The CAS: The Gold Standard for Property/Casualty Actuaries

Student Program Buckeye Actuarial Continuing Education April 16, 2014



#### Congratulations! Already, You're Making Wise Choices



#### Soon, You'll Face More Choices



## This Morning's Agenda

- What is the Casualty Actuarial Society (CAS)?
- What do Casualty Actuaries do?
- How do I become a CAS member?
- Where do I go for more information about the CAS?





#### What is the Casualty Actuarial Society (CAS)?



#### **The Casualty Actuarial Society**

- The only actuarial organization in the world exclusively focused on property/casualty risks.
- Trusted resource for professional development and career advancement
- Unmatched credentials for Property/Casualty Actuaries.





#### 100 Years of Expertise, Insight & Solutions



### **CAS Centennial Goal**

The CAS will be recognized globally as a leading resource in educating casualty actuaries and conducting research in casualty actuarial science. CAS members will advance their expertise in pricing, reserving, and capital modeling, and leverage their skills in risk analysis to become recognized as experts in the evaluation of enterprise risks, particularly for the property and casualty insurance industry.

## Why CAS? What makes us different?

- Tangibles
  - Depth of training
  - Salaries
  - Employment opportunities
- Intangibles
  - A Leader
  - Culture and Community
  - Spirit of volunteerism
  - Core Values



## **Core Values of the CAS**

- Collaboration
- Collegiality
- Community
- Creativity/Intellectual Curiosity
- Excellence
- Integrity
- Professionalism
- Practical Applications





## **CAS Demographics**



## **A Growing Society**

	Nov 2003	Nov 2013	
Fellows	2,503	4,230	
Associates	1,318	1,812	
Affiliates	26	20	
Total	3,847	6,062	



#### **A Global Society**

#### 2013 Geographic Distribution

United States	5,152	Hong Kong	32
Canada	521	Switzerland	32
Bermuda	110	Singapore	20
United Kingdom	53	Germany	13
China	51	Other	78



## **CAS Members by Employment Type**

Total
43%
16%
13%
10%
6%
6%
2%
2%
2%
<1%



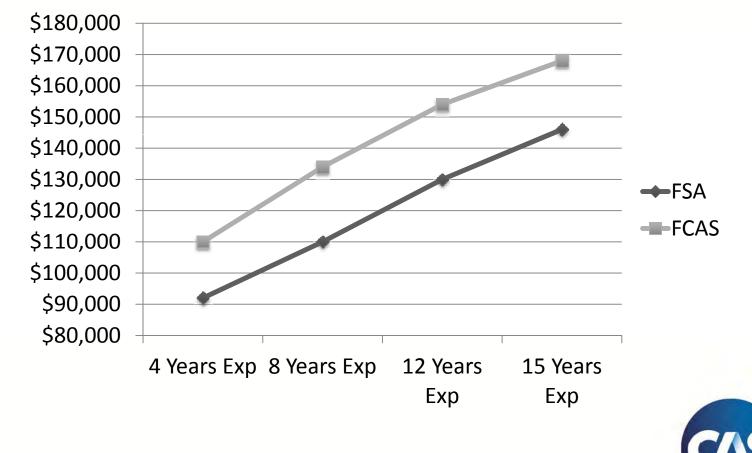
Source: Casualty Actuarial Society, December 2012

## **Employers of CAS Members**

Company or organization	No. employed	% of CAS membership*
Liberty Mutual Group	209	4.0%
The Travelers Companies	193	3.7%
Towers Watson	130	2.5%
Milliman, Inc.	110	2.1 %
AIG	99	1.9%
CNA Insurance Companies	98	1.9%
The Hartford	95	1.8%
Zurich North America	92	1.8%
Allstate Insurance Company	69	1.3%
ISO	67	1.3%
Nationwide Insurance Company	59	1.1%

\* Represents the percentage of members who are currently employed (i.e., not retired).

#### Average Salary for CAS Member Higher than for SOA Member



Used with permission from Ezra Penland Actuarial Recruitment (http://www.ezrapenland.com/salary/)



#### What do Casualty Actuaries do?



#### The Actuarial Skill Set: A Question of Balance

- Technical Competence
  - Ability to apply casualty actuarial techniques
  - Synthesis skills
  - Critical thinking/informed judgment
- Ability to communicate effectively
  - Relevance: A business perspective
  - Articulate judgments, assumptions, limitations
  - Audience may vary Sr. Management vs.
    Peers
- Business sense



#### What Do Casualty Actuaries Do?

- Ratemaking/Pricing
- Loss Reserving
- Capital Adequacy
- Reinsurance Evaluation
- Enterprise Risk Management
- C-Level Officer (CFO, CEO,CRO)
- And more...



