

Rocky Mountain CMG

SPRING '04 FORUM

March 18 and 19, 2004

Held at: Colorado Technical University, 5775 DTC Blvd, Greenwood Village, CO.

Please visit our web site:

<http://www.cmg.org/regions/rmcmg/rmcmg.html>

It is election time once again! Please vote using the ballot below.

BALLOT for ROCKY MOUNTAIN CMG DIRECTORS

(Biographies for Elections on next page)

Vote for not more than two. MARK with an 'X'.

For two-year terms commencing April 3, 2003:

Alan Schulman

Mike Machuga

Signature _____ Name (Print) _____

Sign and return ballot to address listed below by March 18, 2003 even if not attending Spring '04 Forum.

In an effort to conserve on costs we communicate with our members via email. To insure that you receive future mailings please include your email address. Please forward to anyone who may be interested

Name: _____

Company: _____

Address: _____

EMAIL: _____

City: _____

State: _____ Zip: _____

Advance Registration Fee \$90 FOR 2 DAY and \$55 for 1 day. Due Mar. 15, 2003 includes program, breakfast, lunch and break refreshments.

Registration at the door \$60.00 (per day) for program, breakfast and breaks ONLY!

Any questions? Ken De Vilbiss at 303-676-1800.

Please include your EMAIL ID in the spot to the left.

Clip and Return form with check (payable to RCMCG) to:
Ken De Vilbiss, 589 W Arrowhead St, Louisville CO, 80027

If you would like a receipt please enclose a self-addressed stamped envelope.

I prefer vegetarian meals.

Please print page 1 and send with check (payable to RCMCG) to:

Ken De Vilbiss, 589 W Arrowhead St, Louisville CO, 80027

RMCMG AGENDA

THURSDAY March, 18th -

8:30-9:00 Registration, Business Meeting & Breakfast

9:00-10:00 “It's All About Performance”
Catherine Liu: Applied Expert Systems

Success in today's 24/7 global business environment often hinges on the ability to manage network availability and performance, understand routing patterns, and maintain mission-critical Web sites. In the end it really boils down to one thing: It's all about performance! Management, Monitoring, Reporting and performance. Service Level Objectives will be discussed. Sample Reports will be used to show how users can use key performance indicators to manage OS/390-based TCP/IP networks and Web applications.

10:00-10:15 Break

10:15-11:45 “Making the Business Case for Software Performance Engineering”
Dr. Lloyd G. Williams: Software Engineering Research & Dr. Connie U. Smith: Performance Engineering Services

Shrinking budgets and increased fiscal accountability mean that management needs a sound financial justification before committing funds to software process improvements such as Software Performance Engineering (SPE). Preparing a business case for SPE can demonstrate that the commitment is financially worthwhile and win support for an SPE initiative. This paper presents an introduction to the use of business case analysis to justify investing in SPE to reduce costs due to performance failures. A case study illustrates how to perform a financial analysis and calculate a projected return on investment.

While the presentation focuses on making a business case for SPE, capacity planners and performance specialists will also find the approach useful for justifying their projects.

11:45-12:45 Lunch – Sponsored by [Computer Management Sciences, Inc.](http://www.cpexpert.com) – <http://www.cpexpert.com>

12:45-1:45 Vendor Presentation
Don Deese, Computer Management Sciences, Inc.

CPEXpert analyzes data in a standard performance data base, detects system performance problems, and suggests actions to solve the problems. CPEXpert has components to analyze performance problems with Workload Manager, DB2, CICS, and DASD. Don is developing a new component to analyze problems with WebSphere MQ running under z/OS. During his presentation, Don will discuss the analysis of typical problems with WebSphere MQ, using standard SMF Type 115 and Type 116 records.

