

The CAS logo consists of the letters 'CAS' in a white, sans-serif font, centered within a blue circle. The background of the entire poster is a dark blue night sky with a bokeh effect of colorful lights (red, orange, yellow, green) and starburst patterns. A large yellow arrow points from the left towards the text.

CAS

A vertical sign with the word 'ANNUAL' written in yellow, sans-serif capital letters inside five purple circular segments. The sign is attached to a thin white pole.

ANNUAL

MEETING

NOVEMBER 11-14, 2018  
CAESARS PALACE LAS VEGAS  
HOTEL AND CASINO • LAS VEGAS, NV



Expertise. Insight.  
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# 2018 ANNUAL MEETING

NOVEMBER 11-14, 2018

CAESARS PALACE LAS VEGAS

HOTEL AND CASINO • LAS VEGAS, NV

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## *General Information*

For more information on the following, please consult the CAS Annual Meeting website, [www.casact.org/annual](http://www.casact.org/annual), or the Annual Meeting app on your smartphone.

## *Consent to Use of Photographic Images*

A photographer will be present at the CAS Annual Meeting. Registration and attendance at, or participation in, CAS meetings, seminars and other activities constitutes an agreement by the registrant to CAS's use and distribution (both now and in the future) of the registrant or attendee's image or voice in photographs, videotapes, electronic reproduction and audiotapes of such events and activities.

## *Antitrust Notice*

The Casualty Actuarial Society is committed to adhering strictly to the letter and spirit of the antitrust laws. Meetings conducted under the auspices of the CAS are designed solely to provide a forum for the expression of various points of view on topics described in the programs or agendas for such meetings. Under no circumstances shall CAS meetings be used as a means for competing companies or firms to reach an understanding — expressed or implied — that restricts competition or in any way impairs the ability of members to exercise independent business judgment regarding matters affecting competition. It is the responsibility of all meeting participants to be aware of antitrust regulations, to prevent any written or verbal discussions that appear to violate these laws, and to adhere in every respect to the CAS antitrust compliance policy.

For more complete information regarding the CAS antitrust compliance policy, please refer to the CAS Website at <http://bit.ly/20UMw6Z>.

## *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 Octavius Foyer:

- Sunday, November 11 - 4:00 p.m. – 6:30 p.m.
- Monday, November 12 - 7:00 a.m. – 4:30 p.m.
- Tuesday, November 13 - 7:00 a.m. – 11:30 a.m. and 12:45 p.m. – 2:00 p.m.
- Wednesday, November 14 - 7:00 a.m. – 11:45 a.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 Caesars Palace 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.

Choose the login **Caesars Ent\_Guest** and follow the prompts to accept terms and conditions. No password is required.

*Download the CAS Meeting App*



*Tweet at the CAS Annual Meeting!*

We want to hear from you!  
Tweet about the Annual Meeting educational sessions and meeting events using **#CASAnnual**.

*Follow the CAS on Twitter @CASact*

## *Social Media*

**The CAS is on Facebook, Twitter and LinkedIn!** Stay informed by following the CAS on social media for exclusive updates on CAS activities! The CAS Facebook, Twitter and LinkedIn pages will feature many different topics including conference updates, online discussions and industry updates. Join and connect with peers and colleagues and discuss issues important to you.

If you cannot access Facebook, Twitter and LinkedIn from your office, please consider signing up to follow us from your personal account at home.

**Please visit our website at [casact.org](http://casact.org) and click the social media widgets to find our pages!**



*Check out our  
Annual Meeting snapchat filter!*

We're running a custom filter during the Tuesday Evening event at Fremont Street.

## *Celebration of New Members*

**Monday, November 6, 8:00 a.m. – 8:45 a.m., Octavius 12-14 / 20 & 24**

This event includes the Address to New Members given by CAS Past President Bob Conger.

## *Town Hall*

**Tuesday, November 13, 7:00 a.m. – 7:45 a.m., Octavius 12-14 / 20 & 24**

Join CAS and SOA leaders for a livestreamed Town Hall discussion. The leaders will share more information about the proposed combination of the CAS and SOA into one new professional organization and answer your questions. We are committed to keeping you informed throughout this journey and value your feedback along the way. Please visit [StrongerAsOne.net](http://StrongerAsOne.net) for information on the proposed combination.

## *Tuesday Buffet Dinner at Fremont Street Experience*

**6:00 p.m. – 9:00 p.m.**

Las Vegas CAS Street Party! Fremont Street, that is. The Fremont Street Experience is a seven-block entertainment district in historic downtown Las Vegas, and the centerpiece is Viva Vision, the world's largest video screen featuring free light shows every night of the week. CAS Annual Meeting attendees will enjoy dinner during a street party along two city blocks underneath Viva Vision, which will include gaming, entertainment, and music. Buses will be provided for CAS Annual Meeting attendees between Caesars Palace and Fremont Street and begin loading from the Colosseum entrance at 5:15 p.m. and run in a continuous loop throughout the event.

## *Student Ambassador Conference*

### **Pisa**

The Casualty Actuarial Society is hosting 21 CAS Student Ambassadors from 19 universities across North America for a two-day student program, held in conjunction with the Annual Meeting on November 11-12. The program offers an important opportunity to plant the seeds for the future of the CAS by connecting with university student leaders in a meaningful way.

Attendees Will:

- Learn more about the CAS and the property-casualty industry.
- Connect with CAS members and participate in a speed network session.
- Attend professional concurrent sessions and student-specific sessions.
- Take professional headshots.

## *New Vendor Demonstrations (indicated by “V” in session code)*

The CAS is trying something new at the Annual Meeting: Vendor Demonstrations. This is an opportunity for pre-selected vendors to discuss and present a new product or service to benefit P&C actuaries. These are sales demonstrations that will take place alongside the concurrent sessions and may qualify for CE.

