Project Development Services, where he worked on implementing CMII throughout the Cardiac Rhythm Management Division's Quality System. He has also held positions in supplier development, manufacturing, design and compliance.

1:30 - 2:00 *"CMII Compliant Software Tools"*

This presentation will describe ICM's process for evaluating the functionality of various software tools for accomplishing CM and certifying those that are CMII compliant. It shall describe what it means to be CMII compliant and the current status of those assessments and certifications.

Presented by: Mr. Vince Guess, Institute of Configuration Management, BSME, MBA, CMIIC. Vince is the President of ICM and Director of the University-sponsored CMII Certification program.

2:00 - 2:30 Afternoon Break

2:30 - 3:30 Interactive Tutorials: see Tutorial information below

3:30 - 5:00 Exhibitors: see Exhibitor information below

Tuesday June 6, 2000

7am - 8am: Registration and Continental Breakfast – Garden Court, Radisson 1st Floor

8:00 - 8:10 Tuesday Opening Remarks

Presented by: Mr. Craig Senior, CSL Consulting, CMIIC, Conference Emcee and Past President of the Eastern Canada CMIUG

8:10 - 8:30 *"A Look Forward- CMII in the University"*

Presented by: Professor Phil Wolfe, College of Engineering; Industrial and Manufacturing Systems Engineering, Arizona State University

8:30 - 9:00 *"Duty Drawback (Import/Export) and the Role of CM"*

Duty drawback is a provision of U.S. Customs law under which duties paid to the government on imported goods can be refunded if the goods are subsequently exported as part of a finished product. The challenge lies in documenting the configuration as it changes during the life cycle between import and export. The presentation will demonstrate how applying the principles of configuration management can actually add real cash to the bottom line.

Presented by: Mr. Dave Presuhn, Boeing Commercial Airplane Group, CMIIC

9:00 - 9:30 *"CMII Inroads at Cummins Engine Co., Inc."*

Cummins Engine Co., Inc. is a large, widely distributed organization. Enterprise-wide initiatives are extremely difficult to establish and execute from the top down. ICM suggests a three-tiered approach to implementing CMII. The first two tiers define what has been described as a guerrilla approach to this implementation. CMII grads at Cummins have formed such a guerrilla network and have found

places where CMII principles can be applied. These grass-roots efforts are described along with their cumulative effects.

Presented by: Mr. Jim Fleming, Cummins Engine Co., Senior Technical Advisor Product Definition, BSME, CMIIC

9:30 - 10:00 *"Implementing CM in an established culture without killing any engineers (or having them kill you!)"*

Presented by: Ms. Tonya Santini, Supervisor of Configuration Management, Micro Motion Inc. In the early 90s, Ms. Santini was the co-owner of a private business in Colorado Springs, Colorado. From 1996 to 1998, she was a software configuration control specialist and auditor for the Department of Defense on the Milstar military communications satellite program at Schriever Air Force Base, Colorado. Since she joined Micro Motion as a software configuration manager, she has been promoted to supervisor of all configuration management at the company. She is CMII certified.

10:00 - 10:30 Morning Break

10:30 - 11:00 *"Daddy, Where Do Requirements Come From?"*

CMII teaches us that managing requirements is the backbone of an effective CM process. CMII provides the infrastructure and methods to effectively manage those requirements and keep them up to date. This front-end process entirely depends on clear, concise and valid requirements.

In this session, Craig Senior explores the origin of requirements and how they are captured, validated, communicated, and updated via the requirements management process. Craig concludes with a look at how CMII plays a role in this essential process.

Presented by: Mr. Craig Senior, CSL Consulting, CMIIC, Conference Emcee and Past President of the Eastern Canada CMIUG

11:00 – 11:45 *"Utilizing CMII To Achieve SEI/CMM 2:*

A corporate initiative utilizing CMII principles as the mechanism for enhancing Guidant's system development methodology to SEI/CMM level two by mid year 2001. "

Guidant has made the business commitment to bring to Guidant Information Systems world wide the same level of process control that R&D benefits from as a result of CMII principles. Guidant IS has made the commitment to reach SEI/CMM level two system development practices by mid 2001. This in an effort to streamline IS development projects and better control the multiple quality

systems that are critical to Guidant's daily operations freeing up resources for new initiatives, as well as meeting ever increasing regulatory pressures.

This discussion will focus on the plans to utilize CMII principles as a mechanism for resolving gaps in Guidant's current system development practices and CMM 2, as well as any progress the newly formed Shared Services Group has made to date.

