



**CENTRAL CANADA DB2
USERS GROUP
&
TORONTO IMS REGIONAL
USERS GROUP**

**2017
Technical Conference**
The BMO Institute for Learning
Toronto, Ontario
June 05th - June 06th

Central Canada DB2 Users Group

1969 Lenarthur Drive, Mississauga, ON, L5J 2J1 - Email: info@ccdb2.ca

Monday June 05th – Tuesday June 06th, 2017

The Bank of Montreal Institute for Learning
3550 Pharmacy Avenue, Toronto, Ontario, M1W 3Z3

The Toronto IMS Regional Users Group will be co-hosting their quarterly meeting with the Central Canada DB2 Users Group for 1 day on Monday June 05th.

The Central Canada DB2 User Group presents two EXCITING days of IMS for zOS, DB2 for LUW and DB2 for zOS education! This is the “**must attend**” seminar of the year and is only \$350 for 2 days of DB2 and IMS Education, or \$200 for 1 day of IMS (Monday only)!!

Registration Includes: Presentation material download, continental breakfast, coffee breaks, and lunch.

Vendor reception on Monday is open to all.

We look forward to seeing you on Monday June 05th – Tuesday June 06th, 2017.

Regards,

Andrew Sykes, President

Central Canada DB2 Users Group

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MONDAY June 5

8:15 - 8:50 badge pick-up attendees - please be seated in the presentation hall [near registration] by 9:00.

9:00 - 10:30 ALL ATTENDEES: meet in the main presentation hall for opening remarks and the keynote presentation.

9:15 -10:30	KEYNOTE: Transforming Mainframes for Digital Business Kevin McGuinn – Vice President, Customer Success – BMC Software		
MOVEMENT/COFFEE BREAK			
	DB2 for z/OS - Presentation Hall	DB2 LUW	IMS for z/OS
10:45 - 12:00	DB2 12 for z/OS Overview John Iczkovits - IBM	DB2 LUW : The Latest from the Lab Matt Huras - IBM	IMS Masterclass - Session 1 Deepak Kohli - IBM
LUNCH			
01:15 - 02:15	SQL Tuning in the Digital World Sheryl Larsen - BMC Software	DB2 Backup and Restore Best Practices Dale McInnis - IBM	IMS TM modernizes for Cloud, Mobile, and API Readiness Suzie Wendler - IBM
coffee break			
02:30 - 03:30	Access Path Stability - Best Practices David Simpson - Themis	Extending SQL: Exploring the hidden JSON capabilities in DB2 George Baklarz - IBM	IMS Masterclass - Session 2 Deepak Kohli - IBM
coffee break			
03:45 - 04:45	SQL Tuning – There’s Gold in them there “peaks” Damon Anderson - Anixter & Michael Cotignola - BMC	Replication: What can I really do? Dale McInnis - IBM	Make z/OS your platform of choice for developing and hosting APIs Suzie Wendler - IBM
04:45 - 6:30	Vendor Expo / Reception sponsored by IBM		

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T U E S D A Y June 6			
8:30 - 8:50	User group status & request for volunteers - Presentation Hall		
	DB2 for z/OS - Presentation Hall	DB2 LUW	DB2 Breakout
9:00 - 10:00	Connecting Applications Including Mobile and Cloud with DB2 for z/OS using REST John Iczkovits - IBM	Vital Statistics - What You Should Know About Catalog Statistics John Hornibrook - IBM	Performing DB2 LUW HADR Updates and Upgrades Made Easy Michael Roecken - IBM
coffee break			
10:15 - 11:15	Jail time, Bankruptcy – or Test Data Management – your choice ? Steen Rasmussen - CA	HTAP - Accelerating complex queries in an OLTP system Chris Eaton - IBM	Streamline your LOB processing - (z/OS) Frank Rhodes - BMC Software
coffee break			
11:30 - 12:30	A "Collection" of Quick Hits Steven Loesch - Anixter	Inside DB2 11.1: The life and times of an SQL statement Paul Bird - IBM	Security in the Cloud – Protecting your data from the world Chris Eaton - IBM
LUNCH			
1:30 - 2:30	DB2 12 Continuous Delivery – New challenges for deployment Ulf Heinrich - SEGUS Inc	A handyman's guide to answering common end-user DB2 monitoring questions Paul Bird - IBM	The DB2 12 catalog – what happened since DB2 11 Steen Rasmussen - CA
coffee break			
2:45 - 3:45	A Row's Life Frank Rhodes - BMC Software	Top tips from a lifetime of tuning DB2 Martin Hubel - MHC	
CLOSE			

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PRESENTATION ABSTRACTS

These may be subject to change so please excuse the proverbial “last minute changes”.

