



MAY 19-22, 2019 • NEW ORLEANS, LA  
HYATT REGENCY NEW ORLEANS



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# 2019 SPRING MEETING

MAY 19-22, 2019  
HYATT REGENCY NEW ORLEANS  
NEW ORLEANS, LA

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## General Information

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

## Consent to Use of Photographic Images

A photographer will be present at the CAS Spring 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 Empire Ballroom Foyer (2nd).

- Sunday, May 19, 4:00 p.m. – 6:30 p.m.
- Monday, May 20, 7:00 a.m. – 4:30 p.m.
- Tuesday, May 21, 7:00 a.m. – 12:30 p.m.
- Wednesday, May 22, 7:00 a.m. – 11:30 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 Hyatt Regency New Orleans may be held responsible for lost or stolen items.



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## Wireless Access

Attendees of the CAS Spring Meeting have access to complimentary Wi-Fi in the meeting rooms.

**Wi-Fi Login: CAS Spring**  
**Wi-Fi Password: spring2019**

## Download the CAS Meeting App



## Tweet at the CAS Spring Meeting!

We want to hear from you!  
Tweet about the Spring Meeting educational sessions and meeting events using the hashtag #CASSpring.

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## 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!**



## **Celebration of New Members**

**Monday, May 20, 8:00 a.m. – 8:45 a.m., Empire AB**

This event includes the Address to New Members given by Roger Hayne, Ph.D., FCAS, MAAA.

## **Tuesday Buffet Dinner at Blaine Kern's Mardi Gras World**

**6:00 p.m. – 9:00 p.m.**

Blaine Kern's Mari Gras World provides a behind-the-scenes look at what it takes to bring Mardi Gras to life. Spring Meeting attendees will see where artisans create show-stopping floats for more than 40 parades each year. Wander through the Float Den, an enormous space full of huge colorful floats and larger-than-life props that will put you in the mood to celebrate.

A working warehouse where artists create the floats for many of Mardi Gras' parades by day, the Float Den is a wonderful way to get a taste of Mardi Gras year-round. Enjoy a vintage Louisiana experience in the Grand Oaks Mansion, an indoor replica of an antebellum mansion with towering columns, magical footbridges, magnificent oak trees, and a starlit sky. The evening will include live entertainment and a sumptuous Southern menu.

## Student Program

**Tuesday, May 21, 8:15 a.m.—4:15 p.m., Foster 2**

The Casualty Actuarial Society is hosting 30 university students for a one-day student program to be held in conjunction with the Spring Meeting on May 21. The program offers an important opportunity to plant the seeds for the future of the CAS by connecting with university students in a meaningful way.

Attendees will:

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

**AD PLACEHOLDER**

# CORRESPONDING CONCURRENT SESSIONS AND TIMES

## Sessions by Theme

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

Session Themes	Monday, 1:35 – 2:50	Monday, 3:20 – 4:35	
Accounting			
Business Skills			
Catastrophes		C-22	
Cyber	C-12		
Commercial Lines			
Emerging Issues	C-2, C-29	C-28, C-34	
ERM		C-15	
International	C-7	C-9, C-14	
Predictive Analytics/ Modeling	C-4, C37,	C-33	
Professionalism	C-3		
Regulatory	C-38	C-17	
Reinsurance			
Reserving			
Workers' Comp	C-31	C-36	



## CORRESPONDING CONCURRENT SESSIONS AND TIMES

	Tuesday, 9:45 – 11:00	Tuesday, 11:15 – 12:30	Wednesday, 8:00 – 9:15
		C-26	C-19
	C-13	C-13B	C-5
		C-12B	
	C-27		
	C-1, C-8	C-11, C-24	C-30
		C-16	
	C-6, C-18		
	C-33B	C-21	C-23, C-25
	C-20		C-3B
		C-32	
		C-35	
	C-10		

# MEETING SCHEDULE

## Sunday, May 19

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.....

6:00 p.m. – 6:30 p.m.

New ACAS Photo Session .....

6:30 p.m. – 7:30 p.m.

Welcome Reception.....

## Monday, May 20

7:00 a.m. – 4:30 p.m.

Registration.....

7:00 a.m. – 8:30 a.m.

Continental Breakfast.....

8:00 a.m. – 8:45 a.m.

Welcome, Celebration of New Members .....

8:45 a.m. – 9:15 a.m.

Refreshment Break .....

9:15 a.m. – 10:15 a.m.

New Member Group Photo Session .....

10:15 a.m. – 11:00 a.m.

Featured Speaker:  
LTC Russel Honoré, USA (Ret) .....

11:00 a.m. – 11:20 a.m.

Business Session .....

11:20 a.m. – 12:35 p.m.

Refreshment Break .....

12:35 p.m. – 1:35 p.m.

General Session I .....

Luncheon .....

# MEETING SCHEDULE

..... Empire Ballroom Foyer (2nd)

..... Celestine Ballroom ABC

..... Strand 2 (2nd)

..... Empire CD (2nd)

..... Empire Foyer (2nd)

..... The Elite Hall-Main Tower (1st)

..... Empire AB (2nd)

..... The Elite Hall-Main Tower (1st)

..... Strand 2 (2nd)

..... Empire AB (2nd)

..... Empire AB (2nd)

..... The Elite Hall-Main Tower (1st)

..... Empire AB (2nd)

..... The Elite Hall-Main Tower (1st)

# MEETING SCHEDULE

1:35 p.m. – 2:50 p.m.

