Being an Actuary: Beyond the Mathematics

Warren Luckner, FSA

A concise description of the work of the actuary is: The work of the actuary to identify, quantify, and manage risk and uncertainty to the benefit of society. Identify, quantify, and manage emphasize the importance of technical skills. The phrase "to the benefit of society" adds the importance of professionalism, consistent with Precept 1 of the Code of Professional Conduct.

This presentation highlights the importance of communication skills, ethics and professionalism in being a successful actuary.

Being an Actuary: **Beyond the Mathematics** 2020 Actuarial Research Conference University of Nebraska – Lincoln Virtually!

Three Key Messages OR "What I learned as an FAC facilitator"

"Eat food, not too much, mostly plants"
Communication Skills Essential

Ethics Too

Professionalism Resources Available

Communication Wisdom

"This Treasury paper, by its very length, defends itself against the risk of being read." – Winston Churchill

- Written, oral
- Answer the questions
- Appropriate level of detail
- Peer review

Communication Skills Essential Actuaries – The (not so) Great Communicators Ask actuaries what time it is, they'll ... In tell you how to build a watch" ▶... tell you how to build a smartphone

The Precepts: 4, 5, 6
One ASOP: ASOP 41, Actuarial Communications

<u>Actuarial Communication</u>: A written, electronic, or oral communication issued by an Actuary with respect to Actuarial Services.

PRECEPT 4. An Actuary who issues an Actuarial Communication shall take appropriate steps to ensure that the Actuarial Communication is clear and appropriate to the circumstances and its intended audience and satisfies applicable standards of practice.

Communication Wisdom

"Perfect is the Enemy of Good"

PRECEPT 5. An Actuary who issues an Actuarial Communication shall, as appropriate, identify the Principal(s) for whom the Actuarial Communication is issued and describe the capacity in which the Actuary serves.

PRECEPT 6. An Actuary shall make appropriate and timely disclosure to a present or prospective Principal of the sources of all direct and indirect material **compensation** that the Actuary or the Actuary's firm has received, or may receive, from another party in relation to an assignment for which the Actuary has provided, or will provide, Actuarial Services for that Principal. The disclosure of sources of material compensation that the Actuary's firm has received, or may receive, is limited to those sources known to, or reasonably ascertainable by, the Actuary.

ASOP 41, Actuarial Communications

- Applies to "all assignments in all practice areas"
- Communication between actuary and intended users
 - Scope of assignment
 - Methods, procedures, assumptions, data
 - Communication of results

ASOP 41

Cover Page, Title, and Table of Contents Transmittal Memorandum

ASOP 41: Section 1

1.1 Purpose—This actuarial standard of practice (ASOP) provides guidance to actuaries with respect to actuarial communications.

1.2 Scope—This standard applies to actuaries issuing actuarial communications within any practice area.

ASOP 41: Section 2. Definitions

- ▶ 2.1 Actuarial Communication same as in Code
- 2.6 Deviation The act of departing from the guidance of an ASOP.
- 2.8 Oral Communication An actuarial communication made orally that has not, to the knowledge of the actuary, been recorded or transcribed verbatim.
- Other terms defined include: Actuarial Document; Actuarial Finding; Actuarial Report; Actuarial Services; Intended User; Other User; Principal

Communication Skills Essential ASOP 41: Section 3. Analysis of Issues and Recommended Practices

- ▶ 3.1 Requirements for Actuarial Communications
- ► 3.2 Actuarial Report
- ► 3.3 Specific Circumstances
- ▶ 3.4 Disclosures Within an Actuarial Report
- ▶ 3.5 Explanation of Material Differences
- ► 3.6 Oral Communications
- ▶ 3.7 Responsibility to Other Users
- ▶ 3.8 Retention of Other Materials

ASOP 41: Section 4. Communications and Disclosures

- Responsible actuary; assumptions, methods prescribed by law; responsibility for assumptions, methods ...
- ► 4.4 Deviation from the Guidance of an ASOP
 - "If, in the actuary's professional judgment, the actuary has deviated materially from the guidance set forth in an applicable ASOP ..., the actuary can still comply with that ASOP by providing an appropriate statement in the actuarial communication with respect to the nature, rationale, and effect of such deviation."

A few thoughts about: • Written Reports • Emails **Communication Skills Essential** Include Info for all Audiences

- ► Executive Summary
- ► Introduction

► Data

► Model Selection

► Analysis of Results

- Conclusions/Recommendations
- Appendices and References and/or separate file memorandum

Body

- Reader
- Requester of report
- A little background
- Answer only people
- Those in need of more detail

- What they will read
- Executive Summary
- Introduction
- **Body**
- Conclusions,Recommendations
- Appendices and/or separate file memorandum

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Executive Summary

Important skill

Goal: What decision-maker needs – briefly!