KEYNOTE

"Transforming Mainframes for Digital Business"

Kevin McGuinn

Vice President, Customer Success – BMC Software

This presentation will cover how the role of the mainframe is changing to adapt to the new economy, where digital drives everything. Many organizations rely on the mainframe for critical business processing, and those who are embracing digital business are thriving. Go digital or Go extinct. We'll review how this new digital activity impacts the mainframe and how these digital pressures will only continue to increase. How are you going to stay in touch with your new technological consumer? What new technology are you going to adopt? Social and the Internet of Things, Mobile apps, Analytics, Cloud, Big Data, Automation, Mainframe? Are you going to use business intelligence, analytics, or possibly even Watson to stay in touch with your customer to find insights? Finding insights in your data – doesn't that generate more data? How are you going to manage your new digital business infrastructure? How do you plan to service your technological consumers with the information they need in a timely manner?

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DB2 FOR z/OS

"SQL Tuning in the Digital World"

Sheryl M. Larsen

Sr. DB2 Product Specialist at BMC

The Digital World includes all kinds of transactions most of which contain SQL. Trapping and fixing nonperforming SQL has gotten more complicated or has it? The speed at which SQL performance problems need to be resolved has shrunken to .1ms or 0 – meaning that they should never happen. Come learn tips and techniques that can assist you in today's Digital World.

Objective 1: When your monitors find this, what should you do?

Objective 2: What crazy SQL can do for you!

Objective 3: Finding the most expensive query running in the peak

Objective 4: Some old and new tuning techniques

Objective 5: Monetize your MLC savings with compares.

Sheryl M. Larsen is a Sr. DB2 Product Specialist at BMC. Previously she worked for IBM, Sheryl M. Larsen, Inc., and Platinum Technology. She is known for her extensive expertise in SQL Tuning and has performed detailed DB2 Performance Health Checks for many fortune 500 clients. Sheryl has over 25 years' experience in DB2, has published many articles, white papers and co-authored a book, DB2 Answers, Osborne-McGraw-Hill, 1999. Currently she is the President of the Midwest DB2 User Group - www.mwdug.org, and a member of the Northern Illinois University Computer Science Alumni Council.

"SQL Tuning – There's Gold in them there 'peaks'"

Damon Anderson, Anixter

Michael Cotignola, BMC

Reducing CPU costs associated with poorly performing SQL can be a great source of pride for a production DBA. Reducing the elapsed time from hours to seconds can make you a hero with end users. This presentation will cover tips and techniques we used that achieved both. With complex SQL using UDFs, XML, CTEs, and other complex SQL coding structures as the challenge we were able cut CPU and elapsed times significantly and reduce costs. The challenge in reducing costs is finding the SQL that impacts the rolling 4 hour average. We will show some scripts we developed in house to alert us to potential run-away SQL.

Damon Anderson is an IT Director at Anixter Inc. in Glenview Illinois. Anixter is a global distributor of communication and security products, electrical and electronic wire & cable. He has extensive experience in DB2, IMS, data replication, application design, Disaster Recovery, and related third-party tools and technologies. He has presented at

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IDUG many times and was chosen as the top user speaker at the North America conference in 2015. Additionally, he has presented at various regional user groups in the Midwest and Canada.

Michael Cotignola is a Principal Software Consultant supporting BMC's DB2 Mainframe Solutions. In this role, he helps his clients maximize the value they receive from BMC's DB2 products. Michael has worked in IT since 1975 in numerous IT disciplines, including operations, application development, and database administration. He has been working with DB2 since version 1.1. Prior to joining BMC Software in 1996, Michael was a Managing Consultant for a large telecommunications and technology firm in Canada. Michael was president of IDUG and continues to be involved with IDUG in several capacities.