Concurrent Sessions .....

Empire Ballroom A	Empire Ballroom C	Empire Ballroom D	Foster 1	Foster 2	
	C-2	C-29	C-4	C-38	

2:50 p.m. – 3:20 p.m.

Refreshment Break .....

3:20 p.m. – 4:35 p.m.

Concurrent Sessions .....

Empire Ballroom A	Empire Ballroom C	Empire Ballroom D	Foster 1	Foster 2	
	C-33	C-34	C-17	C-15	

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, May 21

7:00 a.m. – 12:30 p.m.

Registration.....

7:00 a.m. – 8:30 a.m.

Continental Breakfast.....

8:00 a.m. – 9:15 a.m.

General Session II.....

8:00 a.m. – 9:15 a.m.

General Session III.....

8:15 a.m. – 4:15 p.m.

Student Program .....

9:15 a.m. – 9:45 a.m.

Refreshment Break.....

# MEETING SCHEDULE

.....2nd Floor

	<b>Strand 10</b>	<b>Strand 11</b>	<b>Strand 12</b>	<b>Strand 13A</b>	<b>Strand 13B</b>
	C-3	C-37	C-12	C-31	C-7

..... The Elite Hall-Main Tower (1st)

.....2nd Floor

	<b>Strand 10</b>	<b>Strand 11</b>	<b>Strand 12</b>	<b>Strand 13A</b>	<b>Strand 13B</b>
	C-22	C-36	C-28	C-14	C-9

..... The Elite Hall-Main Tower (1st)

..... Empire Ballroom Foyer (2nd)

..... The Elite Hall-Main Tower (1st)

..... Empire AB (2nd)

..... Empire CD (2nd)

..... Foster 2

..... The Elite Hall-Main Tower (1st)

# MEETING SCHEDULE

9:45 a.m. – 11:00 a.m.

Concurrent Sessions .....

Empire Ballroom A	Empire Ballroom C	Empire Ballroom D	Foster 1	Foster 2	
C-18	C-8	C-20	C-13		

11:15 a.m. – 12:30 p.m.

Concurrent Sessions .....

Empire Ballroom A	Empire Ballroom C	Empire Ballroom D	Foster 1	Foster 2	
C-21	C-11	C-24	C-13B		

12:30 p.m. – 2:30 p.m.

Lunch on Your Own

2:30 p.m. – 3:30 p.m.

Roundtables

Empire Ballroom A	Empire Ballroom C	Empire Ballroom D	Foster 1	Foster 2	

2:30 p.m. – 3:45 p.m.

C-34B: The Promise, Pitfalls and Process of AI (Livestream) .....

4:00 p.m. – 5:15 p.m.

C-24B: Not a Talk About Autonomous Vehicles: Advanced Driver-Assistance Systems and Insurance (Livestream) .....

6:00 p.m. – 9:00 p.m.

Tuesday Buffet Dinner .....

# MEETING SCHEDULE

.....2nd Floor

	Strand 10	Strand 11	Strand 12	Strand 13A	Strand 13B
	C-10	C-6	C-33B	C-27	C-1

.....2nd Floor

	Strand 10	Strand 11	Strand 12	Strand 13A	Strand 13B
	C-35	C-32	C-16	C-26	C-12B

	Strand 10	Strand 11	Strand 12	Strand 13A	Strand 13B
	R-1	R-2	R-3	R-4	R-5

..... Empire Ballroom A

..... Empire Ballroom A

..... Mardi Gras World

# MEETING SCHEDULE

## Wednesday, May 16

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

7:00 a.m. – 8:30 a.m. Continental Breakfast.....

8:00 a.m. – 9:15 a.m. Concurrent Sessions .....

Empire Ballroom A	Empire Ballroom C	Empire Ballroom D	Foster 1	Foster 2	
		C-30	C-25		

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

9:45 a.m. – 11:30 a.m. General Session IV & Adjournment.....



# MEETING SCHEDULE

..... Empire Ballroom Foyer (2nd)  
 ..... The Elite Hall-Main Tower (1st)  
 ..... 2nd Floor

	Strand 10	Strand 11	Strand 12	Strand 13A	Strand 13B
	C-3B	C-23		C-19	C-5

..... The Elite Hall-Main Tower (1st)  
 ..... Empire Ballroom AB (2nd)

# EXHIBITORS/SPONSORS/ ADVERTISERS

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## FEATURED SPEAKER

**LT. GENERAL RUSSEL L. HONORÉ,  
COMMANDER OF JOINT TASK FORCE KATRINA**

### □ **"Resilient Leadership: Prepare Today to Prevail Tomorrow"**



**Monday, May 20, 9:15 a.m. – 10:15 a.m.,  
Empire AB (2nd)**

As the commander of Joint Task Force Katrina, Lt. General Russel L. Honoré became known as the “Category 5 General” for his striking leadership style in coordinating military relief efforts in post-hurricane New Orleans. A decorated 37-year U.S. Army veteran and global authority on leadership, Gen. Honoré is the go-to expert on CNN, Fox, MSNBC and CBS on emergency and disaster preparedness and has spoken about Hurricanes Harvey, Irma and Maria crisis management.

