

PROFESSIONAL ENGINEERING ETHICS

- **PROFESSIONAL AREAS DISCUSSED :**
- **TEAMPLAY & LEADERSHIP**
- **PRODUCT MANAGEMENT**
- **ORGANIZATION STRUCTURES**
- **COMMUNICATION**

PROFESSIONAL ENGINEERING ETHICS

- ALL INVOLVE BEING AN EFFICIENT ENGINEER
- WORKING EFFECTIVELY IN GROUPS
- WORKING IN COMPANY ORGANIZATIONS
- ACCOMPLISHING TASKS WITHIN THE PERFORMANCE, TIME & COST WINDOW²

PROFESSIONAL ENGINEERING ETHICS

- **HIGHER AND NOBLER PRINCIPLE OF
ENGINEERING PRACTICE**

**TO PRACTICE YOUR TECHNOLOGY AND
ENGINEERING ORGANIZATIONAL
STYLE WITHIN A PERSONAL &
CORPORATE STRUCTURE OF ETHICAL
PRINCIPLES**

INTRODUCTION TO ENGINEERING ETHICS

IMPORTANCE

Publicized Trials of Corruption

Stories of Conflict of Interest

Tragedies of Loss of Life

Stories of Whistle Blowing

**RESULTING IN HUGE CORPORATION
EXPENSE**

INTRODUCTION TO ENGINEERING ETHICS

CORPORATION POLICY

- **SIGN UP FOR ETHICAL PRACTICE**
- **ADDRESS INVENTION POLICY &
ETHICAL BEHAVIOR i.e.
GIFTS FROM SUPPLIERS
TRADE SECRETS
ACCESS TO OMBUDSMAN**

INTRODUCTION TO ENGINEERING ETHICS

MEDIA ARTICLES

“BUSINESS GETS SERIOUS ABOUT ETHICS”

“BUSINESS ADOPTS TOUGHER STANDARDS FOR EMPLOYEES”

“CLEVELAND CLINIC DOCTOR CUTS TIES WITH HEDGE FUND TO AVOID APPEARANCE OF CONFLICT OF INTEREST”

INTRODUCTION TO ENGINEERING ETHICS

CONFLICT WITHIN POLICY

**CLEVELAND CLINIC ANNOUNCES THAT
CONFLICTS ARE A “PART OF
EVERYDAY BUSINESS AND OVER
REGULATION AT THE EXPENSE OF
INNOVATION IS NOT A GOOD THING IN
THE LONG RUN”**

INTRODUCTION TO ENGINEERING ETHICS

PRACTICAL ISSUE OF ETHICS

- **HOW CONDUCT YOURSELF DAY TO DAY**
- **CONSTANT CHOICES TO BE MADE**
- **SOME CAN BE DIFFICULT IF YOU TAKE
TIME TO THINK**
- **MUST TAKE STOCK IN YOUR OWN
VALUES**

INTRODUCTION TO ENGINEERING ETHICS

**PROBABLY WON'T RUN INTO LARGE
CASES LIKE THE CHALLENGER, HYATT
REGENCY, FORD PINTO**

**WILL SEE ONES LIKE ACTING HONESTLY
WITH ONES COLLEAGUES OR
SUPERVISOR**

EVERYONE HAS THEIR OWN VALUE SET

PROFESSIONAL ENGINEERING ETHICS

- **EVERY ENGINEERING DISCIPLINE HAS
A CODE OF ETHICS**
- **IEEE HAS A 10 POINT CODE WITH
WHICH YOU SHOULD BECOME
FAMILIAR**

SEVERAL OF THE IEEE CODE OF ETHICS

“TO ACCEPT RESPONSIBILITY IN MAKING ENGINEERING DECISIONS CONSISTENT WITH THE SAFETY, HEALTH AND WELFARE OF THE PUBLIC, AND TO DISCLOSE PROMPTLY FACTORS THAT MIGHT ENDANGER THE PUBLIC OR THE ENVIRONMENT...”

SEVERAL OF THE IEEE CODE OF ETHICS

“TO BE HONEST AND REALISTIC IN STATING CLAIMS OR ESTIMATES BASED ON AVAILABLE DATA...”

