

Silhouettes of palm trees and a surfboard are positioned in the center of the poster, set against a background of a geometric pattern in shades of teal, yellow, and purple. The palm trees are on the right, and the surfboard is on the left.

ANNUAL MEETING

*November 7-10, 2021 • San Diego, CA
Marriott Marquis San Diego Marina*



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2021 ANNUAL MEETING

November 7-10, 2021

Marriott Marquis San Diego Marina
San Diego, CA

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Antitrust Notice

The Casualty Actuarial Society is committed to adhering strictly to the letter and spirit of the antitrust laws. The full CAS Antitrust Compliance Policy (<http://bit.ly/20UMw6Z>) clarifies prohibited activities and responsibility of all attendees.

General Information

For more information on the following, please consult the CAS Annual Meeting website, www.casact.org/annual or the Annual Meeting app on your smartphone.

Speaker Opinions

The opinions expressed by speakers at this event are their own and do not necessarily reflect the positions of the CAS.

Registration Hours

The registration desk will be open as follows at the Pacific Ballroom Foyer:

Sunday, November 7 - 4:00 p.m. – 7:30 p.m.

Monday, November 8 - 7:00 a.m. – 5:30 p.m.

Tuesday, November 9 - 7:00 a.m. – 1:00 p.m.

Wednesday, November 10 - 7:00 a.m. – 1:00 p.m.

Security Note: When leaving the meeting room for an extended period of time, please take valuables and personal belongings with you. Neither the CAS nor the Marriott Marquis San Diego Marina may be held responsible for lost or stolen items.

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Attendees of the CAS Annual Meeting have access to complimentary Wi-Fi throughout the hotel.

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Celebration of New Members

**Monday, November 8, 8:00 a.m. – 8:45 a.m., Pacific Ballroom
18-22**

All meeting attendees are invited and encouraged to attend this session. Come celebrate the achievements of new CAS members!

Featured Speaker Eric Siegel, Ph. D.

Author, Predictive Analytics: The Power to Predict Who Will Click, Buy, Lie or Die

Founder, Predictive Analytics World

❑ Forging a Successful Path to Machine Learning Deployment

**Monday, November 8, 9:15 a.m. - 10:15 a.m., Pacific Ballroom
18-22**



Eric Siegel, Ph.D., is a leading consultant and former Columbia University professor who makes machine learning understandable and captivating. He is the founder of the Predictive Analytics World and Deep Learning World conference series, which have served more than 17,000 attendees since 2009, the instructor of the acclaimed online course “Machine Learning Leadership and Practice—End-to-End Mastery,” a popular speaker who’s been commissioned for more than 110 keynote addresses, and executive

editor of *The Machine Learning Times*. He authored the bestselling *Predictive Analytics: The Power to Predict Who Will Click, Buy, Lie, or Die*, which has been used in courses at more than 35 universities, and he won teaching awards when he was a professor at Columbia University, where he sang educational songs to his students. Siegel also publishes op-eds on analytics and social justice.



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More detail about the sessions and speakers is found on the CAS Meeting app. All sessions will be recorded (simultaneously audio, slides), except where indicated.

Key to Complexity of Sessions



Basic. No prior knowledge of the subject matter is assumed. Little or no technical content.



Intermediate. General knowledge of the subject matter is assumed. Moderate technical content.



Advanced. Working knowledge of the subject matter is assumed. Moderate to highly technical content.



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Sessions by Theme

Each concurrent session is grouped by a primary theme, although sessions may cover multiple themes.

Automated Vehicle
Business Analytics
Business Skills
CAS
Climate Change
Commercial Lines
Cyber Risk
Data Management
Emerging Risks
ERM
International
Other
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“Galecki matched me with a company where they knew I would succeed.

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MEETING SCHEDULE

Sunday, November 7

4:00 p.m. – 7:30 p.m.	Registration.....
4:30 p.m. – 6:30 p.m.	Exhibits.....
5:00 p.m. – 6:30 p.m.	Recognition Reception for New Associates
5:00 p.m. – 6:30 p.m.	Group Photos of New Associates.....
6:30 p.m. – 7:30 p.m.	Welcome Reception.....

