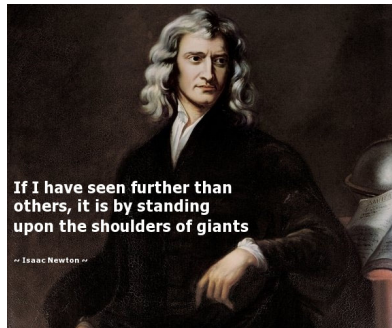
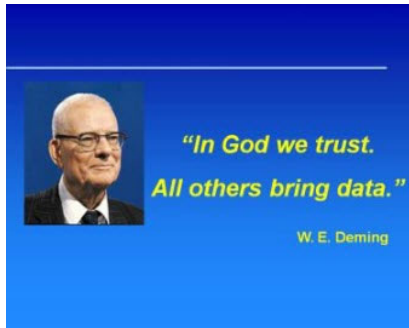


# THOUGHT LEADERS OF A SUBJECT

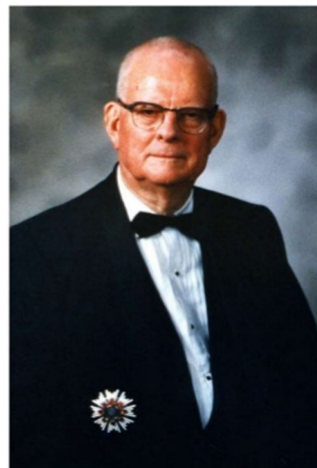
## Physics/Mechanics



## Quality Management



## W E Deming



### WILLIAM EDWARDS DEMING

**Born** October 14, 1900  
Sioux City, Iowa

**Died** December 20, 1993  
Washington, D.C.

**Fields** Stastician

*"It is not enough to do your best;  
you must know what to do,  
and then do your best."*



## W. Edwards Deming



Dr. Deming was one individual who stood for quality & for what it means. He was the leading speaker for quality revolution in the world.



Management Consultant



Statistician



Engineer



Professor



Author

### His Personal Life



Born on Oct 14, 1900



Studied BS, MS & PhD



Married Agnes Bell in 1922



Married Lola Shupe in 1932



Died on Dec 20, 1993



Deming was well-known for his 14 Point Principles for Top Management & 7 Deadly Sins that Management must cure...

### Professional Contributions

- 1940 Developed Sampling Technique
- 1942 Compiled American War Standards
- 1950 Delivered best known Mgmt Lecture at Mt. Hakone Conf Center
- 1980 Featured in documentary titled "If Japan Can... Why can't we?"
- 1982 Founded Institute for Improvement of Productivity & Quality
- 1986 Published book "Out of Crisis"
- 1993 Published book "The New Economics for Industry, Government, Education"

<sup>1</sup>JUSE - Japanese Union of Scientists & Engineers

### Honors & Awards



JUSE<sup>1</sup> Board of Directors established the DEMING prize (in his honor) in 1950



Awarded Order of the Sacred Treasure, Second Class by the Prime Minister of Japan in 1960



Awarded the National Medal of Technology in 1987



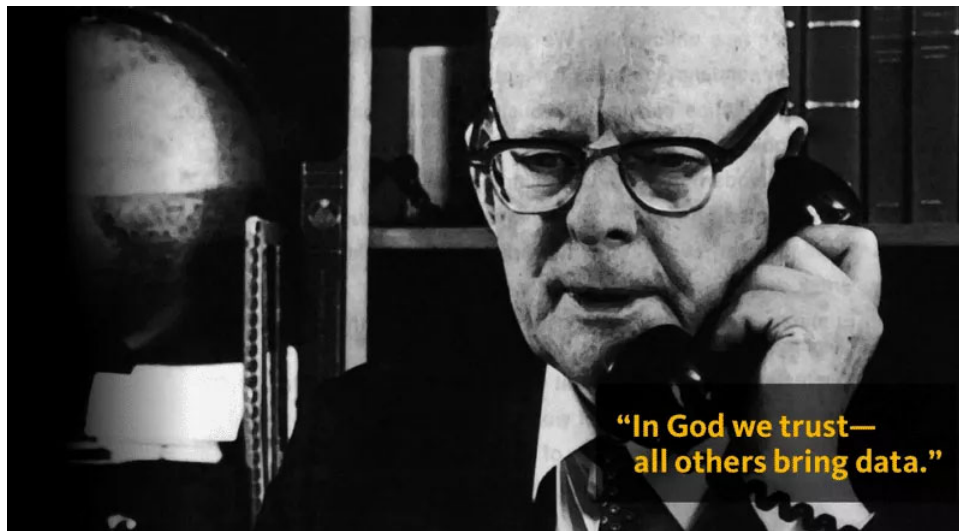
Distinguished Career in Science Award from National Academy of Sciences in 1988

Let us now discuss Deming's 14 Point Principles

2

© Advanced Innovation Group Pro Excellence

## W E Deming



## Systems

- Most organizational processes are cross-functional
- Parts of a system must work together
- Every system must have a purpose
- Management must optimize the system as a whole

5

## Variation

- Many sources of uncontrollable variation exist in any process
- Excessive variation results in product failures, unhappy customers, and unnecessary costs
- Statistical methods can be used to identify and quantify variation to help understand it and lead to improvements

6

# Why do we want to study Probability and Statistics?

## Categories of Probabilities

- **Classical** (counting of outcomes)
- **Relative frequency** (limiting value; “intrinsic property”;  
bridging statistics and probability)
- **Subjective** (degree of belief)