## *Sessions by Theme*

Each concurrent session is grouped by a primary theme, although sessions may cover multiple themes. See session titles on pages 10-11.

## CORRESPONDING CONCURRENT SESSIONS AND TIMES

Session Themes	Monday, 1:35 p.m. – 2:50 p.m.	Monday, 3:20 p.m. – 4:35 p.m.	
Business Skills	C-20	C-20B	
CAS		C-12	
Catastrophes	C-26		
Commercial Lines	C-2, C-3	C-33, C-23	
Data Management			
Emerging Issues	C-2, C-39	C-23	
ERM	C-36		
Financial	C-36, C-7	C-6, C-1, V-6	
Innovation		C-9, C-30	
International	C-3		
Personal Lines		C-9, C-33, C-30	
Predictive Modeling	V-4		
Pricing	C-3		
Product Management			
Professionalism	C-4, C-31	C-25	
Regulatory		C-6, C-35	
Research		C-1	
Reserving			
Workers' Comp	C-39		



# CORRESPONDING CONCURRENT SESSIONS AND TIMES

	Tuesday, 10:00 a.m. – 11:15 a.m.	Tuesday, 1:15 p.m. – 2:30 p.m.	Wednesday, 8:00 a.m. – 9:15 a.m.
	C-34	C-37	
		C-15	C-15B
	C-38	C-19	C-19B
	C-8		
	C-10, C-28	C-15, C-18, C-17	C-15B
		C-29	V-3a
		C-13	
	C-8, C-9B		
	C-9B, V-5	C-19	C-19B
		C-22, C-37	C-22B, C-21, V-3b
		V-1	C-14, V-2
		C-18	
	C-25B, C-5, C-29	C-4B, C-32, C-24	C-11
	C-10		
	C-27	C-19	C-16, C-19B, C-22B
	C-24	C-22, C-32	C-22B

# MEETING SCHEDULE

## *Sunday, November 11*

1:00 p.m. – 5:00 p.m.	Student Ambassador Conference .....
4:00 p.m. – 6:30 p.m.	Registration .....
5:00 p.m. – 6:30 p.m.	Recognition Reception for New Associates and their Spouses/Guests .....
	Group Photos of New Associates .....
6:30 p.m. – 7:30 p.m.	Welcome Reception & Exhibits.....

## *Monday, November 12*

7:00 a.m. – 4:30 p.m.	Registration .....
7:00 a.m. – 9:00 a.m.	Continental Breakfast & Exhibits.....
8:00 a.m. – 8:45 a.m.	Welcome, New Member Recognition, Celebration of New Members.....
8:00 a.m. – 5:10 p.m.	Student Ambassador Conference .....
8:45 a.m. – 9:15 a.m.	Refreshment Break & Exhibits .....
8:45 a.m. – 9:15 a.m.	New Member Group Photo Session .....
9:15 a.m. – 10:15 a.m.	Featured Speaker .....
10:15 a.m. – 11:00 a.m.	Presidential Address and Business Session .....
11:00 a.m. – 11:20 a.m.	Refreshment Break & Exhibits .....
11:20 a.m. – 12:35 p.m.	General Session I.....
12:35 p.m. – 1:35 p.m.	Luncheon.....

# MEETING SCHEDULE

.....	Pisa
.....	Octavius Foyer
.....	Roman I/II
.....	Verona
.....	Octavius 9-11 / 4 & 25
.....	Octavius Foyer
.....	Octavius 9-11 / 4 & 25
.....	Octavius 12-14 / 20 & 24
.....	Pisa
.....	Octavius 9-11 / 4 & 25
.....	Verona
.....	Octavius 12-14 / 20 & 24
.....	Octavius 12-14 / 20 & 24
.....	Octavius 9-11 / 4 & 25
.....	Octavius 12-14 / 20 & 24
.....	Octavius 9-11 / 4 & 25

# MEETING SCHEDULE

1:35 p.m. – 2:50 p.m.

## Concurrent Sessions 1

Roman I	Roman II	Roman III	Roman IV	Octavius 1-3	
C-20	C-36	C-39	C-31	C-26	

2:50 p.m. – 3:20 p.m.

Refreshment Break & Exhibits .....

3:20 p.m. – 4:35 p.m.

## Concurrent Session 2

Roman I	Roman II	Roman III	Roman IV	
C-20B	C-6	C-25	C-33	

Octavius 21-23	Trevi	
C-9	V-6	

5:00 p.m. – 6:00 p.m.

Officers' Reception for New Fellows and their Spouses/Guests.....

*Remainder of evening is yours to enjoy.*

## Tuesday, November 13

7:00 a.m. – 2:00 p.m.

Registration.....

7:00 a.m. – 7:45 a.m.

Town Hall.....

7:00 a.m. – 9:00 a.m.

Continental Breakfast & Exhibits.....

8:00 a.m. – 9:30 a.m.

General Session II.....

General Session III .....