"DB2 12 Continuous Delivery – New challenges for deployment"

Ulf Heinrich

SOFTWARE ENGINEERING GmbH

Starting with version 12, DB2 goes agile and code fixes, as well as new features and functions will be delivered in a continuous stream, so called Continuous Delivery. While this change intends to make new technology available faster than in a three-year cycle it'll also affects the way we did DB2 migration and testing before. This presentation provides an overview about DB2 Levels and how they affect the DB2 subsystem, the Catalog/Directory, SQL and DDL. More importantly, I'll show how changes can be applied safely and what levels of quality assurance and testing can be passed to assure Continuous Delivery goes well with Continuous Availability.

Ulf Heinrich is the Director of Solutions Delivery at SOFTWARE ENGINEERING GmbH. He specializes in DB2 recovery issues and database maintenance, focusing on the growing requirement for cost reduction and 24x7 operations. As a consultant at large customer sites, he has implemented database maintenance procedures and recovery strategies, and also experienced the pitfalls of recovery scenarios under real-world recovery pressure. His activities cover EMEA, as well as North America through SE's U.S. subsidiary, SEGUS Inc. He's involved in the development of SE's maintenance and recovery solutions.

"DB2 12 for z/OS Overview"

John Iczkovits

IBM

This session will provide an overview of all of the great new features and functions available for the newest version of the best DBMS in the industry.

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"Connecting Applications Including Mobile and Cloud with DB2 for z/OS using REST"

John Iczkovits
IBM

Although z Systems provides unmatched scalability, security and availability for valuable data, applications have to be able to get to that data. Applications also must be able to access the data from a variety of front-end layers, including cloud and mobile. In this session, you learn about new the new DB2 z/OS REST service feature available in DB2 for z/OS 11 and 12. The new DB2 z/OS REST feature leverages the existing distributed data facility (DDF) capability. It provides the same class of services you expect when using DDF to access DB2 data. This includes authentication, authorization, client information, enclave classification, system profiling, sysplex awareness, accounting; statistics, displays, and monitoring which are fully integrated into existing DB2 facilities. The new REST feature will also be demonstrated to show how easily REST is to use with DB2 z/OS.

John Iczkovits is a Virginia-based Certified Consultant - DB2 for z/OS for IBM Advanced Technical Support (ATS). He is a frequent speaker on DB2 related issues.

"A "Collection" of Quick Hits"

Steve Loesch
Anixter

As DB2 continues to evolve, I have picked up new techniques for building Stored Procedures, User Defined Functions, and Dynamic SQL. This presentation will also discuss DB2 V11 features used at Anixter.

- Objective 1. Using XML with DB2 stored procedures and functions to keep parameters markers in sync. XMI Documents are used in input/output parameters and return cursors.
- Objective 2, Using DB2 V11's new Autonomous Procedures to aid in procedure debugging and error tracking.
- Objective 3. Review requirements for developing a dynamic SQL procedure and use of concentrate literals.
- Objective 4. Real World experience with UTS tablespace conversions.
- Objective 5. Review of other useful DB2 V11 features used at Anixter.

This presentation will contain an overview of coding techniques that we have used for native stored procedures and user defined functions. A coding method for improving your dynamic SQL cache hit ratio when developing Dynamic SQL applications will be discussed. Learn about real-world migration techniques for UTS tablespaces.

Steve Loesch is a Sr. Technical Database Administrator at Anixter Inc. DB2 Database Administration and Programming since 1988. All versions of DB2. Motorola, 1988-1992

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DB2 DBA, Platinum Technology, Inc, 1992-1999, DB2 Internal Application using DB2 C/S Applications and PeopleSoft, CA Technology 2000-2009 DB2 DBA Manager, Managed DB2 SAP 2005-2009. DB2 Consultant 2009-2010, Database Design and Performance Management, Migrated DB2 V8-V9. Anixter Inc, 2010-2016 DB2 DBA, Database Design and Performance Management, Migrated DB2 V9-V11.

"Jail time, Bankruptcy – or Test Data Management – your choice ?"

Steen Rasmussen

CA

The “good old days” where we simply could copy production data to test/QA as an easy method to test the applications are almost history. Once you start to look into the regulatory and compliance rules growing across the entire world – you really need to be careful what you are doing to help the application groups meeting their goals. Providing REAL production data for testing purposes can be a career limiting decision - let’s have a look at what’s going on and which options are available from a DB2 perspective in terms of making sure you meet the “rules”.

