

Not a historic village but laid out to evoke one.



Arial view of Shelburne Museum, looking south.
Photography by Andy Dubak.













General Store & Apothecary









General Store (originally constructed 1837-1842, moved 1953) and Apothecary (constructed 1959)





Apothecary (constructed 1959)





Apothecary Main Room South Wall





Apothecary Compounding Room



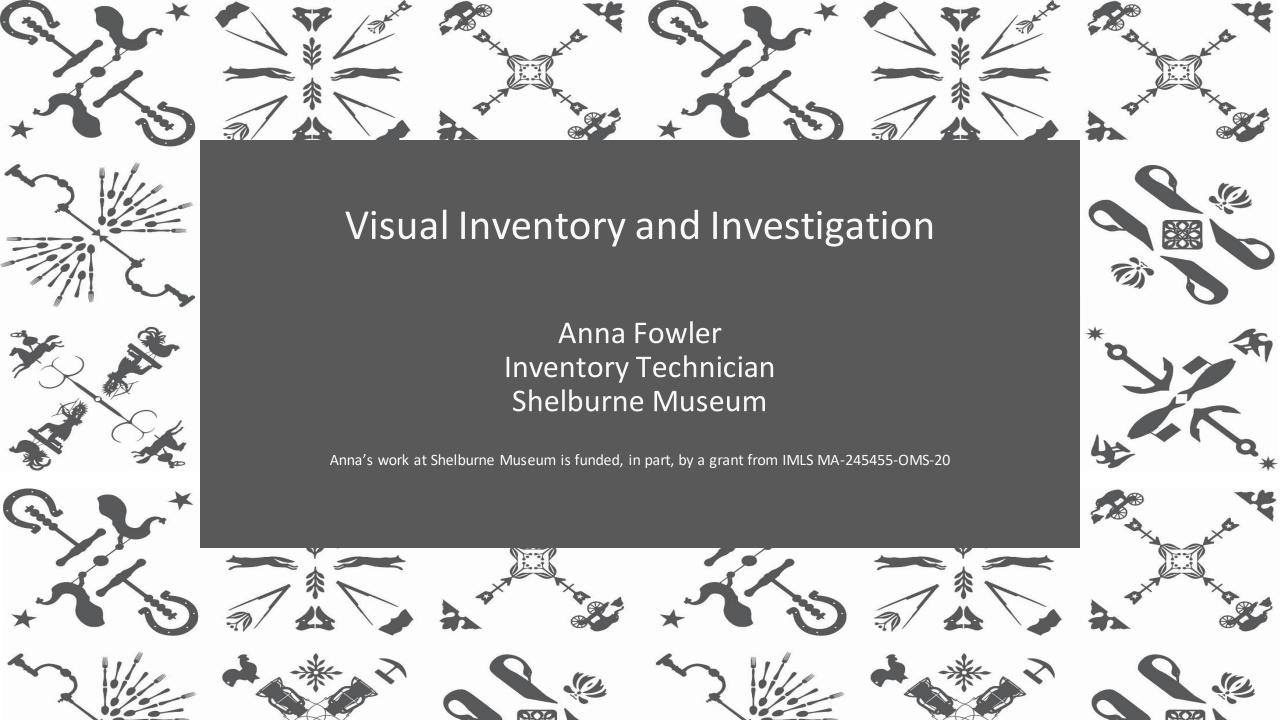






Doctor's Offices on 2nd floor of General Store Office contents of Dr. D.C. Jarvis (1881-1966) acquired 1966





Visual Inventory and Investigation

- Visual Inventory Process
- Health and Safety
- Research
- Future products to share





This project was made possible in part by the Institute of Museum and Library Services [MA-245455-OMS-20].

Visual Inventory Process

- Don't open anything
- Cataloging into a Microsoft Forms survey:
 - Information gathering
 - Numbers
 - Label text
 - Container
 - Contents
 - Condition
 - Hazards
 - Survey questions are titled with the back-end names of fields in the database
 - The form allows for free-text, multiple choice, single choice, dates, etc.
- Photographs
- Process Data into Excel
- Database Entry Mimsy XG
 - Mass uploads

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Container: Cardboard;Container: Box;		Content: Powder	Bentonite, USP XII preparation. Other names, Mistura cretae,
Container: Cardboard; Container: Box;	Component part of container: Lid; Component part of container: Paper seal;	Content: Crystals	Capacity 4 ounces of granular laxative chocolate agar.
Container: Cardboard;Container: Box;	Component part of container: Lid; Component part of container: Paper seal;	Content: Crystals	Capacity 1 pound. From label, a combination of Agar, Chocola
Container: Cardboard;Container: Box;Container: Paper package;	Component part of container: Exterior Packaging;	Content: Powder	Calcium Sulfite, Sulphite of Lime. Capacity 5 ounces.
Container: Cardboard; Container: Box; Container: Paper package;	Component part of container: Exterior Packaging;	Content: Powder	Should be white. Capacity 5 ounces. Calcium Sulfite.
Container: Metal;Container: Box;	Component part of container: Paint can-type lid;	Content: Powder	Capacity 1/4 lb powdered wood charcoal
Container: Cardboard; Container: Box; Container: Paper package;	Component part of container: Lid;Component part of container: Exterior Packaging;		Capacity 1 pound. Hiera Picra is most likely a combination of
Container: Cardboard;Container: Box;Container: Paper package;	Component part of container: Exterior Packaging;	Content: Pill	This is a brown paper bulk package of one dozen smaller oran
Container: Metal;Container: Can;	Component part of container: Lid;Component part of container: Paper seal;	Content: Crystals	Capacity 1/4 pound Iron and Quinine Citrate. Soluble.
Container: Cardboard; Container: Metal; Container: Box;	Component part of container: Lid;		Capacity 1/4 pound. Magnesium Oxide, Heavy - USP.
Container: Cardboard;Container: Box;Container: Paper package;	Component part of container: Lid;	Content: Solid	The box contains 12 un Note: the three paper documents wer



