





## A Career Planning Tool For Chemical Scientists





**ChemIDP** is an Individual Development Plan designed specifically for graduate students and postdoctoral scholars in the chemical sciences. Through immersive, self-paced activities, users explore potential careers, determine specific skills needed for success, and develop plans to achieve professional goals. **ChemIDP** tracks user progress and input, providing tips and strategies to complete goals and guide career exploration.

## **Career Consultant Directory**





- ACS Member-exclusive program that allows you to arrange a one-on-one appointment with a certified ACS Career Consultant.
- Consultants provide personalized career advice to ACS Members.
- Browse our Career Consultant roster and request your one-on-one appointment today!

www.acs.org/careerconsulting

## **ACS Bridge Program**



## Are you thinking of Grad School?

If you are a student from a group underrepresented in the chemical sciences, we want to empower you to get your graduate degree!

The ACS Bridge Program offers:

- A FREE common application that will highlight your achievements to participating Bridge Departments
- Resources to help write competitive grad school applications and connect you with mentors, students, and industry partners!

Learn more and apply at <u>www.acs.org/bridge</u> Email us at <u>bridge@acs.org</u>







## ACS Scholar Adunoluwa Obisesan

BS, Massachusetts Institute of Technology, June 2021 (Chemical-biological Engineering, Computer Science & Molecular Biology)

"The ACS Scholars Program provided me with monetary support as well as a valuable network of peers and mentors who have transformed my life and will help me in my future endeavors. The program enabled me to achieve more than I could have ever dreamed. Thank you so much!"

GIVE TO THE



Donate today at www.donate.acs.org/scholars





9





















































https://www.youtube.com/c/ACSReactions/videos









less chat about shar 2022 Nobel Prize in Chemistry ing



Vade on Wikipedia work-life balance



orthogonal, click chemistry clinch the Nobel Prize er 5. 2022



The sticky science of why eat so much sugar May 31, 2022

Lithium mining's wate sparks bitter conflicts novel chemistry



There's more to James Harris's story April 27, 2022





The helium shortage th wasn't supposed to be March 24, 2022

Subscribe now to C&EN's podcast

ON STITCHER

**VOICES AND STORIES FROM THE WORLD OF CHEMISTRY** 

cen.acs.org/sections/stereo-chemistry-podcast.html



## ACS Industry Member Programs

## ACS Industry Matters

ACS member only content with exclusive insights from industry leaders to help you succeed in your career. #ACSIndustryMatters

Preview Content: acs.org/indnl

## ACS Innovation Hub LinkedIn Group

Connect, collaborate and stay informed about the trends leading chemical innovation.

Join: bit.ly/ACSinnovationhub

**ACS on Campus** is the American Chemical Society's initiative dedicated to helping students advance their education and careers.





## **ACS Career Resources**



### Virtual Office Hours



https://www.acs.org/careerconsulting.html

### Personal Career Consultations



Jim Tung works at Lacimas Laboratories in Portland, OB, currenty as a business, development managen. He has been with Lacimas for 10 years, working on developing new chemical manufacturing projects. Before that, he was a serier research chemica at Obter Research in Champaign, II, performing klo scale organic chemistry.

An Cirigon Landez, Jing Boti na Ju, in sourcemosity relations the University of University. In Birlb, Din organism, Barbanis, Millowerky of Nave Stame, with postboccord experience an PErer's Water attriles in La Joha CA. He is part. Chair of the Proteind Section of the American's Chamical Society and an Sol's general curo chair of NGNI 2015. He has interests in process chemistry, More economics, social media societant and encongening camere explosition and development (or younger

https://www.acs.org/careerconsulting.html

Linked in Learning



https://www.acs.org/linkedInlearning









The impact and results of ACS member advocacy outreach and efforts by the numbers!