# MEETING SCHEDULE

	<b>Octavius 6-8</b>	<b>Octavius 15-19</b>	<b>Octavius 21-23</b>	<b>Trevi</b>	<b>Verona / Turin</b>
	C-4	C-7	C-2	V-4	C-3

.....Octavius 9-11 / 4 & 25

	<b>Octavius 1-3</b>	<b>Octavius 5</b>	<b>Octavius 6-8</b>	<b>Octavius 15-19</b>
	C-1	C-23	C-35	C-30

	<b>Verona / Turin</b>
	C-12

..... Palace Ballroom Pre-Function Area 2

..... Octavius Foyer

..... Octavius 12-14 / 20 & 24

..... Octavius 9-11 / 4 & 25

..... Roman Ballroom

..... Octavius 12-14 / 20 & 24

# MEETING SCHEDULE

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

10:00 a.m. – 11:15 a.m. **Concurrent Session 3**

Roman I/II	Roman III/IV	Octavius 1-3	Octavius 5	
C-25B	C-27	C-9B	C-38	

Octavius 12-14 / 20 & 24	Trevi	
C-28	V-5	

11:15 a.m. – 1:15 p.m. Lunch on Your Own

1:15 p.m. – 2:30 p.m. **Concurrent Session 4**

Roman I/II	Roman III/IV	Octavius 1-3	Octavius 5	
C-15	C-32	C-18	C-13	

Octavius 21-23	Trevi	
C-19	V-1	

2:45 p.m. – 4:00 p.m. Concurrent Session 18B (Livestream).....

# MEETING SCHEDULE

..... 9-11 / 4 & 25

	<b>Octavius 6-8</b>	<b>Octavius 15-16</b>	<b>Octavius 17-19</b>	<b>Octavius 21-23</b>
	C-5	C-34	C-10	C-29

	<b>Verona / Turin</b>
	C-8

	<b>Octavius 6-8</b>	<b>Octavius 15-16</b>	<b>Octavius 17-19</b>	<b>Octavius 12-14 / 20 &amp; 24</b>
	C-22	C-24	C-37	C-17

	<b>Verona / Turin</b>
	C-4B

.....Octavius 12-14 / 20 & 24

# MEETING SCHEDULE

3:00 p.m. – 4:00 p.m. Roundtables

Roman I/II	Roman III/IV	Octavius 17-19	Octavius 21-23	
R-3	R-4	R-5	R-2	

4:15 p.m. – 5:30 p.m. Concurrent Session 8B (Livestream).....

6:00 p.m. – 9:00 p.m. Tuesday Buffet Dinner at Fremont Street Experience

## *Wednesday, November 14*

7:00 a.m. – 11:30 a.m. Registration.....

7:00 a.m. – 9:00 a.m. Continental Breakfast & Exhibits.....

8:00 a.m. – 9:15 a.m. **Concurrent Session 5**

Roman I	Roman II	Roman III	Roman IV	Octavius 5	
C-11	C-16	C-15B	C-22B	C-19B	

9:15 a.m. – 9:45 a.m. Refreshment Break & Exhibits .....

9:45 a.m. – 11:15 a.m. General Session & Adjournment.....



# MEETING SCHEDULE

	<b>Octavius 1-3</b>	<b>Octavius 5</b>	<b>Octavius 6-8</b>
	R-1	R-6	R-7

.....Octavius 12-14 / 20 & 24

.....Octavius Foyer

.....Octavius 9-11 / 4 & 25

	<b>Octavius 6-8</b>	<b>Octavius 12-14 / 20 &amp; 24</b>	<b>Trevi</b>	<b>Verona / Turin</b>
	C-14	C-21	V-3a, V-3b	V-2

.....Octavius 9-11 / 4 & 25

.....Octavius 12-14 / 20 & 24

# EXHIBITORS/SPONSORS/ADVERTISERS

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 <p><u>AMERICAN ACADEMY of ACTUARIES</u></p>	<p><b>American Academy of Actuaries</b> Exhibitor</p>

## FEATURED SPEAKER TALITHIA WILLIAMS

- *Impact the Future: The Data You Could Be Using and the People You Could Be Influencing*

**Monday, November 12, 9:15am - 10:15am, Octavius 12-14 / 20 & 24**



A host of the PBS series, *NOVA Wonders*, Dr. Talithia Williams is a groundbreaking professor, popular TED speaker, inspiring author and passionate STEM/STEAM advocate. She has made it her life's work to get people of all ages and backgrounds excited about the bold possibilities of a STEM education and to "STEMpower" women and minorities to enter these professions. A vibrant, engaging and energizing speaker, Dr. Williams demystifies data, statistics, probabilities and the mathematical process in amusing and insightful ways. She also passionately champions the contributions of scientists, technologists, engineers and mathematicians and their vital role in transforming our future. Her featured speaking address at the CAS Annual Meeting will focus on transforming the future with data and people.

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# GENERAL AND CONCURRENT SESSIONS

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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.

## 2018 Annual Meeting — 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.



**Checkbox for Personal Attendance Record**



**Recorded Session**



**Livestreamed Session**



# GENERAL AND CONCURRENT SESSIONS

## JOIN THE CONVERSATION ON TWITTER #CASANNUAL

### GENERAL SESSION

Monday, November 12, 11:20 a.m. - 12:35 p.m.

☐  *G-1: Tale of 2 Analytics – Actuary vs. Data Scientist* 

**Octavius 12-14, 20 & 24**

In 2014 Chris Dixon tweeted, “A data scientist is a statistician who lives in San Francisco.” Dixon went on to say that a data scientist is someone who is better at statistics than any software engineer and better at software engineering than any statistician. So much for statisticians. How do actuaries compare to data scientists? Is insurance acumen the only difference? Which profession has the best prognosis for a thriving future? As actuaries develop broader and deeper predictive modeling and big data skills, will there be more work in alternative careers outside mainstream insurance? Join our panel as they discuss the past, present and future of these two analytics tribes.

This panel-style discussion will focus on addressing three main questions:

- What does an actuary in the tech industry do?
- What unique skills are required to succeed in this field?
- What is the future of actuaries in tech?

Panelists: Shane Barnes; Claudine Modlin;  
Stephen Mildenhall

# GENERAL AND CONCURRENT SESSIONS

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## CONCURRENT SESSIONS

Monday, November 12, 1:35 p.m. - 2:50 p.m.