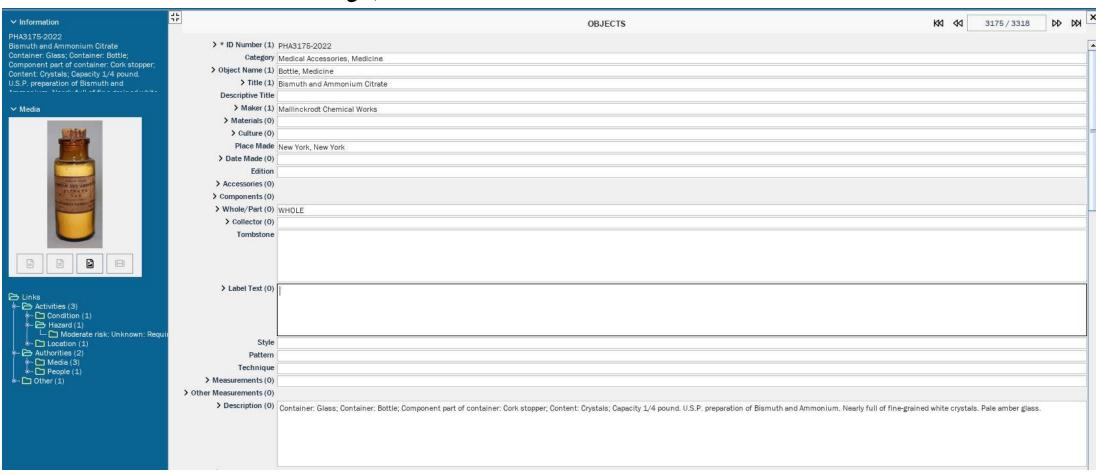
Fully processed Excel spreadsheets

CATALOGUE, TITLE	CATALOGUE, OPTION	8 CATALOGUE MAKER	CATALOGUE.PLACE_MADE	CATALOGUE.DESCRIPTION	CONDITION.CONDITION	CONDITION.CO	CONDITION.CO	CONDITIC CONDITI	CONDITION.SUMMARY
	Clear Glass Bottle			Container: Glass; Container: Bottle; No closure present; No label present; Content: Residue; Dark amber-brown residue.	Poor; Not Stable; Damage	2022-08-12	2022-08-12	Fowler, A IMLS Ph	Container: Worn; Container: Surface Grime; Container: Parts Missing; Container: Closure/Cap/Cork/Seal Missing; Contents: Evaporated, Only
Belladonnae Folia Normal Tincture		Wm. S. Merrell Chemical Co	o. Cincinnati, Ohio	Container: Glass; Container: Bottle; Component part of container: Cork stopper; Content: Liquid; About half full of dark brown liquid. 'Atropa belladonna'.	Fair; Not Stable; Damage	2022-08-12	2022-08-12	Fowler, A IMLS Ph	Container: Worn; Container: Surface Grime; Container: Torn; Container: Stained; Container: Faded; Container: Closure/Cap/Cork/Seal Damaged; Contents: Signs of use
	Clear Glass Bottle			Container: Glass; Container: Bottle; No label present; No closure present; Content: Residue; Da brown residue.		k Fair: Not Stable: Damaged			Container: Parts Missing; Container: Surface Grime; Container: Worn; Container: Signs of use; Container: Closure/Cap/Cork/Seal Missing; Contents: a Evaporated, Only Residue Remains
Keith's Tinc. Avena Sativa		B. Keith & Co.	New York, New York	Container: Glass; Container: Bottle; Component part of container: Cork stopper; Content: Residue; From label, 60% Alcohol, made from Oats - 'Avena sativa.'	ESTATE TARRAMENTATION OF THE STATE OF	2022-08-12	2022-08-12	Fowler, A IMLS Ph	Container: Worn; Container: Surface Grime; Container: Torn; Container: Corrosion; Container: Closure/Cap/Cork/Seal Damaged; Container: Signs of use; Container: Soiled; Container: Stained; Contents: Evaporated,
Puretest Zinc Stearate		United Drug Company	Boston, Massachusetts	Container: Metal; Container: Can; Component part of container: Lid; Content: Powder; From label, Zinc Stearate USP and Balsam of Peru.	Poor; Stable; Damaged		2022-08-12	Fowler, AIMLS Ph	Container: Worn; Container: Surface Grime; Container: Corrosion; Container: Stained; Container: Closure/Cap/Cork/Sea Damaged
Powdered Extract Ox Gall USP		Eli Lilly & Company	Indianapolis, Indiana	Container: Glass; Container: Bottle; Component part of container: Cork stopper; Content: Powder; Capacity 1 ounce. Ox Gall U.S.P.	Fair; Stable; Damaged		2022-08-12	Fowler, A IMLS Ph	Container: Worn; Container: Torn; Container: Faded; Container: Signs of use; a Contents: Signs of use

