



NoCOUG FALL CONFERENCE 2019

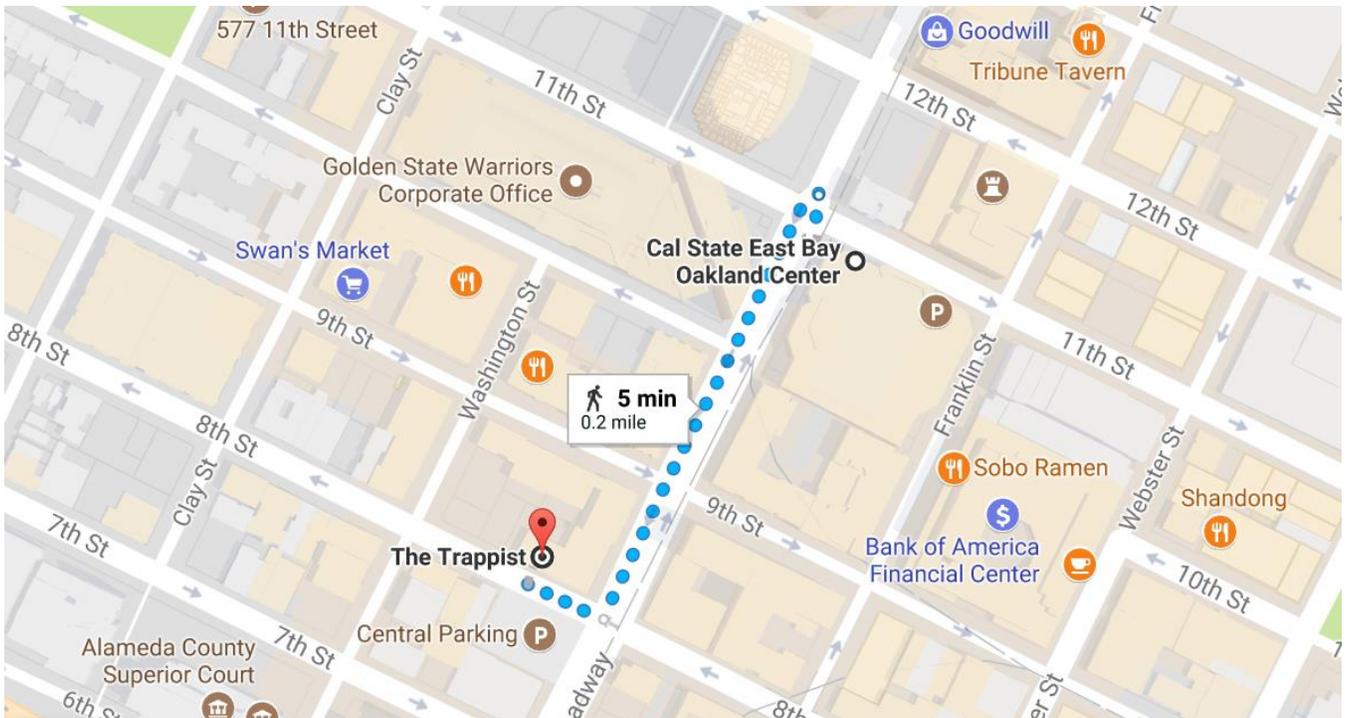
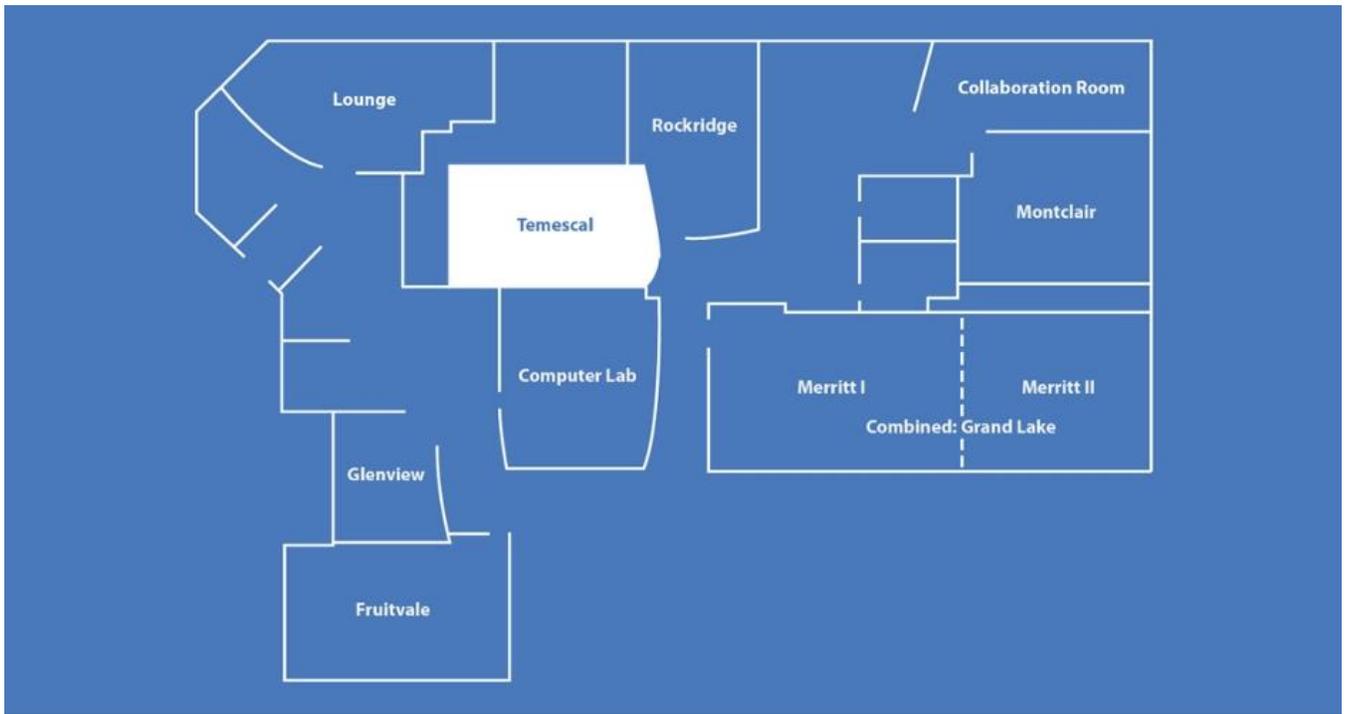
Thursday, November 21, 2019