Presented by: Mr. Gary Wereley, Guidant/CPI, Manager of Information Systems, Guidant Shared Services Group, CMIIC

11:45 - 1:00 Luncheon - Veranda Ballroom, Radisson 2nd Floor

1:00 - 1:30 *"Managing Color Complexity for Discrete Product Bills of Material "*

When managing configurations of complex products, the additional challenges represented by multiple color options can be overwhelming. Frank Reid will discuss a comprehensive approach to this problem. Rather than burdening its CM tools and practices by trying to manage all of the color variations in all product definition BOM's, his company has implemented a system that manages product configurations as 'less-color'. This approach allows the identification of parts with color variability, and then provides a full set of color-unique BOM's for those downstream systems that require them. Mr. Reid will discuss the details of this approach and some of the successes and challenges that have occurred in implementing it.

Presented by: Mr. Frank Reid, Johnson Controls Automotive Systems Group, Chief Engineer Global PDM, BS, CMIIC

1:30 - 2:00 *"The Role of CM in Interface Management on the International Space Station"*

Since joining SPACEHAB, Mr. Jerry Pyka has helped to establish technical writing standards, document control procedures, and CM procedures based on CMII principles. Jerry will discuss the complexities of the aerospace industry, how it differs with traditional industry, and the challenges that SPACEHAB faces with meeting CM requirements for the International Space Station project.

Presented by: Mr. Jerry Pyka, SPACEHAB, Inc., BS, MS, CMIIC

2:00 - 2:30 Afternoon Break

2:30 - 3:30 Interactive Tutorials: see Tutorial information below

3:30 - 5:00 Exhibitors: see Exhibitor information below

Wednesday June 7, 2000

7am - 8am Registration and Continental Breakfast – Garden Court, Radisson 1st Floor

8:00 - 8:10 Wednesday Opening Remarks

Presented by: Mr. Craig Senior, CSL Consulting, CMIIC, Conference Emcee and Past President of the Eastern Canada CMIUG

8:10 - 8:40 "*CM is Communication!*"

It's Monday morning and your helpdesk is flooded with calls from users unable to log into a critical customer support application, nobody was aware of a software change implemented over the weekend. This maybe a familiar story, in this session Mark describes how controls were put in place to protect the current system environment for a major telecommunications company, and how this was further developed into a configuration management process.

Presented by: Mr. Mark Bielinski, SafeNet Consulting. Mark has recently moved to Minneapolis from the UK and is working as a consultant for SafeNet Consulting. Mark has 10 years software development and project management experience in the banking, pharmaceuticals, oil exploration and direct-marketing industries. A PMP certified member of the PMI and CMII grad, Mark has a degree in Chemistry from University of London.

8:40 - 9:00 "*Survey Results: CMII Guerrillas Lead the Fight on Waste*"

This presentation will present the results of a recent survey of the progress that CMII grads have achieved with CMII implementation efforts.

Presented by: Mr. Vince Guess, Institute of Configuration Management, BSME, MBA, CMIIC. Vince is the President of ICM and Director of the University-sponsored CMII Certification program.

9:00 - 9:30 "*How to apply the CMII principles to the World Wide Web*"

Presented by: Mr. Guido Weischedel, President of GfKM (Gesellschaft fuer Konfigurations Management). Guido Weischedel worked for a major automotive supplier before forming ESM Software in 1985 for application development and to provide education and consulting in software CM. He has written several articles on CM and CMII and has a degree in Information Technology. Guido started teaching CMII courses in Germany during 1998 with translated course materials. Since 1999 he is using the CMII principles for his consulting jobs in

software CM. In July 1999 he founded GfKM – Gesellschaft fuer KonfigurationsManagement (translated to “Corporation of Configuration Management”) for providing best education and consulting services on Configuration Management throughout Germany. GfKM is the first company in Germany that specializes in Configuration Management.

9:30 - 10:00 *"Teaching an Old Program New Tricks: Using CMII Methodologies to Enhance and Revitalize an Existing Program Management System"*

This presentation is intended to identify how an existing software program of twelve years can be enhanced and revitalized using today's proven CMII methodologies. This presentation will take the audience through the beginning years of the program that was plagued with false starts and wasted code generation due to the lack of clear, concise and valid requirements. The presentation will then move the audience through the need for configuration management and then the identification of the CMII methodologies to effect positive changes within the program. Finally, the journey will end at the present day where the program has been improved and revitalized using the CMII principles administered by CMII certified professionals to develop new modules that enhance the existing capabilities of the system. The presentation concludes with identifying the Disadvantages and Advantages of using the CMII methodologies.