CATALOGUE.ID_NUMBER	HAZARD.HAZARD	HAZARD.RATING	HAZARD.HANDLING_INSTRUCTIONS	HAZARD.DESCRIPTION	HAZARD.IDENTIFIED_BY	HAZARD.DATE_IDENTIFIED
PHA3162-2022	Unknown: Requires Testing	Moderate risk	Examine prior to handling.; Wear appropriate respiratory PPE when handling.; Wear disposable gloves.	Disposal Priority: Remove Later	Fowler, Anna	2022-08-12
PHA3163-2022	Poison/Pesticide (Toxic); Other Hazards Po	Significant risk	Examine prior to handling.; Wear appropriate respiratory PPE when handling.; Wear disposable gloves.	Disposal Priority: Remove Later	Fowler, Anna	2022-08-12
PHA3164-2022	Unknown: Requires Testing	Moderate risk	Examine prior to handling.; Wear appropriate respiratory PPE when handling.; Wear disposable gloves.	Disposal Priority: Remove Later	Fowler, Anna	2022-08-12
PHA3165-2022	Alcohol (Flammable.); Lead/lead compour	Low risk	Examine prior to handling.; Wear appropriate respiratory PPE when handling.; Wear disposable gloves.		Fowler, Anna	2022-08-12
PHA3166-2022	Unknown: Requires Research	Moderate risk	Examine prior to handling.; Wear appropriate respiratory PPE when handling.; Wear disposable gloves.		Fowler, Anna	2022-08-12
PHA3167-2022	Contents inert or not hazardous	Low risk	Examine prior to handling.; Wear appropriate respiratory PPE when handling.; Wear disposable gloves.		Fowler, Anna	2022-08-12
PHA3168-2022	Contents inert or not hazardous	Low risk	Examine prior to handling.; Wear appropriate respiratory PPE when handling.; Wear disposable gloves.		Fowler, Anna	2022-08-12
PHA3169-2022	Poison/Pesticide (Toxic)	Significant risk	Examine prior to handling.; Wear appropriate respiratory PPE when handling.; Wear disposable gloves.		Fowler, Anna	2022-08-12
PHA3170-2022	Unknown: Requires Testing	Moderate risk	Examine prior to handling.; Wear appropriate respiratory PPE when handling.; Wear disposable gloves.		Fowler, Anna	2022-08-12
PHA3171-2022	Unknown: Requires Research	Moderate risk	Examine prior to handling.; Wear appropriate respiratory PPE when handling.; Wear disposable gloves.		Fowler, Anna	2022-08-12
PHA3172-2022	Unknown: Requires Research	Moderate risk	Examine prior to handling.; Wear appropriate respiratory PPE when handling.; Wear disposable gloves.		Fowler, Anna	2022-08-12

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And finally, a database record



Hazards and Staff Safety

• PPE

- Respirator with appropriate cartridges, we use OV/P100
- Goggles or other Protective Eye Wear
- Chemical and Fire resistant Lab coat
- Chemical Resistant Gloves and Nitrile Gloves

Environmental Controls

- Portable fume extractor with Charcoal and HEPA filters
- Eye Wash Station
- Chemical Spill Kits
- Benchkote
- Spill tray
- Flammables Cabinet
- Air and Surface Testing





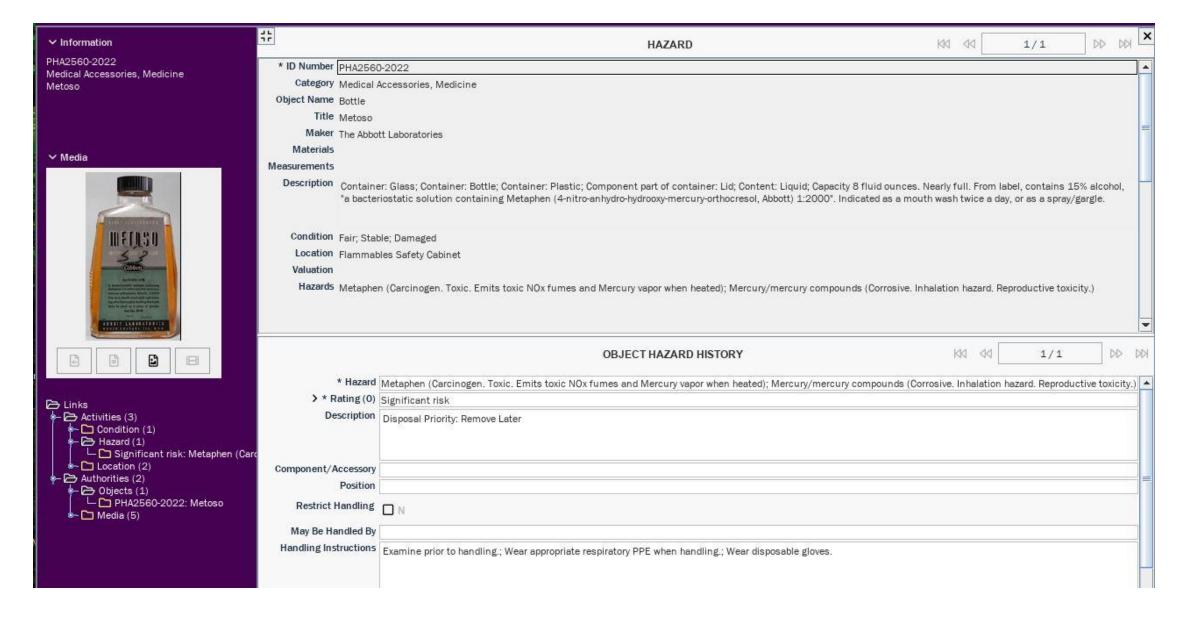


Visual Identification of Hazards on Labels

- Color-coded dots on inventory labels to visually identify hazards before handling:
- Black Mercury
- Orange Flammable
- Blue Poison/Inert
- Green Safe/Inert
- Magenta/Pink Controlled Substance
- Red X Potentially Explosive Substance
- Note: There are a number of ways to do this labelling; we arrived at this as a simple way to incorporate identification of a few hazards at a glance into the inventory process.



Database Hazard Identification



Research

Books

- Merck Index (probably the older the better, ours is \sim 1960s)
- Pharmacopoeias, National Formulary, various books written on Nostrums
- Materia Medicas (we love Emily Stoney, 1910)
 - We also appreciate Dr. A. Emil Hiss and Dr. Charles W. Oleson

• Digital Resources

- Journals for Druggists/Apothecarists/Pharmacists
- · Journal of American Medical Association

Archives & Archivists

- Existing companies All Roads Lead To... Pfizer?
- Historical Societies
- · Our own Records Room
- Check out the mini-bibliography handout on the NEMA webpage for a few of our most-used references.



245. LOTIO NICRA.

Black Lotion.

Triturate the Mild Chloride of Mercury with one-half (½) fluidounce of Water, and gradually add a sufficient quantity of Solution of Lime, to make sixteen (16) fluidounces.