CSU East Bay Oakland Center in the Trans Pacific Centre, 1000 Broadway, Suite 109 Oakland, CA 94607

Free for NoCOUG members, Oracle employees, first-time NoCOUG conference attendees, full-time faculty, and full-time students

8:30–9:00	REGISTRATION AND CHINESE BREAKFAST PASTRIES yum!		
	ROCKRIDGE (floor plan on the back) CLOUD WORKSHOP	MONTCLAIR (floor plan on the back) BEST OF OPENWORLD	TEMESCAL (floor plan on the back) HANDS-ON LABS
9:00–9:30		<i>General Session</i> Iggly Fernandez, NoCOUG president	
9:30–10:15		Keynote <i>Oracle Database: What's New and What's Next</i> Willie Hardie, Oracle	
10:15–10:30	BREAK		
10:30–11:15	<i>Extra-Large Oracle Databases on AWS—Artem Danielov, FlashGrid</i>	<i>Oracle Autonomous Database: A Look Under the Hood</i> Nilay Panchal, Oracle	Hands-On Lab <i>Quickly Build Python Apps with Oracle Autonomous Transaction Processing Database</i> Santosh Kumar Ramarathnam & Rajneesh Tiwary, Oracle
11:15–11:30	BREAK		
11:30–12:15	Case Study <i>Hotwire.com Cloud Migration Without Downtime or Business Impact</i> Val Gornyitzki, Hotwire.com	<i>Maximum Availability Architecture: Best Practices Updates for On-Premises and Cloud</i> Saurav Das, Oracle	
12:15–13:15	CHINESE BUFFET LUNCH yum! SPONSORED BY ORACLE		
13:15–14:00	<i>Choosing the Right Database Cloud Service for Your Application</i> Tammy Bednar, Oracle	<i>Oracle Active Data Guard: Best Practices and New Features Deep Dive</i> Glen Hawkins, Oracle	Hands-On Lab <i>Quickly Build APEX Apps with Oracle Autonomous Transaction Processing Database</i> David Peake, Oracle
14:00–14:15	BREAK		
14:15–15:00	<i>Oracle Data Safe: Securing Databases in the Oracle Cloud</i> Bettina Schaeumer, Oracle	<i>Introducing Exadata X8M: Latest Hardware and Software Enhancements</i> Bob Thome, Oracle	
15:00–15:15	LAST CHANCE TO COLLECT RAFFLE STAMPS		
15:15–16:00	<i>Introducing Gen 2 Exadata Cloud at Customer</i> Bob Thome, Oracle	<i>Stalking the Hackers: Effective Tips for Auditing and Monitoring Oracle Database</i> Ashok Swaminathan, Oracle	
16:00–16:15	FREE RAFFLE		
16:15–	HOSTED NETWORKING RECEPTION AND NOCOUG BOARD MEETING THE TRAPPIST, 460 8TH ST., OAKLAND, CA 94607 (walking directions on the back)		

