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# Setting the Stage

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- Shift in the fundamental nature of records and publication
- Explosive growth in quantity of materials

# Presidential Initiative

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- My concern
  - Slow response from the professions
  - We can't wait, or records will be lost
  - If we don't step up to the plate, others will
- My response
  - Keynotes at Southwest Archivists, Inter-Mountain Archivists, American Archivists
  - Columns in *Archival Outlook*
  - Papers at <http://rpm.lib.az.us/>

# The Colloquium

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- To identify practical, technical skills needed to work as easily with electrons as with paper.
- Sixty librarians, archivists, records managers
- Opening keynotes by Margaret Hedstrom, University of Michigan, and Stuart McKee, Microsoft
- Eleven case studies
- Small-group discussions, with reporters
- Blogged by Geof Huth
- Extensive comments by Peter Wilkerson

# Thanks

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- Allen Weinstein  
Archivist of the United States
- David McMillen  
Assistant to the Archivist and co-convener
- GladysAnn Wells  
Director and State Librarian  
Arizona State Library and Archives

# Proceedings

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- With Susan Davis  
University of Maryland
- Finding organized into three major sections
  - Knowledge
  - Technical skills
  - Soft skills
  - Although categorized, skills often used in many different areas

# Basic observations

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- “New Skills” is a misnomer
  - Fails to recognize the contribution of pioneers
- What do we call ourselves?
  - “Information Professionals”
- Curation v. Preservation
- Knowledge versus skills
  - Craftsmanship ~ Carefully executed practice coupled with experience and knowledge to create an elegant product

# Knowledge ~ Information Ecosystem

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- Information architecture
- Standards
- Open Archival Information System
- Trend spotting
- Ethnography and anthropology



# Knowledge ~ Information Studies

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- What is a record?
- How do publications and records differ?
- How are the fundamental principles of the disciplines transformed in virtual space?
  - Classification or original order
  - Provenance
  - Authenticity

# Knowledge ~ Documentary Forms

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- The affordances of digital information
- Forms of digital information
  - Text, numbers, still and moving images
  - Databases
- Encoding
  - Binary, ASCII, Unicode
  - Vector v. raster graphics
  - Markup languages

# Management Skills

## General administrative skills

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- Budgeting
- Contracting
- Planning
- Policy development

# Management Skills Evaluation

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- Cost-benefit analysis
- Performance audits
- Qualitative and quantitative analysis
- Quality assurance
- Risk analysis and risk management

# Management Skills Process

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- Business process reengineering
- Managing expectations
- Project management
- Scheduling
- Training
- Workflows

# Technical Skills

## Records Management

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- Recordkeeping systems
  - Content management systems
  - Document management systems
  - Imaging systems
- Systems analysis
- Systems design
- Modeling and prototyping
- Classification and metadata

# Technical Skills

## Selection and Appraisal

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- Macro appraisal
- Functional analysis
- Computer-assisted appraisal
  - Artificial intelligence tools
  - Natural language processing tools
- Surveying records in electronic recordkeeping systems

# Technical Skills Acquisition

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- Digitization
- File transfer
- Validation
- Middleware
- Harvesting software
  - Web harvesting



# Technical Skills

## Processing

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- Arrangement
  - SQL queries rather than physical order
- Description
  - EAD, MARC
  - Automated processing techniques
- Storage
  - Encapsulated objects
  - Backups
  - Distributed, redundant storage

# Technical Skills ~ Preservation

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- Media refreshing, format migration
- Preserving authenticity
- Hash values and digital signatures
- Verified backups
- Disaster and business continuity plans
- Network and data center security

# Technical Skills ~ Reference and Access

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- Discovery in a disintermediated environment
- Importance (and benefits) of the Web
  - Web markup and design
- User interface design
- Embracing Web 2.0

# Soft Skills

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- Technological solutions are the easy part.
- People are the problem.

# Soft Skills ~ Thinking

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- Abstract thinking
- Conceptual thinking
- Analytical thinking
- Strategic thinking
- Judgment

# Soft Skills ~ Attitudes

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- Comfort with ambiguity and the unknown
- Adaptability
- Flexibility
- Decisiveness
- Know what you don't know
- Commitment to continuing education

# Soft Skills ~ Creativity

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- Innovation
- Curiosity
- Intuition

# Soft Skills ~ Communication

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- Advocacy and outreach
- Collaboration and team building
- Communicating across boundaries (translation)
- Relationships
- Social networks
- Sharing turf
- Managing change



# Some conclusions

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- Digital curation and craftsmanship demand more than technical skills
  - “Soft skills” are more important than ever
- The “next generation” of information professionals may have grown up with computers, but their skills as consumers of applications, creating documents, are not the same skills needed to curate a collection
- A next step
  - Colloquium what more thematic than specific
  - Analysis of work diaries that record the specific tools

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