This mixture should be well agitated, whenever any of it is to be dispensed.

10 1-WW

The

American Druggist

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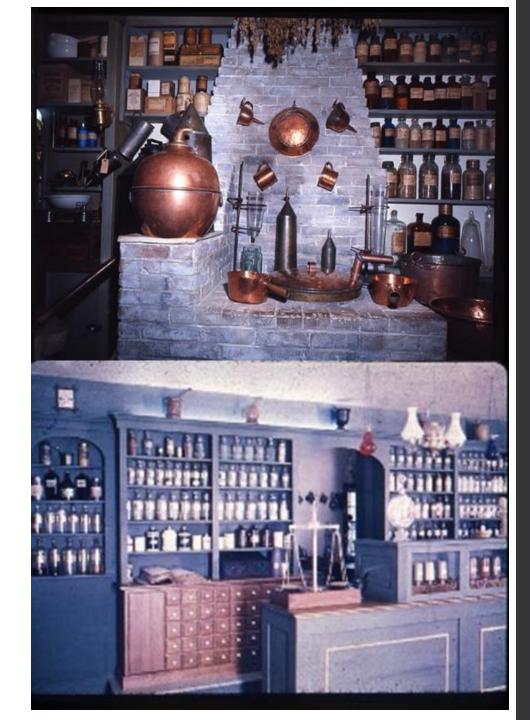
ILLUSTRATED MONTHLY JOURNAL

OF

Pharmacy, Chemistry and Materia Medica



c.1970



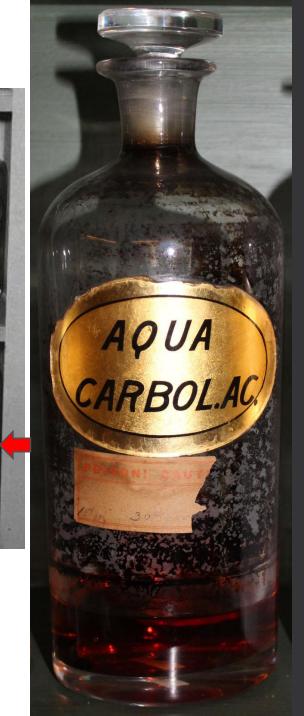


Substance degradation over time



Change in condition from c.1970 to 2021 in Linim. Saponis. (L, Center: 2nd from left top shelf) and Aqua Carbol. Ac. (R, Center: lower shelf, far right)

Many of the objects on the same shelves look identical to their 1970 appearance, but not these!



Looking to the future

- Collaboration and Transparency
 - We want to share what we've learned with anyone who needs it!
 - Possible products:
 - A 'dictionary' of substances we've run across in our collection, currently an excel spreadsheet ~600 items long and growing
 - Includes alternate names, definitions, origins, uses, hazards, source of information, product names
 - · Databases of companies, branded products
 - A reference list don't forget to check out the handouts on NEMA's page, but if you want or need more, please reach out!
 - Do you know something we don't?
 - A story of never ending mysteries! Was the French and American Importing Company real or a fraud? What were they putting in their products?

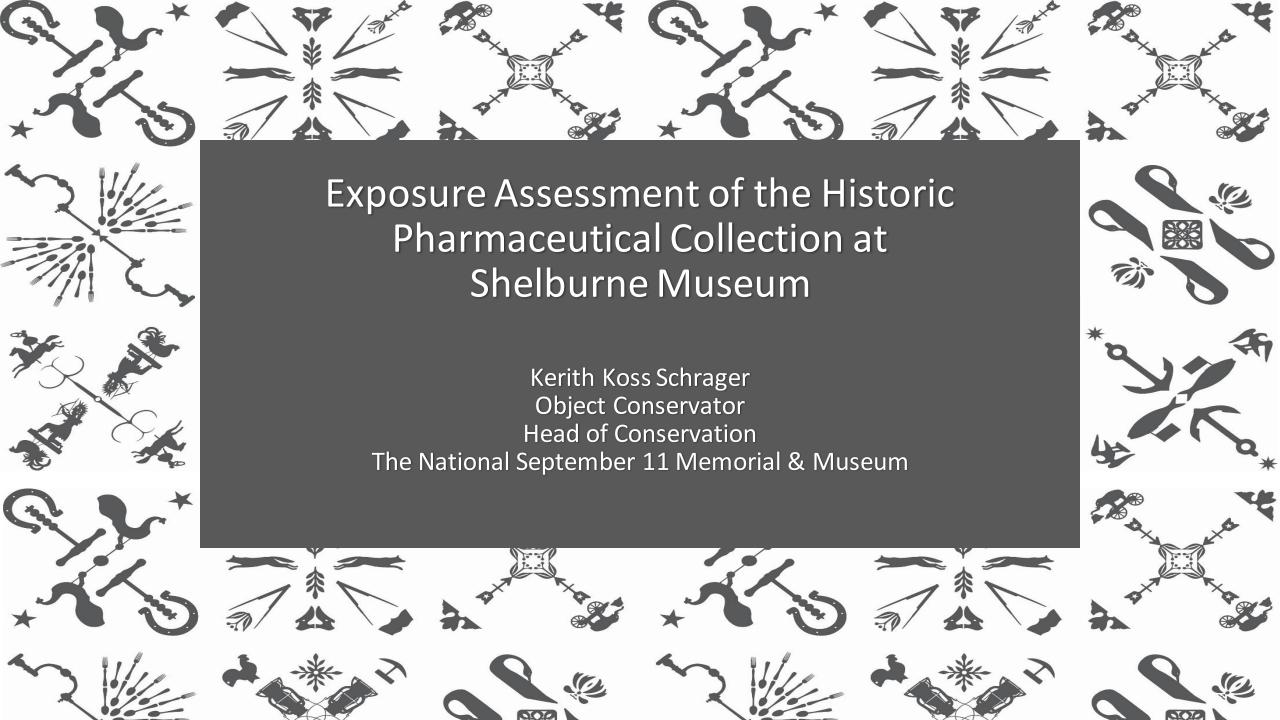












EXPOSURE ASSESSMENT

OF THE HISTORIC PHARMACEUTICAL COLLECTION AT SHELBURNE MUSEUM (Vermont)