Do you jeopardize or comply to the “data privacy rules” dealing with production data to satisfy the testing needs from the application development teams ? How do you stay compliant and still be in a position to get the job done ? There are many options available but you need to plan and think.

What are we facing in terms of data privacy – new laws are changing what we have done for decades.

- New DB2 authorization roles available to help a little.
- What does DB2 provide in terms of masking – is it enough ?
- Data masking or scrambling – what you need to consider.
- Synthetic data management - generating data as opposed to copying data – some challenges to have in mind.

"The DB2 12 catalog – what happened since DB2 11"

Steen Rasmussen

CA

There are many ways to learn about a new DB2 version, but using the catalog is probably the fastest and most enlightening. Once you look at the revision track in the DB2 Catalog and Directory section of the SQL Reference Guide, study the column changes, additions as well as new catalog tables, you have a very good overview of everything worth to know about that specific DB2 version

- Dropped catalog objects.

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- New catalog objects.
- Old DB2 features added to the catalog.
- Modified catalog tablespaces, catalog tables, columns, indexes, relationships.
- New DB2 12 features reflected in the catalog.

Steen Rasmussen is a Sr. Engineering Services Architect currently instrumental in the ongoing development and support of the CA Technologies DB2 tools. In 1985 Steen started as an IMS/DB2 DBA at a major insurance company in Denmark working with all aspects of DB2 - like tuning, application design and implementation, education of developers, backup and recovery planning and automation of housekeeping processes. During this job, Steen also served as a member of the planning committee for DB2 GUIDE SHARE Nordic Region. In 1995 Steen became a technical manager at PLATINUM Technology managing technical support and presales for the DB2 products. Steen has been working with DB2 for z/OS since 1985 and is always looking for new opportunities in the CA DB2 solutions which can help customers manage DB2 more efficiently. Besides from providing support to the teams in the field as well as internal groups at CA technologies working with DB2, Steen is also a frequent speaker at IDUG in North America, EMEA and Australia as well as local DB2 User Groups around the world.

"A Row's Life"

Frank Rhodes
BMC

Rows in a DB2 z/OS database get mauled and moved and wholly and partially duplicated. There are different ways to find them and different surroundings. And most DBAs find they need to understand these transformations thoroughly to manage performance and recovery and even security. In this presentation, we take a lighthearted view of one row's life to emphasize some of the internals of DB2 on the z/OS platform.

Most of the DDL, SQL and internals are from DB2 V7.1 on a non-data sharing system. The versioning and how life could have been different examples are from V8.1 and V9.1 systems.

"Streamline your LOB processing"

Frank Rhodes
BMC

You have been working with LOBS for a while now, but DB2 now has more opportunities to streamline your LOB processing. What is up with this new INLINE LOB thing? How will it affect your processing? Is it worth messing with?

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This presentation will explain the structure of LOBs, discuss the benefits of using the new INLINE syntax, and give you a heads up on how they may impact your processing. I will also talk about the new DB2 options for processing LOB.

Objectives:

1. Understand how to define INLINE LOBS and determine what is the best INLINE value to choose.
2. Learn how they are registered in the catalog and how to set the new ZPARM.
3. Understand how INLINE LOBs work differently than regular LOBS.
4. Learn about new DB2 features for LOBS and how they affect your processing , can they save you time and money?

Frank Rhodes started with BMC Software in 1995. In his current role he works to promote cross product coordination between the Database Administration products and the other BMC DB2 products. The products that he has primary responsibility for are ALTER for DB2, Change Manager for DB2, Catalog Manager for DB2, DASD Manager Plus for DB2, NGT STATS, NGT Utility Manager as well as Workbench for DB2.. Frank was a Developer on the Change Manager for DB2 product for over 10 years. His main areas of responsibilities being the development and maintenance for the Analysis Engine as well as the product's user interface. Prior to joining the Change Manager Product team, he worked on the TIS Install for the Administrative products. He was the lead developer in charge of the initial implementation of a common install for all of the DB2 products.

Prior to BMC, Frank worked as a Systems Programmer for IBM in support of NASA JSC's administrative processors. He supported installation and maintenance of MVS products and was in charge of implementing Automated Operation for IBM's internal systems as well as NASA's systems.

