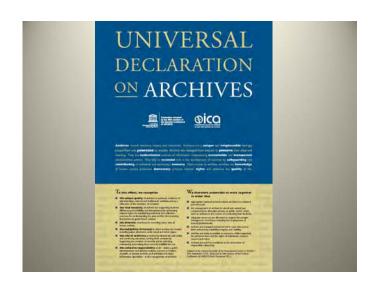
# Archives, Electronic Files and Licensed Material

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# Archives: the Bridge between the Past and the Future

- · Archives exist to be used
- Archives document all parts of society Preserving for the future requires making copies
- Copies must be made before hardware and software become obsolete
- Documents of everyday life created by persons operating outside of commerce
- Rare, one-of-a-kind documents. Thus, each archives has a worldwide audience



Archives record decisions, actions and memories. Archives are a unique and irreplaceable heritage passed from one generation to another. Archives are managed from creation to preserve their value and meaning. They are authoritative sources of information underpinning accountable and transparent administrative actions. They play an essential role in the development of societies by safeguarding and contributing to individual and community memory. Open access to archives enriches our knowledge of human society, promotes democracy, protects citizens' rights and enhances the quality of life.

#### $T_{ m o}$ this effect, we recognize

- the unique quality of archives as authentic evidence of administrative, cultural and intellectual activities and as a reflection of the evolution of societies;
- reflection of the evolution of societies;

  the vital necessity of archives for supporting business efficiency, accountability and transparency for protecting citizens rights, for establishing individual and collective memory, for understanding the past, and for documenting the present to guide future actions;

  the diversity of archives in recording every area of human activity;

  the multiplicity of formats in which archives are created including paper, electronic, audio visual and other types;

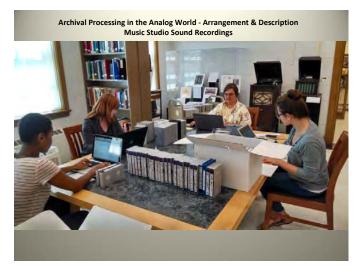
# We therefore undertake to work together in order that

- appropriate national archival policies and laws are adopted and enforced;
- and entorced;
   the management of archives is valued and carried out competently by all bodies, private or public, which create and use archives in the course of conducting their business;
- archives are managed and preserved in ways that ensure their authenticity, reliability, integrity and usability;
- archives are made accessible to everyone, while respecting the pertinent laws and the rights of individuals, creators, owners and users;

## **How Archives Manage Content**

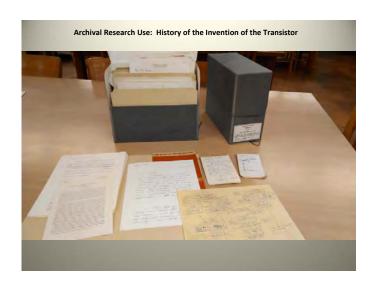
- · Interrelated functions
  - Authentication
  - Evaluation/acquisition
  - Arrangement
  - Description
  - Preservation
  - Use
- Archival management must be done at the collective or aggregate level, not item level