Monday, November 8




7:00 a.m. – 5:30 p.m.	Registration.....
7:00 a.m. – 8:30 a.m.	Continental Breakfast.....
8:00 a.m. – 8:45 a.m.	Celebration of New Members (also Webcast)
8:45 a.m. – 9:15 a.m.	Refreshment Break & Exhibits
8:45 a.m. – 9:15 a.m.	New Fellow Group Photo Session
9:15 a.m. – 10:15 a.m.	Featured Speaker, Eric Siegel (also Webcast)
10:15 a.m. – 10:45 a.m.	Business Session w/Presidential Address (also Webcast)
10:45 a.m. – 11:45 a.m.	Town Hall with CAS Leaders (also Webcast)
11:45 a.m. – 12:45 p.m.	Luncheon.....

MEETING SCHEDULE

.....	Pacific Ballroom Foyer
.....	Pacific Ballroom Foyer
.....	Marriott Grand Ballroom Terrace
.....	Grand Ballroom Foyer
.....	Marina Terrace
.....	Pacific Ballroom Foyer
.....	Marina Terrace
.....	Pacific Ballroom 18-22
.....	Pacific Ballroom Foyer
.....	Pacific/Grand Ballroom Stairs
.....	Pacific Ballroom 18-22
.....	Pacific Ballroom 18-22
.....	Pacific Ballroom 18-22
.....	Marina Terrace















MEETING SCHEDULE

12:45 p.m. – 2:00 p.m. General Session I.....

General Session I			
		 	GS-1

2:00 p.m. – 2:30 p.m. Refreshment Break & Exhibits

2:30 p.m. – 3:45/4:00 p.m. **Concurrent Sessions 1**

Concurrent Sessions 1 (2:30 p.m. – 3:45 p.m.)			
	Pacific Ballroom 15		CS-3
	Pacific Ballroom 18-22	 	CS-6
	Pacific Ballroom 16-17	 	CS-2
	Torrey Pines	 	CS-10
	Rancho Santa Fe	 	CS-4

MEETING SCHEDULE





.....Pacific Ballroom 18-22

	The Science Behind Our Models, the IPCC 6th Assessment	Rade Musulin, ACAS, CCRMP; Alex Pui, Linda Mearns

..... Pacific Ballroom Foyer








	An Update on Wildfire Activity, Modeling and Regulation	Howard Kunst, FCAS, CCRMP; David Evans, FCAS; Ben Carrier, FCAS (moderator)
	CAS Race and Insurance Pricing Research—Defining Discrimination and Quantifying Disparate Impact in Insurance	Kudakwashe Chibanda, FCAS; Roosevelt Mosley, FCAS, CSPA; Mallika Bender, FCAS
	Actuary: Required Team Member for New Product Risk Analysis	Kenneth Radigan; Teresa Chan; Alejandro Zarate Santovena; Nick Weltmann, FCAS; Kendra Letang, ACAS (moderator)
	Data Innovation & Management for The Insurance Ecosystem	Wendy Aarons-Corman; Barry Bablin, FCAS; Philip Borba, CSPA
	Building a Framework for Casualty Cat Modeling	Eric Dynda, FCAS; Theodore Bowie, ACAS; Krish Kamdar; Wenwen Sun, ACAS (moderator)

MEETING SCHEDULE

Highly Interactive Concurrent Sessions (2:30 p.m. - 4:00 p.m.)				
	Pacific Ballroom 23-24		CS-27	
	Pacific Ballroom 25-26		CS-30	

3:45 p.m. – 4:15 p.m. Refreshment Break & Exhibits

4:15 p.m. – 5:30/5:45 p.m. **Concurrent Sessions 2**

Concurrent Sessions 2 (4:15 p.m. – 5:30 p.m.)				
	Rancho Santa Fe		CS-25	
	Pacific Ballroom 15		CS-19	
	Pacific Ballroom 16-17		CS-39	
	Torrey Pines		CS-28	

MEETING SCHEDULE

	Pandemic Impacts, Insights and Strategies for Facing the “New Normal”	Sandee Perfetto; Erin Davidson, FCAS; Raul Retian, FCAS, CPCU; Frank Gribbon, FCAS (moderator)
	Professionalism: A Deep Dive on the Code	Michael Speedling, ACAS; Esther Becker, ACAS; Kenneth Hsu, FCAS, CSPA; Ronald Kozlowski, FCAS

