

# A Cavalcade of Distinguished NIST SED Stat Alumni

Ronald Boisvert

Chief, Applied and Computational Mathematics Division

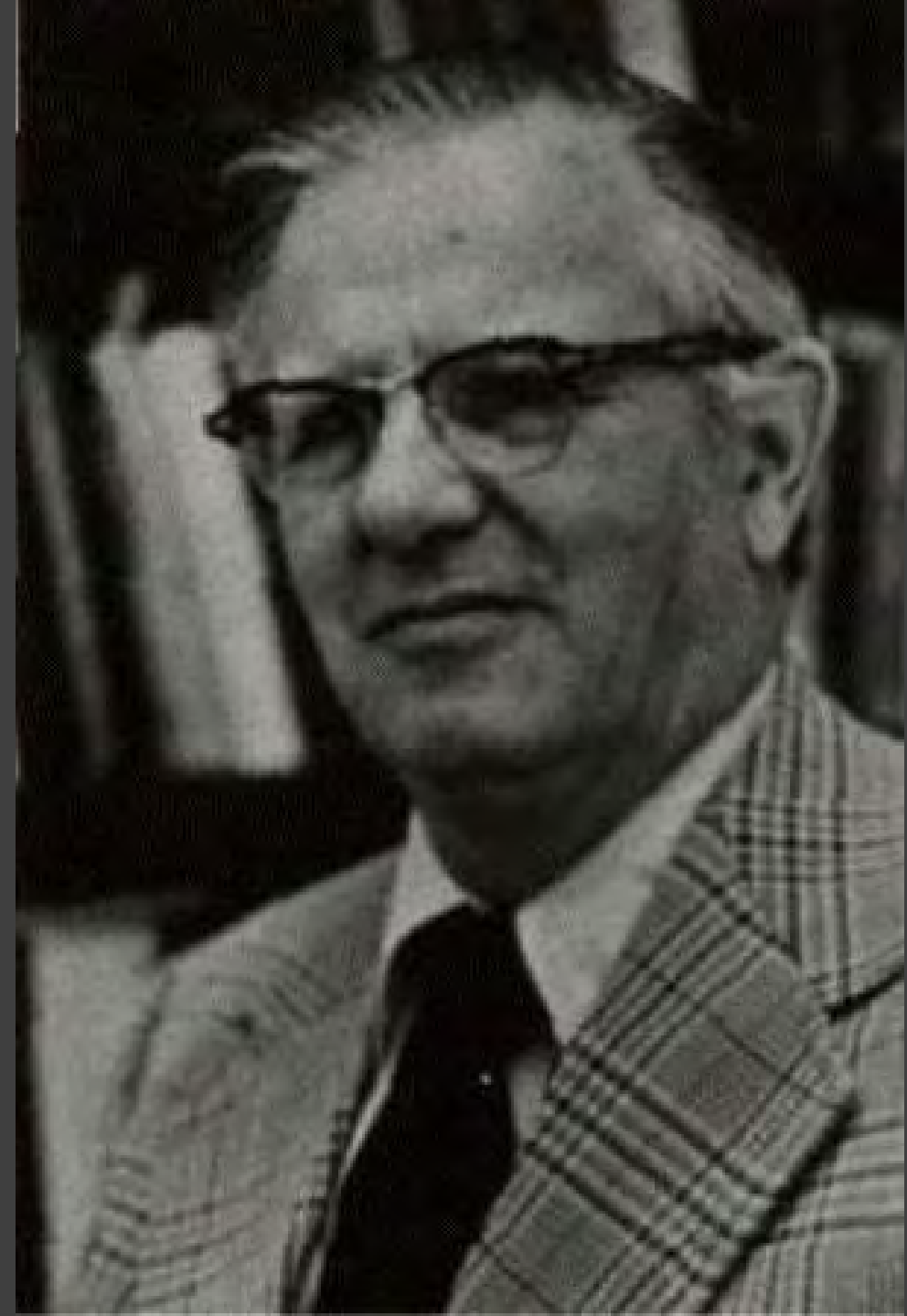
National Institute of Standards and Technology

*75<sup>th</sup> Anniversary of Mathematics and Statistics at NIST  
June 2022*



# 1. Churchill Eisenhart (1988)

- PhD, University College London, 1937
- NBS: 1946-1983
- Founder of the NBS Statistical Engineering Laboratory (now SED)
- Introduced modern statistical methods to NBS, particularly for experimental design
- American Statistical Association President
- ASA Wilks Memorial Medal, 1977



## 2. William J. Youden (1988)

- Ph.D. (Chemistry) Columbia University, 1924
- NBS/NIST: 1948-65
- Important contributions to statistical design and analysis of experiments
- Propagated need for correct statistical analysis techniques
  - Book *Experimentation and Measurement*, 1962
- Prizes established in his name by ASQC and ASA



### 3. Mary Natrella (1998)

- Mathematics, University of Pennsylvania, 1942
- NBS/NIST: 1950-87
- Expert in application of statistics to physical science experimentation and engineering testing.
- Principal author "Experimental Statistics" (NBS Handbook 91)
  - One of the most highly cited NBS publications
  - Became a standard text on applying statistical techniques in the physical sciences and engineering