## **Ratemaking/Pricing**

- Are current rates meeting our objectives?
- Are some classes performing better/worse than others?
- (Auto) How do driving patterns influence risk of loss?
- How does an insured's loss experience influence its premium?



#### **Loss Reserving**

- What is Company's unpaid claim liability as of 12/31/2013? (Best estimate; Central estimate)
- What is the probability distribution of unpaid claims as of 12/31/2013?



#### **Capital Adequacy**

- How adequate is Company Surplus to respond to adverse results (e.g., loss reserves higher than estimate)?
- How much capital is required to support different types of business?



#### Reinsurance

- (Insurer) What are risk/reward trade offs related to different reinsurance structures?
- (Reinsurer) Pricing and reserving issues, but with much less data.



#### Line of Business Considerations

- Private Passenger Auto
- Commercial General Liability
- Medical Malpractice
- Crop Insurance
- Others ...





# How do I become a CAS member?





#### **CAS Membership Credentials**

Associate (ACAS)



#### **CAS Membership Credentials**

Associate (ACAS)

#### • Fellow (FCAS)



#### **CAS Membership Credentials**

Associate (ACAS)

• Fellow (FCAS)

 Chartered Enterprise Risk Analyst (CERA)



- Validation by Educational Experience (VEE):
  - VEE-Applied Statistical Methods
  - VEE-Corporate Finance
  - VEE-Economics



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- Two CAS Online Courses:
  - Online Course 1—Risk Management and Insurance Operations
  - Online Course 2—Insurance Accounting, Coverage Analysis, Insurance Law, and Insurance Regulation



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- Course on Professionalism
- Exams 1 6



- Exams
  - Exam 1/P—Probability



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  - Exam 1/P—Probability
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  - Exam 3F/MFE—Models for Financial Economics
  - Exam 3L—Models for Life
    Contingencies and Statistics



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  - Exam 2/FM—Financial Mathematics
  - Exam 3F/MFE—Models for Financial Economics
  - Exam 3L—Models for Life Contingencies and Statistics
  - Exam 4/C—Construction and Evaluation of Actuarial Models



## **Current Path to ACAS**

- Exams
  - Exam 5—Basic Techniques for Ratemaking and Estimating Claim Liabilities



## **Current Path to ACAS**

- Exams
  - Exam 5—Basic Techniques for Ratemaking and Estimating Claim Liabilities
  - Exam 6—Regulation and Financial Reporting (Nation Specific)
    - Actuarial Institute of Chinese Taipei
    - Canada
    - United States



# Changes to CAS Syllabus for Path to ACAS

- Exams 1/P, 2/FM, 3F/MFE, and 4/C are <u>currently</u> jointly sponsored by CAS and Society of Actuaries (SOA).
- SOA announced that it will discontinue the agreement to jointly sponsor the exams as of December 31, 2013.
- Details can be found at:

http://www.casact.org/press/index.cfm?fa=v iewArticle&articleID=2104

## **Current Path to FCAS**

ACAS plus:

 Exam 7—Estimation of Policy Liabilities, Insurance Company Valuation, and Enterprise Risk Management



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ACAS plus:

- Exam 7—Estimation of Policy Liabilities, Insurance Company Valuation, and Enterprise Risk Management
- Exam 8—Advanced Ratemaking



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ACAS plus:

- Exam 7—Estimation of Policy Liabilities, Insurance Company Valuation, and Enterprise Risk Management
- Exam 8—Advanced Ratemaking
- Exam 9—Financial Risk and Rate of Return



### Meet all requirements for CAS Associateship



- Meet all requirements for CAS Associateship
- Have credit for CAS Exam 7 and Exam 9



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- Successfully complete Exam ST9, Enterprise Risk Management
   Specialist Technical, of the Institute and Faculty of Actuaries (U.K.)