Mark your calendars for the next conference on **Thursday, Feb 13**, at Rosewood Commons Conference Center in Pleasanton



Quest flashgrid memSQL

aws ORACLE

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BEST OF OPENWORLD

MONTCLAIR (floor plan on the previous page)

Oracle Database: What's New and What's Next

—*Willie Hardie, Oracle* 9:30–10:15

In this informative session you'll learn about recent Oracle Database news and developments, and take a sneak peek into what's coming next from the Oracle Database development team.

Oracle Autonomous Database: A Look Under the Hood

—*Nilay Panchal, Oracle* 10:30–11:15

This session takes you under the hood of Oracle Autonomous Database so you can really understand what makes it tick. Learn about key database features and how these building-block features put the “autonomous” into Autonomous Database. See how to manage and monitor an Autonomous Database using all the most popular tools, including Oracle Cloud Infrastructure's management console, Oracle SQL Developer, Oracle Application Express, REST, and more. Take a deep dive into what you really need to know to make your DBA career thrive in an autonomous-driven world.

Maximum Availability Architecture: Best Practices Updates for On-Premises and Cloud

—*Saurav Das, Oracle* 11:30–12:15

In this session, Oracle Development takes a deep dive into the latest and greatest Oracle Database high-availability capabilities and best practices. Attendees will gain deep knowledge of Oracle Maximum Availability Architecture (MAA) guidelines that enable them to achieve the highest level of availability with their Oracle Database systems, whether they are housed on-premises or in the cloud. Topics discussed in this session are applicable to any workload, such as OLTP, data warehousing, consolidation, and high-performance in-memory processing. If you care about high availability, this session is for you.

Oracle Active Data Guard: Best Practices and New Features Deep Dive

—*Glen Hawkins, Oracle* 13:15–14:00

Oracle Data Guard and Oracle Active Data Guard have long been the answer for the real-time protection, availability, and usability of Oracle data. Attend this session to get an in-depth look at several key new features that will make your life easier and protect your data in new and more flexible ways. Learn how Oracle Active Data Guard 19c has been integrated with Oracle Database In-Memory and offers a faster application response after a role transition. See how DML can now be redirected from

an Oracle Active Data Guard standby to its primary, for more flexible data protection in today's data centers or your data clouds. Leave this technical deep-dive session with a glimpse of upcoming new features brought to you by Oracle Development.

Introducing Exadata X8M: Latest Hardware and Software Enhancements

—*Bob Thome, Oracle* 14:15–15:00

The Exadata architecture is being transformed to provide the world's most advanced cloud and in-memory functionality for both online transaction processing and analytics using remote direct memory access, dynamic random-access memory, nonvolatile memory, and vector processing. This session provides an overview of current and future Exadata capabilities, including disruptive in-memory, public cloud, and Oracle Cloud at Customer technologies.

Stalking the Hackers: Effective Tips for Auditing and Monitoring Oracle Database

—*Ashok Swaminathan, Oracle* 15:15–16:00

As breach prevention techniques evolve, it's time to focus on using detection to identify threats in the early stages, before a problem becomes a crisis. In this session join the Oracle Database Security Product Management team and see innovations in auditing using Oracle Audit Vault and Database Firewall and also Oracle Data Safe. From tracking all administrative and sensitive account activity to auditing untrusted accounts and raising alerts before significant damages can occur, auditing is a proven, time-tested approach required by most compliance regulations.

