CAS

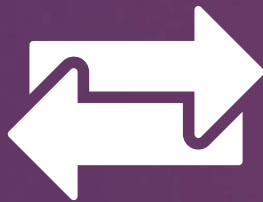# 2024 Spring Meeting

ATL | Adapt Transform Lead

May 5-8 2024 • Atlanta, Georgia

General Information

For more information on the following, please consult the CAS Spring Meeting website, spring.casact.org.

Consent to Use of Photographic Images

Participation at the Spring Meeting constitutes an agreement by the registrant for the CAS to use photographic images and other images. Please see the Spring Meeting website (spring. casact.org) for details.

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The CAS is dedicated to providing a harassment-free conference experience for everyone. Registration and attendance at CAS meetings, seminars, webinars and other activities constitutes an agreement to our Code of Conduct. The full Code of Conduct (https://spring.casact.org/attend#code-of-conduct-for-cas-events) clarifies prohibited activities and responsibility of all attendees.

Speaker Opinions

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

Wireless Access

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

Network: CAS Spring Meeting
Password: Galecki (not case sensitive)

Download the CAS Meeting App

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.

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Sessions in **bold** are education.

Sunday, May 5

4:00 PM – 6:30 PM	Registration
12:00 PM – 4:00 PM	**Half Day Workshops** [**separate fee**]
5:00 PM – 5:45 PM	Speed Networking for New FCAS and FCAS Credentialed within Last 5 Years
5:00 PM – 6:30 PM	Recognition Reception for New Associates and their Spouses/Guests
6:30 PM – 7:30 PM	Welcome Reception (with Exhibitors)

Monday, May 6

7:00 AM – 4:30 PM	Registration
7:00 AM – 8:30 AM	Continental Breakfast (with Exhibitors)
8:00 AM – 9:00 AM	Welcome, Celebration of New Members
9:00 AM – 9:30 AM	Refreshment Break (with Exhibitors)
9:00 AM – 9:30 AM	New FCAS Group Photo Session
9:30 AM – 10:30 AM	**Featured Speaker**
10:30 AM – 11:30 AM	Business Session/Town Hall
11:30 AM – 1:00 PM	**Plated Luncheon with Roundtables**
1:00 PM – 2:00 PM	**Concurrent Sessions 1**
2:00 PM – 2:30 PM	Transition
2:30 PM – 3:30 PM	**Concurrent Sessions 2**
3:30 PM – 4:00 PM	Refreshment Break (with Exhibitors)
4:00 PM – 5:15 PM	**General Session 1**
5:30 PM – 6:15 PM	Speed Networking for New Associates
6:00 PM – 7:00 PM	Officers' Reception for New Fellows and their Spouses/Guests

Tuesday, May 7

7:00 AM – 2:00 PM	Registration
7:00 AM – 8:30 AM	**Continental Breakfast with Roundtables/Other CE and Exhibitors**
8:00 AM – 9:15 AM	**General Session 2**
9:15 AM – 9:45 AM	Transition
9:45 AM – 10:45 AM	**Concurrent Sessions 3**
10:45 AM – 11:15 AM	Refreshment Break (with Exhibitors)
11:15 AM – 12:15 PM	**Concurrent Sessions 4**
12:15 PM – 1:45 PM	Lunch on Your Own
1:45 PM – 2:35 PM	Speed Networking for ALL Attendees with a Full Registration Badge
1:45 PM – 2:35 PM	**Roundtables/Other CE — Tuesday Evening**
2:35 PM – 3:05 PM	Transition
3:05 PM – 3:55 PM	**Roundtables/Other CE — Tuesday Evening**
3:55 PM – 4:25 PM	Transition
4:25 PM – 5:15 PM	Demonstration: Cognalysis CLCM (Claim Life Cycle Model) and MultiRate
4:25 PM – 5:15 PM	**Roundtables/Other CE — Tuesday Evening**
6:30 PM – 10:00 PM	Tuesday Night Event at World of Coca-Cola

Wednesday, May 10

7:00 AM – 11:45 AM	Registration
7:00 AM – 8:30 AM	**Continental Breakfast with Roundtables/Other CE and Exhibitors**
8:00 AM – 9:00 AM	**Concurrent Sessions 5**
9:00 AM – 9:30 AM	Transition
9:30 AM – 10:30 AM	**Concurrent Sessions 6**
10:30 AM – 11:00 AM	Refreshment Break (with Exhibitors)
11:00 AM – 12:30 PM	**General Session 3** & Adjournment

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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**

🎤 **Non-Recorded Session**

▶ **Livestreamed Session**

5/5/2024, 12:00 PM-4:00 PM
Capability Model Tags: S:DA:L1

❏ 🍎🍎 WS-1: Actuarial Data Manipulation with R [Separate Registration Required] 🎤

Room: 216 (over the Skywalk)

Because of its statistical and graphical capabilities, R has become part of the actuarial toolkit. However, actuaries often lack systematic training in manipulating data using R. In this session, we review fundamental R data structures and their application to insurance data. Participants will learn to perform basic actuarial procedures using modern data manipulation libraries (tidyverse). We will cover different aspects of a reserving and ratemaking workflow (policy/claim data manipulation, rating, loss development, indications), with examples taken from CAS Exam 5 study notes (Werner, Appendix C). In each module, we will discuss practical R programming problems in small groups. Participants will gain a better grasp of R data structures and their application to insurance data. They will be able to script basic data manipulation pipelines that perform routine actuarial procedures. Participant should have basic programming skills, as well as some experience performing actuarial procedures.

Learning Objectives:

1. Select the most appropriate R data structure to represent different types of actuarial concepts: vector, list, data frame, array, date, etc.

2. Write R scripts that load, manipulate and export insurance data, using state-of-the-art libraries: tidyverse, dplyr, lubridate, purrr, etc.

3. Perform simple standard actuarial procedures in R: aggregate claim/policy data, calculate summary ratios, calculate and develop claim triangles, etc.

Moderator:	Denis Dréano, Lead Actuarial Models & Architecture, Swiss Re
Speakers:	Denis Dréano, Lead Actuarial Models & Architecture, Swiss Re

5/5/2024, 12:00 PM-4:00 PM
Capability Model Tags: C:FE:L2

❑ 🍎 WS-3: Introduction to Ratemaking [Separate Registration Required] 🎤

Room: 217 (over the Skywalk)

This session on basic ratemaking offers a comprehensive dive into the fundamental topics and methodologies required to understand how property and casualty insurance rates are determined.

Learning Objectives:

1. List and describe the components necessary to create a rate level indication.

2. Create a rate level indication using the necessary components and various adjustments to the components.

3. Identify other considerations when proposing a rate level change to the insurance company senior management.

Moderator:

Speakers: Matthew Samuel, Actuary, Milliman, Inc.

Melanie Carlson, Product Manager, Milliman, Inc.

5/5/2024, 12:00 PM-4:00 PM
Capability Model Tags: C:MM:L2,S:DA:L2,S:LT:L3,T:AN:L2,T:IC:L3,T:CR:L2

❑ 🍎 WS-4: Practical AI Applications for Underwriting [Separate Registration Required] 🎤

Room: 218 (over the Skywalk)

This hands-on workshop will focus on the practical applications of Retrieval-Augmented Generation (RAG) AI models and LLMs in underwriting. We'll also touch on some use cases around multi-modal models. It aims to provide actuaries with a solid understanding of how these technologies can be applied, emphasizing a Python-based implementation.

Learning Objectives:

1. Understand the fundamentals of RAG AI models and their relevance in the context of actuarial science.

2. Explore real-world use cases of RAG AI in risk assessment, predictive modeling, and data analysis.

3. Develop basic skills in implementing Python-based RAG AI models for actuarial tasks.

Moderator:

Speakers: Sergey Filimonov, CTO, Three Sigma

Drew Whitney, co-founder, Threesigma.AI

5/6/2024, 9:30 AM-10:30 AM

❑   FS-1: Featured Speaker: Chaunté Lowe: Champion Mindset: Overcoming Adversity and Tenacity During Challenging Times ▶

Room: Grand Ballroom East

Have you wondered just how much adversity you or your team can handle? As a young girl, Chaunté Lowe had a dream of becoming an Olympian. After years of hard work and determination, her dream finally came true, but she was met with challenge after challenge in her quest for a medal. In 2019, Chaunté received the devastating diagnosis of triple-negative breast cancer —which is among the most aggressive forms. She decided to bring awareness to the importance of early detection and empower others by training for the 2020 Tokyo Olympic Games — while undergoing treatment. In her powerful and inspirational story of determination, perseverance, and strength, Chaunté openly shares the valuable lessons she learned as she beat impossible odds. —- If there's an art to facing obstacles and coming out on top, Chaunte Lowe takes the Gold. The world-renowned high jumper lives to conquer barriers, racking up 4 Olympic Games Appearances, 3 Global Championship medals, 3 American records, and several global accolades. Many are surprised to learn that she achieved most of these accomplishments while also holding the title of "mother of three." Her performances on the field have earned her inductions into three separate halls of fame and four separate invitations to be honored at the White House by several US Presidents. Lowe, a world-renowned resilience speaker, has been featured in numerous publications, including The New York Times, Huffington Post, Vogue, Glamour, Essence, and Sports Illustrated. When speaking, she is true to how she performs. She is animated, entertaining, and humorous. She dances and plays to the crowd as she shares stories of beating impossible odds, time and time again. She possesses the ability to keep the group engaged and hanging on to her every word. Those who get a chance to encounter her leave inspired and motivated. Her infectious personality is electrifying. You can't help but leave an interaction with her with a winning, "I can do ANYTHING" attitude. Chaunte would have never guessed, with all that she accomplished, that her biggest obstacles would come off the track. In 2019, Lowe was rattled with the devastating diagnosis of triple-negative breast cancer, which is among the most aggressive forms. In a state of disbelief, Chaunté took the crushing blow head-on, being forced to bow out of the national championships for a double mastectomy and miss the world championships for chemotherapy. Still, in Chaunté fashion, she decided that she would fight against the odds and still train through chemo in hopes of making the delayed 2020 US Olympic team. Now known as the utmost expert on resilience, her advocacy work focuses on early detection and breast cancer awareness to save lives. Reaching hundreds of millions of people, her work was honored with the NCAA Inspiration Award, The 'Hero Among Us' award, and she was recently named to Georgia Tech's 40 under 40 2021 Class.