Frank holds a Bachelor's Degree in Computer Science from the Texas A & M University.

"Access Path Stability - Best Practices"

David Simpson
Themis

DB2 has provided some great features for stabilizing performance through changes in the environment, particularly through a DB2 version upgrade. In this session we will look at the evolution of access path stability over the last few releases and provide some thoughts on best practices for implementation.

- Plan Management
- Access Path Reuse
- Comparing Access Paths

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- Bind Output Using APREUSE and APCOMPARE
- Best Practices

David Simpson is currently Vice President at Themis Inc. He teaches courses on SQL, Application Programming, Database Administration as well as optimization, performance and tuning. He also installs and maintains the database systems used for training at Themis. Since 1993 David has worked as a developer and DBA in support of very large transactional and business intelligence systems. David is a certified DB2 DBA on both z/OS and LUW. David was voted Best User Speaker and Best Overall Speaker at IDUG North America 2006. He was also voted Best User Speaker at IDUG Europe 2006 and is a member of the IDUG Speakers Hall of Fame.

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DB2 FOR LINUX, UNIX and WINDOWS

"Extending SQL: Exploring the hidden JSON capabilities in DB2"

George Baklarz
IBM Toronto

DB2 for Linux, UNIX and Windows introduced support for JSON in Version 10.5 through the use of a MongoDB wire listener, a NoSQL command line, and Java API support. What we didn't tell you was that there were some functions under the covers that you can take advantage of to use JSON natively within your SQL. This session will uncover some of these new supported features and show you how you can take advantage of them in your application development.

George Baklarz, B. Math, M. Sc, Ph.D. Eng., has spent 30 years in IBM working on various aspects of database technology (it seems longer, trust me). He has worked in every department in the Toronto DB2 Development lab and generally can't keep a job for more than 18 months. George has a Doctorate in Computer Engineering, which took him only 13 years to get. The Engineering Faculty didn't like the fact that he worked at IBM - they felt that part-time students would never finish their degree if they had to work for a living! IBM on the other hand wondered how he could work while trying to get a degree! George currently pretends to work as part of the Core Database Technical Sales group (aka DB2) and creates PowerPoint slides for a living.

"Inside DB2 11.1: The life and times of an SQL statement"

Paul Bird
IBM Toronto

Relational databases exist to process SQL and this presentation pulls back the covers to look at how DB2 for LUW processes SQL statements. We will flow through DRDA to get to the database, descend into the SQL Compiler to find the right access plan, visit the Package Cache to get ready, until we reach the core of the DB2 runtime processing to actually produce the answers for which your SQL is looking. If you are curious about how DB2 translates SQL into results, this presentation is for you.

"A handyman's guide to answering common end-user DB2 monitoring questions"

Paul Bird
IBM Toronto

This presentation will provide you with some quick ways to answer common end-user monitoring questions within DB2 using the native capabilities provided. Using examples, we will look at a variety of different scenarios to show you how to get the answers and we will also look at ways that you can make your end-users self-sufficient for their monitoring and control needs.

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"HTAP - Accelerating complex queries in an OLTP system"

Chris Eaton
IBM Toronto

Applications often need to support mixed workloads with both OLTP transactions and complex reporting queries. However, it is often difficult to optimize a database or a table for high OLTP performance and high OLAP performance at the same time. This session explains how shadow tables can be used to overcome this dilemma. You will also learn what exciting plans IBM has to support HTAP (both OLTP and Analytics) on directly on column organized BLU tables). You will learn how to configure both DB2 and CDC replication for efficient maintenance and usage of shadow tables, to leverage BLU Acceleration selectively for the appropriate portion of the workload..

"Security in the Cloud – Protecting your data from the world"

Chris Eaton
IBM Toronto

When I talk to clients about cloud the first question they always ask is about security. Then the second question and the third questions are also about security. Join Chris in this session where he will talk about the various DB2 security aspects that you need to be concerned about in the cloud and how to protect your data against various threats. Chris will cover basic security administration in the cloud and then also cover how to leverage various features in DB2 and dashDB (also based on DB2) to secure your data. Topics like encryption on disk and on the wire, trusted context, connection procedures, row and column access control as well as network security will be covered.