Drawing on his in-the-trenches experience managing conflicts of both the natural and man-made variety, his disciplined leadership takeaways inspire audiences in a range of fields, including business, management, government, military and education. His third book *Don't Get Stuck on Stupid!* challenges society in the age of the new normal — a business environment where change and unpredictability are constants, and individual resilience is mandatory. He helps organizations develop a culture of preparedness and problem solving with strategies for transforming individuals into take-charge leaders.

Authentic and uplifting, Gen. Honoré delivers a bracing dose of candor in his talks with real-world leadership lessons that equip audiences with a preparedness mindset. Gen. Honoré shares his no-nonsense approach to getting the job done and instills confidence in tomorrow's leaders.

Gen. Honoré will be available during the break to sign books.

# 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.

## 2019 Spring 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

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## GENERAL SESSION I

Monday, May 20, 11:20 a.m. – 12:35 p.m.

### **G-1: Insurance Market Dynamics**

#### **Empire Ballroom AB**

Beginning with a discussion on the state of insurance (top issues, consolidation, costs) and its financial performance over the last 15 years, the first speaker will then focus on rising auto costs and on leadership needed to sustain the business model, create jobs and promote/facilitate economic growth. The second speaker will explain why some disruptions may be killing the insurance cycle or prolonging the soft cycle (if cycles ever existed).

Moderator: Brian Brown

Speakers: Sean Kevelighan, Benoit Carrier

# GENERAL AND CONCURRENT SESSIONS

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## CONCURRENT SESSIONS 1

Monday, May 20, 1:35 p.m.- 2:50 p.m.

### **C-2: Actuarial Innovation**

#### **Empire Ballroom C**

Serhat Guven will discuss how innovations in technology, analytics, and automation drive customer engagement and growth. Kevin Kuo will discuss the Community Driven Innovation in Actuarial Science and introduce Kasa AI, a non-profit initiative for conducting research and building free software for insurance analytics in the open.

Moderator/Speaker: Serhat Guven

Speaker: Kevin Kuo

# GENERAL AND CONCURRENT SESSIONS

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## ☐ 🌸 C-3: Actuarial Trivia Challenge!

### Strand 10

*This session will not be recorded.*

From the group that brought you Jeopardy!, Family Feud, and Who Wants To Be An Actuary?, the CAS Professionalism Education Committee presents the latest incarnation of its actuarial trivia format. Using the Kahoot app, audience members will answer a series of multiple-choice trivia questions that will test the depth of their knowledge on the profession's professional standards. This session may be counted as professionalism credit for continuing education.

Moderator: Kathryn Walker

Speakers: Michael Starke, James Bedford

## ☐ 🌸🌸 C-4: An Introduction to Regularization in Linear Models 🎤

### Foster 1

This talk will tackle regularization methods like lasso and ridge regression from the ground up, exploring their implementation and interpretation.

Moderator/Speaker: Brian Fannin

Speaker: Joshua Newkirk



# GENERAL AND CONCURRENT SESSIONS

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## ☐ C-7: Auto Insurance Market in Latin America

### Strand 13B

This session will delve into how pricing is currently done and distribution issues within the auto insurance market in Brazil and Colombia. In addition, there will be a discussion on how Insurtech is affecting the market.

Moderator: Alejandro Ortega

Speakers: Cesar Neves, Camilo Gonzalez Guevara

## ☐ C-12: Deciphering Cyber: The Current and Future State of Cyber Risk

### Strand 12

Panelists will discuss the current state of information security and cyber risk management, and they will explore emerging issues and trends that could impact the insurance industry.

Moderator/Speaker: Danny Arnett

Speakers: Stephen Pannucci, Laurie Kamaiko,  
David Standish

# GENERAL AND CONCURRENT SESSIONS

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## **C-29: The Dark Web and Insurance**

### **Empire Ballroom D**

Understanding Dark Web can be a challenging proposition due to the very “black box” nature of the Dark Web and the relative secrecy and strict security with which it operates.

The purpose of this presentation is to demystify the Dark Web for insurance industry participants, and help them get a better sense how the Dark Web operates, and its relevance to insurance. To do this we will cover a variety of topics such as how the Dark Web works, what are some uses of it and how does it affect insurance.

Moderators/Speakers: Ann Chai, Ben Carrier

Speaker: Anthony Mormino

# GENERAL AND CONCURRENT SESSIONS

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## ☐ C-31: The Impact of Fee Schedule Updates on Physician Payments

### Strand 13A

Using a simple linear regression approach, this study investigates the effect of changes in fee schedules on physician payments. The study also examines a newly developed autoregressive model to estimate prices paid per transaction for physician services during a year in the WC system. The results from the autoregressive model further support the findings produced by the linear regression approach.

[https://www.ncci.com/Articles/Pages/II\\_Insights-Impact-Fee-Schedule-Physician.aspx](https://www.ncci.com/Articles/Pages/II_Insights-Impact-Fee-Schedule-Physician.aspx)

Moderator/Speaker: David Colon

Speaker: Paul Hendrick

# GENERAL AND CONCURRENT SESSIONS

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

### Strand 11

At this session, 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.