- ☐    *C-26: Managing Natural Catastrophe Risks* 

### Octavius 1-3

Panelists will discuss how companies manage against all types of catastrophes, including hurricanes, tornados, wildfires, winter storms and floods.

Panelists: David Snow; Josie Fix; Daniel McElvany; Charles Marshall

- ☐  *C-7: An Actuary's Guide to the Mechanics and Magic of Blockchains* 

### Octavius 15-19

Explore the implementation of blockchain technology in the insurance industry and its potential implications/impacts.

Moderator: Jonathan Charak

Panelists: Stephen Mildenhall; David Wright

# GENERAL AND CONCURRENT SESSIONS

## JOIN THE CONVERSATION ON TWITTER #CASANNUAL

-  *C-2: Active Shooter Liability — What You Need to Know* 

### **Octavius 21-23**

An examination of active shooter/workplace violence insurance, which covers liability and extra expenses tied to shootings, providing victim death benefits with additional medical expense benefits.

Panelists: Jin Kim; Paul Marshall

-  *C-3: Actuarial Think Tank: International Travel Insurance Market* 

### **Verona/Turin**

An interactive session in which participants in small teams will examine and respond to hypothetical scenarios relating to the international travel insurance market.

Panelists: Kristen Dardia; Erin Davidson; Chris Turner

# GENERAL AND CONCURRENT SESSIONS

## JOIN THE CONVERSATION ON TWITTER #CASANNUAL

### ☐ 🕒 C-4: Actuarial Trivia Challenge!

*Repeated on Tuesday at 1:15 p.m.*

#### **Octavius 6-8**

Answer a series of multiple-choice trivia questions that will test the depth of your knowledge on the profession's professional standards.

Panelists: Michael Speedling; Martin Menard

### ☐ 🕒 C-20: Finding Peace: Stress Reduction at Work

*Repeated on Monday at 3:20 p.m.*

#### **Roman I**

Learn to recognize your stress triggers and what to do with them. An easy step-by-step guide to reducing stress and finding that peace you crave in the workplace.

Panelist: Samantha Delory

# GENERAL AND CONCURRENT SESSIONS

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### ☐ *C-36: Viva Las Vegas, Actuarial Style*

#### **Roman II**

Explore the similarities between the mathematical processes of gambling and underwriting, in addition to a risk management tool commonly used by professional gamblers and portfolio managers that has potential applications in underwriting, reinsurance, risk management and other areas of actuarial practice.

Moderator: Alex Alimi

Panelists: Matthew Buchalter; Julie Walker

### ☐ *C-39: Workers' Compensation — Emerging Issues*

#### **Roman III**

Workers' compensation industry research organizations NCCI and CWCI will provide an update on some current emerging issues.

Panelists: Martin King; Barry Lipton; Alex Swedlow; Leigh Halliwell

# GENERAL AND CONCURRENT SESSIONS

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-  *C-31: The Evolution of the Definition of a “Qualified Actuary” 2019* 

## Roman IV

Review the NAIC Job Analysis Project to produce a revised, evidence-based definition of a “qualified actuary” intended to be used in evaluating qualifications of actuaries and the educational programs of U.S. actuarial organizations.

Panelist:

Patricia Teufel

-  *V-4: RStudio: Who We Are and What We Do* 

## Trevi

Vendor presentation: An overview of the R community and how the different entities interact with each other, RStudio and its open source efforts and commercial products, including RStudio Connect, RStudio Server Pro, and more recent initiatives such as rstudio.cloud. Presented by RStudio.

Panelist:

Kevin Kuo

# Your P&C competitor does not want you to have ICRFS™ 2018



## You would have:

- A single comprehensive system for reserving, pricing, and risk capital calculations
- Automation utilities
- Insight into loss cost trends
- Identify trends and volatility in development, accident and calendar time
- Models that mitigate model specification risk – by design
- Liability stream distributions by calendar period
- Accurate assessment of risk capital
- Reinsurance contracts and reserves net of reinsurance
- Support for Solvency II and IFRS 17 metrics for long-tail liabilities
- A well informed actuarial department

Find out more on: **Monday 3:20pm,**

**Using ICRFS™ 2018 to Manage All Aspects of Long Tail Liability Risks**

# GENERAL AND CONCURRENT SESSIONS

## JOIN THE CONVERSATION ON TWITTER #CASANNUAL

### CONCURRENT SESSIONS

Monday, November 12, 3:20 p.m. - 4:35 p.m.

- ☐    *C-1: A Cost of Capital Formula for Non-Life Insurance Liabilities — A Historical Perspective* 

#### Octavius 1-3

Glenn Meyers recounts a history on this topic, including the CAPM debates in the early 1990s, the DFA/ERM in the early 2000s and the risk margins required by IRFS 17. The cost of capital risk margin formula presented will make use of a Bayesian MCMC loss reserve model.

Panelist: Glenn Meyers

- ☐  *C-30: The Connected Home and the Future of Homeowners Insurance* 

#### Octavius 15-19

Explore new technology in homeownership and its implications for and impacts on homeowners insurance.

Panelists: Charles Wolstein; Jon-Michael Kowall;  
Roel Peeters



# GENERAL AND CONCURRENT SESSIONS

## JOIN THE CONVERSATION ON TWITTER #CASANNUAL

-  *C-12: Beyond Diversity: Why Inclusion is the Key to Successful Teams* 

### Verona/Turin

Panelist-led small group analysis of case studies followed by a structured about how to address issues and challenges related to diversity and inclusion in the actuarial profession.

Panelists: Lynn Gehant; Paul Kinson

-  *C-23: It's Not Superman Either ... It's a Drone* 

### Octavius 5

An overview of the ways that DataWing Global has developed a national presence and availability to serve the insurance market.