- Meet all requirements for CAS Associateship
- Have credit for CAS Exam 7 and Exam 9
- Successfully complete Exam ST9, Enterprise Risk Management Specialist Technical, of the Institute and Faculty of Actuaries (U.K.)
- Successfully complete the three-day Enterprise Risk Management and Modeling Seminar for CERA Qualification



#### **Professionalism and Career Development**

- Code of Professional Conduct
- Actuarial Standards of Practice
- At least 30 hours per year of continuing education
- Other professional designations (CPCU, CFA, The Institutes' Associate programs)
- MBA or other academic credentials





# Where do I go to for more information about the CAS?





Introducing...

## STUDENT CS CENTRAL FOCUSED ON YOUR FUTURE

## join online today at www.CASstudentcentral.org



## **CAS Student Central**

- No membership fee
- Automatic annual membership renewal
- Access to resources
- Free webinars
- Invitations to networking events

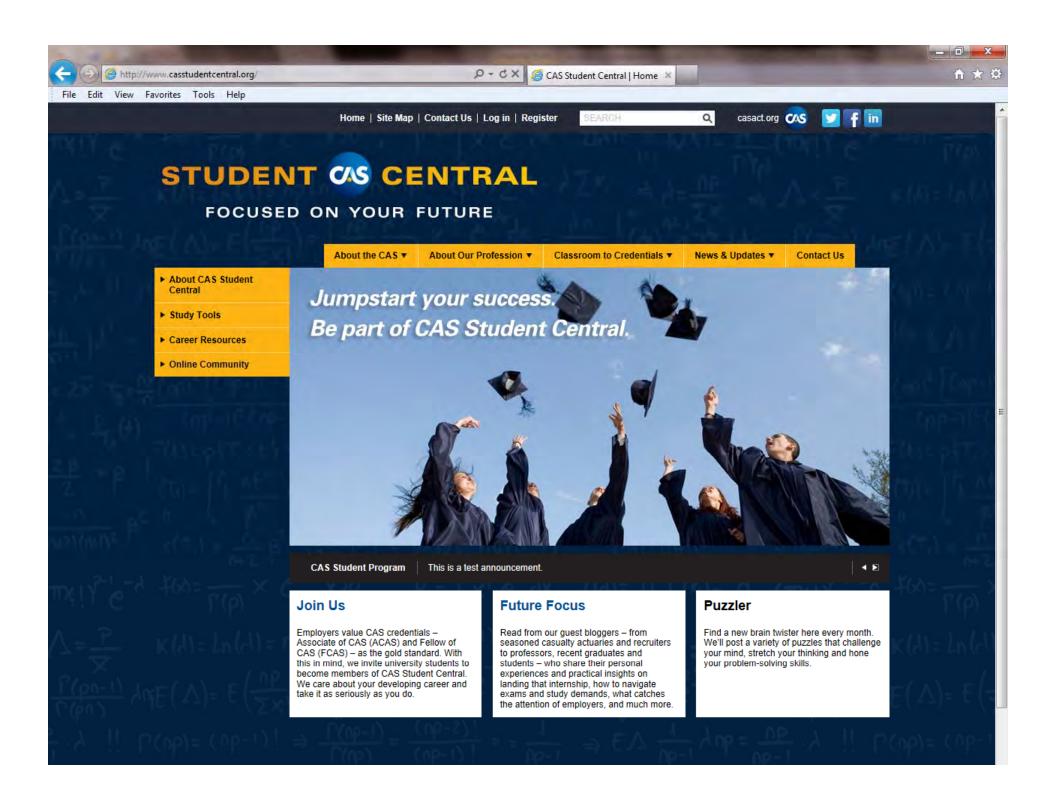


### **Student Central Online Community**

#### Stay connected!

- Future Focus blog shares insights, tips and perspectives from practicing casualty actuaries, university professors, students and others.
- CAS member directory will give you a sense of how far and wide, broad and deep our network is.
- View and connect with other student members
- Receive updates from the CAS







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## **Additonal Resources**

- CAS <u>www.casact.org</u>
- CAS Student Central <u>www.CASstudentcentral.org</u>
- Be An Actuary -<u>www.BeAnActuary.org</u>
- American Academy of Actuaries -<u>www.actuary.org</u>
- Salary Surveys
  - www.ezrapenland.com
  - <u>www.dwsimpson.com</u>





### **Questions?**



Casualty Actuarial Society 4350 North Fairfax Drive, Suite 250 Arlington, Virginia 22203

www.casact.org