Learning Objectives:

1.

2.

3.

   Moderator:

   Speakers: Chaunté Lowe, 4-Time Olympian; Author; TEDx Speaker; Breast Cancer Thriver, WSB

5/6/2024, 1:00 PM-2:00 PM
Capability Model Tags: C:PC:L3

❑ 🍎 CS-11: Charging into an EV Future ▶️

Room: Grand Ballroom West

Electric vehicles (EVs) are rapidly increasing in popularity and many manufacturers have stated goals of migrating to all-electric vehicle offerings. By 2030, seven percent of the U.S. fleet is predicted to be electric powered vehicles. The price, power, weight, form factor and garaging location of EVs vary considerably from internal combustion engine vehicles. These differences drive differences in insurance losses, which will be explored. This session will include examinations of electric vehicles compared to their internal combustion engine counterparts as well as Tesla vehicles compared to other vehicles in their size and class group. This presentation will explore those differences and will also discuss the considerable differences between early EVs and the newest offerings. Total losses, theft, and noncrash fire losses of EVs will also be explored.

Learning Objectives:

1. Explore collision, PDL, BI, MedPay, PIP, and comp differences in frequency, severity, and overall losses for EVs and their counterparts.

2. Describe differences in points of impact and total losses between EVs and their conventional counterparts or other vehicles in their size and class.

3. Identify trends in power, weight, and size of new EVs and how that can impact insurance and safety.

Moderator:	Kay Wakeman, Director of Insurance Outreach, IIHS-HLDI
Speakers:	Kay Wakeman, Director of Insurance Outreach, IIHS-HLDI
	Matt Moore, Senior vice President, IIHS / HLDI

5/6/2024, 1:00 PM-2:00 PM
Capability Model Tags: S:LT:L2

❏ 🍎 CS-13: Cloud Computing for Future-Proof Processes

Room: 208-209

This presentation explores the adoption of cloud computing in the actuarial profession and its potential to expedite and enhance actuarial processes. It highlights the diverse range of tools and technologies available and discusses how cloud computing can be seamlessly integrated to optimize these processes. The presentation delves into the benefits of cloud computing, such as scalability, flexibility, and cost-effectiveness, and how it can support actuaries in managing and analyzing large volumes of data. It also addresses concerns around data security and privacy in the cloud and provides insights on best practices for ensuring compliance and risk mitigation. The presentation showcases practical applications of cloud computing in actuarial work, including data storage, modeling, simulation, and collaboration. Attendees will gain a deeper understanding of the benefits and considerations associated with adopting cloud computing in the actuarial field, empowering them to leverage this technology to enhance efficiency, accuracy, and innovation in their actuarial practices for the future.

Learning Objectives:

1. Gain insights on cloud-based computing, its principles, key features, and why it is becoming a popular choice for managing and processing actuarial data.

2. Learn key benefits of utilizing cloud-based computing in handling actuarial data.

3. Understand the practical aspects to consider when moving actuarial data to the cloud

Moderator:

Speakers: Sang Suk Cho, Manager, EY

5/6/2024, 1:00 PM-2:00 PM

Capability Model Tags: C:PC:L3, C:MM:L3, C:FI:L3, C:FE:L3, C:RM:L3, C:AS:L3, S:CT:L3, S:DA:L3, S:BT:L3, S:BA:L3, T:AN:L3, T:IC:L3, T:CO:L3, T:CR:L3, T:IA:L3, T:PR:L3

❏ 🍎 CS-24: Enterprise Risk Management: Scenario Planning for Regime Change

Room: 204-205

Radical changes in our Physical, Political, Economic and Social systems have been and will continue to buffet humanity. Every so often the combined result is a major change of regime in which new patterns for each of these systems develops and persists for some time creating a new normal. The speakers will make the case that this is coming in our world and suggest that this topic needs to be on our lists for both Enterprise Risk Management scenario planning and for corporate strategic planning. In this session the speakers will provide several examples of past Regime Changes and how they have impacted the world, along with a detailed discussion of how recent disruptions can lead toward a persistent change in the business, social and political environment. Come develop an understanding of these drivers of change as well as the likely impacts on the Financial Services industry, as well as how we as actuaries might prepare to respond within the business sectors that we serve.

Learning Objectives:

1. Learning about recent and historical regime changes

2. Definings aspects of historical and recent potential factors that contribute to regime changes.

3. Demonstrate considerations in adapting to the potential regime changes.

Moderator:

Speakers: Robert Wolf, Vice President, Chief Actuary, Stonetrust Insurance Group / Wintaii

David Ingram, ERM Advisor, Actuarial Risk Management

Jim Evans

5/6/2024, 1:00 PM-2:00 PM

Capability Model Tags: C:PC:L2, C:FE:L1, S:DA:L2, S:PR:L2, S:LT:L2, T:AN:L1, T:PR:L2

❏ 🍎 CS-3: Addressing Disparate Impact in Actuarial Models

Room: 210-211

The utilization of models and the potential for the presence of disparate impact in these models remains a critical topic in the insurance industry today. Many have weighed in on the topic, from regulatory and advocacy groups to actuaries and data scientists. With the diverse viewpoints represented, the material available ranges from the policy-focused to the technical. Whether you are just getting acquainted with disparate impact concepts or are looking for ideas on how to measure fairness, this session will bring you up to speed on the current landscape.

Learning Objectives:

1. Describe the current U.S. insurance regulatory landscape around disparate impact.

2. Calculate various fairness metrics on real-world data.

3. Explain the practical tradeoffs of different fairness metrics.

Moderator: Rich Moncher, Senior Consultant, Octagram Analytics

Speakers: Ben Charlston, Associate Director, WTW

5/6/2024, 1:00 PM-2:00 PM
Capability Model Tags: C:PC:L3,C:MM:L3,C:RM:L2,S:CT:L3,S:DA:L2,S:BT:L2,S:BA:L2,S:LT:L3,T:IA:L1

❏ 👃👃👃 CS-37: The Role of the Actuary in Cyber Market Building 🎤

Room: 206-207

As cyber gains maturity, we are moving away from market driven pricing towards more analytics driven pricing. This puts the actuary in a unique position to influence the cyber market trajectory. In this session we will discuss the current state of the market from an analytics perspective and how actuaries leverage existing modeling frameworks from adjacent insurance products as well as data science methods widely used in the technology space.

Learning Objectives:

1. Current bottlenecks in Cyber market growth.

2. How actuaries have adapted standard actuarial models to be cyber specific.

3. How cyber models are uniquely positioned to leverage technology and actuarial worlds.

Moderator:

Speakers: Dan Palardy, Chief Actuary, Cowbell

                        ryan wilkins, Cyber Reinsurance Actuary, Gallagher Re

                        Andrew Li, Head of Pricing, Corvus Insurance

5/6/2024, 1:00 PM-2:00 PM
Capability Model Tags: C:MM:L3

❏ 👃 CS-38: Understanding Customers with Predictive Analytics ▶

Room: Grand Ballroom East

This presentation focuses on the use of predictive analytics to gain a deeper understanding of insurance customers and enhance decision-making processes. It explores various components of predictive analytics, including demand modeling, internal models on loss costs, and projections of quote volumes based on macroeconomic and marketing factors. The presentation highlights how these predictive models can assist insurers in assessing and managing risk effectively. It discusses the application of data-driven techniques, such as machine learning and statistical modeling, to uncover insightful patterns and trends in customer behavior, preferences, and risk profiles. Attendees will gain a comprehensive understanding of how predictive analytics can empower insurance companies to make data-informed decisions, improve profitability, and deliver tailored products and services to meet the evolving needs of their customers.

Learning Objectives:

1. Assist insurers in assessing and managing risk effectively through predictive models.

2. Demonstrate how predictive analytics can empower insurance companies to make data-informed decisions and improve profitability.

3. Describe to company leadership how predictive analytics can help to gain a better understanding of risk selection within the underwriting function.

Moderator: Susan Patschak, Senior Manager, EY

Speakers: Edward Lee, Actuary, EY

5/6/2024, 1:00 PM-2:00 PM
Capability Model Tags: C:PC:L1,C:FE:L2,S:CT:L1,T:IA:L2

❏ 🩸 CS-40: Why We Should Be Talking More About Exposure Bases

Room: 212-214

This session will deal with exposure bases which are an important part of actuarial ratemaking work and have not always been focused on at CAS seminars. We will provide a brief history of exposure bases, how they have evolved, and discuss what makes a good exposure base today. Following that, we will discuss some of the applications of exposure bases. We will also discuss modern challenges and opportunities with exposure bases including the impact of technological improvements and the Covid-19 environment This will be an interactive session with polling questions regarding some of the key issues we will be discussing. Additionally, there will be opportunities for audience members to share their thoughts on these issues.

Learning Objectives:

1. Discuss why exposure bases are important and what makes a good exposure base.

2. Compare the benefits/drawbacks of the use of inflation sensitive exposure bases (sales, payroll) versus purely activity-based exposure bases (gallons, admissions, store visitors).

3. Discuss the modern challenges and opportunities with respect to exposure bases.

Moderator:	Tim McCarthy, Senior Director, Verisk
Speakers:	Tim McCarthy, Senior Director, Verisk

5/6/2024, 2:30 PM-3:30 PM
Capability Model Tags: S:LT:L3

❏ 🩸 CS-19: Demystifying Artificial Intelligence: Dispelling Myths and Identifying Transformative Applications in Actuarial Work

Room: 212-214

In an era of inflated buzz around artificial intelligence, it becomes essential to discern hype from genuine breakthroughs. This presentation demystifies AI, clarifying that at its core, it's a collection of sophisticated algorithms. We will disentangle fact from fiction and spotlight truly transformative applications, providing a grounded perspective on how AI can genuinely revolutionize actuarial practice.

Learning Objectives:

1. Distinguish between common myths and genuine capabilities of AI, facilitating an understanding of its core as a collection of clever algorithms.

2. Identify and evaluate transformative applications by appreciating their potential impact in advancing actuarial practice.

3. Apply insights to recognize potential AI applications in actuarial work, fostering an environment for innovation and enhanced problem-solving.