Panelists: Landon Phillips, Cory Shelton

-   *C-9: Applications of Vehicle History in Auto Insurance Rating and Underwriting* 

*Repeated on Tuesday at 10:00 a.m.*

### Octavius 21-23

An overview of how carriers use vehicle history to more accurately price and underwrite risks.

Panelists: Don Hendriks; Matthew Moore

# GENERAL AND CONCURRENT SESSIONS

## JOIN THE CONVERSATION ON TWITTER #CASANNUAL

-  *C-35: U.S. Regulatory Landscape for P&C Actuaries: Don't Roll the Dice* 

### **Octavius 6-8**

Discussion of the P&C actuarial “hot topics” that are top of mind for U.S. state regulators. Understanding these regulatory developments will help actuaries and their employers interact most constructively with regulators.

Panelists: Lisa Chanzit; Mary Hosford; Kevin Dyke; Julie Lederer; Gennady Stolyarov

-  *C-20B: Finding Peace: Stress Reduction at Work*

### **Roman I**

Learn to recognize your stress triggers and what to do with them. An easy step-by-step guide to reducing stress and finding that peace you crave in the workplace.

Panelist: Samantha Delory

# GENERAL AND CONCURRENT SESSIONS

## JOIN THE CONVERSATION ON TWITTER #CASANNUAL

- ☐  *C-6: America First: Update of TCJA Impact on the Worldwide P&C Industry* 

### **Roman II**

To give treats is a powerful way to change dog behaviors. Are the treats from the Tax Cuts and Job Acts (TCJA) on December 22, 2017, changing how the P&C Industry behaves?

Panelists: John Peel; Leslie Marlo; Lynne Bloom;  
Benoit Carrier

- ☐  *C-25: Lights! Camera! Professionalism!* 

*Repeated on Tuesday at 10:00 a.m.*

### **Roman III**

Enjoy the acting of some fine fellow actuaries taking on professional dilemmas to better understand ASOPs and codes of conduct and how to apply them in your own professional ethical dilemmas.

Panelists: Patrick Gilhool; Patricia Teufel; Mindy Steichen

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

## ☐ 🎧 🎧 🎧 *C-33: UBI & Telematics Innovations* 🎤

### **Roman IV**

Simple yet incredibly powerful refinements to four top variables in a UBI program may result in higher adoption and profitability for insurer's UBI programs.

Panelists: Ryan Morrison; Chris Carver; Joseph Griffin

## ☐ 🎧 *V-6: Using ICRFS 2018 to Manage All Aspects of Long Tail Liability Risks* 🎤

### **Trevi**

Vendor presentation: Insureware will present real-life case studies showing why ICRFS 2018 is essential for sound statistical long tail liability risk management system.

Panelist: Ben Zehnwith



# Congratulations to Travelers' newly credentialed CAS actuaries.

## **ACAS**

Thomas Basile, Cody DePersia, Andrew Doidge,  
Trevor Franda, Chris Heffling, George Schuler

## **FCAS**

Jonathan Bisschop, Samantha Delperdang,  
Ashley Leonard, Kelsie Paquin, Madhu Rao, Tyler Roe,  
Matthew Shugrue, Dereck Tanaka

We are proud of you and your accomplishments!

**TRAVELERS** 

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# GENERAL AND CONCURRENT SESSIONS

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## GENERAL SESSIONS

Tuesday, November 13, 8:00 a.m. - 9:30 a.m.

☐  *G-2: Private Flood Insurance* 

### **Roman Ballroom**

An examination of how private companies can evaluate the feasibility of offering flood insurance and describe different methods of pricing flood insurance in the private market, including their advantages and disadvantages.

Moderator: Carl Ashenbrenner

Panelists: Matthew Chamberlain; James Watje;  
Mitchell Waldner

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

📅 🎧 *G-3: Brain Injuries/CTE Impact* 🎤 📺

## **Octavius 12-14 / 20 & 24**

This panel will explore what medical research knows about the long-term effects of repetitive head impacts, including risk factors and epidemiology of chronic traumatic encephalopathy. They will also discuss target defendants, key theories of liability, potential defenses and recent rulings.

Moderator: Barb Murray

Panelists: Heather Schenker; William Primps;  
Daniel Daneshvar

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

## CONCURRENT SESSIONS

Tuesday, November 13, 10:00 a.m. - 11:15 a.m.

- ☐  *C-34: University Actuarial Programs and the P&C Industry — CAS University Award Winners Share Insights and Best Practices* 

### Octavius 15-16

A representative from each recipient of the 2018 CAS University Award will discuss how they are incorporating P&C topics into their curriculum, research, industry engagement initiatives and innovations.

Moderator: Tamar Gertner

Panelists: Jelena Milovanovic; Alisa Walch;  
Guangyuan Gao

- ☐  *C-38: Wheels of Misfortune* 

### Octavius 5

An underwriter and commercial auto product manager who lived through the wheels' ups and downs over the last decade will give their experience from a ground-level perspective, including measures to help improve insights in the commercial auto industry.

Panelists: James Davidson; Diane Injic; Michael Rozema



# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

-   *C-5: Actuaries RMAD: Reviewing Disclosures in the Statement of Actuarial Opinion* 

## Octavius 6-8

Panelists will review SAOs for the largest property-casualty insurers in the U.S. and examine required disclosures that are tied to the risk of material adverse deviation (RMAD).

Moderator: Carl Ashenbrenner

Panelists: Greg Fears; Kevin Ahlgrim

-   *C-9B: Applications of Vehicle History in Auto Insurance Rating and Underwriting* 

## Octavius 1-3

An overview of how carriers use vehicle history to more accurately price and underwrite risks. The discussion will include obvious data elements, such as salvage title brands, in addition to data that may not be as obvious but has proven predictive of loss in the past.