What's in that Old Bottle? Collections Stewardship for Pharmaceutical Collections

NEMA Conference 2022

Kerith Koss Schrager, Objects Conservator

















HAZARD vs. RISK: An Important Distinction

HAZARD

Intrinsic property of a substance to cause harm

RISK

Probability that the hazard will cause harm and the degree to which it affects your system

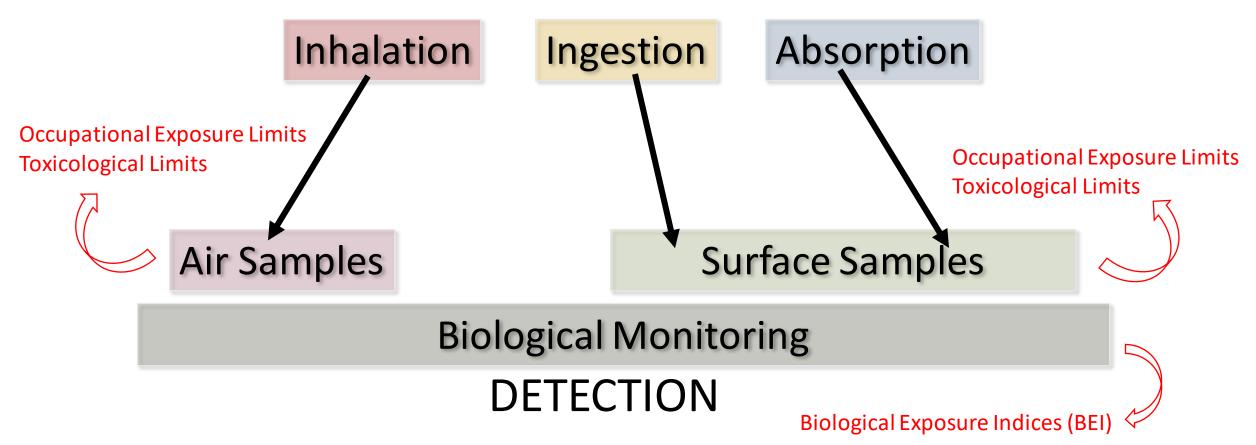


You may not be able to change the nature of the *HAZARD*, but you can control *RISK* through limiting *EXPOSURE*

EXPOSURE

the opportunity for the body to receive a dose substantial enough to result in an adverse health effect

ROUTES OF EXPOSURE



EXPOSURE ASSESMENT AT SHELBURNE MUSEUM

Air Samples

- Volatile Organic Compound (VOC)
 Sampling
- Mercury Vapor Sampling
- Total Particulate Matter (PM)
 Sampling

Surface Samples

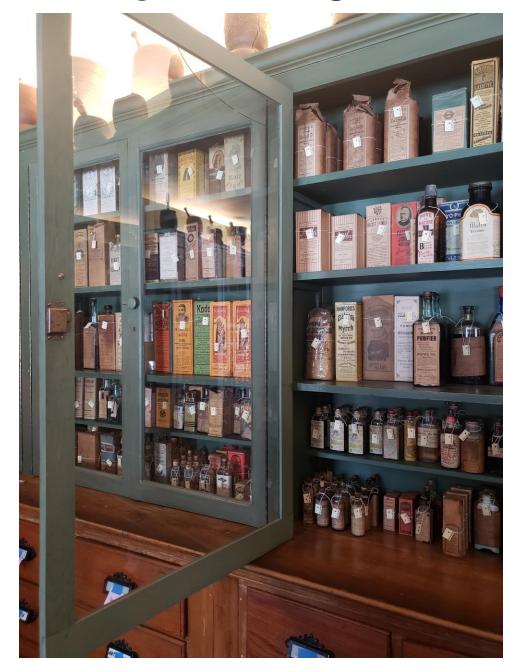
- Wipe Sampling (Lead & Arsenic)
 - Bottles & Containers
 - Surfaces
 - Workspaces
 - Compare spot tests to analytical results

- Significant contaminants within collection
- Well-established health effects
- Well-established regulatory levels





WIPE SAMPLING







WIPE SAMPLING RESULTS

			LEAD	<u>ARSENIC</u>
SA	MPLE ID	DESCRIPTION	μg/ft²	μg/ft²
SMAI	POTH-2	Green wall paint	-	-
SMAI	POTH-7	Interior of window Unit #19	-	-
SMAI	POTH-24	Blank	-	-
_	POTH-3	Lead capped bottle (Unit #21)	139	-
SMAI	POTH-8	Stoppered bottle w/ white powder labeled "Lead"	102	-
SMAI	POTH-12	Chamberlain Bottle	28	-
SMAI	POTH-13	Wyeth Lead Acetate Box	-	-
SMAI	POTH-14	Sheep Powder Box	50	21
SMAI	POTH-15	Chicken Feed Box	7	-
SMAI	POTH-16	Unknown Bottle "678"	11	344
SMAI	POTH-17	Liquid Lead Bottle	158	-
SMAI	POTH-20	Arsenic Bottle (Compounding Room)	1115	1672
SMAI	POTH-4	Shelf with lead topped bottles (Unit #21)	223	-
SMAI	POTH-5	Shelf with lead bottles (Unit #19)	149	-
SMAI	POTH-6	Countertop outside Unit #19	74	-
SMAI	POTH-11	Iodides Counter Unit #20	56	-
SMAI	POTH-18	Outside Lead Drawer (Dentist Office)	28	
SMAI	POTH-19	Arsenic Bottle Shelf (Compounding Room)	28	-
SMAI	POTH-23	Medicine Cabinet (Upstairs Dr. Office)	74	-
SMAI	POTH-21	Lead Shelf #2	93	-
SMAI	POTH-9	Workbench	102	-
SMAI	POTH-10	Photo Label	195	-
SMAI	POTH-22	Lab Coat	11	-