..... Pacific Ballroom Foyer

	Net Zero Insurance and the Role of the Actuary	Don Reed; Graham Hall; Ron Kozlowski, FCAS (moderator)
	GBMs: The Real Impact of a Rate Change	Serhat Guven, FCAS; Michael McPhail, FCAS; Ben Carrier, FCAS (moderator)
	Travelers Actuarial Reserving Cooking Show	Darian Garner; Wesley Griffiths, FCAS; Colin Heydorn, FCAS; Nicholas LaPenta, FCAS; Deborah Mergens; Rachel Warner; Marci Freida; Erich Brandt, FCAS (moderator)
	Pet Insurance Market Activity, Trends and Key Issues	Morgan Butz, ACAS; Brian Chiarella, FCAS; Kenneth Hsu, FCAS, CSPA (moderator)

MEETING SCHEDULE

	Pacific Ballroom 18-22		CS-31	
Highly Interactive Concurrent Sessions (4:15 p.m. - 5:45 p.m.)				
	Pacific Ballroom 23-24		CS-13	
	Pacific Ballroom 25-26		CS-20	

6:15 p.m. – 7:15 p.m.

Officers' Reception for New Fellows.....

Tuesday, November 9

7:00 a.m. – 1:00 p.m.

Registration.....

7:00 a.m. – 7:50 a.m.

Snap Sessions.....

7:00 a.m. – 8:30 a.m.

Continental Breakfast.....

8:00 a.m. – 9:15 a.m.

General Session II.....

General Session III

General Sessions II, III			
		GS-2	

MEETING SCHEDULE

	Proposed Changes to the U.S. Qualification Standards	Kendall Williams, FCAS; Esther Becker, ACAS
	Effective Presentations to a Nontechnical Audience, Part 1	Beth Fitzgerald, FCAS; Somil Jain, FCAS; Dave Core
	GitHub 101: A Practical, Hands-On Tutorial	Brian Fannin, ACAS, CSPA

..... Marina Terrace

..... Pacific Ballroom Foyer

..... Pacific Ballrooms 23-24 & 25-26

..... Marina Terrace

..... Pacific Ballroom 18-22

..... San Diego Ballroom

	Ransomware and Other Cyber Headlines	Monica Shokrai, FCAS; Jonathan Laux, FCAS; Emma Ye
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MEETING SCHEDULE

	  	GS-3	
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8:30 a.m. – 2:30 p.m. Student Program

9:15 a.m. – 9:35 a.m. Transition Break & Exhibits

9:45 a.m. – 11:00/11:15 a.m. **Concurrent Sessions 3**

Concurrent Sessions 3 (9:45 a.m. – 11:00 a.m.)				
	Pacific Ballroom 16-17		CS-32	
	Torrey Pines		CS-33	
	Pacific Ballroom 15		CS-12	
	Pacific Ballroom 18-22	  	CS-38	
	San Diego Ballroom	  	CS-17	

MEETING SCHEDULE

Surplus Lines Market Trends

Mark Smith; Benoit Carrier,
FCAS; Ron Kozlowski, FCAS

Presidio

Pacific Ballroom Foyer

Smarter Segmentation
for the Lazy Actuary

Michael McPhail, FCAS;
Serhat Guven, FCAS

Social Media: A New Frontier
for The Modern Actuary

Dominic Lee, ACAS; Frank
Gibbon, FCAS (moderator)

Doing More with Less in
Commercial Lines Pricing
and Underwriting

James Kaufmann; Lon
Chang, FCAS; Peter Buccola;
Rocklyn Altshuler, FCAS





The Startup Nation:
Innovation and Actuarial
Opportunities in Israel

Itai Green; Ofer Brandt; Kendra
Felisky, FCAS (moderator)

Enterprise Risk Management:
The Case For “and/or” Against
Investment in Stocks in a
P&C Insurance Company











Max Rudolph; Francis Chou;
Robert Wolf, FCAS (moderator)

MEETING SCHEDULE

Highly Interactive Concurrent Sessions (9:45 a.m. - 11:15 a.m.)				
	Pacific Ballroom 23-24		CS-14	
	Pacific Ballroom 25-26		CS-35	

11:00 a.m. – 11:30 a.m. Refreshment Break & Exhibits

11:30 a.m. – 12:45/1:00 p.m. **Concurrent Sessions 4**

Concurrent Sessions 4 (11:30 a.m. – 12:45 p.m.)				
	San Diego Ballroom		CS-23	
	Torrey Pines		CS-29	
	Pacific Ballroom 15		CS-21	
	Pacific Ballroom 16-17		CS-24	
	Pacific Ballroom 18-22		CS-5	