Panelists: Don Hendriks; Matthew Moore

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

## □ C-27: *Model Estimation Research Papers*

### **Roman III & IV**

A presentation of two papers: 1) “Why Maximum Likelihood Estimation is Being Replaced by Bayesian Shrinkage, with Ratemaking and Reserving Implications” and 2) “Severity Curve Fitting for Long Tailed Lines: An Application of Stochastic Processes and Bayesian Models.”

Moderator: Keith Palmer

Panelists: Gary Venter; Greg McNulty

## □ C-29: *Strategic Decision Making, ERM Standards of Practice and Code of Professional Conduct. Learning Lounge — An ERM Case Study*

### **Octavius 21-23**

An interactive audience participation session where panelists illustrate real-life but disguised case study that considers situations where decision-making and ERM standards of practice may cross tough paths.

Panelists: Robert Wolf; David Mamane

# GENERAL AND CONCURRENT SESSIONS

## JOIN THE CONVERSATION ON TWITTER #CASANNUAL

### ☐ *C-8: Analytical Data Stores: Should I Really Use a Database?*

*Repeated on Tuesday at 4:15 p.m.*

#### **Verona/Turin**

An overview on the current state of databases and the new database types (NoSQL databases). Gain the ability to choose the right database for your use cases and model traditional table data into a document database.

Panelists: Michael Thyen; Jeffrey White; Francis Gribbon

### ☐ *C-10: Asbestos and Environmental Update — What Have We Learned?*

#### **Octavius 17-19**

This panel will provide an update on the insurance industry's ultimate losses from asbestos and environmental exposures, including the recent talc-related asbestos verdicts, large clean-up site activity and the current administration's EPA regulatory changes.

Moderator: Beverly Phillips

Panelists: Sandra Santomenno; Rachel Dolsky; Rita Zona

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

-   *C-28: Opioid Epidemic: Who is Responsible? Doctors — Pharmaceutical Companies — Attorneys — Insurance Companies?*  

## **Octavius 12-14 / 20 & 24**

Experts in the insurance and health care industries share their insights into the cause of the opioid epidemic, provide an update on recent improvements, and prognosticate on where we are headed.

Panelists: Martin King; Alex Swedlow; John Ruser; Mark Pew; Sara Hunt

-  *C-25B: Lights! Camera! Professionalism!*

## **Roman I & II**

Enjoy the acting of some fine fellow actuaries taking on professional dilemmas to better understand ASOPs and codes of conduct and how to apply them in your own professional ethical dilemmas.

Panelists: Patrick Gilhool; Patricia Teufel; Mindy Steichen

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

- ☐  *V-5: Understanding the Changing Used Vehicle Market* 

## Trevi

Vendor presentation: The quickly changing used-vehicle market has given insurers an opportunity to create a new underwriting/pricing variable. By more accurately pricing used vehicles, insurers can save two or three points in loss costs. Presented by Red Mountain Technology.

Panelists: Christopher Whipple; Daniel Pickens

## CONCURRENT SESSIONS

**Tuesday, November 13, 1:15 p.m. – 2:30 p.m.**

- ☐   *C-18: Cyber Insurance Through Different Lenses* 

*Repeated on Tuesday at 2:45 p.m.*

## Octavius 1-3

Cyber professionals discuss the role of the actuary in quantifying cyber risk, in addition to opportunities, challenges, market trends, and issues that keep everyone up at night.

Panelists: Eduard Alpin; Jonathan Laux; Ya Jia;  
Ryan Givens

# GENERAL AND CONCURRENT SESSIONS

## JOIN THE CONVERSATION ON TWITTER #CASANNUAL

### ☐ C-19: *Examining Auto Insurance Loss Trends*

*Repeated on Wednesday at 8:00 a.m.*

#### **Octavius 21-23**

A project jointly sponsored by the CAS, PCI and the SOA examines the state-by-state trends in auto insurance losses, looking at the covariates that drive those losses and the temporal trends in those losses.

Panelists: Brian Hartman; Elijah Harmon; Cason Wight; Trevor Johnson; Sarah Hansen

### ☐ C-24: *Learning Lounge Case Study: Material Adverse Reserve Development*

#### **Octavius 15-16**

An interactive audience participation session where panelists illustrate real-life but disguised case studies where an appointed actuary reserve review was deemed in hindsight to be materially deficient one or two years later.

Panelists: Robert Wolf; Mary Frances Miller

# GENERAL AND CONCURRENT SESSIONS

## JOIN THE CONVERSATION ON TWITTER #CASANNUAL

### ☐ 🎧 🎧 🎧 *C-13: Captive Insurance Hot Topics* 🎤

#### **Octavius 5**

A number of recent trends and developments in the captive industry have substantially increased both the role of actuaries in captive operations and the scrutiny they face.

Panelists: Gennady Stolyarov; Victoria Fimea;  
Joseph Herbers

### ☐ 🎧 *C-37: What iCAS Is Up To: Updates on Credentials in Data Science and Predictive Analytics and Catastrophe Risk Management* 🎤

#### **Octavius 17-19**

Leaders of The CAS Institute (iCAS) will provide an update on the Certified Specialist in Predictive Analytics (CSPA) credential as well as discuss our two-level Catastrophe Risk Management credentials.

Panelists: Amy Brener; Joanne Spalla; Todd  
Lehmann

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

## ☐ 🎧 *C-15: Climate Change and Catastrophes — Correlation or Causation?* 🎤

*Repeated on Wednesday at 8:00 a.m.*

### **Roman I & II**

An examination of the increase in overall and insured losses due to other weather catastrophes. Is this a trend we'll continue to see in the future? What is the impact on catastrophe models? How are insurance companies responding to these changes in 2018 and 2019?