Moderator:	
Speakers:	Max Martinelli, Actuarial Data Scientist, Akur8
	Jan Küthe

5/6/2024, 2:30 PM-3:30 PM

Capability Model Tags: C:AS:L3

❏ 🍎 CS-20: Developing Actuarial Judgment ▶

Room: Grand Ballroom West

What is Actuarial Judgment and how does one develop it? This is a question that is often asked by new actuaries, including those in companies where there isn't a core of senior actuaries to lean on. The presenters have developed some insight based on their experience and plan an interactive session to discuss these topics. How did you develop Actuarial Judgment? Does one ever stop developing Actuarial Judgment? What guidance would you give to aspiring young actuaries?

Learning Objectives:

1. Define actuarial judgement and the relationship between training, standards of practice, and the code of conduct.

2. Understand the tools necessary to develop actuarial judgement.

3. Understand indicators of good actuarial judgement and how to maintain good actuarial judgement under pressure.

Moderator:	Jeremy Shoemaker, Principal, Oliver Wyman Actuarial Consulting, Ltd.
Speakers:	Ronald Kozlowski, Lead Consultant, RTK Actuarial + Professional Services
	Megan Baker, Consulting Actuary, Pinnacle Actuarial Resources, Inc.

5/6/2024, 2:30 PM-3:30 PM

Capability Model Tags: C:FE:L3,S:BA:L1,S:LT:L1,T:AN:L1

❏ 🍎 CS-27: How is the Parallelogram Method Impacting your Indication?

Room: 206-207

Given the disruption to many lines of business due to the pandemic, the assumption of uniformity that the Parallelogram method requires may no longer hold true. The goal of this presentation is to quantify the difference in indicated rate need when using the Parallelogram method versus the Extension of Exposures method when the uniformity assumption is violated. We will explore the effects of growth, shrinking, or a changing mix of business on the indicated rate need when using both methods of on-leveling premiums.

Learning Objectives:

1. Describe what changes to a book of business will violate the assumptions of the Parallelogram method.

2. List which changes to a book of business have an adverse impact indication calculations.

3. Quantify the difference in rate need when both methods of on-leveling are used.

Moderator:	
Speakers:	Charles Zhu, Senior Director of Actuarial and Underwriting, Roamly
	Kyle Bartee, Head of Actuarial Pricing, Roamly

5/6/2024, 2:30 PM-3:30 PM

Capability Model Tags: C:PC:L2, C:MM:L2, C:FE:L3, C:RM:L2, C:AS:L3, S:CT:L3, S:DA:L3, S:PR:L3, S:BA:L3, S:LT:L2, T:AN:L3, T:IC:L3, T:CO:L3, T:CR:L3, T:IA:L3, T:PR:L3

❑ 🍎 CS-28: Imputing Race & Ethnicity for Assessing Fairness in Insurance

Room: 210-211

When evaluating outcomes and potential bias, statistical methods for imputing or modeling race and ethnicity can be helpful tools. While various approaches have been used to address missing race and ethnicity data over the years, imputation methods have evolved significantly and not all are not widely known or understood in the actuarial profession. We will describe a range of techniques for developing probabilistic estimates or predictions of individual race and/or ethnicity. In addition, this session will explore a novel assessment and management framework around unfair discrimination, with specific application for the potential impact of race in a rating model. This methodology is being used to understand potential unfair discrimination and respond to the current and future regulatory actions around variables.

Learning Objectives:

1. Understand different imputation methods for race and ethnicity.

2. Learn about the main packages for imputing race and ethnicity.

3. Understand a methodology that can be used to assess the impact of race.

Moderator:	Reese Mularz, Actuary, Milliman
Speakers:	Gabe Usan, Data Scientist, Milliman
	Larry Baeder, Data Scientist, Milliman
	Michael Regier, Assistant Vice President, Verisk

5/6/2024, 2:30 PM-3:30 PM

Capability Model Tags: C:MM:L2, S:DA:L2, S:LT:L2, T:AN:L1

❑ 🍎 CS-29: It Pays to Be Bayes

Room: 204-205

This session will give an overview of why the Bayesian framework would be beneficial to actuaries and how it fits into the actuarial workflow. With the help of modern technologies (Stan and Python/R), it could be very efficient and practical to build models and evaluate model performance while remaining flexible with model specifications to account for actuarial judgements.

Learning Objectives:

1. Understand how Bayesian framework is used in actuarial workflow.

2. Build models for stochastic loss reserve estimates for Bayesian MCMC with Stan and Python/R

3. Evaluate and compare model performance on difference metrics

Moderator:	
Speakers:	Xuan You, Senior Actuarial Data Scientist, Ledger Investing
	Mark Shoun, Chief Data Scientist, Ledger Investing

5/6/2024, 2:30 PM-3:30 PM
Capability Model Tags: C:PC:L3, T:AN:L3

❑ 🍑 CS-5: Assessment of Natural Catastrophe Impacts on the Insurance Industry ▶

Room: Grand Ballroom East

2023 was another record-breaking year of insured losses from natural catastrophes across the U.S. We will explore how environmental and socioeconomic factors have led to increased loss volatility from natural perils as well as take a deeper look at the financial impact that increased volatility has had on the insurance industry over the past decade.

Learning Objectives:

1. Demonstrate an understanding of the financial impacts of 2023 natural catastrophes on the insurance industry

2. Establish a foundational knowledge of environmental and socioeconomic factors contributing to loss volatility.

3. Describe the fingerprints of climate change and how they impact weather volatility

Moderator:	Luna Gu, Associate Director, WTW
Speakers:	Dan Hartung, Managing Director & Meteorologist, Aon

5/6/2024, 2:30 PM-3:30 PM

❑ 🍑 CS-9: CAS Admissions Update

Room: 208-209

Join Admissions on a lively discussion that spans the credentialing pathway. During the session, we will touch upon topics such as the purpose of the FCAS credential, current requirements, what skills actuaries will need in the future, different pathways to enter actuarial profession, and how P&C Insurance knowledge is evolving.

Learning Objectives:

1. How the APA will help enhance your work as an actuary.

2. How the CAS certification program is maintaining rigor and prestige while also providing clarity to the exam process.

3. How to be a valued admissions volunteer.

Moderator:	
Speakers:	Margaret Lyons, Director of Certification Development, Casualty Actuarial Society

5/6/2024, 4:00 PM–5:15 PM
Capability Model Tags: C:PC:L3

❏ 🍎 GS-1: Property Insurance/Reinsurance Market Dynamics ▶

Room: Grand Ballroom East

Despite rate increases, 2023 was another challenging year for the property insurance market due to continued inflationary pressures, natural catastrophes and regulatory constraints. The first speaker will go over the demand-supply dynamics of this property insurance market, including reinsurance and surplus lines. He will also provide details on the financial strain caused by record high severe convective storms, especially for regional insurers. The second speaker will explain why rate increases may not always keep up with inflation. He will also provide regulatory updates for personal property in some States. Both speakers will conclude by mentioning how dynamics may evolve in 2024-25.

Learning Objectives:

1. Understand the forces that are driving the property insurance market.

2. Discuss the market dynamics impacting the commercial property space.

3. Discuss market dynamics impacting the personal property space.

Moderator:	Jeremy Shoemaker, Principal, Oliver Wyman Actuarial Consulting, Ltd.
Speakers:	Howard Kunst, Chief Actuary, Science & Analytics, CoreLogic
	Patrick Abbe, U.S. Regional & Mutual Strategic Growth Leader, Aon

5/7/2024, 7:00 AM–7:50 AM
Capability Model Tags: C:PC:L1, T:IA:L2

❏ 🍎 RT-13: Mitigating Policyholder Dislocation 101 Roundtable 🎤

Room: 218 (over the Skywalk)

An exploration of the methods to mitigate policyholder dislocation from rate changes, pros/cons of various methods, and implications on insurance operations.

Learning Objectives:

1. Describe various methods for mitigating policyholder rate dislocation.

2. Adjust ratemaking practices to account for capping.

3.

Moderator:

Speakers:

5/7/2024, 7:00 AM-7:50 AM

❑ RT-19: The Role of the Actuary in Cyber Market Building Roundtable 🎤

Room: 221 (over the Skywalk)

Learning Objectives:

1.

2.

3.

    Moderator:

    Speakers:

5/7/2024, 7:00 AM-7:50 AM
Capability Model Tags: T:AN:L3,T:IC:L1,T:CO:L1

❑ 🍎 RT-4: Beware: The World Economy Is Beginning to Shrink Roundtable 🎤

Room: 217 (over the Skywalk)

Human population growth poses challenges as resources remain limited. While technological advancements have helped, we're now approaching limits that could impact advanced economies. Political leaders often avoid acknowledging this issue, instead promoting wind and solar energy as solutions. In reality, actuaries must grapple with pricing insurance policies in a rapidly changing world. Wealth disparity and supply chain disruptions add to the complexity. Just us for a lively roundtable discussion about the Wednesday General Session topic of Beware: The World Economy Is Beginning to Shrink.

Learning Objectives:

1.

2.

3.

    Moderator:

    Speakers:

5/7/2024, 8:00 AM-9:15 AM
Capability Model Tags: C:PC:L3,C:FI:L3,C:FE:L3,S:BT:L1,S:BA:L2,S:LT:L1,T:AN:L3,T:CO:L2,T:CR:L2

❏ 🍎 GS-2: Legal System Abuse and Social Inflation ▶

Room: Grand Ballroom East

Legal system abuse, known within the insurance industry as social inflation, is contributing to the rising impact of litigation costs and claim payouts. The presentation will start from its definition and underlying drivers, then transition to an actuarial approach to quantify its impacts, and close with an overview of what the industry is doing to reduce the adverse impact of future legal system abuse.

Learning Objectives:

1. Learn the definition and underlying drivers of legal system abuse.

2. Understand one actuarial approach to quantifying the impact of social inflation in commercial auto, personal auto, and medical malpractice.

3. learn industry efforts to reduce future legal system abuse.