Moderator/Speaker: Amy Brener

Speaker: Stephen Mildenhall

# GENERAL AND CONCURRENT SESSIONS

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## ☐ C-38: What Should Define the Future Of Insurance Regulation?

### Foster 2

Professor Daniel Schwarcz will discuss his assertions that insurance regulation is built on obsolete and unconstitutional foundations. This will include an exploration of whether today's systems focus too often on assessing accuracy rather than surmounting latent economic and social inequalities. Professor Schwarcz will draw from his recent published works, including:

“Ending Public Utility Style Rate Regulation in Insurance”; “Is U.S. Insurance Regulation Unconstitutional?”; and the very latest “Proxy Discrimination in the Age of Artificial Intelligence and Big Data.”

With an alternative perspective, David Snyder will document that the U.S. insurance market and its regulation have created the largest, most competitive and financially sound insurance system in the world, resulting in part from adherence to sound basic principles such as risk-based pricing.

Moderator:

Meagan Mirkovich

Speakers:

Daniel Schwarcz, David Snyder

# GENERAL AND CONCURRENT SESSIONS

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## CONCURRENT SESSIONS 2

Monday, May 20, 3:20 p.m.- 4:35 p.m.

### ☐ **C-9: Casualty Microinsurance Pricing**

#### Strand 13B

This session will provide an overview of casualty microinsurance pricing and a real life example of microinsurance products.

Moderator: Keith Allen

Speakers: Edem Togbey, Andrew Hoffman, Cesar Neves

### ☐ **C-14: Discipline Process in U.S., Canada and Mexico**

#### Strand 13A

Attendees will be able to learn about the Discipline processes (and environments) in US, Canada and Mexico; and gain perspective by comparing the similarities and differences.

Moderator/Speaker: Patricia Teufel

Speakers: Michel Simard, Deborah Rosenberg, Ana María Ramírez

# GENERAL AND CONCURRENT SESSIONS

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## ☐ **C-15: Emerging Risk Identification and Optimizing Resiliency: An Inexact but Critical Science**

### Foster 2

Emerging risks are potential threats that can have a significant impact on a company,

Are we looking far enough out in the future? Does our time horizon match our liabilities? These and more questions will be discussed in an interactive dialogue that presents recent emerging risk surveys and will blend in discussions on prudent approaches and best practices in emerging risk identification methodologies.

Moderator/Speaker: Robert Wolf

Speakers: Max Rudolph, David Ingram

# GENERAL AND CONCURRENT SESSIONS

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## ☐ C-17: IFRS 17: How it impacts Actuaries

### Foster 1

In this session we will first level-set with relevant background and an overview of the IFRS 17 measurement model. Then we will dive into key topics that have dominated conversations and conversion efforts to date for P&C insurers, such as eligibility for the simplified measurement model, frameworks for discounting and risk adjustment, and treatment of reinsurance.

Moderator/Speaker: Lela Patrik

Speakers: Marc Oberholtzer, Nathan Luketin

## ☐ C-22: Modeling Casualty Catastrophes

### Strand 10

What is “the next asbestos,” and how can we avoid it?

Casualty catastrophe modeling is being developed to help insurers assess the scope and scale of liability exposures related to the specific commercial activities of their customers. In this way, casualty catastrophe modeling will be able to connect aggregation management to underwriting and increase the range of risks that can be quantified and insured. More importantly, casualty catastrophe modeling will allow for risk-appropriate pricing based on an insured’s exposures and risk profile.

Moderator/Speaker: Francis Gribbon

Speakers: James Kaufmann, Adam Troyer



# GENERAL AND CONCURRENT SESSIONS

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## **C-28: The Actuary of the Future**

### **Strand 12**

What will the role of the actuary look like in the future? Technology and robotic process automation will impact the future of work for all industries including insurance (and thus actuaries). This panel will delve into a number of issues which arise from this automation.

Moderator: David Snow

Speakers: Joseph Milicia, Day Bishop, Noelle Codispoti

## **C-33: The Predictive Modeling Cooking Show**

### **Empire Ballroom C**

The “Predictive Modeling Cooking Show” is a window in the kitchen of master chefs as they work, except the chefs are whipping up something different: a predictive model. Join real modelers as they showcase their data engineering and modeling skills, live and on stage. Two teams will go head-to-head on a classic, real-world prediction problem.

Moderator/Speaker: Chad Wilson

Speakers: Richard Sutherland, Nathan Hubbell, Megan Camanocha, Melissa Schenck

# GENERAL AND CONCURRENT SESSIONS

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## ☐ 🌸🌸 C-34: The Promise, Pitfalls and Process of AI 🎤

### Empire Ballroom D

This session will begin by placing AI within the broader context of big data, predictive analytics, machine learning, deep learning, data science, and even humble statistics. This context will help identify the common features of problems that have been solved successfully. Understanding these features will in turn highlight classes of business problems that are more and less likely to be solved by AI. From here, we will explain the process of getting started with AI through some basic examples focusing on the technology stack, workflow, data needs and implementation issues.