Presented by: Mr. Peter LeGro, Program Account Manager, Robbins-Gioia, Inc., BS, CMIIIC, and Mr. Craig Cavitt, Robbins-Gioia, Inc., CMIIIC

10:00 - 10:15 Morning Break

10:15 - 10:45 *"Controlling Chaos With CM and CMII"*

How communicating CM principles to senior management and staff can work to your advantage. Introducing CM in a non intrusive, but informative manner can get you to your CM goals faster and effectively. By slowly implementing change and process, you can turn your organization into a CMII model without them even knowing about it.

Presented by: Mr. Sean W. Sides, CMIIIC, CSCM, CISCM. Sean is the Manager of Configuration Management for AT&T Broadband-Digital Cable at the National Digital Television Center in Denver, CO. He has been implementing and building the CM group at AT&T for the last three years. Previously, he was the Configuration Manager for DUAL, Inc. in Jacksonville, FL. for four years, managing the CM of U.S. Navy S-3B flight simulator engineering. Sean's experience comes from over 10 years of technical, engineering and CM experience in both military contract and commercial environments.

10:45 - 11:15 "CMII @ CSC"

A presentation on the adoption and utilisation of the CMII methodology in Computer Sciences Corporation (CSC), UK. The presentation will describe how CSC's CM consultancy group in the UK used CMII to improve the knowledge base of its CM consultants and operators, and examine how CM consultants have been able to use CMII methodology in recent client engagements.

Presented by: Mr. Kevin Milford, Senior Business Process Consultant with CSC in the UK, specialising in configuration management. He has been with CSC for nine years and previously worked in a number of UK defence companies in roles such as project management, manufacturing and R&D, having started his working life as a technician in the Royal Navy. He is currently engaged to provide a managed CM service to a UK defence company that is introducing a new digital tactical communications network to the British Army. Kevin is also working on the development of CSC's e-Business CM capability and is a CMII grad.

11:15 - 11:45 "Product Liability: The Cause and Effect Conundrum"

Why implementation of a CMII compliant enterprise requirements management system will reduce product liability. "

Manufactures and producers operate in environments of extensive regulation. These regulations appear in the form of laws, government directives, industry standards, internal and customer specifications, and more; compliance is not typically optional. This presentation will discuss how liability arises not only from an organization's failure to ensure products conform to the requirements but also by the failure to have a system in place that will identify and communicate the "unknown requirements." Using U.S. case law to demonstrate important principles, Mr. Deringer will present some real world product liability cases and demonstrate how a CMII compliant system could have been used to prevent the liability.

Presented by: Mr. William Deringer, system's engineer, attorney, and CMII graduate. Bill is currently a Program Manager for System Technology Associates (STA) and has over twenty year's experience in engineering and configuration management. He is a licensed attorney and regularly practices in the areas of business and financial litigation. Bill is also a member of the ICM corps of instructors.

11:45 - 1:00 Luncheon - Veranda Ballroom, Radisson 2nd Floor

1:00 - 1:10 News about the EIA-649 Revision and a request for comments

Presented by: Mr. Dave Presuhn, Boeing Commercial Airplane Group, CMIIIC

1:10 - 3:00 Advancing The State-of-the-Art in Software CM

First Hour: Presentation by a panel of Experts in CMII and Software CM Tools. This panel examines the CMII model from a software perspective. A diverse panel of experts try to sort out vocabulary, current paradigms, available automation tools and other issues that might make CMII implementation challenging.

Second Hour: Ask The Experts - An Open Forum

3:00 - 3:30 Summarize and Adjourn Conference

Interactive Tutorials

Group 1: "How CMII Supports Achieving Higher Levels of the SEI/CMM"

The SEI/CMM for Software is a process improvement method and model that has been widely applied in the U.S. and is gaining international acceptance. Higher levels (3 through 5) of the model emphasize management of the organization software process. The workshop will cover such questions as, "Is Software Process Improvement (SPI) worth the effort?", "How can CMII add value to SPI?" and "How can we effectively orchestrate change?"

