TECH 646 Analysis of Research in Industry & Technology

A Core Course for

Master of Science. in Technology
Industrial Technology/Manufacturing and IT and Advanced
Computer Applications Tracks

Lecture Note 2-2
Ethics in Business/Industry Research

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Based on the text book and supplemental materials from the text book: Cooper, D.R., & Schindler, P.S., *Business Research Methods* (12th edition), 2014, McGraw-Hill/Irwin

Ethics in Business/Industry Research

Learning Objectives

Understand ...

- What issues are covered in research ethics.
- The goal of "no harm" for all research activities and what constitutes no harm for participant, researcher, and research sponsor.
- Differing ethical dilemmas and responsibilities of researchers, sponsors, and research assistants.
- Role of ethical codes of conduct in professional associations.

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Data Collectors Face Responsibility

"[Privacy pragmatists are] often willing to allow people to have access to, and to use, their personal information where they understand the reasons for its use, where they see tangible benefits for so doing, and when they believe care is taken to prevent the misuse of this information."

Humphrey Taylor

Chairman of The Harris Poll®

Harris Interactive

Malware

- Malware, Consumer Information, Federal Trade Commission,
 - https://www.consumer.ftc.gov/articles/0011-malware
 - Malware includes viruses, spyware, and other unwanted software that get installed on your computer or mobile device without your consent. These programs can cause your device to crash, and can be used to monitor and control your online activity. They can also make your computer vulnerable to viruses and deliver unwanted or inappropriate ads. Criminals use malware to steal personal information, send spam, and commit fraud.
- Protect Your Computer from Malware, Video, 3:48 min, https://www.consumer.ftc.gov/articles/0011-malware

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Statistics Research

- New malware infections of desktop PC worldwide as of 4th Q of 2016 by type, http://www.statista.com/statistics/266164/crimeware-infections-of-desktop-pcs-by-type-of-malware/
- Trojans 74.99%
- PUPs (Potentially Unwanted Programs)
 - 21.45%
- Viruses 1.5%
- Adware/Spyware 0.51%

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Statistics Research

■ Spyware Statistics, 90% of U.S. home computers have been infected with spyware at some point, but a majority of PC owners don't know how to solve the problem, 1/10/2017,

http://lavasoft.com/support/spywareeducationcenter/spyware_s tatistics.php

- By the Numbers 100-150 Million estimated numbers of PCs on the Internet that are under the control of hackers
- 63% Percentage of people that accepts End User License Agreements without reading the text, according to Lavasoft poll.

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Statistics Research

- Spyware Statistics, 1/10/2017, https://www.adaware.com/knowledge-database/spyware-statistics
- 2,286 Number of people who responded to a Lavasoft poll that they have been a victim of a phishing attack. With a total of 4,966 people answering the Lavasoft survey, nearly half of those surveyed have been scammed by a phisher.

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Recent Privacy Violation Cases

- Apple Sued Over App Privacy Violations, by Amy Lee, http://www.huffingtonpost.com/2010/12/28/apple-privacy-lawsuit_n_802058.html
 - iPhone and iPads are equipped with Unique Device Identifier (UDID), 40 digit-long string of letters and numbers which distinguish one device from another, and cannot be removed by users.
 - The suit claims that these UDIDs are used to let advisers track what apps users download, how long the programs are used, and how often – UDD data sharing
 - "Intrusive Tracking Scheme"
 - Breaching user privacy as "adding and abetting" the guilty apps.

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iPhone Privacy Violation Official Site

- Privacy, Apple's Transparency Report, https://www.apple.com/privacy/government-information-requests/
- Violation of Privacy Communities, <u>https://discussions.apple.com/thread/7918120?start=0</u>
 0&tstart=0

Recent Privacy Violation Cases

- Google to pay \$7 million for privacy violation (Street View Cars),
 - http://money.cnn.com/2013/03/12/technology/google-privacy-settlement/
- Rite Aid Agrees to Pay \$1 M to Settle HIPAA Privacy Case, http://www.hhs.gov/hipaa/for-professionals/compliance-enforcement/examples/rite-aid/index.html
 - Disposed of prescriptions and labeled pill bottles containing individuals' identifiable information in industrial trash containers that were accessible to the public.

