Biol/Chem 4900/4912

Forensic Internship

Lecture 2

Legal Standard Laws and regulations a social member must abide by. Legal Requirement

Ethical StandardMoral Standardhigh standard of honesty &
honorable conduct with
methods of reinforcementGenerally accepted customs
of conduct in a given society
Personal ChoiceProfessional RequirementPersonal Choice

Culture - a large group of people with shared beliefs, laws, morals, standards, and characteristics.

Values - a belief that a specific method of conduct is personally or socially preferred.

Morals - specific and generally agreed on standards conduct in society.

Ethics - are standards of conduct that prescribe behavior but do not describe actual behavior. General study of ideals regarding human behavior and guiding principles.

Forensic Scientist

- Because their work product may ultimately be a factor in determining a person's guilt or innocence, forensic scientists may be required to testify with respect to their methods and conclusions at a trial or hearing.
- In this case, they are considered an expert witness (an individual whom the court determines possesses knowledge relevant to the trial that is not expected of the average layperson).



Forensic scientists are subject to pressures from four distinct sources:

- 1. The police who are usually their clients
- 2. The adversary system, which evaluates their data
- 3. The science on which the data is based
- 4. Own personal sense of ethics and morals

Role of the Expert Witness

Two types Consulting Expert (work product protected)

Testimonial Expert (work product discoverable)

Expert witness cannot have an interest in the outcome of the trial or proceedings.

Role of the Expert Witness

Ethics and scientific testimony are intertwined and affect each other.

Experts must be credible, honest, competent, and neutral.

What does the Law say about Evidence?

Frye vs US (1923)

Admissible scientific evidence must be generally accepted in the field to which it belongs, Frye standard.

What does the Law say about Evidence?

Federal Rules of Evidence, an alternative to Frye standard, says that a witness (qualified by knowledge, skill, experience, or training) may testify and provide opinion if:

A testimony is based on sufficient facts

- Testimony is based on reliable methods and principles
- Witness has applied principles and methods reliable to the facts of the case.

Forensic Scientists as Expert Witnesses

Experts can misrepresent the evidence

Daubert v Merrell Dow Pharmaceuticals Problem with evidence shaping

Forensic Scientists as Expert Witnesses

Daubert vs. Merrel Dow Pharmaceuticals, (1993)

- Supreme court ruled that the trial judge ensures that the Federal Rules of Evidence are correctly applied, including:
- Whether the scientific theory and technique has been tested, subject to peer review, and publication, and general acceptance
- Potential rate of error for theory and techniques
- Existence and maintenance of standards for the technique

Forensic Scientists as Expert Witnesses

Kumho Tire Co vs Carmichael (1999)

Supreme Court ruled that the trial judge has the gatekeeping role for expert testimony in addition to scientific testimony.

Problems that can occur in Court:

- 1) Misrepresenting qualifications or credentials
- 2) Pressured testimony (adrenaline factor)
- 3) Omitting unfavorable information
- 4) Lying about the knowledge of the evidence planted
- 5) Falsifying the data or notes
- 6) Biased examination

Forensic Scientists as Expert Witnesses The Adrenaline Factor

Definition: The emotion caused by the heat of a crossexamination and the testimony to defend what is beyond one's ability and capacity.

Explain some causal factors for this phenomenon.

What are your suggestion to prevent or reduce the phenomenon.

Forensic Scientists as Expert Witnesses

Demeanor

confident, steady speech, truthful, courteous educate and communicate - don't argue Communication skills must be clear and on jury level use metaphor, analogy, visual aids Pretrial Preparation practice, practice, practice.....

Forensic Scientists as Expert Witnesses

The Trial: Subpoenas Depositions Voir Dire Direct examination Cross-Examination

Forensic Scientists as Expert Witnesses

General Rules for Expert Witnesses:

- Be nervous
- Always tell the truth
- Listen to the question
- Pause, then answer
- Admit mistakes and problems
- Admit limitations
- Admit inability to remember
- Do not hedge or obfuscate
- Speak to the jury
- Maintain a consistent attitude
- Never argue with counsel
- Answer just the question

Assignment

- Begin Paper Abstract (Topic)
- Start work log (due the end of the semester)
- Assignment 1: Write (handwrite) 1 page on each case: Fyre, Daubert, Kumho and describe the facts of the case, problems in the case, and how the case affects forensic scientist.
- Read:
- Legal Aspects and Legal Standards of Forensic Science, Vol 1. Ch. 1, Saferstein and Vol. 3 Ch. 1, Saferstein
- 2) Ethics in Criminal Justice, Ch. 1&2, Bowen
- 3) Ethics in the Courtroom: The Scientist's Perspective, Ch. 3 Bowen