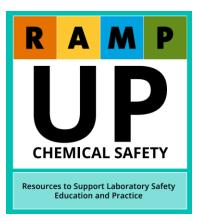








## A complete listing of ACS Safety Programs and Resources



Download it for free in the "Projects & Announcements" Section! www.acs.org/ccs

Lab Safety

ACS Institute

American Chemical Society

ACS

try for Life\*



Δርς

BULLETIN FOR THE HISTORY OF CHEMISTRY

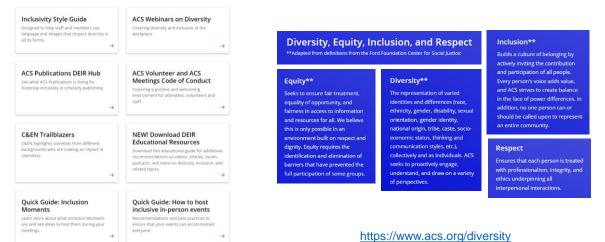
Chemistry for Life®

VR2

## ACS OFFICE OF DEIR

Advancing ACS' Core Value of Diversity, Equity, Inclusion and Respect

## **Resources**



19



## ACS Division of the History of Chemistry

http://acshist.scs.illinois.edu

### WHAT HIST DOES

- Publishes the *Bulletin for the History of Chemistry* twice a year (included in HIST membership)
- Organizes symposia at two national meetings per year as well as regional meetings. Members can present, attend, and network with chemists and historians

Tellen	Grappo I. 	Gmpps IL 	Grappo IIL R'0'	Gruppe IV. RE <sup>4</sup> RD <sup>4</sup>	Grapps V. BE <sup>a</sup> R <sup>a</sup> D <sup>a</sup>	Grappo VI. Bill <sup>4</sup> BO <sup>4</sup>	Gropps VII. HE R'Ø'	Groppo VIII. R04
1	H=1							
2							F=+19	
8	Na12	Mg tor 24	Al - 27,5	Ei-10	P=151	8=30	Cl=35,5	
4	K=:39	Ca== 40		Ti= 48	Van St	Cr=52	Ma=15	Fam56, Com58, Nim56, Com63,
5	(On=63)	Zn==65		-=12	As= Tf	8+78	Be== 50	
6	3h 95	Br=97	PT1 88	Ze - 90	Kb==14	Ma-16		Rum 104, Eh=104, Fd=106, Ag=108.
	(Ag=108)	C2-+112	In=113	8s=118	Sh== 122	Tem 122	3=127	
	Ceso 125	Da== 197	7Dl-126	7Ce-==140	-	-	-	
9	()			- 1	-		- 1	
20	-	-	7Ec=178	7La-180	Ta== 183	W=184	-	Os=195, Ir=197, Pi=193, Au=199.
11	(An=199)	ifig== \$00	71 -= 904	25-207	III	- 1	- 1	
12	-	-	-	Th-131	-	U=240	-	

 Presents awards recognizing outstanding scholarship in history of chemistry (Joseph B. Lambert HIST award and Paul R. Jones outstanding paper award) and breakthrough publications in chemistry (Citation for Chemical Breakthrough awards)

## WHY BECOME A HIST MEMBER!

- Receive the Bulletin and the Divisional Newsletter (including abstracts of HIST symposia)
- · Opportunity to serve on awards and leadership committees to shape the future of history of chemistry



www.acs.org/membership





Have a Different Question? Contact Membership Services

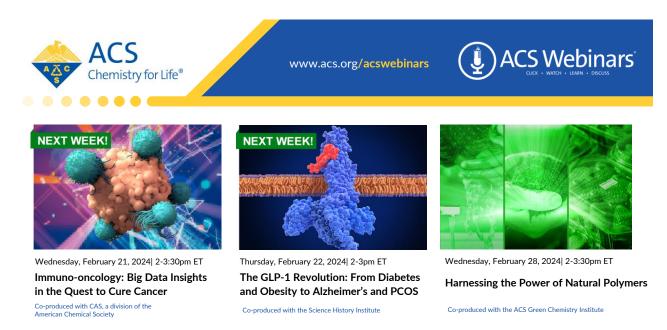
Toll Free in the US: <u>1-800-333-9511</u>

International: <u>+1-614-447-3776</u>

service@acs.org

Premium Access to all benefits. The best option for students, professionals, or retired, now at a better price			ard on featuring a slimmed-down set at half the price.	Basic Introductory set of complimentary benefit	
\$160	Regular Members & Society	\$ <b>80</b>	Regular Members	\$ <b>0</b>	Community Associate
* <b>1</b> 60	Affiliates	\$40	Recent Graduates* 🕄		
\$80	Recent Graduates* 🕄				
\$55	Graduate Students				
\$25	Undergraduate Students				
80	Retired				
\$0	Emeritus				