Meeting the goal: What an Executive Summary should include

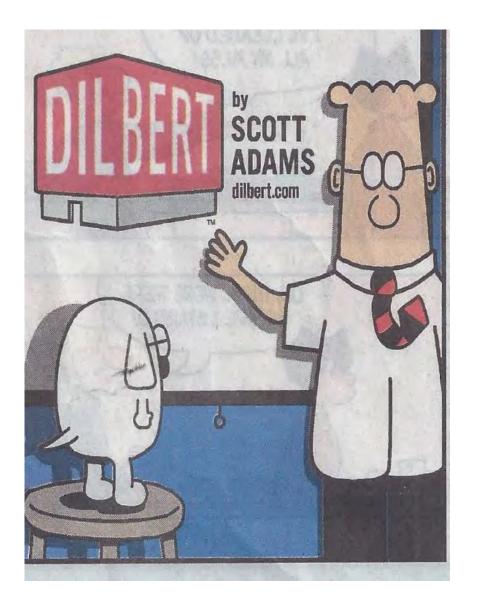
Professional Standards of Written Report

Document all major assumptions

Detailed enough for another actuary (or other professional) to verify results

Acknowledge responsibility

What about Emails??











Communication Wisdom

"Far better an approximate answer to the right question, which is often vague, than an exact answer to the wrong question, which can always be made precise."

Tukey (1962)

Communication Wisdom

"Understand deeply. Communicate simply."

- Darryl Wagner, FSA,

Deloitte Consulting

Ethics Too

"Ethically Speaking", Linden Cole, FSA What is Ethical Behavior?

 Imagery
 <u>Ethical high</u> <u>ground</u> - Top of hill: fresh air, pretty birds



"Ethically Speaking", Linden Cole, FSA What is Ethical Behavior?

 Imagery
 <u>Ethical swamp</u> – foggy air, murky water, lurking alligators!



Ethical Models

- Teleological goal oriented
 - ►Utilitarianism (J.S. Mill)
 - What are the <u>consequences</u>?
 - The end justifies the means!
 - The greatest good for greatest number
 - Pragmatic
- Credit Charly Pazdor, FSA, FCIA

Ethical Models

Deontological – Principles

Duty, obligation,

Rules

► Unyielding

► George Washington

Cannot/will not tell a lie

Credit Charly Pazdor, FSA, FCIA

Ethical Models and Abraham Lincoln

Teleological vs. Deontological

'Does this dress make me look big?''

How should "Honest Abe" respond?

Be completely honest? OR

Be pragmatic?

Ethical Models

Dbservations

Most people have some combination of Pragmatism and Principle

• Key question: Where is the Line? The line that they won't cross



Ethical PrincipleThe Golden Rule?

Addressing Ethical Dilemma

- Personal ethical principles foundational resource
- Law and regulations

Ethics Too Keep in mind ...



"Ethically Speaking" Linden Cole, FSA

"Barely Legal Line"

Professionalism Resources Available

Questions to keep in mind ... Who could be treated unfairly or harmed? What resources are available? **Professionalism Resources** Personal ethical principles ► Law and regulations ► What else? Company Rules Colleagues, Friends

- CAS, CIA, SOA Candidate Codes of Conduct
- CAS, CIA, SOA Candidate Professionalism Courses
- CIA and U.S. Professional Actuarial Organizations Codes, Rules of Conduct
- CIA, International and U.S. Standards of Practice
- Qualification Standards
- Continuing Education
- CIA Discipline Process and U.S. ABCD

Code of Professional Conduct: Member, U.S. The Precepts

PRECEPT 1. An Actuary shall act honestly, with integrity and competence, and in a manner to fulfill the profession's responsibility to the public and to uphold the reputation of the actuarial profession. Professionalism Resources Charitable Actuarial Organizations

The Actuarial Foundation's mission is to enhance math education and financial literacy through the talents and resources of actuaries.

THE ACTUARIAL LA FONDATION FOUNDATION ACTUARIELLE OF CANADA DU CANADA

The Actuarial Foundation of Canada is a registered charity to support youth education, financial literacy, and research initiatives that utilize actuarial skills in the public interest.

Professionalism Resources Code of Professional Conduct: Member, U.S. The Precepts ▶ PRECEPT 2. Only when qualified ▶ PRECEPT 3. Satisfy applicable Standards of Practice. ▶ PRECEPTS 4, 5, 6. Communications and Disclosure: Be clear; Satisfy ASOP 41 on Communication; Identify Principal, Role of Actuary; Disclosure of compensation and sources

PRECEPT 7. Conflict of Interest

- NOT preclude performing actuarial services involving an actual or potential conflict of interest
- HOWEVER to do so requires
 - Ability to act fairly is unimpaired;
 - Disclosure of the conflict to principals whose interests would be affected by the conflict; and
 - All such principals expressly agree to the performance of the actuarial services
 ⁵²

- PRECEPT 8. Control of Work Product
- ► PRECEPT 9. Confidentiality
- PRECEPT 10. "An Actuary shall perform Actuarial Services with courtesy and professional respect and shall cooperate with others in the Principal's interest."

- ► PRECEPT 11. Advertising
- ▶ PRECEPT 12. Use of Titles and Designations
- PRECEPT 13. Knowledge of possible violations of the Code of Professional Conduct

PRECEPT 14. Responding to request for information related to possible violation of Code of Professional Conduct

U.S. Actuarial Standards Board (ASB)

"The ASB establishes and improves standards of actuarial practice. These ASOPs identify what the actuary should consider, document, and disclose when performing an actuarial assignment. The ASB's goal is to set standards for appropriate practice for the U.S."