Moderator:	Megan Baker, Consulting Actuary, Pinnacle Actuarial Resources, Inc.
Speakers:	Dale Porfilio, Chief Insurance Officer, Insurance Information Institute
	James Lynch, owner, James Lynch Casualty Actuary

5/7/2024, 9:45 AM-10:45 AM
Capability Model Tags: C:PC:L1,C:FE:L1,S:CT:L2,S:BT:L1,S:BA:L1,T:AN:L3,T:IC:L3

❏ 🍎 CS-1: A Behavioral Approach to Loss Reserves

Room: 212-214

This talk takes a deep dive into the results of the reserving process, ignoring discussion of methodology. Using Schedule P data, it is shown that reserves are set conservatively and are very slow to react to the emerging loss data. Basic reasons for this conservatism such as stability and risk aversion are explored but found to be lacking. Drawing from the field of behavioral economics, the corporate environment in which reserving takes place is investigated and used to help fill in the gaps and explain reserving behavior.

Learning Objectives:

1. Understand how the corporate environment affects the setting of reserves.

2. Understand the concept of narrow framing and how excessive conservatism can sometimes be applied inadvertently to reserve segmentations.

3. Grasp how reserves are set in practice and the factors that are incorporated into the various decisions made each quarter.

Moderator:	Uri Korn, Vice President, Head of Pricing, Skyward Insurance
Speakers:	Uri Korn, Vice President, Head of Pricing, Skyward Insurance

5/7/2024, 9:45 AM-10:45 AM
Capability Model Tags: C:PC:L2,S:BA:L2,T:CR:L2

❑ 🍎 CS-12: Climate Transition Planning for Insurers ▶️

Room: Grand Ballroom West

Climate transition plans are essential for insurers to navigate the complex and non-linear shift to a low-carbon economy. These plans are gaining momentum globally as they not only describe climate commitments and targets, but also explain how those objectives fit into an insurer's overall business strategy. An effective transition plan can provide an insurer with a roadmap for driving sustained business outcomes as market dynamics change and society's expectations shift. This session will first describe the key elements of a climate transition plan and where insurers should be developing a strategy, covering both underwriting and investing. We will then discuss the tools and modeling approaches required where actuaries have a key role to play, and finally describe concrete actions insurers can take today to ensure their business is ready to maximize the opportunities presented from the climate transition.

Learning Objectives:

1. Understand why insurers should consider developing a robust climate transition plan.

2. Describe the key elements and analysis required to support an insurer climate transition plan.

3. Understand how actuaries can support insurance company leadership in developing a climate transition plan.

Moderator:	Ronald Kozlowski, Lead Consultant, RTK Actuarial + Professional Services
Speakers:	Adam Kallin, Director, PwC
	Paige Fox, Senior Manager, PwC
	Libby O'Brien, Senior Associate, PwC

5/7/2024, 9:45 AM-10:45 AM

❑ 🍎 CS-16: Current Trends in Medical Professional Liability

Room: 204-205

Discussion of trends impacting the medical professional liability industry, including the medical environment, legal environment, and market analysis. First, we will discuss the relationship of hospital acquisitions and how they contribute to larger jury awards. Then we will examine medical professional liability insurers' recent financial results and the forces driving those results. In the end, we will anticipate what may lie ahead for the medical professional liability industry.

Learning Objectives:

1. Gain an understanding of how medical care has changed in recent years.

2. Determine what forces are driving financial results for the medical professional liability industry.

3. Anticipate what may lie ahead for the medical professional liability industry.

Moderator:	Joshua Youdovin, Senior Actuary, MCIC Vermont
Speakers:	Timothy Mosler, Principal and Consulting Actuary, Pinnacle Actuarial Resources, Inc.

5/7/2024, 9:45 AM-10:45 AM
Capability Model Tags: C:PC:L3,C:FE:L1,S:CT:L2,S:BT:L1,T:CO:L1

❏ 🩸 CS-22: Early Detection of Trends: Evolving Methods ▶️

Room: Grand Ballroom East

This presentation explores the importance of early detection of emerging trends in the insurance industry, focusing on both the pricing and reserving aspects. It discusses the evolving perspective of actuarial professionals on identifying and responding to emerging trends in various lines of business. The presentation highlights the challenges posed by traditional methodologies in keeping up with inflation and adaptation to the changing environment. It explores potential changes that need to be made in pricing and reserving methodologies to ensure they remain responsive and relevant.

Learning Objectives:

1. Recognize the shortcomings of traditional trend monitoring methodologies and explore resources for trend detection.

2. Explore alternative methodologies to identify emerging trends.

3. Understand capabilities needed to monitor trends and detect changes and identify drivers.

Moderator:	Meagan Mirkovich, Actuary I, NCCI Holdings, INC.
Speakers:	Jen Jabben, Actuary / Senior Manager, EY
	Mike McComis, Senior Manager, EY

5/7/2024, 9:45 AM-10:45 AM
Capability Model Tags: C:MM:L2,S:LT:L2,T:AN:L1

❏ 🩸 CS-31: Privacy-Preserving Machine Learning for Insurance

Room: 208-209

In this session, we present a cutting-edge privacy-preserving machine learning technique that fosters collaborations between insurance companies and InsurTech firms. Our presentation consists of two parts. The first part delves into the inner workings of deep learning and establishes it as a powerful tool that could replicate predictions from a diverse array of machine learning techniques. The second part introduces the federated learning based on the architecture of neural networks. Using a case study in insurance industry, we demonstrate how privacy-preserving collaboration can enhance claims prediction.

Learning Objectives:

1. Comprehend the power of deep learning.

2. Navigate federated learning techniques.

3. Apply privacy-preserving collaboration in insurance.

Moderator:	
Speakers:	Peng Shi, Professor, University of Wisconsin-Madison
	Zhiyu Quan, Assistant Professor, University of Illinois Urbana-Champaign

5/7/2024, 9:45 AM-10:45 AM

Capability Model Tags: C:PC:L2,C:MM:L2,S:CT:L2,S:DA:L2,S:BT:L2,S:BA:L1,S:LT:L2,T:AN:L2,T:IC:L1,T:CO:L1

❑ 🍎 CS-33: Quiz: Actuarial Interpretation of Model Output 🎤

Room: 206-207

As actuaries adopt increasingly complex data science techniques, we must always remember that every model corresponds to specific business problems and solutions. Therefore, the best model depends not only on statistical support, but also on business needs and goals. Often, the model with the best test statistics is not the best model for the business and the ability to translate data science results to business outcomes is an essential skill for actuaries. In this presentation, we will share the results of modeling exercises and ask the audience to translate these charts into clear potential business outcomes. We will also share examples of where the output of a model should be overridden due to actuarial considerations and ask the audience for suggestions. Additionally, we will share good and bad questions to ask about a model to answer specific actuarial questions. To encourage audience participation, this session will not be recorded.

Learning Objectives:

1. Draw clear connections between traditional model output and business results.

2. Identify situations where actuarial considerations should override a statistically optimal selection.

3. Evaluate how ideal or expected modeling results may differ between modeling perils or coverages.

    Moderator: Sarah Li

    Speakers: Josh Meyers, Actuarial Data Scientist, Akur8

5/7/2024, 9:45 AM-10:45 AM

Capability Model Tags: C:PC:L1,C:MM:L1,S:CT:L1,S:BT:L1,S:PR:L1,S:BA:L2

❑ 🍎🍎🍎 CS-34: Revolutionizing Leadership Optimizing Humans

Room: 210-211

The idea explores the profound impact of leadership on team dynamics and introduces innovative strategies to optimize team performance. Understanding the psychology of human error and harnessing it effectively is a key aspect of exceptional leadership. By recognizing cognitive biases and addressing potential pitfalls, leaders can create a culture of psychological safety, encouraging team members to learn from mistakes. Fostering a growth mindset is vital for long-term success. Embracing errors and setbacks as opportunities for learning empowers teams to build resilience and adaptability, leading to remarkable results. Real-life examples and practical strategies will be presented during the event to showcase the transformative power of leadership. Attendees will gain valuable insights into implementing innovative leadership approaches, creating a solid vision and the inspiration that comes with it, cultivating psychological safety, nurturing a growth mindset, and hacking human behavior to mitigate human error in any environment. By unlocking the psychology behind human error, leaders can propel their teams towards unstoppable success, leaving a positive and lasting impact on both their lives and the organizations they serve.

Learning Objectives:

1. The Impact of Vision and Purpose • The Power of Leadership.

2. Discover the levels of Psychological Safety • Reshaping our Culture around us.

3. Understanding Human Error and How to Mitigate it • The Power of 1% Growth • Challenge: Be the leader and hero you wanted.

    Moderator: Paul Hylenski, Founder, Quantum Leap AI Academy

    Speakers:

5/7/2024, 11:15 AM-12:15 PM
Capability Model Tags: C:PC:L3,S:DA:L3,T:IC:L1,T:IA:L1

❑ 🍑 CS-10: CAS Race and Insurance Pricing Research: Regulatory Perspectives on Algorithmic Bias and How Actuaries Can Prepare ▶

Room: Grand Ballroom West

Actuaries have a responsibility to scrutinize the processes, systems and models we build to understand if the inputs and outcomes truly reflect fair and equitable practices. Building on the foundation of the CAS's 2022 Research Paper Series on Race and Insurance Pricing, the CAS has launched five new research projects in 2024. This session will preview two of these papers that aim to understand current and future regulations related to algorithmic bias and help actuaries to prepare and respond in this new regulatory landscape. We will begin by sharing highlights of a survey of state insurance regulators aiming to understand activity related to algorithmic bias and what issues are most likely to be addressed in the coming years. Then we will share governance and testing approaches that insurers and actuaries can utilize during model-building, implementation, and maintenance, that can support compliance with bias-related regulatory reporting and testing requirements.

Learning Objectives:

1. Understand the current regulatory environment with regards to potential algorithmic bias in insurance.

2. Explore the potential for future regulatory actions impacting the insurance industry and actuarial models along with considerations for actuaries.

3. Develop a set of robust processes and tools to support compliance with bias-related regulatory reporting and testing requirements.

Moderator:	Mallika Bender, Diversity, Equity & Inclusion Staff Actuary, Casualty Actuarial Society
Speakers:	Scott Merkord
	Rich Moncher, Senior Consultant, Octagram Analytics

5/7/2024, 11:15 AM-12:15 PM
Capability Model Tags: C:PC:L2,C:FE:L1,S:BA:L2,T:IA:L2

❏ 🩸CS-14: Commercial Lines: A Changing Environment

Room: 212-214

It has been over four years since the first reported cases of COVID-19 in the United States were identified. Everyday life changed significantly for a good part of 2020 and 2021.   Even today, the way people work and how businesses operate is different in many ways from pre-COVID 19 periods. This session will focus on those changes and how they have impacted three of the main Commercial Lines of business: General Liability, Commercial Auto, and Commercial Property. We will also discuss line of business specific insurance experience from the last several years and issues to monitor going forward for these lines of business.