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Types of Ethical Violations

- Violating Non Disclosure Agreements (NDA)
- Breaking Confidentiality
- Padded Invoices
- Misrepresenting Results
- Deceiving Participants
- Avoiding Legal Liability

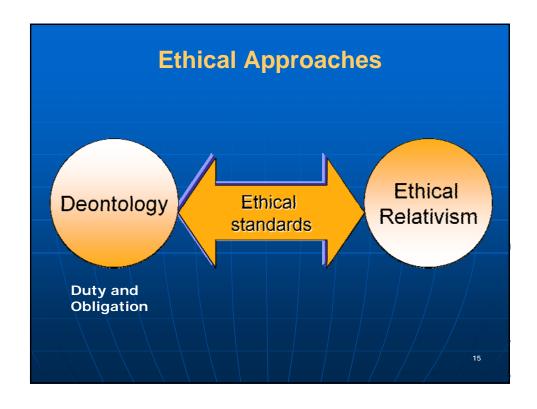
Procter & Gamble vs. Unilever – A case of Corporate Espionage

- P&G and Unilever competitors in the shampoo industry
- April 2001, John Pepper, then P&G Chairman, discovered that contracted BI firm (P&G's Competitive Analysis department) collected approx.
 80 documents (Unilever's plans over the past 3 years) from Unilever's trash dumpster

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Procter & Gamble vs. Unilever – A case of Corporate Espionage

- Out-of-court settlement rumored (and reported) at \$10M and agree to an unusual third party audit
- P&G Said to Agree to Pay Unilever \$10 Million in Spying Case, http://www.nytimes.com/2001/09/07/business/p-g-said-to-agree-to-pay-unilever-10-million-in-spying-case.html
- P&G Vs Unilever: A Case of Corporate Espionage, http://www.icmrindia.org/casestudies/catalogue/Business%20Ethics/B ECG036.htm



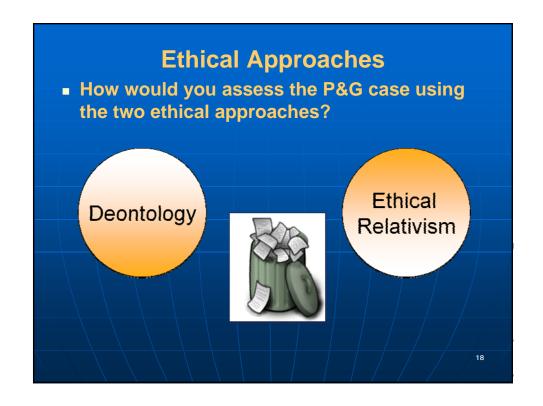
Purdue office of Research & Partnerships

https://purdue.edu/purdue/research/

Research Compliance: [Accesses 2017/8/31] http://www.purdue.edu/research/research-compliance/

- Ensure the research integrity
- Protect human and animal research subjects
- Ensure the safe use of infectious and other biohazardous agents
- Disclose and manage conflicts of interest and outside activities
- Identify and observe export control regulations and statues
- Manage sponsored projects
- Interpret Purdue's Policy on Intellectual Property
- Educate students and postdoctoral scholars in the responsible conduct of research
- Be informed about new or changing regulations and statues affecting research

Purdue Research Integrity Office https://www.purdue.edu/provost/researchIntegrity/ • Procedure • Fed. Requirements/Confidentiality • Promoting Research Ethics • Avoiding Plagiarism



Indiana University

■ The Poynter Center for the Study of Ethics and American Institutions,

http://ip.indiana.edu/sponsor/poynter-center-for-the-study-of-ethics-and-american-institutions/

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Ethical Codes of Conducts

- ARENA Applied Research Ethics National Association
- CASRO Council for American Survey
 Research Organizations, http://www.casro.org/
- AMA American Marketing Association
- MRA Marketing Research Association
- Public Responsibility in Medicine & Research (PRIM&R), www.primr.org
- Electronic Privacy Information Center, www.epic.org