Chris Eaton is a Worldwide Technical Leader for IBM's Cloud Data Services organization. Chris has been working with DB2 on the Linux, UNIX, Windows platform for over 25 years. From customer support to development manager, to Externals Architect and Product Manager for DB2, Chris has spent his career listening to customers and working to make DB2 a better product. Chris is the authored several books on DB2 and Big Data and has one of the most popular blogs about DB2 on IT Toolbox at <http://it.toolbox.com/blogs/db2luw>. In his current role, Chris leads a worldwide team of technical specialists delivering IBM's Analytics portfolio of products in the cloud. Chris is also a proud member of the IDUG Speaker Hall of Fame and has been fortunate to have been selected as Best Speaker at 3 different IDUG conferences by the attendees.

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"Vital Statistics - What You Should Know About DB2 for Linux, UNIX and Windows Catalog Statistics"

John Hornibrook
IBM Toronto

The DB2 for Linux, UNIX and Windows query optimizer is responsible for choosing optimal query access plans, however it can't do its job properly without vital information about your data and database objects. The RUNSTATS utility has been used for years by database administrators to collect these statistics and store them in the system catalog tables. However, statistics collection has significantly evolved since RUNSTATS was first introduced. DB2 has a rich set of statistics to help the optimizer understand complex relationships in your data and across your tables. Statistics can be collected automatically and even at query optimization time. This presentation will provide an overview of DB2 catalog statistics and the options to collect them, to help you achieve optimal query performance, with minimal administration effort.

John is a Senior Technical Staff Member responsible for relational database query optimization on IBM's distributed platforms. This technology is part of DB2 for Linux, UNIX and Windows, dashDB and the Big SQL feature of Big Insights. John also works closely with customers to help them maximize their benefits from IBM's relational DB technology products.

"Top tips from a lifetime of tuning DB2"

Martin Hubel

After teaching and consulting on DB2 for LUW since 1993, and doing DB2 related things in 30 countries, a few things stick out as top things to tune. This presentation will focus on the top things to tune and how to quickly get benefits..

Martin Hubel is an independent consultant and has worked extensively with DB2 since 1985. Martin develops and teaches DB2 advanced courses and is recognized as a leading authority in the field. He has been using DB2 Universal Database on Linux, Unix, and Windows since 1993 and has participated in several beta test programs for these platforms. He is a Gold Consultant, IBM IM Champion, and a member of the IDUG Volunteer Hall of Fame and currently on the IDUG Content Committee. He is a member of the DB2 LUW SAP Technical Leadership Exchange.

"DB2 LUW : The Latest from the Lab"

Matt Huras
IBM Toronto

This session will cover the latest new advances on DB2 LUW, including the V11.1.1.1 release. This includes a number of improvements in BLU acceleration, security, SQL compatibility, and manageability. Matt will also cover a sneak peak at some of the labs current work that might show up in future releases.

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Matt Huras is the chief architect of DB2 for Linux Unix and Windows. He was a founding member of the development team, more than 20 years ago, and has played a key role in implementing and/or leading many of DB2's marquee capabilities, including it's multi-threading engine, it's prefetching I/O subsystem, compression, pureScale, and several others. He possesses a Bachelor of Applied Science from the University of Waterloo, and a Master of Engineering from the University of Toronto. Matt is a Distinguished Engineer, Master Inventor, and member of the IBM Academy.

"DB2 Backup and Restore Best Practices"

Dale McInnis
IBM Toronto

In this presentation we will review what is possible with DB2's backup and restore utilities. We will also look at the specific customer scenario in which the customer was complaining of a slow backup and how with relatively little effort the backup reliability and performance was dramatically improved.

"Replication: What can I really do?"

Dale McInnis
IBM Toronto

In this presentation we will review the different replication technologies available for DB2 LUW. Each will be discussed examining their strengths, weaknesses and which environments they best fit into.

Dale McInnis is a Senior Technical Staff Member (STSM) at the IBM Toronto Canada lab. He has a B.Sc.(CS) from the University of New Brunswick and a Masters of Engineering(M.Eng) from the University of Toronto. Dale joined IBM in 1988, and worked in the DB2 development team from 1992 - 2014. Dale's area of expertise includes DB2 for Linux, UNIX and Windows Kernel development, where he led teams that designed the current backup and recovery architecture and other key high availability and disaster recovery technologies. Dale is a popular speaker at the International DB2 Users Groups (IDUG) conferences worldwide, as well as DB2 Regional users groups and IBM's Information On Demand (IOD) conference. His expertise in the area DB2 availability area is well known in the information technology industry. Dale spent 10 months as the IBM Cloud Data Services Chief Availability Architect, and now Dale is now on the North American Core DB Technical Sales team.