Moderator/Speaker: Brian Fannin

Speaker: Stephen Mildenhall

# GENERAL AND CONCURRENT SESSIONS

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## ☐ C-36: Wearable Devices in The Workplace and the Impact on Workers' Compensation

### Strand 11

Approximately 1 in 6 Americans currently own a wearable device. While fitness is still the most common use for wearable owners, when used in the workplace, these devices have the potential to prevent accidents, streamline the recovery process, and ultimately improve health and financial outcomes for employees, employers and the workers' compensation industry. This session provides a crash course in the uses and benefits in workers' compensation and some outstanding issues, particularly employee privacy, that are currently in play with this growing new technology.

Moderator/Speaker: Martin King

Speakers: Thomas Ryan, Tom West

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## GENERAL SESSION II/III

Tuesday, May 21, 8:00 a.m. – 9:15 a.m.

  **G-2: Clamping Down on Fraud**  

### Empire Ballroom AB

As the insurance industry continues to embrace data analytics, the fraud sector is seeing increasing benefits of implementation both domestically and abroad. Fraud is an international problem as business and manufacturing become more global. What impacts a company in Europe or Asia, will also affect companies in the U.S. and other countries. There are new tools, however, that will assist insurers and business owners in detecting and tracking the impact of fraud. Insurance fraud professionals weigh in on how data analytics is changing the insurance fraud landscape.

Moderator: Kathryn Walker

Speakers: Jeffrey Rapattoni, J. Michael Skiba

# GENERAL AND CONCURRENT SESSIONS

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## **G-3: Wildfires: What Can We Do to Stop Them?**

### **Empire Ballroom CD**

The western United States is experiencing an unprecedented escalation of wildfire incidents and costs, and past history is no longer a good measure of short- and mid-term wildfire future predictions. Specifically, wildfire threat has seen a substantial increase in the previous two decades, growing to become one of the greatest natural disaster perils in the western U.S. and the sixth-greatest natural disaster peril in the country overall.

Now needed are supplemental wildfire strategies—prewildfire; during-the-wildfire; and overarching, or super, strategies—that use tools and innovations designed to keep pace with the rapidly escalating peril that is wildfire in the twenty-first century.

Moderator/Speaker: John Rollins

Speakers: Cody Webb, Chris Folkman

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## CONCURRENT SESSIONS 3

Tuesday, May 21, 9:45 a.m. – 11:00 a.m.

### **C-1: #MeToo**

#### Strand 13B

The panel will discuss the impact of #metoo claims on the insurance market.

Moderator/Speaker: Lynne Bloom

Speakers: Peter Venetis, William Primps

### **C-6: Auto Insurance Market in Asia**

#### Strand 11

This session will discuss the Auto Insurance Market in China, Japan and Malaysia.

Moderator/Speaker: Xiaoxuan (Sherwin) Li

Speakers: Chor Leong Aw Yong, Marcus Yamashiro

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## ☐ **C-8: Can Actuaries be replaced by Artificial Intelligence?**

### **Empire Ballroom C**

Artificial Intelligence (AI) is reaching performance milestones in reading comprehension, image analysis, and decision-making that have prompted academics, industry experts, and business leaders to consider what this means for the future of work. Certainly there is low-level work that could be accomplished by AI, but... Will it be smart enough to replace Actuaries? Join the discussion with industry experts that straddle the fields of AI and insurance.

Moderator/Speaker: Jason Rodriguez

Speakers: Chris Cheatham, Liam McGrath

## ☐ **C-10: Ceded Reserving: It is Not as Simple as Subtraction**

### **Strand 10**

This session will be a discussion of the pros and cons of various approaches to estimating ceded loss reserves. We will cover various data organization approaches as well as various actuarial techniques and what potential shortfalls may come from utilizing these methods. Finally, this session will help you tackle some of the more “difficult-to-quantify” loss sensitive features of reinsurance including aggregate deductibles.

Moderator: David Snow

Speaker: Joseph Milicia, Rachel Dolsky

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## ☐ C-13: Developing the Leader Within You

### Foster 1

“Developing the Leader Within You” addresses critical points that can take you from being an ordinary to extraordinary actuary. At the end of the presentation, you will learn and be able to use everyday practices that are being implemented across the country. You should elevate everything, including your ability to be the best actuary in your field.

Moderator/Speaker: Michael Laidler

## ☐ C-18: Impact of Brexit on the (Re)insurance Industry: Potential Problems, Potential Opportunities

### Empire Ballroom A

This session will include a general discussion about Brexit including potential impacts on the (Re)insurance market.

Moderator: Keith Allen

Speakers: Thomas Harris, Annette Spencer



# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## ☐ C-20: Lights! Camera! Professionalism!

### Empire Ballroom D

*This session will not be recorded.*

Have you ever come across professional dilemmas that you wish you had seen in a skit before facing them? If not, now's your chance! Come and see some fine acting by fellow actuaries while they perform sketches and grapple with such issues. You will walk away from this session with a better understanding of ASOP's, the Codes of Conduct, and how to apply them when you face your own professional ethical dilemmas. This session may be counted as professionalism credit for continuing education.

Moderator: Kathryn Walker

Speakers: Michael Starke, Pat Teufel, Mary Hosford, Derek Chin

## ☐ C-27: Telehealth, Telemedicine, and Video Visits

### Strand 13A

Enabling Technology, Patient Convenience, Lower Cost. Is this the future of outpatient services? This session provides a crash course in the pros, cons, and some unanswered questions about this growing service delivery model.