Learning Objectives:

1. Define some of the drivers that have caused shifts in Commercial Lines insurance experience since 2019 (i.e., periods impacted by Covid).

2. Describe how insurance experience has changed over the last several years for certain Commercial Lines LOBs.

3. Apply the knowledge they have learned about the changing environment since Covid to their work including attendees who do not directly work on Commercial Lines.

Moderator:	Tim McCarthy, Senior Director, Verisk
Speakers:	Tim McCarthy, Senior Director, Verisk

5/7/2024, 11:15 AM-12:15 PM
Capability Model Tags: C:FE:L1,S:BT:L1

❑ 🍑 CS-2: Actuarial Pricing Cooking Show 🎤

Room: 204-205

The highly-rated, nationally-recognized Travelers' Actuarial Cooking Show is back for a 3rd time! In this episode, our master actuarial chefs cook up pricing cuisine. Join us on a kitchen tour to see our chefs prepare the dish from beginning to end: from sifting through an exposure base to spicing it up with trends, and everything in between! You're guaranteed to come away with an appreciation & understanding of all the inputs & work that go into actuarial pricing with this fun & unique presentation.

Learning Objectives:

1. Demonstrate a basic understanding of key actuarial pricing inputs & the basic ratemaking process.

2. Communicate technical topics such as insurance ratemaking to business partners who are otherwise unfamiliar with it.

3. See how pricing actuaries interact with other functional partners such as regulatory and data experts.

Moderator:	Chad Wilson, AVP & Actuary, Travelers
Speakers:	Khang Nguyen, Actuarial Consultant, Travelers
	Dotty Magnuson, International Actuary, Travelers Insurance Company
	Lucas Burlingame, Sr. Director, Actuarial & Analytics, Travelers
	Manushi Sheth, Manager, Actuarial & Analytics, Travelers
	Marie Hopperstad, Sr. Manager, Actuarial and Analytics, Travelers Insurance
	Shelby Macdonald, Manager, Actuarial & Analytics, Travelers
	Vinaya Adusumilli, Director, Actuarial & Analytics, Travelers

5/7/2024, 11:15 AM-12:15 PM
Capability Model Tags: C:PC:L3

❑ 🍑 CS-30: Navigating Industry Changes 🎤

Room: 208-209

The insurance industry is undergoing substantial changes. Drawing upon data from a new 2023 Industry Trend Survey, we will examine the shifting dynamics, challenges, and opportunities within the insurance sector. By analyzing companies' reactions to these changes, attendees will gain valuable insights and actionable recommendations to adapt their approaches and thrive in this evolving industry landscape.

Learning Objectives:

1. Compare their industry challenges with those of the larger, global industry.

2. Formulate strategies to solve various industry challenges facing their business.

3. Implement solutions to various industry challenges which were gleaned from the survey.

Moderator:	
Speakers:	Aaron Wright, Director, Strategy, Earnix

5/7/2024, 11:15 AM-12:15 PM
Capability Model Tags: C:AS:L1,S:PR:L3,T:PR:L1

❑ 🍎 CS-39: When (and How) Casualty Actuaries Get Into Trouble 🎤

Room: 210-211

This session will explore the processes used by the ABCD in investigating complaints and used by the CAS Discipline Committee when ABCD recommends discipline for a CAS member. It will also address the most common activities that lead to complaints against casualty actuaries and why these activities may be violations of the Code of Professional Conduct.

Learning Objectives:

1. Upon completion of this session, participants will be able to describe the Actuarial Board for Counseling and Discipline process for handling requests for guidance and investigating complaints against a subject actuary

2. Upon completion of this session, participants will be better able to understand the process used by the CAS Discipline Committee when it receives a recommendation for discipline from ABCD.

3. Upon completion of this session, participations will better understand the most common activities that result in allegations of material violations of the Code of Professional Conduct.

Moderator:

Speakers: Pat Teufel, Retired, Retired

Michael Toothman

5/7/2024, 11:15 AM-12:15 PM
Capability Model Tags: C:PC:L3,C:FI:L3,C:RM:L2,T:IC:L3

❏ 👌👌 CS-6: Asset Portfolio Risk and the Global Money System

Room: 206-207

Most capital models include investment portfolio risk, yet our industry relies heavily on the scholarship of the finance and economics industry to provide insight into market/investment portfolio risk distributions. Additionally, market risks such as asset price risk, inflation risk, interest rate risk, and foreign exchange rate risk lack the inclusion of monetary system risk, thus a primary component of all market risks is missing from the risk narrative. This is creating confusion in the broader economic narrative, where basic concepts like inflation and interest rates are misunderstood. This session will discuss the global monetary system and how it works, why it is malfunctioning, how it impacts the quantification of market risk, and how it is causing the banking problems that have been a feature of the global economy since the 2008 global financial crisis, and to provide a more theoretically sound outlook of the broader global economy and a better understanding of market risk and how it impacts insurance carriers.

Learning Objectives:

1. Describe the global monetary system and how it impacts insurance company asset-side risk.

2. Demonstrate an understanding of how monetary system risk affects asset price risk, interest rate risk, inflation risk, and foreign exchange rate risk.

3. Describe how to protect insurance company asset portfolios from adverse economic outcomes related to banking system illiquidity.

Moderator:

Speakers: Robert Anderson, Chief Risk Officer & Chief Actuary, Palms Specialty Insurance Company

Jeff Snider, Researcher/Founder, Eurodollar University

5/7/2024, 11:15 AM-12:15 PM
Capability Model Tags: S:DA:L2,S:BT:L1

❏ 👌 CS-7: Be a Visuary: Data Visualization for Actuaries ▶ 🎙

Room: Grand Ballroom East

Given an image, it's the visual that delivers the impact, not the RGB code (e.g., 0, 180, 0). Actuaries solve problems with numbers, but the message of the solution can be amplified or demystified through good visualizations. This session explores various types of plots and their use cases in several actuarial contexts. We will also attempt to collectively find the kind of plot(s) and their corresponding best practices that best communicate the intended message via interactive polling from the audience.

Learning Objectives:

1. Understand what visualizations work well and what does not work well in different actuarial contexts.

2. Evaluate the appropriateness of a visualization in a given context and propose ways to improve it.

3. Apply the principles and learning from this session to create desired visuals. We will use R ggplot for practical demonstration, but the same principles can be extended to other platforms.

Moderator: Kenneth Smart, Senior Manager, Oliver Wyman Actuarial Consulting

Speakers: Enbo Jiang, Actuary, Lockton Re

5/7/2024, 1:45 PM-3:15 PM
Capability Model Tags: C:PC:L2,C:MM:L1,S:CT:L1,S:DA:L2,S:BT:L1,T:IA:L2

❑   🩸 HIE-1: Bias Testing Implementation — Hands On Interactive Exercise — Part 1

Room: 204-205

<u>Sign Up</u> Bias Testing Implementation Workshop

This workshop will discuss and illustrate examples of bias testing implementation. The workshop will begin with the discussion of various methods for identifying potential bias and methods of preventing or addressing potential bias. This overview will also cover practical considerations and challenges of identifying and mitigating bias.

A portion of the workshop will be dedicated to discussing and demonstrating data imputation methods including Census, Bayesian Improved Surname Geocoding (BISG), and Bayesian Improved First Name Surname Geocoding (BIFSG). From here we will discuss Fairness Metrics along with the Balance Test, Control Variable Test, and Interaction Test.

We will use the rest of the time to discuss Bias Mitigation and Case Studies.

Learning Objectives:

1. Identify potential bias and methods of preventing or addressing potential bias.

2. Understand data imputation methods and be able to evaluate the following methods Census, BISG, or BIFSG.

3. Set-up and calculate Fairness Metrics.

   Moderator:

   Speakers: Michael Chen, Senior Consulting Actuary, Pinnacle Actuarial Resources

                      Gary Wang, Senior Consulting Actuary, Pinnacle Actuarial Resources

5/7/2024, 1:45 PM-3:15 PM

Capability Model Tags: C:PC:L3, C:MM:L2, C:FI:L3, C:FE:L3, C:RM:L3, C:AS:L3, S:CT:L3, S:DA:L3, S:BT:L3, S:PR:L3, S:BA:L3, T:AN:L3, T:IC:L3, T:CO:L3, T:CR:L3, T:IA:L3, T:PR:L3

❑ 🍎 HIE-2: ERM: Scenario Planning for Regime Change: A Hands on Interactive Exercise — Part 1 🎤

Room: 206-207

[Sign Up](#) Join us in a two-part hands-on interactive participation exercise on Scenario Planning for Regime Change. Workshop participants will be working in small groups.

This session is a follow up to two webcasts sponsored by the JRMS in May and June 2023 and to a Session at this meeting on Monday. There have been several major disruptions that will likely end up dragging the world into a major regime change. The best way to prepare for the next New Normal is with Scenario Planning. In this session, participants will be doing a mock scenario planning exercise with two steps within groups. Step 1 would be the construction of a possible "New Normal" Scenario, followed by Step2, the development of a new plan for the transition of a business to successfully navigate that Scenario.

Participants will be working within their groups and will hear how other groups approached the same type of problem, hence, prompting exposure to the significant diversity of approaches that are likely to arise. Session Coordinators will provide a framework and suggestions for components of possible scenario as well as an outline for a plan to respond to the scenario. Come join us for an enlightening topic.