21

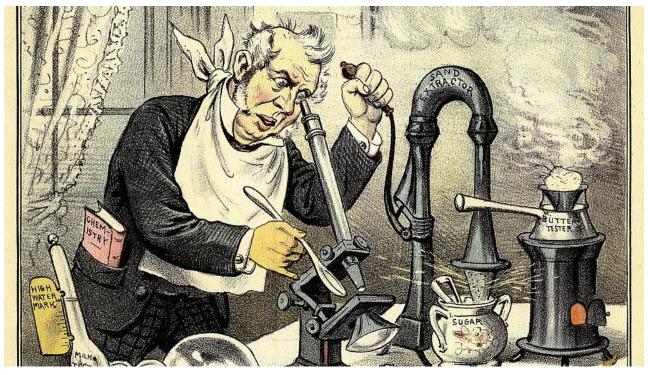


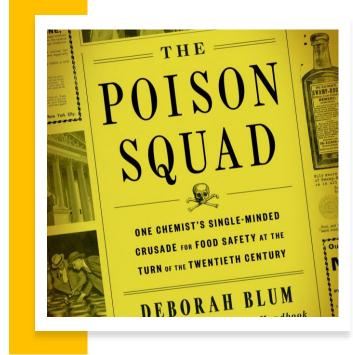
**Register for Free** 

Browse the Upcoming Schedule at www.acs.org/acswebinars









#### EATING DANGEROUSLY

How A Chemist's "Poison Squad" Won the Battle for Food Safety in the US

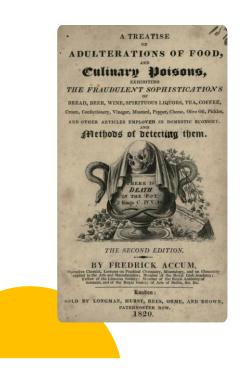
## **American Chemical Society**



February 15, 2024 Deborah Blum KSJ@MIT









•But starting in the 1820s...

#### 29

## And in the U.S., starting in 1883

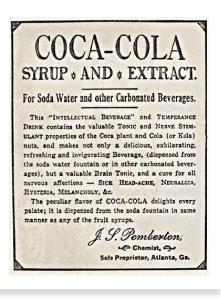




• Unregulated Narcotics



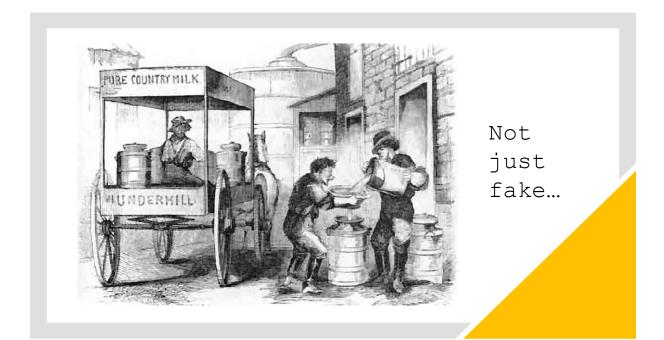
## Medicated soft-drinks



















#### EMBALMED MILK IN OMAHA.

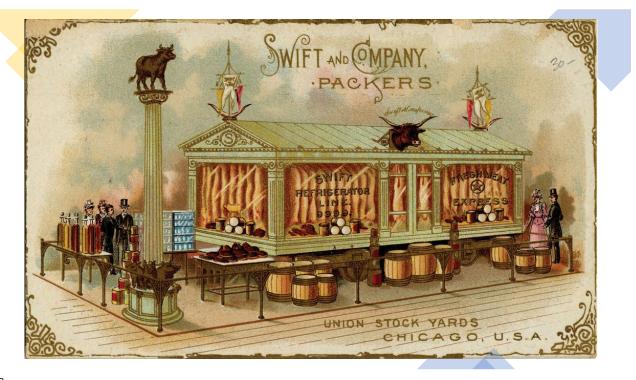
OMAHA. Neb., May 29.—In view of the discovery of the use by dairymen of em-balming fluid to prevent their milk from spolling, the city Health Department has warned all families, as far as possible, to

