Past and Future of Record Linkage

Fritz Scheuren
University of Chicago
Scheuren@aol.com

The Once and Future King

- The Book of Life
- Chalk River Nuclear Power
- Howard Newcombe
- Ivan Fellegi
- Eli Marks

Probabilistic Linkages

- Began with Available Data
- Not Designed for Linkage
- Deterministic Systems (SSA)
- Not Designed for Error
- More Data "Solves" Both

Coverage Applications

- Sekar and Deming
- Marks, Krotki, and Seltzer
- Bishop, Fienberg, and Holland
- Multiple Systems Applications

Content Error Analyses

- Mitsuo Ono
- Dorothy Rice
- Joe Steinberg
- Ben Bridges
- Interagency Data Linkage Series

Augmentation of Data

- Gene Steuerle
- Howard Iames
- Julia Lane
- Gene Rogot
- Joe Peckman

Optimization of Systems

- Prevent Survey Errors
- Build Detection Systems
- Edit and Repair
- Replace where possible
- Playing with Matches

Privacy v. Confidentiality

- Conflict of Principles
- Culture of Confidentiality
- Culture of Privacy
- Joint Design for Joint Goals
- Industry Coding Example

Legal and Bureaucratic

- Law and Practice Links
- Experimental Approaches
- Continuous Measurement
- Steal Each's Best Practice
- Use IRBs'

Learning Linkages

- Continue These Conferences
- Collect and Publish Summary
- Undertake Joint Work (more)
- Develop Linkage Diagnostics
- Match and Swap Staff

Thanks for the Memories Best of Fun on Our Road Ahead