Ethical Codes of Conducts

- IEEE Code of Ethics, https://www.ieee.org/about/ethics.html
- ACM Code of Ethics and Professional Conducts, https://www.acm.org/aboutacm/acm-code-of-ethics-and-professionalconduct
- NSPE (National Society of Professional **Engineers), Code of Ethics,** https://www.nspe.org/resources/ethics/codeethics

Sponsor's right to quality research

Sponsor's right of purpose nondisclosure
Researcher's right to absen of sponsor coercion
Researcher's right to abser of sponsor deception Sponsor's right to quality

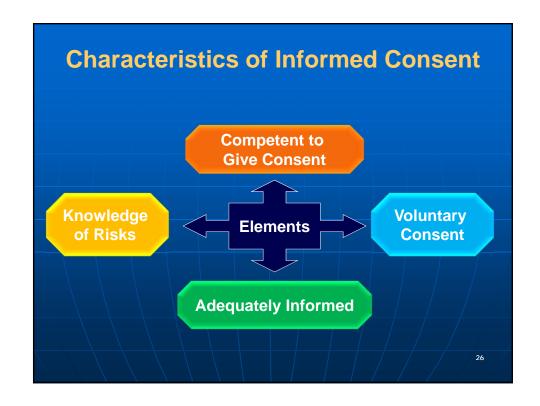
Ethical Issues and Research Process -Exhibit 2-1 Participant's right to prival (refusal)
 Sponsor's right to quality research
 Researcher's right to abse Sponsor's right to quality research Participant's right to privacy
 Participant deception
 Sponsor's right to sponsor nondisclosure
 Researcher's right to safety Data Collection & Preparati Data Analysis & Interpretation Sponsor's right to findings nondisclosure Sponsor's right to findings nondisclosure
 Participant's right to confidentiality
 Sponsor's right to quality research
 Researcher's right to abse of sponsor coercion



Components of Informed Consent ■ Give "good-faith", Researcher estimate of required Introduction time commitment Describe survey topic Voluntary participation Describe purpose of Item nonresponse research acceptable Describe target sample Permission to begin Reveal sponsor Promise anonymity and confidentiality

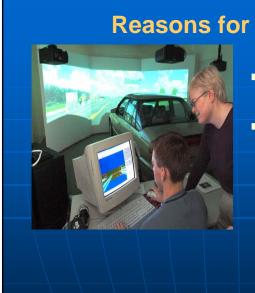
Federal Funding Projects – Institutional Review Board (IRB) Requirement

- Since 1966, all projects with federal funding are required to be reviewed by an Institutional Review Board (IRB) – evaluation of the risks and benefits of proposed research.
- The IRBs concentrate on two areas
 - First is the guarantee of obtaining complete, informed consent from participants.
 - The second is the risk assessment and benefit analysis review.
- Purdue University Human Research Protection Program, https://www.irb.purdue.edu/









Reasons for Deception

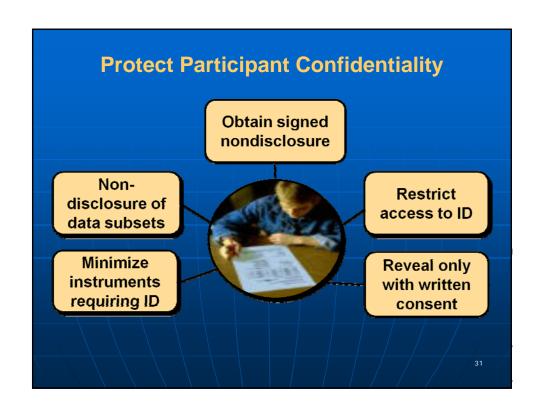
- Prevent biasing participants
- Protect confidentiality of the sponsor