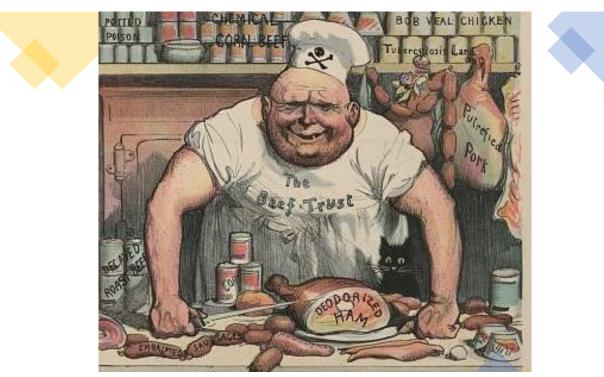
spoiling, the city Health Department has warned all families, as far as possible, to cease the use of milk and cream furnished by local dairies for the present. A patent embalming fluid known to the drug trade as preservaline is the chemical used. Its composition is a mystery, but physicians as-sert that it is poison, and quite fatal to children. This fluid is sold at \$3 a gallon. It is estimated that ten gallons of the chemical is used daily in Omaha, a spoonful being all that is required to prevent ten gallons of milk from spoiling for several days. It is tasteless, though a blue sedi-ment is left in the bottom of the cans used which is decidedly unpalatable in appear-ance. The dairymen deny that they are using the drug, but the city Health Department has investigated the situation and alleges that every dairy of any size in the city is using preservaline. There is no law, other than the one prohibiting in a general way the adulteration of food, that can be invoked to prevent the dairymen from doing this, and cream, except when obtained from sources other than the regular dairies.

The New York Times Published: May 30, 1899 Copyright © The New York Times

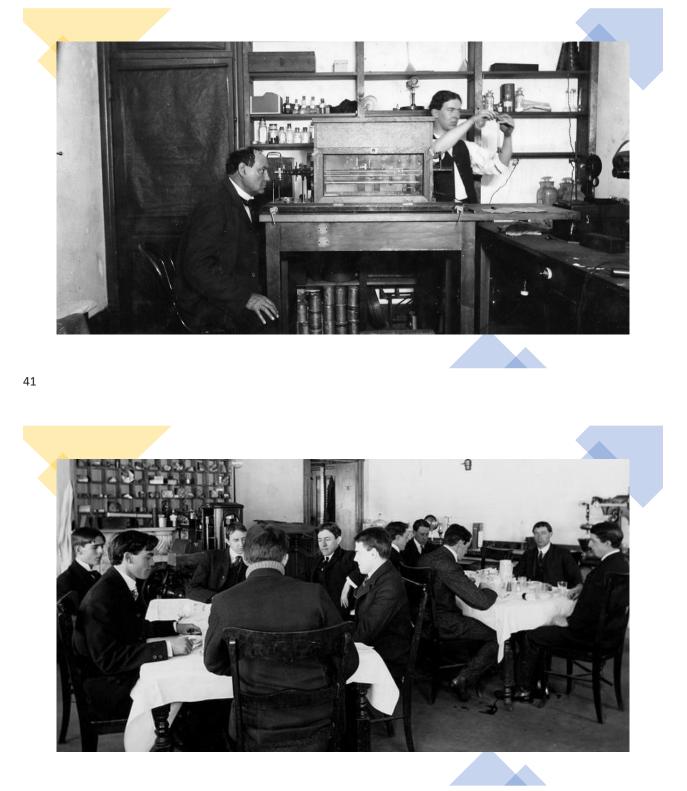








2/15/2024





MUTTINS and DUT I LIKE IL.