1:45- 2:00 Break

2:00-3:00 “Oracle Datafile Compression”
Kathy Hodge, StorageTek

When examining the different types of Oracle database datafiles, stored on a StorageTek® Shared Virtual Array (SVA) disk subsystem, we find that there are quite varied compression capabilities. During this session, the presenter will share an example of a set of Oracle database files of various types illustrating the different compression rates of the source database datafiles when written to the SVA. As a result of the StorageTek's SVA data compression capabilities, the production database

doesn't actually consume the full physical segment sizes as listed in the DBA_SEGMENTS tablespace from the database perspective. The compression factor considered in planning disk space requirements provides an added advantage to using the SVA for both production and online backup disk storage purposes.

3:00-3:15 Break

3:15-4:15 “Performance and Capacity Planning Basics For Storage Networks” Greg Schultz, Evaluator Group

This session looks at performance and capacity planning for storage networks. Related topics including measurement, design and topology considerations, local, metropolitan and wide area ramifications for survivability, and scaling are covered. The attendee will gain insight into the various metrics and resources available to track usage of ports, devices, and links on a local, metropolitan, and global basis for different topologies and environments. Additional material can be found in the CMG 2003 symposium papers “Securing Storage Networks” and “Storage Networking Primer and Update”.

AGENDA FRIDAY March, 19th -

8:30-9:00 Registration & Breakfast

9:00-10:00 “Best Practices, KPIs and TIPs - UNIX Performance Analysis” Alan Firth, TeamQuest Corp.

This presentation provides an overview of Performance Analysis and what impacts the performance of UNIX systems. It looks at concepts of tuning systems & bottlenecks as well as the problem indicators of the major components of a UNIX system.

10:00-10:15 Break

10:15-11:15 “Modeling Multi-Tiered Applications” Alan Firth, TeamQuest Corp.

The behavior of a Multi-Tiered Application can vary greatly with not only it's own changes in workload but the entire enterprise/server workloads growth. The concepts of “vertical scaling”, “horizontal scaling”, and “stretch factor” are examined in relation to the Performance and Planning for a complex system.

11:15-11:30 Break

11:30-12:30 Vendor Presentation - “Unlock the Power of your mind!” Tim Norton, dashcourses, inc.

12:30-1:30 Lunch – Sponsored by [dashcourses, inc.](http://www.dashcourses.com) – www.dashcourses.com

1:30-2:30 “Storage Performance Council Update” Randy Kerns, The Evaluator Group

This talk will present information about the status of SPC benchmarks and the results obtained to date. The goals of the SPC benchmarks and the methods used will be explained and the individual benchmarks discussed. SPC-1 results that have been released will be shown. The SPC-2 benchmark goals and status are explained along with future SPC work will also be discussed. .

At press time, these speakers are confirmed. RMC MG reserves the right to substitute without notice in case of cancellation beyond our control.

Biographies of the Speakers

Dr. Lloyd G. Williams, a principal consultant at Software Engineering Research, is internationally recognized for his work in the development and evaluation of software architectures to meet quality objectives including performance, reliability, modifiability, and reusability.

Dr. Connie U. Smith, a principal consultant of the Performance Engineering Services Division of L&S Computer Technology, Inc., is known for her work in defining the field of SPE and integrating SPE into the development of new software systems.

Drs. Williams and Smith, world-renowned leaders in the theory and practice of SPE, combine over 50 years of experience in software development. Their experience in software performance engineering and software architecture and design is unequalled. They are uniquely qualified to solve your software performance problems.

Drs. Williams and Smith are the authors of *Performance Solutions: A Practical Guide to Creating Responsive, Scalable Software*, published by Addison-Wesley. They have published numerous technical articles and are popular speakers at workshops and conferences around the world.

Greg Schulz, is a Senior Analyst with The Evaluator Group, an independent storage analysis firm. He has over 20 years experience with UNIX, Windows, IBM Mainframe, OpenVMS and other environments. He has worked at various firms, and in several industries including Cooperative Power Electric Utility, DCA Benefits, BNSF Railroad, MTI, INRANGE, and CNT which includes working with large and small customers from different industries involving storage and storage networking.