U.S. ASOP Applicability Guidelines

- Provides guidance as to which standards might apply to tasks that actuaries perform.
- Not standards of practice; not promulgated by ASB
- Not binding on any actuary the actuary has ultimate responsibility to identify the applicable standard(s)

Professionalism Resources AAA Council on Professionalism, April 2015 "Key Ethical Concerns Facing the Actuarial Profession"

More than 3,300 Academy members responded to 2012 survey

▶ 18 potential ethical concerns rated on a scale of 1 to 5

1 = not an ethical problem today (2012)

5 = it is a major ethical problem today

Responses analyzed by: Area of practice; Type of employment Length of Academy membership; Geographic location

AAA Council on Professionalism, April 2015

"Key Ethical Concerns Facing the Actuarial Profession"

Top six concerns

- "Responding to pressure from principals and/or management to select inappropriate assumptions used in pricing or reserving," Precept 1, 41% 4 or 5 ratings
- "False or misleading representation of products or services in marketing, advertising, or sales efforts," Precept 11, 31% 4 or 5
- "Failure to take appropriate action when another actuary misrepresents information,"
 Precept 13, 29% 4 or 5
- "Conflicts of interest between opportunities for personal financial gain (or other personal benefits) and proper performance of one's responsibilities," Precept 7, 29% 4 or 5
- "Misrepresenting or concealing limitations in one's abilities to provide services."
 Precept 2, 28% 4 or 5
- "Misuse of proprietary/confidential information" Precept 9, 27% 4 or 5

AAA Council on Professionalism, April 2015 "Key Ethical Concerns Facing the Actuarial Profession" Lowest rated situation?

"Failure to provide timely responses to inquiries from the principal," **Precept 1, 13% 4 or 5 rating**

A few more words of advice...

Signature test

- Newspaper test
- Be ready to walk

Being An Actuary: Beyond The Mathematics What matters?

"Not everything that can be counted matters." "Not everything that matters can be counted."

Being An Actuary: Beyond The Mathematics

Revisiting the key messages ...

Communication Skills Essential

Ethics Too

Professionalism Resources Available

Being An Actuary: Beyond The Mathematics
YOUR Questions, Comments
MY Questions, Comments

Click on the "Participants" icon at the bottom center of your screen. At the bottom right, click on "Raise Hand" button. Your microphone will be unmuted and you may speak. **Communication Skills Essential**

Let's Talk ...

What are your communication tips? What does your company, or college or university, do to enhance your communication skills?

Click on the "Participants" icon at the bottom center of your screen. At the bottom right, click on "Raise Hand" button. Your microphone will be unmuted and you may speak.

Code of Professional Conduct: Member, U.S. The Precepts

PRECEPT 1. An Actuary shall act honestly, with integrity and competence, and in a manner to fulfill the profession's responsibility to the public and to uphold the reputation of the actuarial profession.



How do members of the actuarial profession act "in a manner to fulfill the profession's responsibility to the public"?

Click on the "Participants" icon at the bottom center of your screen. At the bottom right, click on "Raise Hand" button. Your microphone will be unmuted and you may speak.

A few thoughts ...

- Each profession has a "special public interest"
- The work that actuaries do helps individuals, organizations, and society achieve financial security
- Special public interest: Ensuring the viability and sustainability of financial security programs involving risk

AAA Council on Professionalism, April 2015

"Key Ethical Concerns Facing the Actuarial Profession"

Top six concerns

- "Responding to pressure from principals and/or management to select inappropriate assumptions used in pricing or reserving," Precept 1, 41% 4 or 5 ratings
- "False or misleading representation of products or services in marketing, advertising, or sales efforts," Precept 11, 31% 4 or 5
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Professionalism Resources Think and Share

- Do the results of the Ethical Concerns survey surprise you?
- Would the results be better or worse if a similar survey was conducted today?

Click on the "Participants" icon at the bottom center of your screen. At the bottom right, click on "Raise Hand" button. Your microphone will be unmuted and you may speak.

 Ethical Situation: Two for the Price of One
 A pop (soda?) machine at a hotel malfunctions and you receive two cans for the price of one. Ethics Too Two for the Price of One Think and Share

What would you do? Poll

- Would your action be different if you had received no cans?
- Would your action be different if your bank credited your account with twice the amount you deposited?
- Would the amount make a difference?
- At what point do you reach the line you won't cross, and the issue becomes "material" to you or others?

Click on the "Participants" icon at the bottom center of your screen. At the bottom right, click on "Raise Hand" button. Your microphone will be unmuted² and you may speak.

Ethics Too Two for the Price of One Think and Share

Actual Result: Went to the Hotel Desk

1. It seemed like the right thing to do

2. Make the hotel aware of the malfunctioning machine

Being An Actuary: Beyond The Mathematics

Thank you for your participation in this session

Best to you in your actuarial career!

Unanswered questions? Feel free to email me at

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