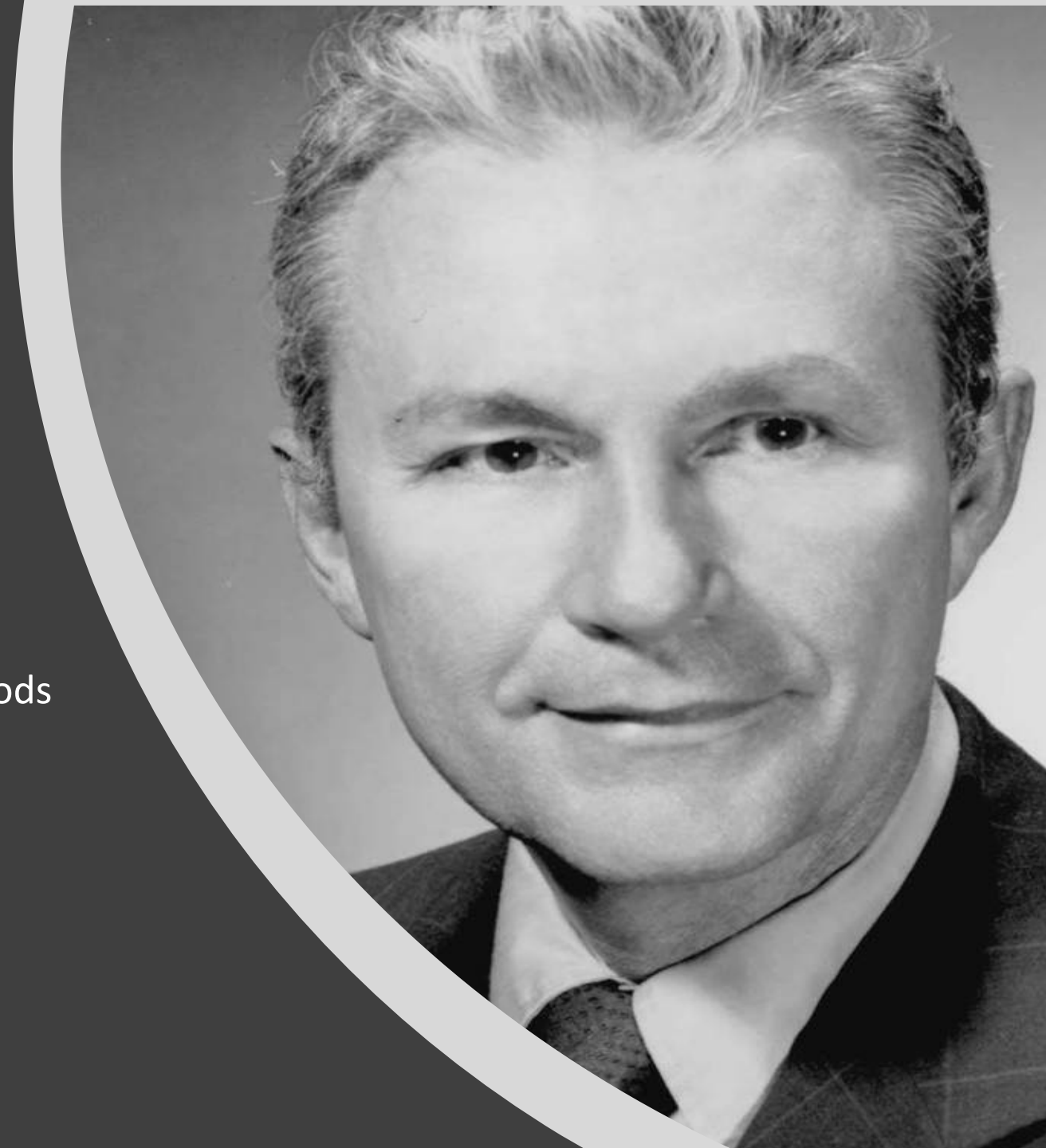
## 4. Joan R. Rosenblatt (2002)

- Ph.D. (Statistics) University of North Carolina, 1956
- NBS/NIST: 1955-95
- Chief, Statistical Engineering Section
- Deputy Director, Center for Applied Mathematics
- Director, Computing and Applied Mathematics Laboratory
- Important contributions to nonparametric statistical theory, applications of statistical techniques in physical and engineering sciences, and reliability of complex systems



## 5. Joseph M. Cameron (2002)

- M.S. (Statistics), NC State University, 1947
- NBS: 1947-77
- Important contributions to experiment design and applications of statistical and computational methods in the physical and engineering sciences and in metrology



## 6. John Mandel (2002)

- Ph.D. (Chemistry) University of Eindhoven, 1965
- NBS/NIST: 1947-2000
- Lab-level Senior Statistical Consultant
- Development of theoretical and applied statistical methodology
- Landmark books on statistical design of interlaboratory testing and statistical analysis of experimental data



## 7. Harry Ku (2006)

- Ph.D. (Mathematical Statistics) GWU, 1968
- NBS: 1959-85
- Inspired leadership of the Statistical Engineering Division (1978-85)
- Successful efforts to introduce modern statistical analysis into measurement activities throughout NBS





## 8. Keith Eberhardt (2009)

- Ph.D. (Statistics) Johns Hopkins U., 1975
- NBS/NIST: 1978-2000
- Advanced statistical certification process for SRMs in analytical chemistry
- Major contributions to the successful execution of many highly consequential projects



## 9. M. Carroll Croarkin (2013)

- M.S. (Statistics) University of Maryland, 1974
- NBS/NIST: 1955-63, 1973-2000
- Groundbreaking technical contributions to
  - NBS/NIST calibration and measurement assurance programs
  - dissemination of advanced statistical methods for measurement assurance, uncertainty assessment
  - interlaboratory studies to industry through international standards
- Twice honored with Allen V. Astin Measurement Science Award