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"Performing DB2 HADR Updates and Upgrades Made Easy"

Michael Roecken
IBM Toronto

Moving to a new version or fix pack of DB2 should not be a scary event for databases using the high availability disaster recovery (HADR) feature. Fear of an outage or re-initialization of your standby is no longer a concern. This presentation will introduce to you and detail the procedures to perform a rolling update and a major release upgrade of your HADR single standby, HADR multiple standby and HADR pureScale databases. A detailed step by step analysis, with examples, from start to end so that you can get your database to the latest versions of DB2 with the least amount of concern.

- Discuss the process to perform an HADR single standby and multiple standby fix pack rolling update.
- Discuss the process to perform an HADR pureScale online member rolling updates.
- Discuss the process to perform an HADR single standby and multiple standby major release upgrade.
- Discuss the process to perform an HADR pureScale major release upgrade.

Michael Roecken is a senior software developer with DB2 for Linux, UNIX, and Windows platforms at the IBM Toronto Lab. Michael has worked since 2000 designing, implementing and supporting various features and capabilities in the areas of: backup/restore, crash/rollforward recovery, high availability/disaster recovery, and logging/transaction management.

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IMS

"Getting to Know Your IMS Databases"

Deepak Kohli
IBM

You have heard the acronyms: HSAM, SHSAM, HISAM, SHISAM, HDAM, HIDAM, GSAM & HALDB. Is that a tongue twister or what? Why are there so many IMS database types? When should you use one over the others? Does an application developer have to know what type of an IMS database they are using? Is one more popular than the other? Does one perform better than the others? Why are there so many choices? Why did they make it so complicated? Can Donald Trump really clean up this mess? For answers to these questions and the secret to life, join Deepak Kohli as he simplifies IMS database types like never before.

"Getting to know your IMS Scheduler (or How do those pesky IMS transactions get scheduled?)"

Deepak Kohli
IBM

IMS is well known as a high availability and high performing transaction manager. Most IMS transactions are processed in sub second response times. But that high performance requires a keen understanding of the IMS scheduler and the various scheduling related options. This session will provide a high level view of the IMS scheduler and then go into depths about the various scheduling options such as: transaction class, transaction priority, Transaction Limit count, Transaction Processing Limit count, WFI, PWFI, etc.

Deepak Kohli is a Senior Software Engineer at IBM's Silicon Valley lab. Currently, he is part of the IMS Product management team helping customers modernize and SOA-enable their IMS systems. Deepak also provides IMS Level 2 technical support specializing in IMS On Demand and TM areas. He has a Masters in Computer Science from NYU. In the area of IMS, Deepak's experience ranges across applications, DBA, Systems, performance tuning and problem determination. He has taught various IMS and DB2 courses. His presentations have won him rave reviews at conferences worldwide.

"IMS TM modernizes for Cloud, Mobile, and API Readiness"

(IMS Masters 2: Enhanced cloud and mobile modernization for a premier server - IMS TM from zTech U)

Suzie Wendler
IBM

As the enterprise environment continues to evolve with the emerging complexities of new technologies and business requirements, IBM IMS, running on the z Systems platform, has also evolved to respond to those needs. This session shows the rich

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native function and enhanced capabilities that IMS TM delivers with OTMA (Open Transaction Manager Access) clients such as IMS Connect, and the interfaces that support a hybrid cloud solution. We also highlight the newest capabilities for mobile access using z/OS Connect and the IMS Service Provider.

"Make z/OS your platform of choice for developing and hosting APIs"

Suzie Wendler

IBM

IBM enterprise clients have a wealth of assets at their disposal, ready to combine in powerful new ways. These assets are critical to success, but as disparate assets from multiple subsystems, where do you start? We'll show you how to quickly build, deploy, and test APIs on z/OS, built from these very assets, creating cloud-ready opportunities for business growth. You'll also simplify access to z/OS for your developers who use REST and Open API (Swagger), shrinking time-to-market. We will highlight z/OS Connect Enterprise Edition, IBM z Systems Development and Test Environment (RD&T), and z/OS Connect Tools: enterprise-ready capability that enables you to build, deploy, test, and manage APIs that incorporate CICS, IMS, and DB2 assets.