MEETING SCHEDULE

	Effective Presentations to a Non-Technical Audience, Part 2	Beth Fitzgerald, FCAS; Dave Core; Somil Jain, FCAS
	Text Analysis for Beginners: A Practical, Hands-On Tutorial	Liam McGrath, ACAS

..... Pacific Ballroom Foyer

	Machine Learning Powered Pricing: from GLMs to GAMs	Gaétan Veilleux, FCAS; Guillaume Beraud-Sudreau; Boriana Trifonova (moderator)
	Pricing Without a Safety Net	Maureen Stazinski, FCAS; Ann Conway, FCAS; Jordan Paszek, ACAS (moderator)
	Interaction Effect Modeling with Contextual Telematics Events	Nicholas Hamwey, FCAS; Kit Lee; Dalesa Bady, ACAS (moderator)
	MCMC, Easy as ABC: Getting Started with Bayesian Analysis	Brian Fannin, ACAS, CSPA
	Calling All Actuaries: The Need for Risk Experts to Shape Climate Action	Carolyn Kousky; Nancy Watkins, FCAS; Serena Sowers; Ron Kozlowski, FCAS (moderator)

MEETING SCHEDULE













Highly Interactive Concurrent Sessions (11:30 a.m. - 1:00 p.m.)				
	Pacific Ballroom 23-24		CS-11	
	Pacific Ballroom 25-26		CS-42	

1:00 p.m. – 3:00 p.m.

Lunch on Your Own

3:00 p.m. – 4:00 p.m.

Roundtables

Roundtables				
	Pacific Ballroom 16-17		RT-1	
	Pacific Ballroom 25-26		RT-2	
	Pacific Ballroom 15		RT-3	
	Pacific Ballroom 23-24		RT-4	
	Pacific Ballroom 18-22		RT-5	
	Torrey Pines		RT-6	

MEETING SCHEDULE

	Developing Allies at All Levels— What Leaders and Individuals Can Do to Reap the Benefits	Aree Bly; Sandy Lowe, FCAS; Mallika Bender, FCAS (moderator)
	Year-End Appointed Actuary Report—Reasonable Ranges and Risk of Material Adverse Deviation: An Interactive Session of Case Studies of Hard Circumstances	Robert F. Wolf, FCAS; Mary Frances Miller, FCAS; Kathleen Odomirok, FCAS







	Professionalism	Ken Williams, FCAS
	Cyber Risks	Eric Murphy, ACAS
	Insurtech	Chelsea Adler, FCAS
	Why Do So Many Actuaries Still Rely So Much on Spreadsheets?	Brian Fannin, ACAS, CSPA
	Enterprise Risk Management	Dave Ingram
	COVID-19	Kuda Chibanda, FCAS

MEETING SCHEDULE

6:30 p.m. – 9:30 p.m. Tuesday Buffet Dinner
at San Diego Zoo

Wednesday, November 10

7:00 a.m. – 1:00 p.m. Registration.....
7:00 a.m. – 7:50 a.m. Snap Session.....
7:00 a.m. – 8:30 a.m. Continental Breakfast.....
8:00 a.m. – 9:15/9:30 a.m. **Concurrent Sessions 5**

Concurrent Sessions 5 (8:00 a.m. – 9:15 a.m.)			
	Pacific Ballroom 16-17		CS-34
	Pacific Ballroom 18-20		CS-22
	Pacific Ballroom 21		CS-41









MEETING SCHEDULE

..... Buses are provided between Marriott and Zoo;
they begin loading outside the hotel at 6:00 p.m.
and run in a continuous loop throughout the event.

..... Pacific Ballroom Foyer
..... Pacific Ballroom 23-24
..... Marina Terrace

	Taking Actuarial Banking to the World	Kudzai Chigiji; Christiaan Opperman; Iain Allan; Jerome Mahadeo; Kieran Hartzenberg; John Young; Lucas Li, FCAS (moderator)
	It's Not All Social Inflation—Is General Inflation Back for Real? Worldwide Overview of How Actuaries Should Consider These Two Forms of inflation	Timothy McCarthy, ACAS; Elliot Burn, FCAS; David Clark, FCAS; Angela Redding; Frank Gibbon, FCAS (moderator)
	University Award Program	Stefanos Orfanos, FCAS; Brian Hartman; Jae Kyung Woo; Wenwen Sun, ACAS (moderator)

MEETING SCHEDULE

	Pacific Ballroom 15		CS-1	
	Rancho Santa Fe		CS-16	
Highly Interactive Concurrent Sessions (8:00 a.m. - 9:30 a.m.)				
	Pacific Ballroom 23-24		CS-9	
	Pacific Ballroom 25-26		CS-40	