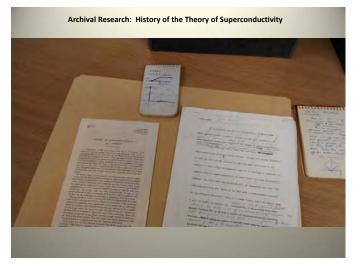








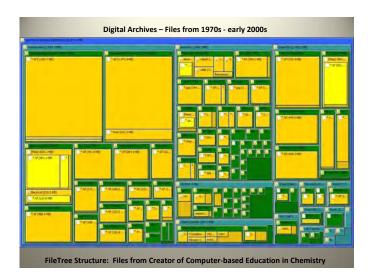


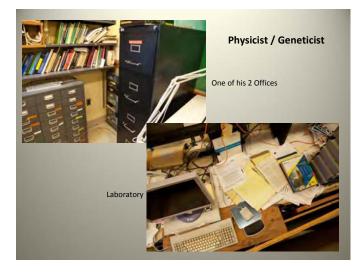




# Computer-based Teaching in Chemistry Work Station and Related Paper Files

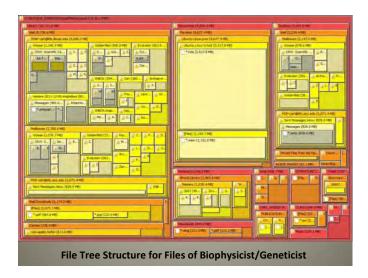
- In addition to 5 linear meters of paper files:
  - 30 GB of data
  - 161,419 separate files
  - 8,844 folders
  - 204 file types
- Electronic files look like this . . .





# Biophysicist /Geneticist Work Station and Related Paper Files

- In addition to 10 linear meters of paper files:
  - 17.8 Gigabytes of data from iMac and Sun workstation
  - 79,536 separate files
  - 6,818 folders
  - 1,435 file types!!!
- Electronic files look like this . . .





## Implications for Archival Practice

- As with analog, work with electronic content is at the aggregate level
- Selectively work at item level only after successive phases at aggregate level
- Fundamental character of digital era is enormous increase in amount of material
- It is <u>impossible</u> to go through each piece of content and determine whether license conditions apply

### Is it really impossible?

- Would <u>ten</u> minutes per file be enough to locate contract-limited content?
- Would five minutes be enough?
- Would one minute be enough?



#### Possible?

- Biophysicist and Geneticist Electronic Files:
  - 79,536 separate files
  - @ 10 minutes per file = 6.9 years
  - @ 5 minutes per file = **3.5 years**
  - -@1 minute per file = .7 years
- Chemical Educator Files Electronic Files:
  - 161,419 separate files
  - @ 10 minutes per file = 14.0 years
  - @ 5 minutes per file = 7.0 years
  - @ 1 minute per file = 1.4 years

# Once you locate contract controlled content . . .

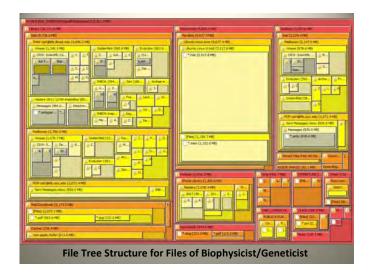
- Where will you find the contract?
- Its terms?
- Its successor owners?

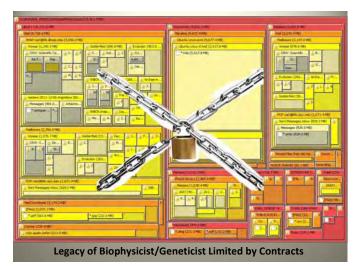
## Analog vs. Digital World Archives

Vast majority of archives is unencumbered by contracts

#### **BUT**

Archives in 21<sup>st</sup> century must include digital content such as the capture of the Geneticist's computer . . . .





#### Archivist's Dilemma

Our codes of ethics: follow the law Universal Declaration: respect "rights of individuals, creators, owners, and users"

#### VS.

To follow the best professional practices (the ones necessary to enable preservation of legacy) we will likely violate underlying contract terms

#### **Current Status**

- Archives content largely out-of-commerce
- Archives work largely conducted for noncommercial purposes
- Archivists are "flying under the radar" assume prosecution unlikely
- Leading to . . .

# **Emerging Perceptions**

- "Archivists are wasting their time and money worrying about copyright"
- "Copyright is so absurdly out-of-date that it <u>cannot matter"</u>
- Must this be the final verdict?

### Well-ordered Universe

- Reasonable set of exceptions for archives addressing
  - Acquisition
  - Preservation
  - Making available
- Remove the cloud so that we all can be engaged in a world knowledge system that includes copyright

otherwise . . .