Learning Objectives:

1. Learn what is a regime change

2. Conduct to be what may be an approach to a scenario plan for the regime change

3. Learn about aternative approaches to adapt to a scenario regime change.

Moderator:

Speakers: Robert Wolf, Vice President, Chief Actuary, Stonetrust Insurance Group / Wintaii

David Ingram, ERM Advisor, Actuarial Risk Management

Jim Evans

5/7/2024, 1:45 PM-3:15 PM

Capability Model Tags: C:PC:L3,C:MM:L2,C:FI:L3,C:FE:L3,C:RM:L3,C:AS:L3,S:CT:L3,S:DA:L3,S:BT:L3,S:PR:L3,S:BA:L3, T:AN:L3,T:IC:L3,T:CO:L3,T:CR:L3,T:IA:L3,T:PR:L3

❑ 🍎 HIE-3: Error-Proofing Humans and Processes: A Hands on Interactive Exercise

Room: 208-209

Sign Up "Error-Proofing Humans" by Paul G. Hylenski Jr. emphasizes the critical need for leadership that genuinely cares for its workforce, highlighting research indicating that over 80% of workers feel neglected by their companies. Hylenski, an experienced aerospace business leader and author, outlines strategies to foster a growth culture, mitigate human error, and enhance psychological safety within organizations. The presentation covers the significance of vision, the impact of the environment on behavior, and the practical steps for reshaping any environment to reduce errors, using methods such as color coding and redundant inspection points. Through these insights, Hylenski provides a comprehensive guide to creating safer, more inclusive, and efficient workplaces.

Learning Objectives:

1. Understand the importance of leadership in fostering a culture of care and safety within organizations, emphasizing the correlation between leadership actions and the physical and psychological health of employees.

2. Learn how to create and maintain a growth culture mindset by implementing strategies that normalize mistakes, encourage feedback, and promote the concept of H.O.P.E. (Helping Others Pursue Excellence) within the workplace.

3. Gain knowledge on practical methods to error-proof human environments, including the application of risk perception analysis, the development of psychological safety, and the implementation of error mitigation strategies such as color coding, redundant inspection points, and the establishment of defenses against complacency.

   Moderator:

   Speakers: Paul Hylenski, Founder, Quantum Leap AI Academy

5/7/2024, 1:45 PM-2:35 PM

Capability Model Tags: C:MM:L3,S:CT:L2,S:DA:L3,S:LT:L2,T:AN:L2,T:IC:L3,T:IA:L2

❑ 🍎 RT-1: Actuarial Interpretation of Model Output Roundtable 🎤

Room: 217 (over the Skywalk)

Sign Up At this round table we will sit down and explore themes introduced in the presentation Quiz: Actuarial Interpretation of Model Output. Our discussion will center on how we can view modeling as both a statistical and actuarial practice. How can we keep actuarial implications in mind throughout the entire modeling life cycle? How can we teach modeling in a way that emphasizes both the statistical and actuarial components? When have you seen a statistically sound model fail in an actuarial application and what could have been done differently? We look forward to the conversation as we discuss these and other questions!

Learning Objectives:

1.

2.

3.

   Moderator:

   Speakers:

5/7/2024, 1:45 PM-2:35 PM

Capability Model Tags: C:PC:L3, C:FI:L3, C:RM:L2, T:IC:L3

❏ 👏 RT-3: Asset Portfolio Risk and the Global Money System Roundtable 🎤

Room: 218 (over the Skywalk)

Sign Up Eurodollar University podcast host Jeff Snider teams up again with CRO and Chief Actuary of Palms Insurance Rob Anderson to discuss the chances of another global banking crisis and a recession in 2024, and how it would affect insurers.

Learning Objectives:

1.

2.

3.

    Moderator:

    Speakers:

5/7/2024, 1:45 PM-2:35 PM

❏ RT-5: CAS Admissions Roundtable [Sign Up Required] 🎤

Room: 221 (over the Skywalk)

Sign Up

Learning Objectives:

1.

2.

3.

    Moderator:

    Speakers:

5/7/2024, 1:45 PM-2:35 PM
Capability Model Tags: C:PC:L3,S:CT:L3,S:BA:L2,T:CR:L3

❏ 🍎 RT-9: Electric Insights: Roundtable Discussions on EVs and Insurance Dynamics Roundtable 🎤

Room: 222 (over the Skywalk)

[Sign Up](#) Join us at the Round Table for an electrifying exchange of ideas! Dive into the dynamic world of Electric Vehicles (EVs), exploring trends and perspectives that could shape the future. Let's spark discussions on how these trends impact the insurance industry. Don't miss out on this charged-up conversation!

Learning Objectives:

1.

2.

3.

Moderator:

Speakers:

5/7/2024, 3:05 PM-3:55 PM
Capability Model Tags: T:IC:L1

❏ 🍎 RT-15: New Associates Roundtable 🎤

Room: 221 (over the Skywalk)

[Sign Up](#) Exclusively available to New Associates, this roundtable provides a space for New Associates to offer the CAS advice on positioning itself as the best career path for aspiring actuaries, improving its connection to Associates, and fostering a deeper engagement among new members in the CAS community.

Learning Objectives:

1.

2.

3.

Moderator:

Speakers:

5/7/2024, 3:05 PM-3:55 PM

Capability Model Tags: C:PC:L3,S:BA:L3

❑ 🍎 RT-16: Responding to Emerging Trends in Insurance Pricing and Reserving Roundtable 🎤

Room: 222 (over the Skywalk)

Sign Up Through this roundtable discussion, attendees will have the chance to interact, debate, and learn from each other's experiences, fostering a collaborative environment to meet the challenges posed by emerging trends in the insurance industry. The discussion fosters not only a deep understanding of the problems at hand but also a connection among professionals facing similar industry challenges. Discussion topics will revolve around real-world examples of the impact of emerging trends and inflation on insurance pricing and reserving, enhancing understanding of the challenges faced by businesses. The conversation will also tackle potential changes in methodologies, providing several viewpoints on how these changes could be implemented.

Learning Objectives:

1.

2.

3.

Moderator:

Speakers:

5/7/2024, 3:05 PM-3:55 PM

Capability Model Tags: C:PC:L3,C:FE:L2,C:RM:L1,S:CT:L1,S:BT:L3,S:BA:L1,T:IC:L1,T:CO:L2,T:IA:L1

❑ 🍎 RT-7: Current Trends in Medical Professional Liability Roundtable 🎤

Room: 217 (over the Skywalk)

Sign Up In this session, we would like to discuss recent trends that medical professional liability insurance providers have seen in premiums, exposures, and claims. Topics of discussion will include nuclear verdicts, batch claims, the impact of COVID, recent adjustments to pricing and reserving parameters, and any other topics that participants would like to discuss.

Learning Objectives:

1.

2.

3.

Moderator:

Speakers:

5/7/2024, 3:05 PM-3:55 PM
Capability Model Tags: S:DA:L3

❏ 🍎 RT-8: Data's Role in Pricing: Finding the Sweet Spot Roundtable 🎤

Room: 218 (over the Skywalk)

Sign Up Join us as we discuss the ins and outs of the data we use in our actuarial work. How much data is needed to build quality models? How do we overcome constraints of limited data? How do we get the most out of the data we have? We look forward to discussing these questions and more across many contexts in the insurance industry.

Learning Objectives:

  1.

  2.

  3.

Moderator:

Speakers:

5/7/2024, 3:45 PM-5:15 PM
Capability Model Tags: C:PC:L2,C:MM:L1,S:CT:L1,S:DA:L2,S:BT:L1,T:IA:L2

❏ 🍎 HIE-1: Bias Testing Implementation — Hands On Interactive Exercise — Part 2

Room: 204-205

Sign Up Bias Testing Implementation Workshop

This workshop will discuss and illustrate examples of bias testing implementation. The workshop will begin with the discussion of various methods for identifying potential bias and methods of preventing or addressing potential bias. This overview will also cover practical considerations and challenges of identifying and mitigating bias.

A portion of the workshop will be dedicated to discussing and demonstrating data imputation methods including Census, Bayesian Improved Surname Geocoding (BISG), and Bayesian Improved First Name Surname Geocoding (BIFSG). From here we will discuss Fairness Metrics along with the Balance Test, Control Variable Test, and Interaction Test.

We will use the rest of the time to discuss Bias Mitigation and Case Studies.

Learning Objectives:

  1. Identify potential bias and methods of preventing or addressing potential bias.

  2. Understand data imputation methods and be able to evaluate the following methods Census, BISG, or BIFSG.

  3. Set-up and calculate Fairness Metrics.

Moderator:

Speakers: Michael Chen, Senior Consulting Actuary, Pinnacle Actuarial Resources

Gary Wang, Senior Consulting Actuary, Pinnacle Actuarial Resources

5/7/2024, 3:45 PM-5:15 PM

Capability Model Tags: C:PC:L3, C:FI:L3, C:FE:L3, C:RM:L3, C:AS:L3, S:CT:L3, S:DA:L3, S:BT:L3, S:BA:L3, S:LT:L3, T:AN:L3, T:IC:L3, T:CO:L3, T:CR:L3, T:IA:L3, T:PR:L3

❑ 🍎 HIE-2: ERM: Scenario Planning for Regime Change: A Hands on Interactive Exercise — Part 2 🎤

Room: 206-207

Sign Up Join us in a two-part hands-on interactive participation exercise on Scenario Planning for Regime Change. Workshop participants will be working in small groups.

This session is a follow up to two webcasts sponsored by the JRMS in May and June 2023 and to a Session at this meeting on Monday. There have been several major disruptions that will likely end up dragging the world into a major regime change. The best way to prepare for the next New Normal is with Scenario Planning. In this session, participants will be doing a mock scenario planning exercise with two steps within groups. Step 1 would be the construction of a possible "New Normal" Scenario, followed by Step2, the development of a new plan for the transition of a business to successfully navigate that Scenario.

Participants will be working within their groups and will hear how other groups approached the same type of problem, hence, prompting exposure to the significant diversity of approaches that are likely to arise. Session Coordinators will provide a framework and suggestions for components of possible scenario as well as an outline for a plan to respond to the scenario. Come join us for an enlightening topic.

Learning Objectives:

1. Learn what is a regime change

2. Conduct to be what may be an approach to a scenario plan for the regime change

3. Learn about aternative approaches to adapt to a scenario regime change.

Moderator:

Speakers: Robert Wolf, Vice President, Chief Actuary, Stonetrust Insurance Group / Wintaii

     David Ingram, ERM Advisor, Actuarial Risk Management

     Jim Evans

5/7/2024, 4:25 PM-5:15 PM

Capability Model Tags: S:PR:L1

❑ 🍎 RT-11: LDC Book Club: Croissants vs. Bagels: Strategic, Effective, and Inclusive Networking at Conferences Roundtable 🎤

Room: 218 (over the Skywalk)

Sign Up Do you feel anxious about networking? Do you feel confident about making the most of the opportunities available to you at the conference? This book and associated small group discussion will help you learn how to shift your mindset around relationship-building to discover new connections and business opportunities in the world around you.