Moderator: Winnie Li

Panelists: Peter Sousounis; Paul Eaton

## ☐ 🎧 *C-4B: Actuarial Trivia Challenge!*

### **Verona/Turin**

Answer a series of multiple-choice trivia questions that will test the depth of your knowledge on the profession's professional standards.

Panelists: Michael Speedling; Martin Menard



# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

## ☐ C-22: *Introducing the Individual-Claim Level Reserving Simulator 2.0*

*Repeated on Wednesday at 8:00 a.m.*

### **Octavius 6-8**

Engage with a demonstration of an individual-claim level simulator that is specifically designed for reserve analysis, developed by The Committee on Dynamic Risk Modeling and ReservePrism, LLC.

Panelists: Hai You; Kailan Shang; Daniel Lupton

## ☐ C-32: *The Newest P&C ASOP — Estimating Future Costs*

### **Roman III & IV**

An overview of the key components of the newest ASOP, including all of the items currently listed in the “Considerations” section of the Statement of Principles Regarding Property-Casualty Insurance Ratemaking.

Panelists: Christopher Carlson; Patrick Woods

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

-  *V-1: Claim Variability Guidelines: The Tool Every Actuary Needs* 

## Trevi

Vendor presentation: The Milliman Claim Variability Guidelines (CVG) are new industry benchmarks to help assess the quality of stochastic unpaid claim distributions used for ERM and DFA, including correlations for aggregate distributions. Presented by Milliman.

Panelist: Mark Shapland

-  *C-17: Crashing, Crash Avoidance and the Future of Driving*  

## Octavius 12-14 / 20 & 24

Explore improvements in crashworthiness, evaluations of collision avoidance systems and changes to the vehicle fleet that are impacting safety and insurance. Panelists will also discuss level 2 vehicle automation, marijuana, and vehicle speed.

Panelists: David Snow; Matthew Moore

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

## LIVESTREAM

Tuesday, November 13, 2:45 p.m. – 4:00 p.m.

☐   *C-18B: Cyber Insurance through Different Lenses*  

**Octavius 12-14 / 20 & 24**

Cyber professionals discuss the role of the actuary in quantifying cyber risk, in addition to opportunities, challenges, market trends, and issues that keep everyone up at night.

Panelists:                      Eduard Alpin; Jonathan Laux; Ya Jia;  
   Ryan Givens

## ROUNDTABLES

Tuesday, November 13, 3:00 p.m.–4:00 p.m.

☐  *R-1: Blockchain and Self-Sovereign Identity* 

**Octavius 1-3**

Discuss the implementation of blockchain technology in the insurance industry and its potential implications and impacts.

Panelist:                      Stephen Mildenhall

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

-  *R-2: Getting Creative to Accelerate UBI Benefits* 

## Octavius 21-23

Brainstorm how to overcome the challenge of UBI policies' small fraction of the market despite the myriad of benefits.





Panelist: Ryan Morrison

-   *R-3: Opioid Epidemic* 

## Roman I & II

An opportunity to sit down with the speakers from the C-28: Opioid Epidemic session and engage in an informal discussion of the issues for society as a whole and impact on the insurance industry.

Panelists: Alex Swedlow; John Ruser; Mark Pew; Sara Hunt

-    *R-4: Predictive Analytics — Common Modeling Challenges and Issues* 

## Roman III & IV

Panelists discuss common challenges that arise during the modeling process and various methods of approaching them.

Panelists: Don Hendriks; Michael Chen

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

-  *R-5: The Actuarial Standards Board and ASOPs — How Does That Work Again?* 

## Octavius 17-19

ASB representatives discuss the process and procedures ASB and its committees use to prepare Actuarial Standards of Practice (ASOP) applicable to actuarial practice in the United States.

Panelists: Christopher Carlson; Patrick Woods

-  *R-6: The Connected Home and the Future of Homeowners Insurance* 

## Octavius 5

Explore new technology in homeownership and its implications for and impacts on homeowners insurance.

Panelists: Charles Wolstein; Jon-Michael Kowall

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

-  *R-7: The New Associate's Perspective: Advancing Your Career Through the CAS* 

## Octavius 6-8

New Associates discuss their decisions to pursue careers in P&C and offer the CAS advice on positioning itself as the best career path for aspiring actuaries, improving its connection to exam candidates and better engaging new members in the CAS community. Limited to New Associates only.

Moderator: Shelby Wolff

Panelists: Wesley Griffiths; Daniel Watt; Nicholas Metaxas; Thomas Whitcomb; Ronald Rees

## LIVESTREAM

**Tuesday, November 13, 4:15 p.m.–5:30 p.m.**

☐   *C-8B: Analytical Data Stores: Should I Really Use a Database?*  

**Octavius 12-14 / 20 & 24**

An overview on the current state of databases and the new database types (NoSQL databases). Gain the ability to choose the right database for your use cases and model traditional table data into a document database.

Panelists:

Michael Thyen; Jeffrey White; Francis Gribbon

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

## CONCURRENT SESSIONS

Wednesday, November 14, 8:00 a.m. - 9:15 a.m.

- ☐    *C-19B: Examining Auto Insurance Loss Trends* 

### Octavius 5

A project jointly sponsored by the CAS, PCI, and the SOA examines the state-by-state trends in auto insurance losses, looking at the covariates which drive those losses and the temporal trends in those losses.

Panelists: Brian Hartman; Elijah Harmon; Cason Wight; Trevor Johnson; Sarah Hansen

- ☐    *C-14: Captive Pricing Learning Lounge* 

### Octavius 6-8

An interactive review of Captive Pricing.