Moderator/Speaker: Martin King

Speakers: Elisha Krempez, Kurt Leisure

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## ☐ 🌸🌸 C-33B: The Predictive Modeling Cooking Show (repeat) 🎤

### Strand 12

The “Predictive Modeling Cooking Show” is a window in the kitchen of master chefs as they work, except the chefs are whipping up something different: a predictive model. Join real modelers as they showcase their data engineering and modeling skills, live and on stage. Two teams will go head-to-head on a classic, real-world prediction problem.

Moderator/Speaker: Chad Wilson

Speakers: Megan Camanocha, Melissa Schenck,  
Nathan Hubbell, Richard Sutherland

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## CONCURRENT SESSIONS 4

Tuesday, May 21, 11:15 a.m. – 12:30 p.m.

### **C-11: Climate Change - The New Normal**

#### **Empire Ballroom C**

A government report released last fall warned that extreme events are becoming more frequent, intense, and widespread.

This Panel will discuss the effect of these changes on the insurance market.

Moderator/Speaker: James Lynch

Speakers: Peter Dailey, Anna Ziiolecki

### **C-12B: Deciphering Cyber: The Current and Future State of Cyber Risk**

#### **Strand 13B**

Panelists will discuss the current state of information security and cyber risk management, and they will explore emerging issues and trends that could impact the insurance industry.

Moderator/Speaker: Danny Arnett

Speakers: Stephen Pannucci, David Standish,  
Laurie Kamaiko

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## ☐ **C-13B: Developing the Leader Within You (Repeat)**

### Foster 1

Developing the Leader Within You addresses critical points that can take you from being an ordinary to extraordinary actuary. At the end of the presentation, you will learn and be able to utilize everyday practices that are being implemented across the country. You should elevate everything, including your ability to be the best actuary in your field.

Moderator/Speaker: Michael Laidler

## ☐ **C-16: Enterprise Risk Management: Working with Elephants and Black Swans in the Real World (A Joint Risk Management Sponsored Session)**

### Strand 12

This session will take you on an interactive excursion of the current risk environment. We will visit the lair of the black swan and the world of disaster denial. We will share first-hand accounts with swans, elephants and dinosaurs, as well as lessons learned. We are saving a seat for you on this tour. The plan is for small group discussions and interactive dialogue with the speakers and audience in an interactive discussion

Moderator/Speaker: Robert Wolf

Speaker: David Ingram

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## ☐ **C-21: Machine Learning — Moving Away from GLMs to New Techniques**

### **Empire Ballroom A**

Join us in this panel discussion as we discuss the practical aspects of incorporating machine learning algorithms into the analysts toolkit. We will also discuss applications where machine learning approaches may replace standard GLMs.

Moderator: Jason Rodriguez

Speakers: Dana Ferguson, G. Edward Powell

## ☐ **C-24: Not a Talk About Autonomous Vehicles: Advanced Driver-Assistance Systems and Insurance**

### **Empire Ballroom D**

Autonomous Vehicles attract significant hype, along with disillusionment. While autonomous technology is in early stages of development and testing, already introduced safety features are showing meaningful loss reduction results that will impact auto insurance. How big is the impact and how will carriers respond? We'll discuss how Avinew, an insurtech startup, is building a company that embraces vehicles equipped with advanced safety features.

Moderator/Speaker: Steve Walsh, Ed Combs

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## ☐ 🌸 C-26: Taxes...They're BEAT 🎤

### Strand 13A

During this session, we will examine insights into recent changes to the U.S. domestic tax code as well as details surrounding the “base erosion and anti-abuse tax” (the “BEAT”) under section 59A of the Internal Revenue Code.

Moderator/Speaker: Stuart Katz

Speaker: David Jones, Jean Baxley

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## ☐ C-32: The Pelican State: Understanding the Louisiana Insurance Marketplace

### Strand 11

In 2005, Hurricane Katrina devastated the Greater New Orleans area, causing \$161 billion of damage. Over \$10 million in damages occurred in Louisiana in 2016 due to a catastrophic flood. Auto insurance rates are currently the second highest in the country as much of the population remains uninsured or underinsured. For coastal rates, affordability and adequacy is a constant battle. Throughout this session, we will discuss the Louisiana insurance marketplace, focusing on some of the current challenges and a deeper look at some recent task force work done to analyze potential legislative solutions to Louisiana's high automobile rates, plus this session will also explore the Louisiana Homeowners Insurance market.

Moderator/Speaker: Kellen Miller

Speakers: Charles Hansberry

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## ☐ C-35: The Reinsurance Market - Soft, Hard or Somewhere in Between?

### Strand 10

For a number of years the reinsurance market has been either softening or just outright soft. Large CAT losses, which historically have changed the direction of a soft market by impairing the availability capital, were occurring but not changing the direction of the market. Are we starting to see cracks in that now? Is this attributable to the devastating hurricanes, or floods or wildfires? Or can it be something else?

Moderator: David Snow

Speakers: Jason Harger, Sean Devlin



# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## ADDITIONAL CONCURRENT SESSION 1

Tuesday, May 21, 2:30 p.m.- 3:45 p.m.