DUST EXPOSURE LIMITS (LEAD)

EPA:

10 μ g/ft² (floors) 100 μ g/ft² (sills)

OSHA:

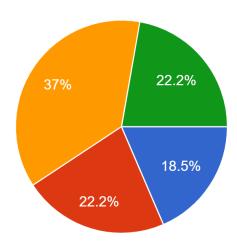
"as free as practicable" $200 \,\mu g/ft^2$ (HUD level) for worksurfaces

VERMONT "Lead Dust Hazard":

 $40 \mu g/ft^2$ (floors) 250 $\mu g/ft^2$ (sills)

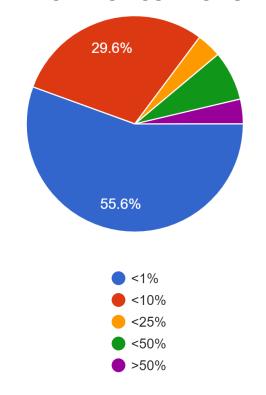
SURVEY RESULTS

SIZE OF COLLECTION

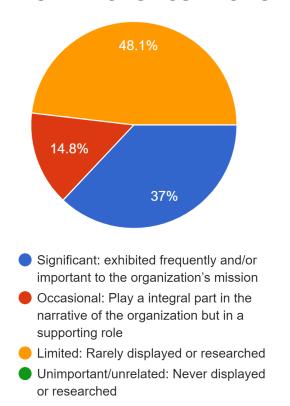


- Limited: Only a few items
- Several dozen items
- Sizeable: Greater than 100 items
- Significant: Greater than 1000 items

PERCENT OF COLLECTION

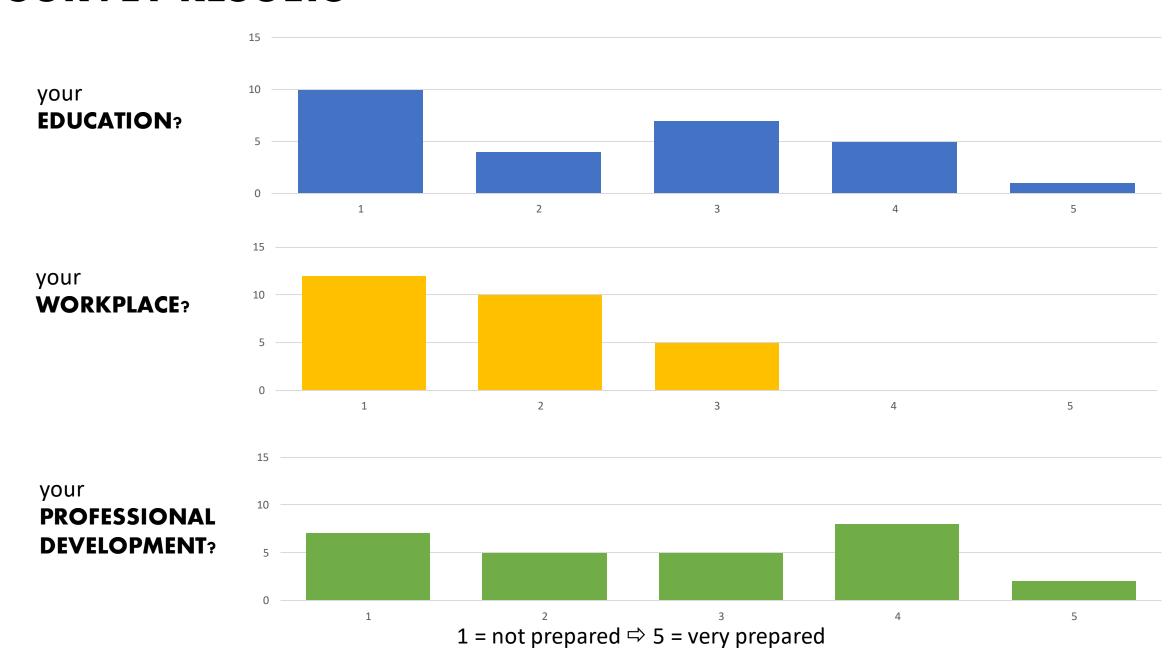


IMPORTANCE OF COLLECTION



- 50% believe the are <u>properly caring</u> for their pharmaceutical collections
- 62% feel like their organization does not have the resources to properly care for their collections
- Almost 90% have their collections at least 50% catalogued
- 60% consider their pharmaceutical collections a health and safety risk
- Over 50% say more than 50% of their collection contains original contents
- Most indicate that the **bottle and packaging** are more important to their organization than the contents

SURVEY RESULTS How prepared are you for handling pharmaceutical collections through:



TAKE THE SURVEY

THANK YOU!