Panelists: Darcie Truttmann; Jordan Paszek; Michael Suess



# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

## □ *C-11: Battle of the Statement of Actuarial Opinion*

### **Roman I**

Two experienced actuaries will engage with each other and attendees on considerations for several case studies in which they have been asked to opine on companies with unusual situations.

Panelists: Joseph Herbers; Ann Conway

## □ *C-16: Counterfactual Disaster Risk Analysis*

### **Roman II**

Discuss the dynamic perturbations that might transition a system to a disaster state. The value of counterfactual disaster risk analysis is illustrated with examples from a diverse range of natural and man-made perils.

Panelist: Gordon Woo

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

## ☐ 🎤 *C-15B: Climate Change and Catastrophes* *— Correlation or Causation?* 🎤

### **Roman III**

An examination of the increase in overall and insured losses due to other weather catastrophes. Is this a trend we'll continue to see in the future? What is the impact on catastrophe models? How are insurance companies responding to these changes in 2018 and 2019?

Moderator: Winnie Li

Panelists: Peter Sousounis; Paul Eaton

## ☐ 🎤 *C-22B: Introducing the Individual-Claim* *Level Reserving Simulator 2.0* 🎤

### **Roman IV**

Engage with a demonstration of an individual-claim level simulator that is specifically designed for reserve analysis, developed by the Committee on Dynamic Risk Modeling and ReservePrism, LLC.

Panelists: Hai You; Kailan Shang; Daniel Lupton

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

-  *C-21: GLMs, Machine Learning, & More, Oh My!* 

## Octavius 12-14 / 20 & 24

Introductory for those not familiar with modeling techniques — but even actuaries involved in predictive modeling will find it interesting and new — this presentation will look at the actual results and examples of how other analytic and machine learning methods are used to enhance the GLM used in pricing. Also discussed will be examples of how the analytic and machine learning methods can be implemented within current GLM-based pricing structures.

Panelists: Michael Chen; Gary Wang; Don Hendriks

-  *V-2: Cognalysis CLCM* 

## Verona / Turin

Vendor presentation: Cognalysis CLCM (Claim Life Cycle Model) is a tool to help the practicing actuary understand the complete life-cycle of claims. Presented by Gross Consulting.

Panelist: Christopher Gross

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

## ☐ 🎤 V-3a: GEMS® Stress Test Scenario Package 🎤

### Trevi

Vendor presentation: Conning has utilized its award-winning GEMS® Economic Scenario Generator to develop a package of stress scenarios that simulate ten significant economic events over the past 100 years. Immediately followed by presentation V-3b. Presented by Conning.

Panelist: Daniel Finn

## ☐ 🎤 V-3b: Cognalysis MultiRate 🎤

### Trevi

Vendor presentation: Cognalysis MultiRate is a predictive modeling software product that is both powerful and user-friendly. Immediately following presentation V-3a. Presented by Gross Consulting.

Panelist: Bret Shroyer

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASANNUAL

## GENERAL SESSION

Wednesday, November 14, 9:45 a.m. - 11:15 a.m.

☐  *G-4: Silicon Valley: Actuaries in Tech* 

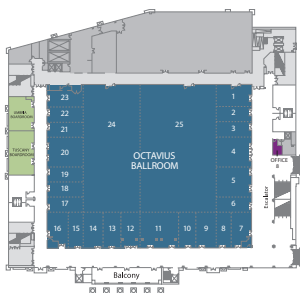
**Octavius 12-14 / 20 & 24**

We've heard about the battle between actuaries and data scientists. But what about the world of tech? Can we survive there? What skills translate? Let's hear from a panel of speakers with firsthand experience of what it's like to work at a tech firm.

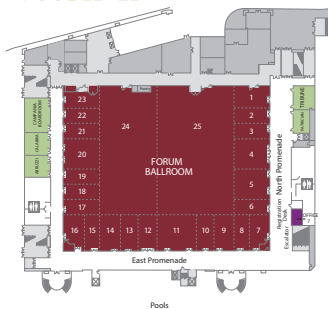
Panelists: Frank Chang, Gregory Ryslik, Joshua Pyle

# HOTEL MAP

## PROMENADE SOUTH

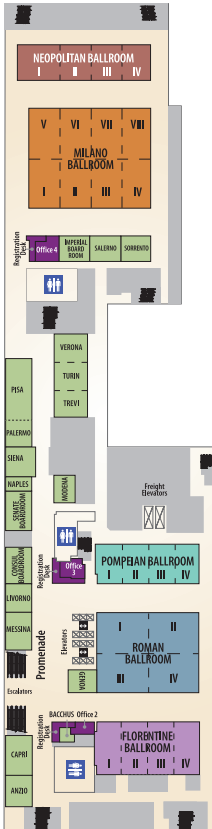


## POOL LEVEL

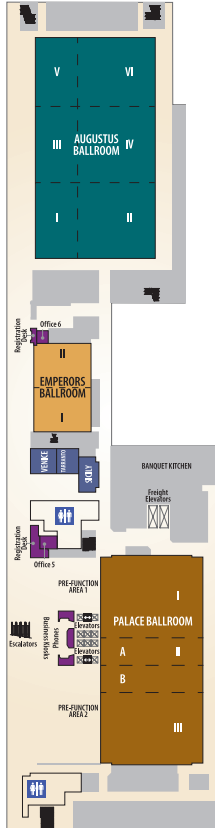


# HOTEL MAP

## PROMENADE LEVEL



## EMPERORS LEVEL



## DIAMOND PARTNERS



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Actuarial Recruitment



*It Takes One to Know One...  
An Actuary Placing Actuaries  
(and Related Professionals)*

## PLATINUM PARTNERS



## GOLD PARTNERS



## SILVER PARTNERS