Greg is author of numerous published papers, and articles on storage, storage networking, I/O, capacity planning, virtualization, security, backup, database and related topics and has contributed material to other projects including being a co-author for the VERITAS book "The Resilient Enterprise". Greg has a new book titled "Resilient Storage networking - Flexible Scalable Storage Access Infrastructures" (digital press books) available in April 2004. He also has been a speaker throughout the world on storage, and storage networking topics. Greg has a B.A. in computer science, M.Sc. in software engineering from the University of St. Thomas.

Catherine Liu, president and co-founder of Applied Expert Systems, has over 20 years experience in performance and capacity management. She is active in the performance and capacity management field, having published and presented papers at many major domestic and international industry conferences. Since receiving her Masters in Statistics from Stanford University, she has spent over 20 years managing software product development, with companies such as the Institute for Software Engineering and Boole & Babbage, Inc., where she was responsible for directing expert system software product development. At AES, her focus has been on network performance solutions to empower performance analysis supporting eBusiness initiatives.

Kathy Hodge, has been a member of the StorageTek engineering community since 1992, conducting various levels of validation testing against both tape and disk products. She has an IS background and a Master of Science degree in IT with an emphasis on Database Administration. Kathy has been working with Oracle products since 1989 and participated in the database software selection process for StorageTek. Recently, Kathy has integrated Oracle databases with the StorageTek Shared Virtual Array disk subsystem using Linux on the Mainframe.

Alan W. Firth, TeamQuest INC. Enterprise Performance Specialist, Monash University (Australia), Ohio State Univ., Has been in the industry for 20 years. Integration for about 10 years and performance and administration the rest of the time. He has a very diverse background. Alan ran a greeting card company and did 6 years as a director of the YMCA in Columbus OH.

Don Deese, CMG-RELATED ACTIVITIES-1981 Recipient, A. A. Michelson Award - Past-President, the Computer Measurement Group General Chairman, 4 International Conferences of CMG Member, CMG Board of Directors for 8 years

OTHER: Over 35 years experience in computer capacity planning and computer performance evaluation.

Author of CPExpert - an expert system designed to evaluate performance of MVS environments.

Randy Kerns is a senior partner at The Evaluator Group and is responsible for Storage Area Network and Network Attached Storage analysis and education as well as company and product strategies.

He has over thirty years in the computer industry involved in the development of storage products for both mainframe and open systems. His background is in product design and development. Randy's education includes a bachelor's degree in computer science from the University of Missouri at Rolla and a master's degree in computer engineering from the University of Colorado. He has worked for IBM, Fujitsu, as Vice President of Engineering at the Array Technology subsidiary of Tandem Computers and as Director of Engineering for Enterprise Disk at Storage Technology Corporation. Product development that Randy has been involved in includes both disk and tape subsystems for those companies.

Randy has made numerous presentations at conferences and is the author of many industry articles and white papers.

Exhibitors / Sponsors of this Meeting:



Making Networks and Applications Perform™ Founded in 1986, OPNET Technologies, Inc. is a leading provider of management software for networks, systems and applications. OPNET's best-in-class solutions address application performance troubleshooting; application deployment planning; server and mainframe capacity planning; network configuration auditing; network capacity and resiliency planning; and network technology R&D. OPNET solutions have been operationally proven in thousands of customer environments worldwide, including corporate enterprises, government and defense agencies, network service providers, and network manufacturers. OPNET's new Advanced Mainframe Model inter-operates with OPNET's Advanced Server model, storage models, and network models to support end-to-end application performance prediction and multi-platform capacity planning. By employing discrete event simulation, OPNET's models offer solution flexibility well beyond the reach of traditional analytical models.

CPExpert

Computer Management Sciences, Inc

CPExpert is a software program that runs on your IBM mainframe, analyzing data in your MXG®, SAS IT/Service Vision®, or CA-MICS® performance data base. CPExpert runs as a normal batch job, and it reads information from your system to detect performance problems. Consolidates and analyzes data from your system (the data normally is contained in a performance data base) to identify the causes of performance problems, Produces narrative reports to explain the results from its analysis, and to suggest changes to improve performance. CPExpert is implemented in SAS®, and is composed of hundreds of expert system rules, analysis modules, and queuing models. CPExpert has different components to analyze different aspects of system performance.