Group Leader: Mr. Peter L. Smith, Boeing Commercial Airplane Group, Software Engineering Quality Analyst, BA Harvard University, CMIIIC

Group 2: "An Update on the ISO Quality Standards and the Continuing Role of CM"

Group Leader: Mr. Clayton Jensen, Jutland Associates, Lead Auditor & Instructor, BME, IRCA ISO 9000, QS-9000, CMIIIC

Group 3: "The Role of Configuration Management in Reducing Legal Liabilities"

Group Leader: Mr. William Deringer, System Technology Associates, Systems Engineer, JD, CMIIC

Group 4: "Establishing Corporate Rules for Change Disposition"

Group Leader: Mr. Mark Fica, Institute of Configuration Management, CMIIC

Group 5: "Configuration Management for Secondary Items and Documents"

Sometimes in the CMII course material, secondary items are depicted as a little red box in the physical item hierarchy. This tutorial takes a closer look at CAM, Fanucs, DNC, metrology, tools, chucks, bits, jigs, presetters and other hard goods and software items used in manufacturing.

Group Leader: Mr. Leo Clark, Institute of Configuration Management, BS, CMIIC

Group 6: "The Business Case for CM Process Improvement"

Group Leader: Mr. Randall Omlie, Institute of Configuration Management, Certified CMII Lead Assessor, MBA, CMIIC

Exhibitor Information

CIMdata

CIMdata provides worldwide strategic consulting and in-depth research for industrial organizations and suppliers of technologies and services seeking competitive advantage in the global economy, and within the evolving e-business world. The company helps organizations improve their development, use, implementation, and marketing of solutions that manage the entire product or plant definition lifecycle.

CIMdata provides world-class knowledge and expertise on the use of collaborative Product Definition management (cPDM) solutions that utilize best-practice methods, and related technologies such as product data management (PDM), visualization, collaboration, collaborative product commerce (CPC), document management, component supplier management (CSM), configuration management (CM), software configuration management, enterprise application integration, computer-aided design/manufacturing (CAD/CAM), and numerical control (NC).

In addition to consulting, CIMdata provides industry education through international conferences in the U.S., Europe, and Asia-Pacific that focuses on management of the product or plant definition lifecycle. The company also conducts focused research and produces several commercial publications. CIMdata serves clients worldwide from locations in North America, Europe, and the Pacific Rim.

CMstat, the Configuration Management Company

CMstat Corporation, founded in 1986, is a leading developer and provider of comprehensive configuration management solutions for large electronics manufacturers, aerospace firms and other discrete manufacturers. The company's suite of configuration management software and consulting services ensure reliable and immediate access to mission-critical product data and asset information to ensure the successful development and performance of complex technical products.

MatrixOne

MatrixOne, Inc. is a leading provider of Internet business collaboration software and services. With the emergence of a global economy plus the rapid growth of the Internet, organizations must respond to a constantly changing business environment and the need for greater and tighter integration among all departments. Our software is also designed to serve as a backbone for an organization to collaborate through the Internet with its customers, suppliers, and other business partners.

PTC

PTC develops, markets, and supports collaborative product commerce (CPC) solutions that help manufacturing companies shape innovation and achieve sustainable competitive advantage in the Internet age. These B2B e-commerce solutions employ powerful Web-based collaboration and flexible engineering technologies to streamline product development and delivery processes. PTC's software solutions are complemented by the strength and experience of PTC Global Services, which provides training, consulting, support, and e-commerce services to customers worldwide. With PTC's CPC solutions, manufacturers can

take advantage of the Internet to improve product quality, reduce costs, and shorten time-to-market cycles. In its fiscal year ended September 30, 1999, the company achieved more than \$1 billion in revenue.

SDRC Metaphase

Managing Product Information in the Virtual Enterprise: Metaphase offers a Web-centric information infrastructure that harnesses its customers' intellectual capital to drive product innovation and manage the complete product life cycle.

Metaphase drives its customers' strategic business initiatives by providing a complete set of capabilities that fully leverage their most valuable intellectual capital – product knowledge. Only Metaphase delivers solutions to control, configure, and connect customers' product-related intellectual capital into collaborative processes that can be quickly initiated and continuously improved.

SESM

Our Mission is:

- * To enhance individual professional development and promote professional recognition of Engineering Systems Management through the application of Engineering Systems, Industry Standards, Methods and Enabling Technology.
- * To ensure that Product Configuration Data Management Systems and other Engineering Systems/Services continually add value to an organizations products, processes and profitability.
- * To actively encourage the evolution and adoption of systems and methods that manage and communicate product technical information and provide member access to associated leading edge technology information.
- * To facilitate information interchange through networks for individuals and organizations.

usb

usb is one of the most experienced and successful consultancy companies in Western Europe with over 15 years experience in the field of configuration management. In cooperation with Eigner+Partner AG, Karlsruhe usb has developed a configuration management module for Eigner's CADIM/EDB. With this fully integrated CM-module CADIM/EDB now is the only PDM system which provides this CM capability.