Shelburne Museum Staff

- Barbara Rathburn
- Nancie Ravenel
- **Anna Fowler**

Department of Environmental Health Sciences, NYU

- Dr. Terry Gordon, PhD
- Dr. Catherine Klein, PhD



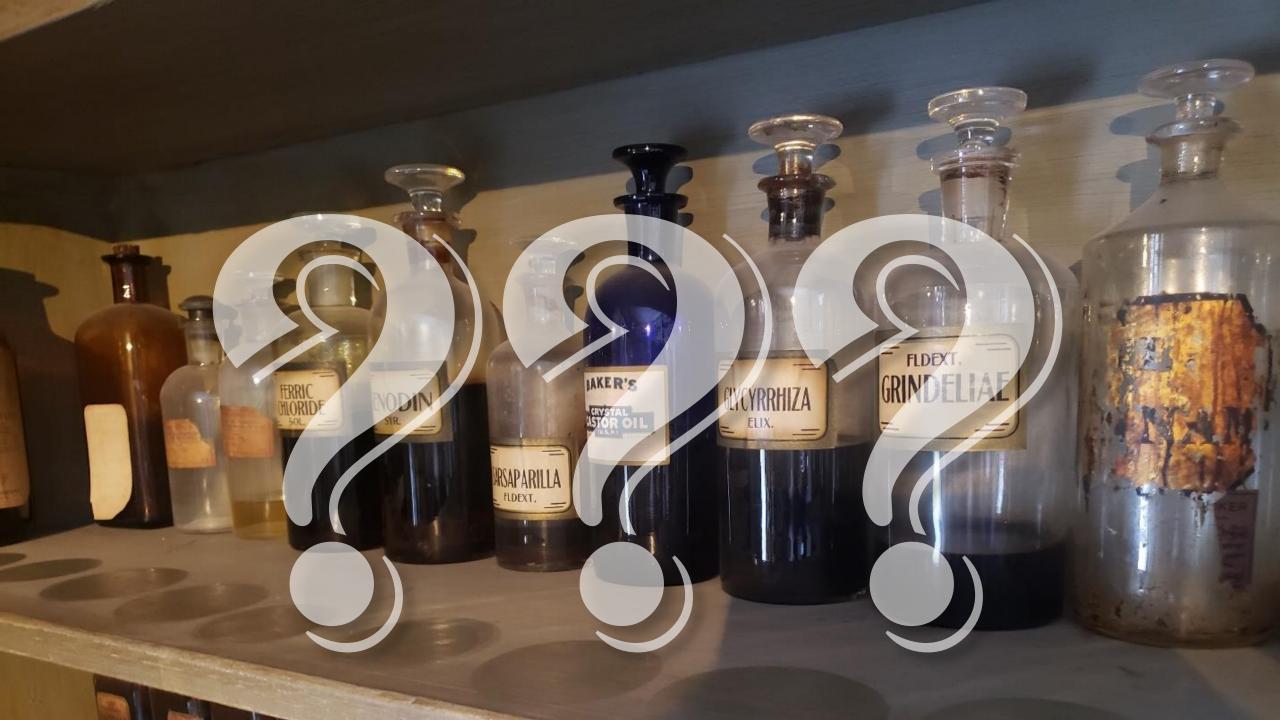
https://tinyurl.com/MuseumMedicinals

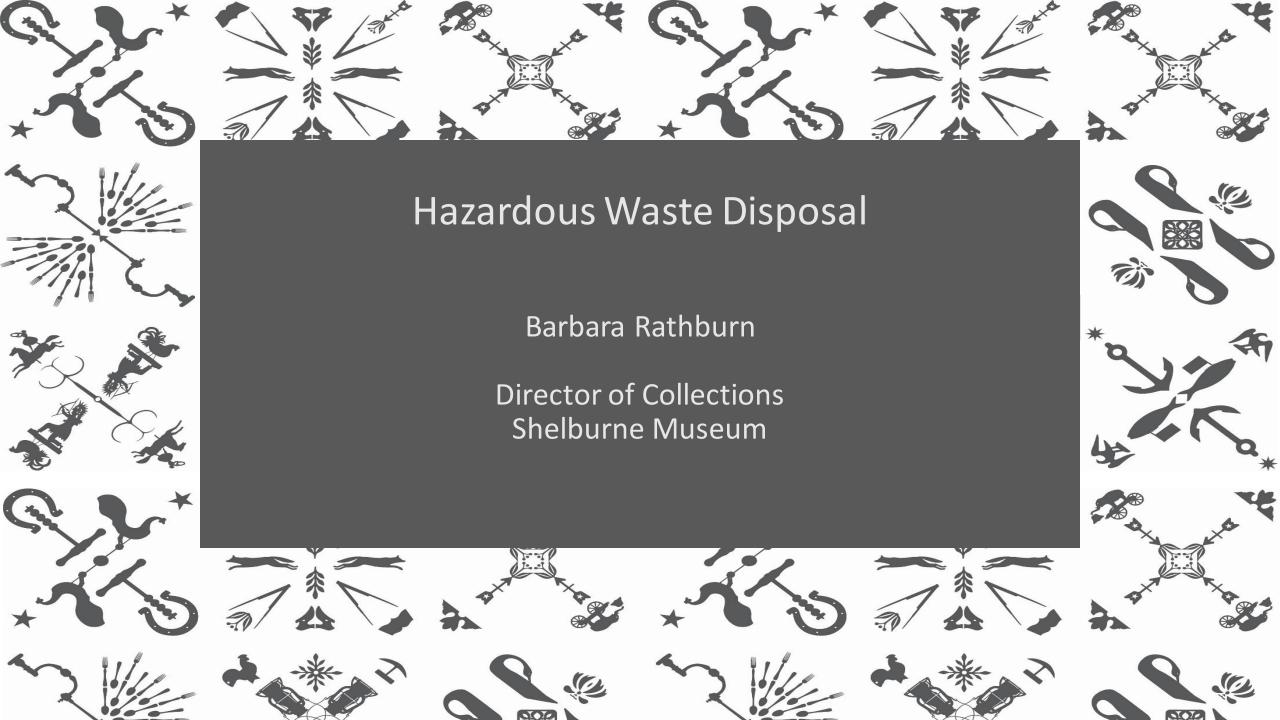
Museum and Cultural Heritage Working Group, American Industrial Hygiene Association (AIHA)

- Kathryn Makos, Certified Industrial Hygienist
- Jeffery Sotek, Certified Industrial Hygienist

Health & Safety Network, American Institute for Conservation (AIC)

Institute of Museum and Library Services (IMLS)







Hazardous Waste Disposal

State and Federal Regulations

- Check the Federal EPA regulations for hazardous waste and the regulations for your state. https://rcrapublic.epa.gov/rcrainfow-eb/documents/rcra_subtitleC_forms-and-instructions.pdf
- Register as a hazardous waste generator.
- The regulations for storage and disposal will vary depending on the quantity you have on site.
- You will need to have an EPA ID# to dispose of hazardous waste using a contracted vendor.