9:30 a.m. – 10:00 a.m. Refreshment Break & Exhibits

10:00 a.m. – 11:15/11:30 a.m. **Concurrent Sessions 6**

Concurrent Sessions 6 (10:00 a.m. – 11:15 a.m.)				
	Pacific Ballroom 15		CS-15	
	Pacific Ballroom 21		CS-26	

MEETING SCHEDULE

	Actuaries Transitioning into Tech and Insurtech	Monica Shokrai, FCAS; Chelsea Adler, FCAS; Ruoshu Chen, FCAS; Kenneth Hsu, FCAS, CSPA (moderator)
	Enterprise Risk Management: Considerations of Holding Company Structure, Group Capital and Liquidity As It Relates to Capital Adequacy	Raju Bohra, FCAS; Greg Dickerson; Robert Wolf, FCAS (moderator)
	COVID: Lies, Damned Lies and Statistics	Dave Ingram; Guy Avagliano, FCAS; Carl Ashenbrenner, FCAS (moderator)
	Understanding the Big Picture: What Are the Downstream Impacts of Your Analysis or Model?	Dustin Duncan, FCAS; Chris Gross; ACAS, CSPA; Kevin Madigan, ACAS; Kristen Bessette, FCAS

..... Pacific Ballroom Foyer

	Enabling the Exponential Actuary: Evolve From Jobs to Superjobs	Kelly Cusick, ACAS; Taralyn Slusarski, FCAS; Wesley Griffiths, FCAS; Howard Kunst, FCAS, CCRMP; Jack Richards
	New Results in Granular Reserving	Jean-Philippe Boucher, Mathieu Pigeon, Hélène Cossette

MEETING SCHEDULE

	Pacific Ballroom 25-26		CS-37	
	Pacific Ballroom 18-20		CS-8	
	Pacific Ballroom 16-17		CS-36	
	Rancho Santa Fe		CS-18	
Highly Interactive Concurrent Sessions (10:00 a.m. - 11:30 p.m.)				
	Pacific Ballroom 23-24		CS-7	


11:15 am. – 11:45 a.m.

Transition Break

11:45 a.m. – 1:00 p.m.

General Session IV & Adjournment.....

General Session IV			
		GS-4	



	The Road to Vehicle Automation from an Insurance Perspective	Matt Moore; Kay Wakeman; Wenwen Sun, ACAS (moderator)
	Committee On Professional Education Skits	Pat Teufel, FCAS; Sasha Wiegand, FCAS; Daniel Greer, FCAS
	The Evolving Cyber Landscape and Insurance Business Model	Jess Fung; Andrew Newbill, FCAS; Eric Murphy, ACAS; Carl Ashenbrenner, FCAS (moderator)
	Enterprise Risk Management: The Case for Adaptability of Your ERM Program	Dave Ingram; Michael Thompson; Robert Wolf, FCAS (moderator)
	Climate Change: Actuarial Roles and Reserving Impacts	Graham Hall, Adam Kallin, Matthew Shockley

.....Pacific Ballroom 18-22

	Executive Roundtable: Actuaries Making a Splash in Nontraditional Roles	David Wright, ACAS; Tetteh Oteteeye, FCAS; David McFarland, FCAS; Isaac Espinoza, FCAS

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Nicole McArdle
ACAS, MAAA
Associate Actuary



Joey Sveda
ACAS, MAAA
Associate Actuary



Kristen Marshall
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Senior Actuarial Analyst

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ACAS

Krystin Bernacki, Joe Bernard, Sara Cahill, Ryan Diedrich, Dan Kozlowski, Brian Krawczynski, Sovanna Ly, Allan Ouyang, Josh Young

FCAS

Thomas Basile, Caleb Blodgett, Cody DePersia, Andrew Doidge, Mikalai Filon, Trevor Franda, Rob Golightly, Anne Grosse, Christina Kylo, Stephanie Lerner, Tyler Muehlbauer, Katie Schwartz, Winnie Sloan, Alyssa Westfall, Emma Wieduwilt