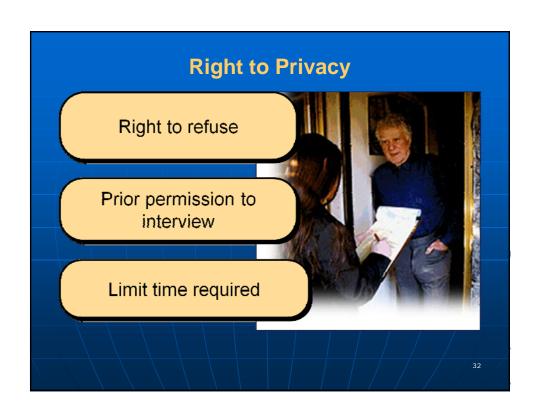


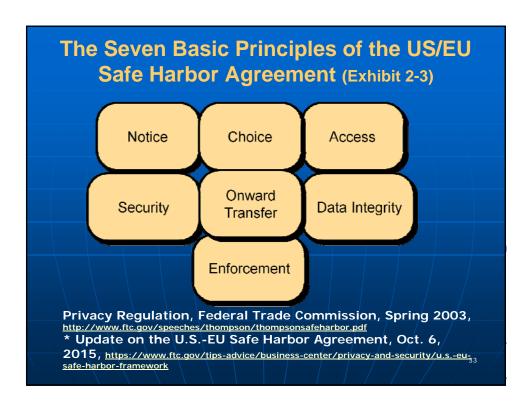
Debriefing

- Explain any deception
- Describe purpose of study (hypothesis, goals, etc)
- Share results
- Provide follow up results

In situations where participants are intentionally or accidentally deceived, they should be debriefed once the research is complete.





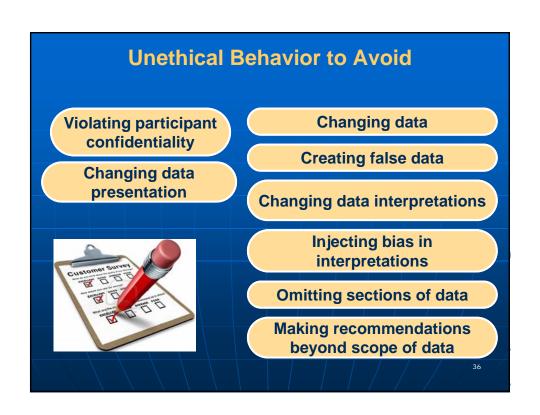


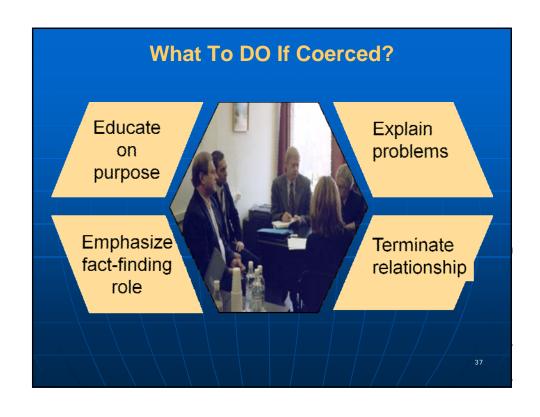
The US/EU Safe Harbor Framework

Update on the U.S.-EU Safe Harbor Framework, Oct. 6, 2015, https://www.ftc.gov/tips-advice/business-center/privacy-and-security/u.s.-eu-safe-harbor-framework

On October 6, 2015, the European Court of Justice issued a judgment declaring invalid the European Commission's July 26, 2000 decision on the legal adequacy of the U.S.-EU Safe Harbor Framework. On July 12, 2016, the European Commission issued an adequacy decision on the EU-U.S. Privacy Shield Framework. This new Framework, which replaces the Safe Harbor program, provides a legal mechanism for companies to transfer personal data from the EU to the United States. The FTC will enforce the Privacy Shield Framework. We continue to expect companies to comply with their ongoing obligations with respect to data previously transferred under the Safe Harbor Framework. More information on the new framework is on the FTC's Privacy Shield Framework page, updated July 26, 2016, https://www.ftc.gov/tips-advice/business-center/privacy-and-security/privacy-shield









Code of ethics Confidentiality Debriefing Deception Ethics Right to privacy Right to quality Right to safety