CLLOUD WORKSHOP

ROCKRIDGE (floor plan on the previous page)

Extra-Large Oracle Databases on AWS

—*Artem Danielov* 10:30–11:15

Running 100+ TB Oracle databases on AWS has not been practical because of capacity, performance, and high availability challenges. This is changing now with the recent introduction of i3en.metal EC2 instances that feature 100 Gb/s network speeds and 60 TB of local SSD storage. In this presentation, we discuss how SkyCluster enables extra-large Oracle RAC databases using the new i3en.metal EC2 instances and cover various cluster configurations depending on capacity and performance requirements.

Hotwire.com Cloud Migration Without Downtime or Business Impact

—*Val Gorniytzki, Hotwire.com* 11:30–12:15

Learn how Hotwire.com migrated its application stack to AWS cloud without downtime and business impact, and

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overcame the challenges faced when uplifting to the cloud.

Choosing the Right Database Cloud Service for Your Application

—*Tammy Bednar, Oracle* 13:15–14:00
Oracle Cloud provides automated, customer-managed Oracle Database services in flexible configurations to meet large or small needs with the performance of dedicated hardware. On-demand and highly available Oracle Database, on high-performance bare-metal servers or Exadata, is 100% compatible with on-premises Oracle workloads and applications, so you can move between the two platforms seamlessly. Oracle Database Cloud allows you to start at the cost and capability level suitable to your use case and then gives you the flexibility to adapt as your requirements change over time. Join this session to learn about Oracle Database cloud services.

Oracle Data Safe: Securing Databases in the Oracle Cloud

—*Bettina Schaeumer, Oracle* 14:15–15:00
Join Oracle Database Security product management to learn more about this exciting new cloud service. Oracle Data Safe gives you a single pane of glass to assess configuration risk, evaluate database users, manage audit settings, report on database activity, discover sensitive data, and remove sensitive data from nonproduction copies of the database.

Introducing Gen 2 Exadata Cloud at Customer

Bob Thome, Oracle..... 15:15–16:00
This session explores the fundamentals of Oracle Exadata Cloud at Customer: networking, security, management, and monitoring. Learn how you can leverage the world’s most advanced database, Exadata, as a cloud service, without data ever leaving your on-premises data center.

HANDS-ON LABS

TEMESCAL (floor plan on the previous page)

Quickly Build Python Apps with Oracle Autonomous Transaction Processing Database

—*Santosh Kumar Ramarathnam & Rajneesh Tiwary, Oracle* 10:30–13:15
Experience a day in the life of Derek McCarthy—a full-stack developer for the fictitious company Alpha Office. Derek has been hired to introduce new best practices to Alpha Office microservices developers. In this workshop you will take on Derek’s persona to build a series of three cloud-based microservices database applications. In doing so, you will leverage the latest and most advanced Oracle and open-source technologies.

As Derek, you will spin up a new Oracle Cloud Developer Image from the Oracle Marketplace to quickly and easily deploy a complete development environment that is accessible from any location. You will also deploy the Oracle Autonomous Transaction Processing (Autonomous Transaction Processing) Cloud Service, providing the full power of the Oracle database while requiring minimal administrative effort and minimal database knowledge and training.

Additionally, as Derek, you will work within the Oracle Cloud Developer Image to create Python microservices. You will utilize the best open-source technologies to complement the Python language, including the Visual Studio Code IDE, the Flask micro web framework, the Bokeh interactive visualization library, and the ReactJS Facebook JavaScript library.

Finally, as Derek, you will create a pair of spatial applications. To do this you will utilize the GeoPandas extensions to Python together with Oracle Spatial functionality within the Autonomous Transaction Processing database.

Quickly Build APEX Apps with Oracle Autonomous Transaction Processing Database

—*David Peake, Oracle* 14:15–16:00
The first lab walks you through uploading a spreadsheet into an Oracle database table and then creating an application based on this new table. You will then play with the Interactive Report and improve the attached form. Finally, you will add a Calendar page and then link it to the existing form page. Rather than trying to email a spreadsheet to gather information from different people, simply create an app in minutes and email the URL. This single source-of-truth, multiuser, secured, scalable app is so much better than having 20 (incomplete) spreadsheets!

The second lab starts with a napkin design of data structures that we would like to use for a proof of concept. Using Quick SQL you will quickly define the data structures and utilize various table and column directives to better define the tables and also create some dummy data. You will then be creating an application based on the new tables. Finally, you will be updating some of the generated components to improve the initial app. You’ll go from napkin design to a demo-ready, proof-of-concept app, complete with some dummy data, in minutes. Voila!