This is the book that attendees will need for the discussion.

https://www.amazon.com/Croissants-vs-Bagels-Networking-Conferences-ebook/dp/B0746TDZRY

Learning Objectives:

1.

2.

3.

Moderator:

Speakers:

5/7/2024, 4:25 PM-5:15 PM
Capability Model Tags: C:RM:L2,S:BT:L3,T:IC:L3,T:IA:L2

❑ 👌👌 RT-14: Navigating Climate Risk: Strategies for Property Casualty Actuaries Roundtable 🎤

Room: 221 (over the Skywalk)

Sign Up Property casualty actuaries have a role in managing climate change risks but few actuaries are involved in looking at the risks other than in the short term or working on compliance activities for financial reporting. In this roundtable session, we'll discuss the capabilities and responsibilities of property casualty actuaries in addressing climate-related challenges. We will explore tactics for integrating climate risk considerations into property casualty actuarial practice, including long range planing, underwriting, pricing and reserving.

Finally, participants will address the importance of stakeholder engagement in climate risk management, emphasizing the role of property casualty actuaries in communicating climate-related risks and opportunities to regulators, policymakers, policyholders, and other stakeholders.

We hope that participants will share practical insights and actionable approaches for integrating climate change considerations into our daily work, positioning us as valuable contributors in building climate-resilient organizations.

Learning Objectives:

1.

2.

3.

Moderator:

Speakers:

5/7/2024, 4:25 PM-5:15 PM
Capability Model Tags: S:LT:L3,T:IC:L3,T:CR:L3

❑ RT-18: The Intersection of Actuarial Science and Artificial Intelligence: An Exploration Roundtable 🎤

Room: 222 (over the Skywalk)

Sign Up

Learning Objectives:

1.

2.

3.

Moderator:

Speakers:

5/7/2024, 4:25 PM-5:15 PM

❑ RT-2: An Introduction to Liability Catastrophe Modeling Roundtable 🎤

Room: 217 (over the Skywalk)

Sign Up

Learning Objectives:

1.

2.

3.

Moderator:

Speakers:

5/8/2024, 7:00 AM-7:50 AM

❑ RT-10: How do Regulators Evaluate Catastrophe Risk Roundtable 🎤

Room: 221 (over the Skywalk)

Learning Objectives:

1.

2.

3.

Moderator:

Speakers:

5/8/2024, 7:00 AM-7:50 AM

Capability Model Tags: C:PC:L3, T:CO:L1, T:CR:L1, T:IA:L2

❑ 🍎 RT-17: Roadblocks on the Journey to Addressing Potential Bias in Insurance 🎤

Room: 217 (over the Skywalk)

Regulatory evolution and confusion, lack of protected class data (or any desire to collect it), sources of bias outside of our control, observable differences in risk factors, and plain old skepticism…will these and other roadblocks along the way impede the insurance industry's and actuaries' ability to fully understand and address potential bias and its impacts? Participants are encouraged to bring forward the challenges they have experienced or anticipate, and then discuss how we break down or reframe these challenges to move forward.

Learning Objectives:

1.

2.

3.

Moderator:

Speakers:

5/8/2024, 7:00 AM-7:50 AM

❑ RT-6: Commercial Lines: A Changing Environment Roundtable 🎤

Room: 218 (over the Skywalk)

It has been over four years since the first reported cases of COVID-19 in the United States were identified. Everyday life changed significantly for a good part of 2020 and 2021.   Even today, the way people work and how businesses operate is different in many ways from pre-COVID 19 periods. We covered General Liability, Commercial Auto, and Commercial Property at the concurrent session. Let's talk about other aspects of those lines of business or dig deeper into some of the issues from the concurrent session. We can expand the conversation into other Commercial Lines such as Cyber and Professional.

Learning Objectives:

1.

2.

3.

Moderator:

Speakers:

5/8/2024, 8:00 AM-9:00 AM
Capability Model Tags: C:PC:L1

❑ 🍎 CS-15: Current and Future Public Policy Considerations 🎤

Room: 204-205

The regulatory and legislative environment continues to evolve and respond to changes in actuarial practice and the broader insurance and financial environments. This session will highlight current and future issues that the American Academy of Actuaries Casualty Practice Council is following. Highlighting recent actions at the NAIC, NCOIL, and in individual states, the influence that practicing actuaries are having as policymakers wrestle with the implications of climate change, technology, bias, and more continues to grow. This session will bring you up-to-speed on key issues influencing our work today, as well as what may be coming in the months and years to come.

Learning Objectives:

1. Describe the actions taken and key priorities of state regulators, including discussions from the most recent NAIC National Meeting.

2. Define several priority issues in the 2024 legislative and regulatory landscape.

3. List the resources available to help educate other actuaries and policymakers on these key issues.

Moderator:	Rob Fischer, Casualty Policy Analyst, Public Policy, American Academy of Actuaries
Speakers:	Rob Fischer, Casualty Policy Analyst, Public Policy, American Academy of Actuaries
	Rich Gibson, Senior Casualty Fellow, American Academy of Actuaries
	Will Davis, P&C Actuary, SC Department of Insurance

5/8/2024, 8:00 AM-9:00 AM
Capability Model Tags: C:RM:L2,S:CT:L1,S:BT:L1,S:PR:L1,S:BA:L1,T:IC:L1,T:CR:L1,T:IA:L1

❑ 🍎 CS-17: Cyber Resilience for Companies and Individuals 🎤

Room: 206-207

This session will cover the top cybersecurity controls that are important for preventing bad actors from carrying out malicious attacks directed both at companies and individuals. Examples of how bad actors can exploit weaknesses in cyber security will be provided and how some of the top controls can prevent such attacks from happening.

Learning Objectives:

1. List and define the top cybersecurity controls.

2. Explain how cyber criminals exploit poor cyber security postures.

3. Drive better cyber resilience for their respective companies and in their personal lives.

Moderator:	
Speakers:	Eduard Alpin, Chief Actuary, Resilience

5/8/2024, 8:00 AM-9:00 AM
Capability Model Tags: C:AS:L1,S:PR:L3,T:PR:L3

❏ 🍎 CS-32: Professionalism Bingo 🎤

Room: 212-214

During this session by the Committee on Professionalism Education, participants will use their knowledge of all things professionalism related to play BINGO in real-time ! This session will qualify for Continuing Education in the area of Professionalism, as many questions will relate to Actuarial Standards of Practice, the US Qualification Standards, and/or the Code of Conduct.

Learning Objectives:

1. Improve knowledge of professionalism related to actuarial practice.

2. Improve knowledge of professionalism documents including the Code of Conduct, US Qualification Standards and ASOPs.

3. Identify how the Code of Conduct and ASOPs apply to specific situations

Moderator:	
Speakers:	John Gleba, Managing Director, FTI Consulting, Inc.
	Emma Casehart, Associate Actuary, Allstate Insurance Company

5/8/2024, 8:00 AM-9:00 AM
Capability Model Tags: C:PC:L2,C:FE:L3,S:BA:L3,T:CO:L1,T:CR:L3,T:PR:L2

❏ 🍎🍎 CS-35: The Art of Rating Plans: Strategies & Exotic Ideas ▶

Room: Grand Ballroom East

Constructing effective rating plans is a nuanced process, encompassing considerations ranging from model integration, regulatory filings, to systems programming. This presentation aims to shed light on these vital aspects, while also venturing into less conventional concepts like overlays and separate rating for new business versus renewal business and other exotic ideas. Our discussion aims to offer comprehensive insights into the creation of successful rating plans, illuminating the intricacies of this critical process in the world of insurance and outlining the most desirable properties of a good rating plan.

Learning Objectives:

1. Analyze key considerations like model integration and regulatory filings in rating plan development.

2. Evaluate unconventional concepts such as overlays and separate ratings for new versus renewal business.

3. Synthesize insights into coherent strategies for developing or enhancing rating plans in insurance domains.

Moderator:	Max Martinelli, Actuarial Data Scientist, Akur8
Speakers:	Max Martinelli, Actuarial Data Scientist, Akur8
	Jan Küthe

5/8/2024, 8:00 AM-9:00 AM
Capability Model Tags: C:PC:L3,C:MM:L2,C:FE:L3,C:RM:L3

❑ 🍎 CS-4: An Introduction to Liability Catastrophe Modeling

Room: 210-211

Property Catastrophe modeling has dominated the industry's attention as climate change and severe weather events continue to challenge property insurers. Liability Catastrophes, such as Asbestos, PFAS, and the Opioids Crisis, pose a similar threat to P&C insurers, but have not traditionally received the same level of scrutiny or modeling sophistication from actuaries and insurance professionals. We will introduce the foundational principles of liability catastrophe modeling and discuss how liability catastrophe events can be parameterized and calibrated for use in modeling. We will also discuss how the modeling framework and outputs can provide various risk metrics to support key use cases for actuaries to begin managing catastrophic liability exposure. A foundational knowledge in catastrophe and stochastic modeling is recommended.

Learning Objectives:

1. Define the characteristics of a Liability Catastrophe Event.

2. Describe how to parameterize a Liability Catastrophe Event.

3. Describe a basic Liability Catastrophe Modeling approach.

Moderator:

Speakers: Eric Hang, Actuarial Manager, Verisk Analytics

5/8/2024, 8:00 AM-9:00 AM
Capability Model Tags: C:MM:L1,C:RM:L1,S:DA:L2,S:LT:L2,T:AN:L1

❑ 🍎🍎 CS-8: Breaking Down Bias in Data & AI ▶

Room: Grand Ballroom West

Advancing technology has led to increased volume, variety, and velocity of the data being utilized in actuarial work. Because the actuary may be further from the collection of data than in the past, understanding what the data represents, its suitability, and its potential deficiencies— including bias—can be challenging. More generally, as more and more decisions in our lives are being decided by algorithms — from whether or not we're qualified for a job to what clothes we buy to the medical treatment we receive, the importance of ensuring that these automated decisions are fair and ethical is reaching a greater urgency. In this presentation, panelists will discuss some of the key types of data bias that actuaries may encounter, and algorithmic bias will be dissected into main drivers with examples. The session will conclude with techniques for detecting algorithmic bias and best practices to remediate it

Learning Objectives:

1. Understand key types of data bias that actuaries may encounter and the underlying drivers of algorithmic bias.

2. Explain common metrics and their pros & cons to assess the presence of algorithmic bias.

3. Learn best practices for preventing algorithmic bias.

Moderator:	Reese Mularz, Actuary, Milliman
Speakers:	Andrew Clark, CTO, Monitaur
	Reese Mularz, Actuary, Milliman
	Joshua Pyle, VP, Head of Risk & Captive Management, Boost
	Dorothy Andrews, Senior Behavioral Data Scientist and Actuary, NAIC

5/8/2024, 9:30 AM-10:30 AM
Capability Model Tags: S:DA:L3,S:LT:L2

❑ 🍎 CS-18: Data's Role in Pricing: Finding the Sweet Spot ▶

Room: Grand Ballroom West

Explore the untapped power of your data. This talk goes beyond row counts to reveal the overlooked variables that could transform your actuarial work. Come ready to rethink and fully leverage your data for the future of insurance.