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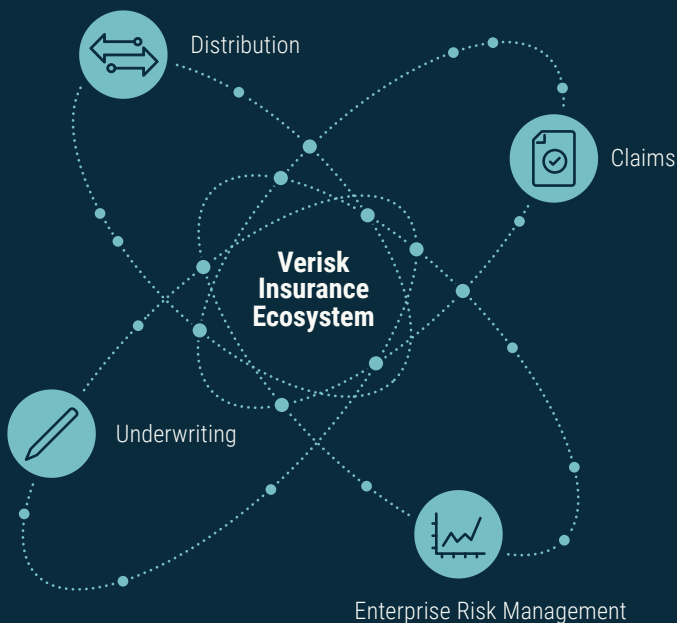
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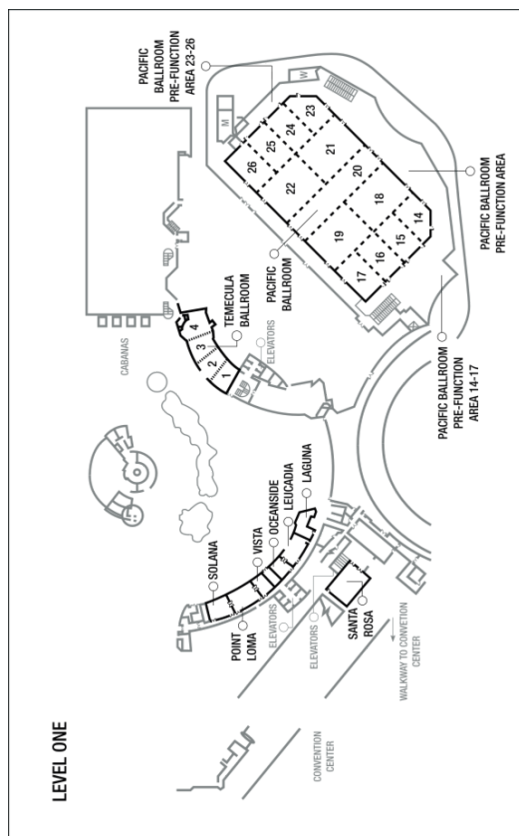
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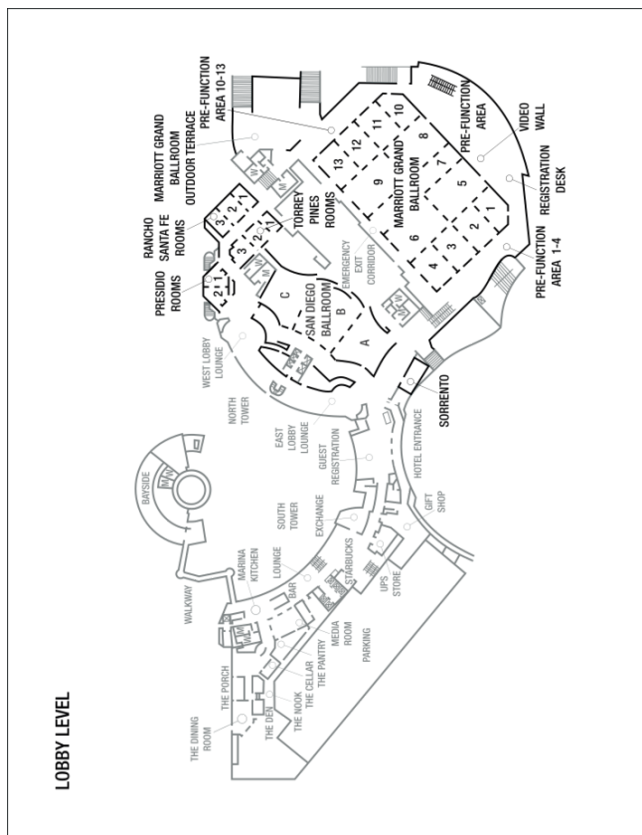
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HOTEL MAPS



HOTEL MAPS



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This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.



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