VT HAZARDOUS WASTE HANDLER SITE ID FORM

Please return completed form to:

VT DEC Waste Management & Prevention Division One National Life Drive, Davis 1 Montpelier, Vermont 05620-3704

http://dec.vermont.gov/waste-management/hazardous 802-828-1138

Shaded box for VT DEC Office Use Only

Date In:

Date Complete:

Local Disposal – Solid Waste District

- Contact your county or local solid waste district to determine if they will accept the waste.
- Shelburne Museum is using the Chittenden County Waste District Environmental Depot for residential and business hazardous waste.
- Check the Safety Data Sheet how comfortable are you with transporting the waste?
- Do you have the proper PPE for handling it to pack for transit?
- Contact a local university or college for additional disposal advice.

Packing for local transport





Handlers can remove the bag and you can keep the container for a future disposal.





Explosives

- The Bomb Squad may not come to your rescue if a hazardous waste removal company can take care of the problem.
- Contract with hazardous waste removal company for neutralization of potentially explosive materials.
- Follow up Lab Pack with company for actual removal once neutralized.



Neutralization — On Site Treatment

- Complete forms provided by waste removal company.
- Waste removal company completed the work plan provided to the state.
- Publish public notice about on-site treatment.
- Alert the local fire department that the event is happening.
- Within 24 hours of completing the treatment, inform your state authority that the event has occurred.

PUBLIC NOTICE

The State of Vermont, Agency of Natural Resources, Dept. of Environmental Conservation, Waste Management & Prevention Division, has issued Hazardous Waste Emergency Permit No. DEC-HW-EP-22-01 to Shelburne Museum, located in Shelburne, VT. The Emergency Permits are issued for the purpose of allowing on-site treatment of:

Description	Quantity	Hazard Designation	Container Size 1x250ml, 1x2oz	
Ethyl Ether	2	Peroxide Former		
Alcohol / Ether	2	Peroxide Former	2x2oz	
Picric Acid	1	Shock Sensitive	lxloz	
Picric Acid Gauze	1	Shock Sensitive	Yard	
Acetyl Benzoyl Peroxide	2	Shock Sensitive	2x1oz	
Mercury Oxycyanide	1	Reactive Cyanide	1x1oz	

Clean Harbors Environmental Services will conduct the treatment of these wastes under an approved work plan. After treatment, the containers shall be packaged and transported to a permitted off-site hazardous waste facility for disposal.

The Emergency Permit is effective as of May 9, 2022, and will expire on June 8, 2022. Any questions or requests for further information may be directed to William Sisson of the Department of Environmental Conservation, Waste Management & Prevention Division, 1 National Life Drive, Davis 1, Montpelier, VT 05620-3704; (802) 461-6603; william.sisson@vermont.gov.

EP-GCR0883638.0

The Event

- Occurred when museum was closed.
- Set up a safety zone work area no vehicular or foot traffic.
- 50-foot radius.







Retrieving containers from the building

Remote opening in Blast Deflection Unit



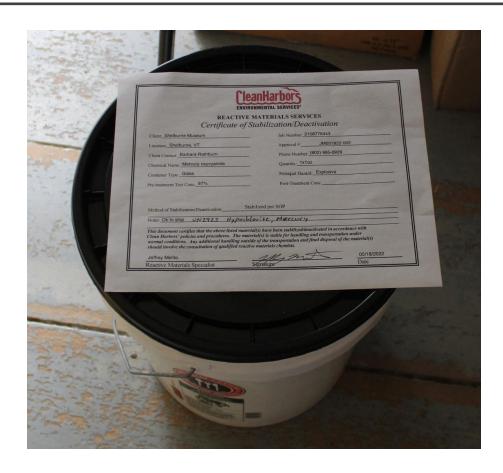


Neutralizing the chemicals



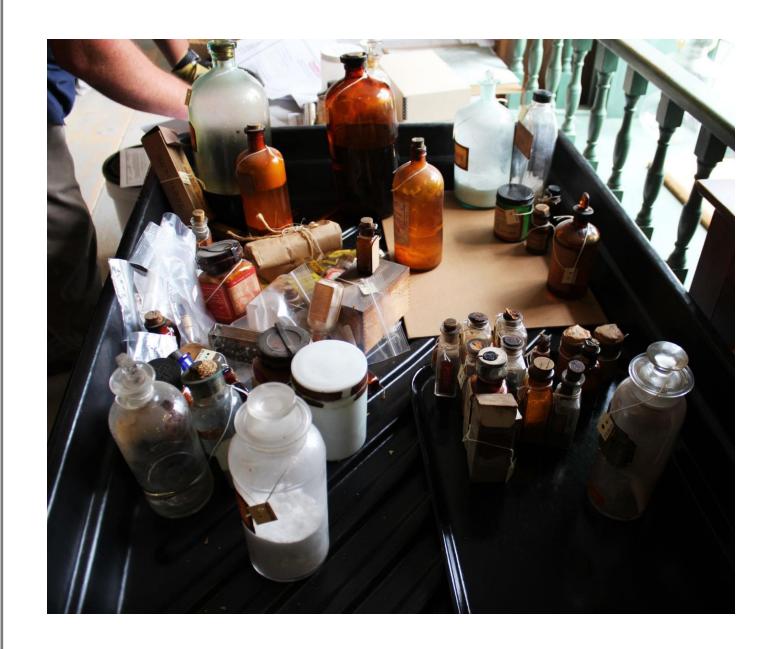


All done – for now...





Lab Pack







Reactives for incineration - minimum price was \$200 for a 5 gallon container - fill it up!

Product's exterior box was retained when possible. Containers are considered hazardous, could not remove contents and keep the bottle.





Different packing methods – depends on the chemical and disposal method.

More paperwork!



Thank You!

This project was made possible in part by the Institute of Museum and Library Services. MA-245455-OMS-20.



Museum_{and}Library
SERVICES