Learning Objectives:

1. Classify various types of data often overlooked in traditional actuarial work, such as text data and competitive intelligence.

2. Apply techniques like unsupervised learning and text mining to unlock the potential of unconventional datasets.

3. Assess ethical and privacy considerations in data utilization, ensuring that innovation is balanced with integrity.

Moderator:	Andrew Krieger, Consulting Actuary, Pinnacle Actuarial Resources, Inc.
Speakers:	Jeffrey Durham, Manager, EY
	Max Martinelli, Actuarial Data Scientist, Akur8

5/8/2024, 9:30 AM-10:30 AM
Capability Model Tags: S:BT:L3

❏　🍑 CS-21: Developing Talent & Building Leadership Skills for Actuaries in a Modern World ▶

Room: Grand Ballroom East

The actuarial profession is renowned for its technical excellence and analytical rigor. However, in an increasingly dynamic and complex business environment, possessing leadership skills is becoming essential for actuaries to thrive in their careers. This presentation aims to explore and discuss essential leadership skills that should be taught to actuaries to enhance their professional growth and contribute significantly to the organizations they serve. It will discuss the changing landscape of the actuarial profession, highlighting the growing demand for actuaries to engage in strategic decision-making, effective communication, and collaborative teamwork. The session will also discuss the skills needed in this new constantly evolving & more remote world, and how to develop actuarial talent the right way for them to be ready to answer both technical & less technical questions more quickly and obtain the required skills to grow as leaders in their area of expertise.

Learning Objectives:

1. Understand how four key leadership skills (emotional intelligence, communication skills, adaptive thinking and teamwork & collaboration) can help actuaries be better leaders within their organizations.

2. Recognize how to respond to certain scenarios in the workplace and with your team/employees, to assist them in live situations in their current roles.

3. Establish efficient processes and refined methods to keep the workforce engaged, motivated to learn, develop and ready to adapt to the ever-changing world, while ensuring they have the correct tools to do so.

Moderator:	Edward Lee, Actuary, EY
Speakers:	Susan Patschak, Senior Manager, EY
	Cedric Chamberland, Actuary / Manager, EY

5/8/2024, 9:30 AM-10:30 AM
Capability Model Tags: C:PC:L3,C:MM:L2,S:CT:L3,S:BA:L2,T:AN:L1,T:CR:L3

☐ 🍎 CS-23: E-mobility Pricing: An Uncharted Territory 🎤

Room: 204-205

The presentation will begin by providing a comprehensive overview of the electric vehicle (EV) market and its current trends, followed by an analysis of the resulting implications for the insurance industry. Following our comprehensive overview, we will shift our focus to customized solutions for pricing electric vehicles, a domain that poses significant difficulties due to the dearth of data, information, and the steady stream of new models that enter the market each year.

Learning Objectives:

1. Understand the Electric Vehicles market and evaluate its implications for the insurance industry.

2. Design and propose innovative insurance solutions for emerging Electric Vehicles model.

3. Implement data-driven strategies for Electric Vehicles insurance pricing.

Moderator:	Jacopo Marchesan, Engagement manager, Munich RE
Speakers:	Jacopo Marchesan, Engagement manager, Munich RE
	Damiano Massimi, Senior Engagement Manager, Munich RE

5/8/2024, 9:30 AM-10:30 AM
Capability Model Tags: S:DA:L1

☐ 🍎 CS-25: How do Regulators Evaluate Catastrophe Risk

Room: 210-211

How do regulators incorporate catastrophe risk into their solvency review and incorporate catastrophe risk into their review of rating and underwriting? What views of risk and perils are considered and where do we stand on incorporating wildfire risk, specifically? How has this perspective changed over the past few years and what are some expected changes or considerations down the road regarding severe convective storms and flood perils? This session will address these questions and more, led by a Chief Actuary of a state insurance department. In addition, there will be an opportunity to learn more about the credentials for catastrophe management professionals offered by the CAS Institute and the International Society of Catastrophe Managers, and how those credentials can help advance your career.

Learning Objectives:

1. TBD.

2. TBD.

3. TBD.

Moderator:	
Speakers:	Howard Kunst, Chief Actuary, Science & Analytics, CoreLogic
	Wanchin Chou

5/8/2024, 9:30 AM-10:30 AM
Capability Model Tags: C:FE:L1,C:RM:L1,S:DA:L1

❑ 👄👄 CS-26: How Good Is Your Damage History? 🎤

Room: 206-207

Prior vehicle damage is known to be correlated with increased future risk, and claims data capture the majority of subject- and vehicle-related incidents. However, for those events where a claim is not filed, other data sources (e.g., vehicle history and police reports) should be consulted for additional indications of existing damage. With that increased visibility to other events comes challenges, though. One of the challenges is identifying which records across sources are incremental and which are duplicate. This requires advanced matching techniques, but it is critical for avoiding double-counting of events. Another is detecting and accounting for change of ownership, which is essential for accurately calculating predictive vehicle history variables as well as attributing the data returned to the current or prior owners. A third is compiling and interpreting data from sources like police reports. The lack of a consistent format makes automated parsing of report data from different agencies quite difficult. Therefore, having a reliable, standardized source for these data is essential. Challenges notwithstanding, the more complete picture of damage history provided by multiple sources offers a clear benefit for accurate risk assessment.

Learning Objectives:

1. Understand ways to find potential lift from new sources of accident and damage data and find additional segmentation.

2. Attribute comprehensive vehicle and accident data (Vehicle History, Police Reports, CLUE Auto) to current and prior owners.

3. Leverage such a solution in your underwriting workflow with an implementation playbook.

Moderator:	Luke Dolezal, Manager, Data Science, LexisNexis Risk Solutions
Speakers:	Luke Dolezal, Manager, Data Science, LexisNexis Risk Solutions

5/8/2024, 9:30 AM-10:30 AM
Capability Model Tags: C:PC:L3,C:MM:L3,C:FE:L3,C:RM:L3,C:AS:L3,S:CT:L3,S:DA:L3,S:LT:L3,T:AN:L3,T:IC:L3,T:CO:L3,T:CR:L3,T:IA:L3,T:PR:L3

❑ 👄 CS-36: The Intersection of Actuarial Science and Artificial Intelligence: An Exploration

Room: 212-214

Authors from the call for essays on artificial intelligence in the actuarial profession explore ways to harness the power of AI to assist with solving business problems in an ethical and privacy-sensitive way.

Learning Objectives:

1. Identify AI software that is useful in actuarial practice.

2. Define business problems or processes that could benefit from AI.

3. Determine how actuaries can work with AI to enhance their work duties while considering limits regarding privacy and job security.

Moderator:	Joshua Pyle, VP, Head of Risk & Captive Management, Boost
Speakers:	Sergey Filimonov, CTO, Three Sigma
	Paul Kutter

5/8/2024, 11:00 AM-12:15 PM
Capability Model Tags: T:IC:L3

❏ 🍑 GS-3: Beware: The World Economy Is Beginning to Shrink ▶

Room: Grand Ballroom East

Human population tends to grow, but resources such as arable land and fresh water tend not to grow. Added complexity, such as developing tools or using farming instead of hunting-gathering, can work around this problem for a while. Using fossil fuel resources to make more advanced tools helps further. But now we are reaching limits that seem likely to squeeze down the output of many of the advanced economies. The major dynamic becomes "not enough to go around." Political leaders cannot admit that such a problem might occur. They instead develop a narrative that wind and solar will save the world. In the real world, actuaries have to figure out how to price insurance policies so that they can pay claims in a rapidly changing world. Just "trending from past patterns" won't work. Clearly, auto repair and replacement costs can soar. Business can have problems like downtown San Francisco. A major problem is too much wage and wealth disparity, and the problems this brings to policies of many kinds.

Learning Objectives:

1. Understand why past trends can be expected to change dramatically.

2. Understand why broken supply lines are likely in the future, making replacements promised in policies difficult or impossible.

3. Understand why growing conflict is likely, in a world where there are no longer enough goods and services to go around.

Moderator:	W. MacGinnitie, Retired, None
Speakers:	Gail Tverberg, Editor, Our Finite World

First Floor
meeting facilities

BAKER STREET

CRYSTAL BALLROOM

D	E	F
C	B	A

EXEC BOARD ROOM

FOYER

FOYER

Accessible Lift

Southern Elements Restaurant

(see separate map)

Marketplace

Escalator to GALLERIA

Pavilion Courtyard North

MAIN ENTRANCE

Lobby Atrium

Parking Garage Elevator

Escalator to 2nd Floor

COURTLAND STREET

elevators

Lobby

Bell Stand

Front Desk

Group Registration

Escalator to GALLERIA

Training

FedEx Business Center

Pavilion Courtyard South

Executive Offices

JOHN PORTMAN BOULEVARD

Second Floor
meeting facilities

GRAND BALLROOM
- WEST BALLROOM
- EAST BALLROOM
- C
- B
- D
- A

SKYBRIDGE TO MARRIOTT MARQUIS

Open to Lobby

elevators

Service

201 Reg

PRE-FUNCTION NORTH

PRE-FUNCTION SOUTH

SKYBRIDGE TO 215–224

SALON
- SALON WEST
- SALON EAST

212
213
214
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PRE-FUNCTION

Windows

exit