☐   **C-34B: The Promise, Pitfalls and Process of AI**  

### Empire Ballroom A

This session will begin by placing AI within the broader context of big data, predictive analytics, machine learning, deep learning, data science and even humble statistics. This context will help identify the common features of problems that have been solved successfully. Understanding these features will in turn highlight classes of business problems that are more and less likely to be solved by AI. From here, we will explain the process of getting started with AI through some basic examples focusing on the technology stack, workflow, data needs and implementation issues.

Moderator/Speaker: Brian Fannin

Speaker: Stephen Mildenhall

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## ROUNDTABLE DISCUSSIONS

Tuesday, May 21, 2:30 p.m.- 3:30 p.m.

### ☐ R-1: What Should Define the Future Of Insurance Regulation? - Roundtable

#### Strand 10

You won't want to miss this incisive session on insurance regulation. We will go beyond the topic of oft-proposed structures and instead will delve into what ought to shape an evolved regulatory environment.

Facilitators: Daniel Schwarcz, David Snyder

### ☐ R-2: #MeToo - Roundtable

#### Strand 11

This roundtable will discuss the impact of #metoo claims on the insurance market.

Facilitators: Peter Venetis, William Primps

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## ☐ R-3: Best Practices in Hiring and Retaining a Diverse Actuarial Team

### Strand 12

Hosted by the CAS Diversity Committee, this roundtable will discuss common unconscious biases in the hiring process and tactics to counteract these biases. Hiring managers as well as mid-level employees are encouraged to join the discussion. The Committee hopes to summarize the results of the discussion into an article that can be shared with the membership. Attendees are invited to join us at a reception for the International Association of Black Actuaries and Organization of Latino Actuaries immediately following the session.

Facilitators: Mallika Bender, Timothy Garcia,

## ☐ R-4: The New Associate's Perspective: Advancing Your Career Through the CAS

### Strand 13A

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.

Facilitator: Shelby Wolff

# GENERAL AND CONCURRENT SESSIONS

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## ☐ R-5: Modeling Casualty Catastrophes - Roundtable

### Strand 13B

This roundtable will discuss casualty catastrophe modeling.

Facilitators: James Kaufmann, Adam Troyer, Francis Gribbon

## ADDITIONAL CONCURRENT SESSION 2

Tuesday, May 21, 4:00 p.m.- 5:15 p.m.

## ☐ C-24B: Not a Talk About Autonomous Vehicles: Advanced Driver-Assistance Systems and Insurance

### Empire Ballroom A

Autonomous vehicles attract significant hype, along with disillusionment. While autonomous technology is in early stages of development and testing, already-introduced safety features are showing meaningful loss reduction results that will affect auto insurance. How big is the impact and how will carriers respond? We'll discuss how Avinew, an insurtech startup, is building a company that embraces vehicles equipped with advanced safety features.

Moderator/Speaker: Steve Walsh, Ed Combs

# GENERAL AND CONCURRENT SESSIONS

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## CONCURRENT SESSIONS 5

Wednesday, May 22, 8:00 a.m. – 9:15 a.m.

### **C-3B: Actuarial Trivia Challenge!**

#### **Strand 10**

*This session will not be recorded.*

From the group that brought you Jeopardy!, Family Feud, and Who Wants To Be An Actuary?, the CAS Professionalism Education Committee presents the latest incarnation of its actuarial trivia format. Using the Kahoot app, audience members will answer a series of multiple-choice trivia questions that will test the depth of their knowledge on the profession's professional standards. This session may be counted as professionalism credit for continuing education.

Moderator: Kathryn Walker

Speakers: James Bedford, Michael Starke

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## □ C-5: Applying Brain Rules For Effective Presentations

### Strand 13B

More and more resources are available to us to put our numbers into more effectively designed graphs and charts. The next step is to put all of this information into effective presentations. Applying adult learning theory, specifically “Brain Rules,” this interactive session will both explore specific rules that apply to presentations and collaboratively diagnose enhancements to a number of sample slides.

Problem slides? Send your slide to us in advance of the session and we will try to use it in our session. Want some private support and not to be shared? Let us know that too by emailing Stephanie Rabin at [stephanier@holborn.com](mailto:stephanier@holborn.com).

Moderator: David Core

Speakers: Stephanie Rabin, Beverly Phillips

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## ☐ **C-19: Investments — Optimizing The Other Side of the Balance Sheet**

### Strand 13A

P&C companies face a number of constraints with regard to how their assets are invested. This session will explore the asset side of the balance sheet and explore how companies can optimize their investments.

Moderator/Speaker: Stephen Smith

Speaker: Eric Nilles

## ☐ **C-23: Multi-Period Pricing Strategies**

### Strand 11

The recently formed Long-Term Pricing Analysis Working Party (LTPAWP) is conducting research to formalize potential methods, advantages and standard requirements (data, models) when explicitly accounting for multiple policy periods in a pricing analysis. This session will provide insight into the working party's goals and highlight the potential benefits of formal, multiple policy period considerations in pricing via a live market simulation. Be prepared to compete! As the simulation will be web-based, please bring a web browser-enabled device.

Moderator/Speaker: Brian Fannin

Speakers: Joshua Newkirk, Ryan Ferguson

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## ☐ **C-25: Predictive Analytics in Capital Modeling Working Party**

### **Foster 1**

The goal of the CAS Predictive Analytics in Capital Modeling Working Party is to explore potential areas where predictive analytics can be used in the field of capital modeling. This panel discussion will cover some topics the working party consider to have potential and a use-case paper, “Upgrading an Existing Capital Model — A Common Risk Driver Application,” written by Mario DiCaro and Allan Kaufman. We hope the panel will generate discussion with the audience and additional topics of research.

