

Thursday July 25, 2019 – OCEAN TechCon19
Session Schedule - Updated as of May 17, 2019

Time	Innovation & Modernization Technologies to Innovate, Modernize & thrive.	Professional Development Topics to enhance your business skills.
8:00 AM to 9:00 AM	What the South Dakota vs. Wayfair decision means for IBM i Users who have out of state transactions and how Economic nexus has been newly defined by The Supreme Court of the U.S. Buk Kapadia-Jackson - Avalara	Application Developer Modernization Jumpstart Charles Guarino & Mike Pavlak
9:10 AM to 10:10 AM	Build a Dazzling Web App on IBM i in Under 10 Minutes — with No Coding! Robert Swanson CNX	How to Ensure the Success of Every Project Richie Palma
10:20 AM to 11:20 AM	Modernization	Building Your Personal Brand Richie Palma
11:30 AM to 12:30 PM	Fresche Strategies for IBM i Modernization Success Mike Pavlak & Eamon Musallam Fresche Solutions	Overview of Open Source on IBM i Jesse Gorzinski
12:30 PM To 1:30 PM	Lunch & Networking	
1:30 PM to 2:30 PM	Discover the Power to Become an IBM i Hero for Your Company Orlando Ferrer inFORM Decisions	Writing Skills Eamon Musallam
2:40 PM to 3:40 PM	Go Beyond Modernization Alex Roytman Profound Logic	Fitting Continuous Learning into Your Busy Schedule Richie Palma
3:50 PM to 4:50 PM	Syncsort	Interviewing Skills For Both Sides Linda O'Neil

Friday July 26, 2019 – OCEAN TechCon19
Session Schedule - Updated as of May 17, 2019

Time	<u>TRACK 1</u> <i>Modern Programming</i>	<u>TRACK 2</u> <i>Database & SQL</i>	<u>TRACK 3</u> <i>New Technology</i>	<u>TRACK 4</u> <i>Open Source</i>	<u>TRACK 5</u> <i>Modernize!</i>	<u>TRACK 6</u> <i>Systems Management/ Security</i>
8:00 AM to 9:00 AM	RPG! It's Alive with New Treasures! Charles Guarino	MariaDB on IBM i Erwin Earley	IBM i Meets IoT Jesse Gorzinski	Session 4A	Business Uses for Python on IBM i Mike Pavlak	Cool Things in Navigator to be a Rock Star Administrator Pete Massiello
9:00 to 9:30	Vendor Solutions Expo and Coffee Break					
9:30 AM to 10:30 AM	RDi and Git - The Basics Charles Guarino	Advanced Embedded SQL Birgitta Hauser	Conquer the IBM i World with Open SSH Jesse Gorzinski	Artificial Intelligence (AI) & Watson Alex Roytman	Advanced Python Programming and IBM i Mike Pavlak	How to Successfully Upgrade to IBM i 7.4 & 7.3 - Pete Massiello
10:45 AM to 11:45 PM	Clean Code that Works: Test-Driven Development and xUnit Patrick Behr	OLAP (Online Analytical Processing) Functions – Much More than Running Numbers! Birgitta Hauser	Session 3C	Node.js Alex Roytman	IBM i Security for Programmers Robin Tatam	HMC, IBM i, FSP, & Firmware: Putting All the Pieces Together Pete Massiello
11:45 To 1:00	Lunch and Vendor Solutions Expo					
1:00 PM to 2:00 PM	IMHO SQL's Most Useful Features Simon Hutchinson	Session 2D	Session 3D	Building and Managing PHP Applications Fast for IBM i Erwin Earley	IBM i in a Modern Compute Environment Richie Palma	IBM i Security: The Good, Bad, and the Downright Ugly Robin Tatam
2:15 PM to 3:15 PM	The Business, Science, and Uses of ILE Service Programs Charles Guarino	Generating JSON Documents with SQL Birgitta Hauser	Managing Open Source on IBM i with Containers and Chroot Jesse Gorzinski	Exploring NoSQL Databases Erwin Earley	Session 5E	Configuring & Using IBM i Auditing Features Robin Tatam
3:15 to 3:45	Vendor Solutions Expo and Refreshment Break Prize Drawings in the Vendor Expo Room at 3:30 PM					
3:45 PM to 4:45 PM	The "Best Stuff" of Advanced RDi Charles Guarino	Consuming JSON Documents and Web Services with SQL Birgitta Hauser	It's IBM i, Damn It! Why the Name Matters Jesse Gorzinski	Session 4F	Session 5F	Tips and Tricks to Improve System Performance & Save Disk Space Pete Massiello