SEVERAL OF THE IEEE CODE OF ETHICS

“TO SEEK, ACCEPT, AND OFFER HONEST CRITICISM OF TECHNICAL WORK, TO ACKNOWLEDGE AND CORRECT ERRORS, AND TO CREDIT PROPERLY THE CONTRIBUTIONS OF OTHERS...”

SEVERAL OF THE IEEE CODE OF ETHICS

- **THESE CODES ARE STATEMENTS;**
- **TO DO NO HARM**
- **TO BE HONEST**
- **TO ACCEPT RESPONSIBILITY**
- **TO NOT ABUSE WORK OF OTHERS**

IMPORTANCE OF ETHICAL BEHAVIOR

**WE HAVE DISCUSSED THE
METHODOLOGY OF PERSONAL
PERFORMANCE TO BECOME
SUCCESSFUL ENGINEERS**

IMPORTANCE OF ETHICAL BEHAVIOR

BUT UNLESS WE AIM HIGH WITH LOFTY
IDEALS AND STRIVE FOR WHAT IS BEST

IT IS UNLIKELY THAT OUR LIFE WILL
AMOUNT TO VERY MUCH OR THAT WE
WILL REALLY MAKE A DIFFERENCE IN
THE LIVES OF OTHERS

IMPORTANCE OF ETHICAL BEHAVIOR

**SUCCESSFUL LEADERSHIP AND
STRONG PERSONAL MOTIVATION
DICTATE SHOOTING FOR THE
HIGHEST STANDARDS**

IMPORTANCE OF ETHICAL BEHAVIOR

**HIGH IDEALS ARE ESPECIALLY
REQUIRED DURING TIMES OF FAILURE
AND MISTAKES, IN ORDER TO MAKE
THE RIGHT DECISIONS TECHNICALLY
AND ETHICALLY**

IMPORTANCE OF ETHICAL PERFORMANCE

**OF ALL THE AREAS DISCUSSED,
CONDUCT WITH ETHICAL
PRINCIPLES MAY BE THE MOST
IMPORTANT BECAUSE IT INVOLVES
YOUR REPUTATION AND PERSONAL
INTEGRITY - ITEMS THAT YOU
SHOULD CHARISH THE MOST**

ETHICAL BEHAVIOR

- **LIFE IS FULL OF CHOICES**
- **ETHICAL THOUGHT SHOULD DRIVE THOSE CHOICES**
- **TOO OFTEN CHOICES ARE MADE BY:**
 - **WHAT YOU CAN GET AWAY WITH**
 - **DOING THE LEAST AMOUNT OF WORK**
 - **ALLOWING THE END TO JUSTIFY THE MEANS**

ETHICAL BEHAVIOR GUIDELINES

1. BE HONEST

- a) RELATE INFORMATION ACCURATELY
& TIMELY**
- b) NEVER LEAVE OUT INFORMATION
THAT COULD END UP MISLEADING**

ETHICAL BEHAVIOR GUIDELINES

- c) COMMUNICATE AS YOU WOULD
EXPECT OTHERS TO DO FOR YOU**
- d) BECOME KNOWN AS A GOOD SOURCE**

ETHICAL BEHAVIOR GUIDELINES

2. DO NO HARM

- a) A CONSTRUCTIVE WORKPLACE IS A PLEASURE TO BE PART OF**
- b) AVOID NEGATIVE RUMOR-LADEN CONVERSATIONS THAT HURT PEOPLE**
- c) AVOID SPREADING UNSUPPORTED INFORMATION**

ETHICAL BEHAVIOR GUIDELINES

3. KEEP YOUR COMMITMENTS

- a) DO WHAT YOU SAID YOU WOULD DO**
- b) BECOME DEPENDABLE**
- c) KEEP YOUR WORD**

ETHICAL BEHAVIOR GUIDELINES

**4) BE A TEAM PERFORMER BUT STILL
INDEPENDENT OF THOUGHT**

a) TEAMWORK IS ESSENTIAL

**b) BUT GROUP EFFORTS DO NOT
RELIEVE RESPONSIBILITY**

ETHICAL BEHAVIOR GUIDELINES

- c) MUST NOT GO WITH GROUP THINK THAT IS UNETHICAL
- d) EFFECTIVE TEAMWORK IS ONLY AS VALID AS THE STRENGTH OF INDIVIDUALS