Moderator/Speaker: Mario DiCaro

Speaker: Timothy Garcia



# GENERAL AND CONCURRENT SESSIONS

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## **C-30: The Evolution of Data: Implications for Actuaries**

### **Empire Ballroom D**

In our session, learn how to build a modern data analytics team that utilizes new data sources, technologies, and workflows. Also learn how technological advancements in deep learning and big data enable actuaries to use reliable data, updated to the time of the claim (and not just the time of underwriting) and introduce new data-points that were not accessible until now.

Moderator/Speaker: Jeffrey White

Speaker: Leandro DalleMule

# GENERAL AND CONCURRENT SESSIONS

JOIN THE CONVERSATION ON TWITTER #CASSPRING

## GENERAL SESSION IV & ADJOURNMENT

Wednesday, May 22, 9:45 a.m. – 11:30 a.m.

### **G-4: Insurtechs and IoT: Changing the Face of Insurance**

#### **Empire Ballroom AB**

This session will explore the market place of insurtechs. What are the trends in insurtechs (e.g., UBI)? How are insurers preparing and reacting to these changes? Are insurers being proactive or merely reactive? And finally what do IOT-based pricing and emerging risks mean for actuarial pricing and reserving?

Moderator: Meagan Mirkovich

Speakers: Matteo Carbone, Robert Galbraith

# CLRS

*September 16-18, 2019*

*Fairmont Austin*

*Austin, TX*



## **SPOUSE/GUEST PROGRAM**

The spouse/guest\*\* registration includes the following:

### **Continental breakfasts**

(Monday, Tuesday, Wednesday: 7:00 a.m. –8:30 a.m.)

### **Sunday Welcome Reception**

(Sunday: 6:30 p.m. – 7:30 p.m.)

### **Tuesday Buffet Dinner at Mardi Gras World**

(Tuesday: 6:00 p.m. – 9:00 p.m.)

\*\*Person accompanying an Academic or CAS Member, Affiliate, Subscriber, Active Candidate\* or Member of an Actuarial Association Worldwide to social functions. Attendance at educational sessions is not permitted with this registration fee category.

# SPOUSE/GUEST PROGRAM

## Individual Tickets

In lieu of the complete spouse/guest registration package, attendees may purchase individual tickets to the social events for their guests. Individual tickets are available for the continental breakfasts, Sunday Welcome Reception and the Tuesday Buffet Dinner at Mardi Gras World. These individual tickets are not necessary for registered attendees to purchase, as each event is already included in the registration fee.

All ticketed events below are already included in both the attendee and the spouse/guest registration fee. These tickets are only intended for use by individuals NOT already registered.

INDIVIDUAL TICKETS FOR PURCHASE at CAS Registration Desk

Sunday Welcome Reception (Age 21+): \$70

Sunday Welcome Reception (Child aged 3-20 years): \$35

Buffet Dinner at Mardi Gras World (Age 21+): \$180

Buffet Dinner at Mardi Gras World (Child aged 3-20 years): \$90

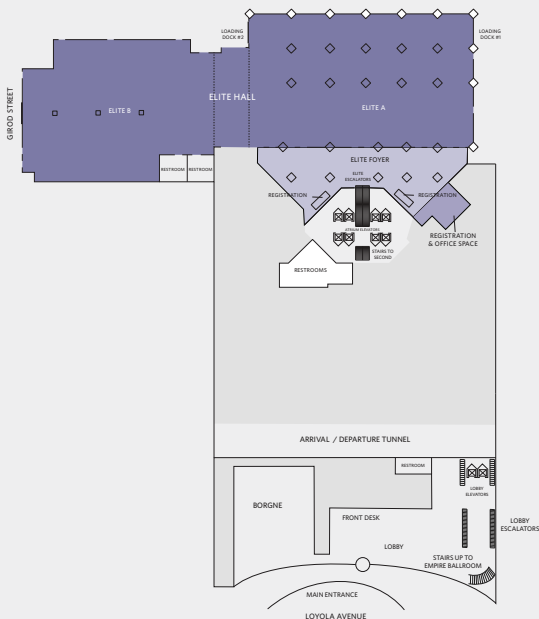
Monday Continental Breakfast: \$45

Tuesday Continental Breakfast: \$45

Wednesday Continental Breakfast: \$45

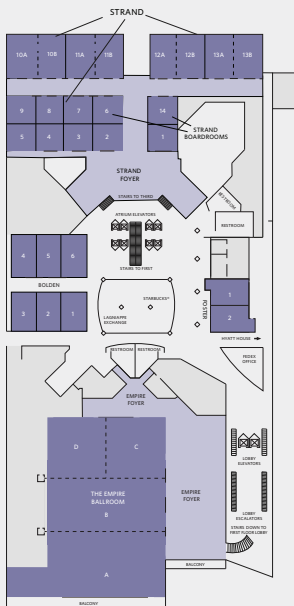
# HOTEL MAP

FLOOR PLAN  
Level One



# HOTEL MAP

FLOOR PLAN  
Level Two



## 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