The OCEAN User Group reserves the right to make changes to the Session Schedule. View updates at oceanUserGroup.org

Saturday, July 27, 2019 – National University – Workshops & Hands-on Labs

Includes lunch! – Updated as of May 17, 2019

1. **Application Modernization Database Workshop – Birgitta Hauser – 9:00 am – 4:00 pm**

Today, when we talk about application modernization, most think about having to reface their application and going mobile. New technologies will be used to change the layout and programs will be rewritten. ... but what will a nice design be worth if the base, i.e. the underlying database is still in your grandfather's style, grown over the years with lots of redundancies? In this workshop you will learn why to go from DDS to SQL, what are the benefits of SQL over DDS. Techniques for converting and redesigning your existing grown over the time database into a modern normalized database will be shown. In a modern environment database objects can and must be accessed from multiple interfaces and programming languages.

Agenda:

Modernization Goals - Moving Business Logic into Database - DDS described logical files versus Views versus Indexes – Views - Binary Radix Tree Indexes - Encoded Vector Indexes - DDS described physical files versus SQL Tables - Unique Identifier (Identity columns, RowId, Sequences, Generate_Unique) - CREATE OR REPLACE – From DDS to SQL - Row and Column Access Control (RCAC) - Temporal Tables - Journaling and Commitment Control - Constraints and Referential Integrities - System and SQL Trigger - Instead Of Trigger. **Please see the session abstract for a complete description of this workshop.**

2. **Linux on Power Systems & Shell Programming Workshop – Erwin Earley – 9:00 am – 3:30 pm**

Setting up Linux on Power Systems: So, you've decided to take the plunge and explore Linux on your Power system but don't know where to start? This session will explore how to install Linux on a Power system, both PowerVM as well as the KVM hypervisor will be covered as well as hosting Linux I/O from an IBM i instance. **Linux Administration Part I & 2:** You've decided to embrace Linux in your shop but not sure how to administer it – this session is for you. This session will take a look at a number of administration topics including installation, boot process, Linux devices, virtual file systems, storage management, user management and Linux file systems. Part 2 of the Linux Administration topic will continue where part 1 left off and take a look at administration topics such as working in the Linux shell, managing software packages, security, network management, monitoring and troubleshooting, and Linux management tools.

Shell Programming: If you are going to work in the Linux operating system, or PASE for that matter, then understanding how to program in the shell is an important skill that you must possess. This session will introduce you to the basic shells that are available and go through a number of programming constructions including looping, functions, and I/O processing.

Please see the session abstract for a complete description of this workshop.

3. **Python – Hands-on Lab – Mike Pavlak – 9:00 am – 5:00 pm**

Python is a language that has been perceived as infrastructure or plumbing in the IT department, much like CL. While this is an excellent use for Python, it has emerged as a strategic language for application development, too. In this workshop we'll explore the implementation, syntax and application use cases of Python on IBM i. From a fundamentals perspective you will get hands on experience using the command line, shell environment, script creation, storage and execution. As we progress through the workshop, we will delve into Db2 data access and program calls using XML Service as well as a brief tour of frameworks. Then we'll wrap things up with how open source applications built in Python can add value to your IT environment.

4. **Node.js – Hands-on Lab/Workshop – Jesse Gorzinski and Aaron Magid – 9:00 AM – 4:00 PM**

Node.js is one of the fastest growing runtimes and is being used by enterprises to quickly deliver differentiating solutions which take full advantage of the cloud. Join us for a day of education and hands-on experience. In the morning, you will receive education about the many benefits of using Node.js. You will also learn how to connect Node.js to Db2 for i using the IBM-provided open source libraries. You will also learn how to obtain support. **After lunch, you will get some hands-on experience** as we will teach you how to use JavaScript and develop your first project with Express.js, a popular web application framework. From there we will cover important tools for Enterprise-level Node.js such as TypeScript, a type-safe language useful for developing more robust applications. Finally, we will demonstrate the power of Loopback, a highly-extensible framework by IBM that excels at quickly generating APIs that connect back-end services to requests. We will teach Node.js in terms that RPG developers are familiar with, and demonstrate why Node.js is a perfect match for doing business on your IBM i.