Suzie Wendler is a Consulting I/T Specialist in the IBM IMS zGrowth Team. Over the past several years, her major responsibilities have included areas such as customer support, critical situation analyses, IMS Integration, and Connectivity projects. She has been involved in several onsite consulting projects including implementations of connectivity designs and Proofs of Technology. Additionally, she has presented at several User Groups, including Share and the IMS regional user groups; has been involved in IBM-sponsored activities such as technical seminars and roadshows; and has provided both technical and teaching support for IMS hands-on workshops.

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Travelling To The Institute For Learning 3550 Pharmacy Avenue, Scarborough, Ontario, M1W 3Z3

From West:

Follow the 401 east bound to the Don Valley Parkway (DVP) exit. From this exit take the 404 north. Follow the 404 north to Steeles and Woodbine exit (Exit 22). Stay to the right of the exit, as you will be turning right on to Steeles. Once on Steeles, go to the third set of lights, which is **Pharmacy Avenue**, and turn right. Follow Pharmacy Avenue south to the first driveway and turn right. Follow the driveway to the parking lot, which is located on the West side of the building.

From East:

Follow the 401 west bound to the Don Valley Parkway (DVP) exit. From this exit take the 404 north. Follow the 404 north to Steeles and Woodbine exit (Exit 22). Stay to the right of the exit, as you will be turning right on to Steeles. Once on Steeles, go to the third set of lights, which is **Pharmacy Avenue**, and turn right. Follow Pharmacy Avenue south to the first driveway and turn right. Follow the driveway to the parking lot, which is located on the West side of the building.

From North:

Follow the 404 south to Steeles Avenue. Turn left on to Steeles and at the fourth set of lights, which is **Pharmacy Avenue**, turn right. Follow Pharmacy Avenue south to the first driveway and turn right. Follow the driveway to the parking lot, which is located on the West side of the building.

From South:

Follow the Don Valley Parkway (DVP) north and once you cross over the 401, it becomes the 404. Follow the 404 north to Steeles and Woodbine exit (Exit 22). Stay to the right of the exit, as you will be turning right on to Steeles. Once on Steeles, go to the third set of lights, which is **Pharmacy Avenue**, and turn right. Follow Pharmacy Avenue south to the first driveway and turn right. Follow the driveway to the parking lot, which is located on the West side of the building.

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ACCOMMODATION

- [Hilton Suites Conference Centre](#)
8500 Warden Ave, Markham, ON (beside the IBM Toronto Lab in Markham)
- [Courtyard Marriot](#)
7095 Woodbine Ave, Markham, ON
- [Sheraton Parkway Toronto North Hotel & Suites](#)
Highway 404 and Highway 7, Richmond Hill, ON
- [Courtyard Toronto Markham](#)
65 Minthorn Court, Markham, ON

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Users Group Meeting Registration

We now accept payments by cheque, Pay-Pal, and credit cards.

Regardless of your payment option, please email the following form to registration@ccdb2.ca, and indicate which session you wish to attend, i.e. DB2 for z/OS, DB2 for LUW, or IMS

If you would like to pay on-line via Pay-Pal or credit card, please follow this link:

<http://www.ccdb2.ca/paypal.htm>

Otherwise, please print and complete this form, and mail with a cheque for the appropriate amount to the address below.

Please make cheques payable to: "Central Canada DB2 Users Group".

Please Note:

- **Registrations must be received by Wednesday May 31st, 2017.**
- **Sorry - NO WALK-INS.**

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Meeting Registration June 5 – June 6, 2017 BMO's Institute for Learning

Company: _____

Address: _____

City: _____ Postal Code: _____

Tel: _____ Email: _____

2 Days DB2 for z/OS: _____ \$350 per person (Includes HST)

2 Days DB2 for Linux,
UNIX, Windows: _____ \$350 per person (Includes HST)

1 Day IMS : _____ \$200 per person (Includes HST)

HST# R123621492

Total Enclosed: \$ _____

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Please Note:

No-shows and cancellations on less than 72 hours' notice will be invoiced for the full amount