## PRESERVATIVES JARRED THEM

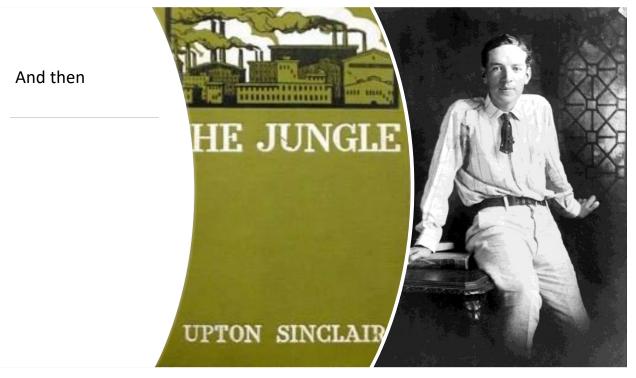
Prof. Wiley Held the Microscope While the Voluntary Victims Wriggled— Little Mary Far from Strong.

Special to The New York Times.

WASHINGTON, May 21.—The young men who have been eating polsons under the direction of the Ágricultural Department and the immediate administration of Prof. Wiley, since January last, have been graduated, so to speak, and to-day resumed the diet of the ordinary person.

Some of the so-called "poison squad" of a dozen men have suffered in the course of the experiments on their digestive organs. The ill effects of eating drugs used in preserving articles of diet are said to be visible on all members of the squad, and one or two of them appear to be on the verge of breaking down. Two of the young men free from Georgetown University One is



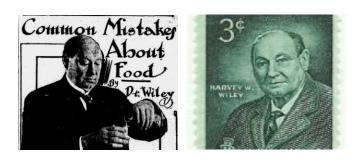




ACS Webinars

## The first consumer protection laws

- The Meat Inspection Act
- The Food and Drug Act
- 1906



47







ANSWER THE QUESTION ON THE INTERACTIVE SCREEN IN ONE MOMENT

## What influential traveling exhibit in 1933 served to highlight about 100 dangerous, deceptive, or worthless products that the FDA lacked authority to remove from the market?

- American Horror Story
- American Chamber of Horrors
- The FDA Fright Show
- Wiley's Weird and Wonderful

https://www.fda.gov/about-fda/fda-history-exhibits/80-years-federal-food-drug-and-cosmetic-act

\* If your answer differs greatly from the choices above **tell us in the chat!** 



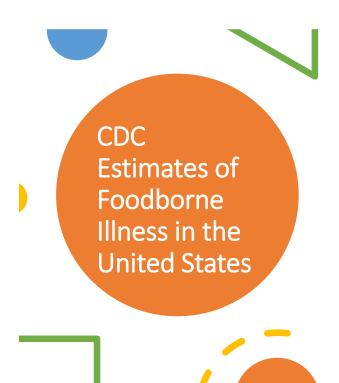
## Implications for Food Safety Today

#### U.S. Department of Agriculture (USDA)

- FSIS inspects about 6,400 establishments (roughly 10-20% of U.S. food supply)
- Meat and poultry animals and products undergo continuous (i.e., 100%) inspection
- FY2019 Appropriations: \$1,049.3 million

#### Food and Drug Administration (FDA)

- FDA inspects more than 300,000 domestic and foreign food facilities (roughly 80-90% of the U.S. food supply)
- 2% of all food import lines being physically examined
- FY2019 Appropriations: \$1,052.3 million



• An estimated (90 percent confidence) interval of 47.8 million illnesses a year.

• Of those, 9.4 million can be attributed to 31 known pathogens (i.e. listeria, salmonella).

• And the remaining 38.4 million are attributed to "unknown causes."

# THE AMERICAN PEOPLE HAD NO IDEA WHAT THEY WERE EATING THE POISON SQUAD



2/15/2024

53







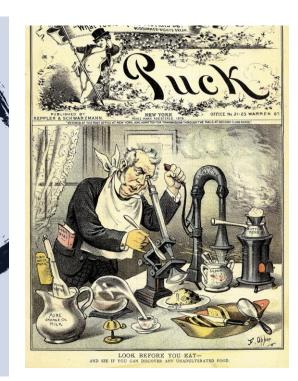
Audience Survey Question Answer the question on the interactive screen in one moment

### What scandal helped inspire the 2011 Food Safety Modernization Act?

- Listeria outbreak of 64,000 lbs. of chicken/pork products packaged with broccoli in California
- 131,000 lbs. of pizza products recalled because wheat was not declared on the label in California
- 377,775 lbs. of ground beef products that were contaminated with E. coli in California
- The egg recall of 550 million eggs in 22 states that caused over 1,500 salmonella cases

https://www.fda.gov/about-fda/fda-history-exhibits/80-years-federal-food-drug-and-cosmetic-act

\* If your answer differs greatly from the choices above **tell us in the chat!** 



## Thank you!

Deborah Blum https://deborahblum.com https://ksj.mit.edu https://undark.org



## **ACS Division of the History of Chemistry**

http://acshist.scs.illinois.edu



## WHAT HIST DOES

- Publishes the *Bulletin for the History of Chemistry* twice a year (included in HIST membership)
- Organizes symposia at two national meetings per year as well as regional meetings. Members can present, attend, and network with chemists and historians



Bellen	Gruppo I. 	Grappo 11.	Grappo III. R'0*	Gruppe IV. RE <sup>s</sup> BD <sup>s</sup>	Grupps V. BE <sup>a</sup> R <sup>a</sup> O <sup>a</sup>	Grappo VI. BII* RO*	Grappo VII. HE H <sup>4</sup> D <sup>4</sup>	Grappo VIII. RO4
1	H=1							
2							F===19	
3	Nam 12							
				Ti 48				Fam56, Com58, Nim56, Com63.
5	(On=63)	Zn==65		-=12	As= Tf	Se=78	lie== 50	
6	3h 95	Br=97	PT1 88	Ze - 90	Kb==14	Ma 16	-m100	Ilu=104, Eh=104, Fd=106, Ag=108
7	(Ag=108)	C2=+112	In == 113	Se=118	Sh== 122	Tem 125	3=127	
8	Ceso 125	Da== 197	7Dl→126	7Ce-==140	-	-	-	
9	()			- 1	-	-	-	
20	-	-	7Ec=178	7La-180	Ta== 183	W=184	-	Os=195, Ir=197, Pir=193, Au=193.
11	(An=199)	ifig== \$00	71 -= 904	25-207	III	-	-	
12	-	-	-	Th-= 221	-	U=240	-	

Presents awards recognizing outstanding scholarship in history of chemistry (*Joseph B. Lambert HIST award and Paul R. Jones outstanding paper award*) and breakthrough publications in chemistry (*Citation for Chemical Breakthrough awards*)

## WHY BECOME A HIST MEMBER!

- Receive the Bulletin and the Divisional Newsletter (including abstracts of HIST symposia)
- Opportunity to serve on awards and leadership committees to shape the future of history of chemistry







www.acs.org/acswebinars





Wednesday, February 21, 2024| 2-3:30pm ET Immuno-oncology: Big Data Insights in the Quest to Cure Cancer Co-produced with CAS, a division of the American Chemical Society



Thursday, February 22, 2024 2-3pm ET The GLP-1 Revolution: From Diabetes and Obesity to Alzheimer's and PCOS

Co-produced with the Science History Institute



Wednesday, February 28, 2024 2-3:30pm ET

Harnessing the Power of Natural Polymers

Co-produced with the ACS Green Chemistry Institute

Register for Free

Browse the Upcoming Schedule at www.acs.org/acswebinars





www.acs.org/acswebinars



## Learn from the best and brightest minds in chemistry!

Hundreds of webinars on a wide range of topics relevant to chemistry professionals at all stages of their careers, presented by top experts in the chemical sciences and enterprise.



LIVE

### **Edited Recordings**

are an exclusive benefit for ACS Members with the Premium Package and can be accessed in the ACS Webinars<sup>®</sup> Library at <u>www.acs.org/acswebinars</u>

#### **Live Broadcasts**

of ACS Webinars<sup>®</sup> continue to be available free to the general public several times a week generally from 2-3pm ET. Visit <u>www.acs.org/acswebinars</u> to register\* for upcoming webinars.

\*Requires FREE ACS ID

59



ACS Webinars<sup>®</sup> does not endorse any products or services. The views expressed in this presentation are those of the presenter and do not necessarily reflect the views or policies of the American Chemical Society.

Contact ACS Webinars® at acswebinars@acs.org

