

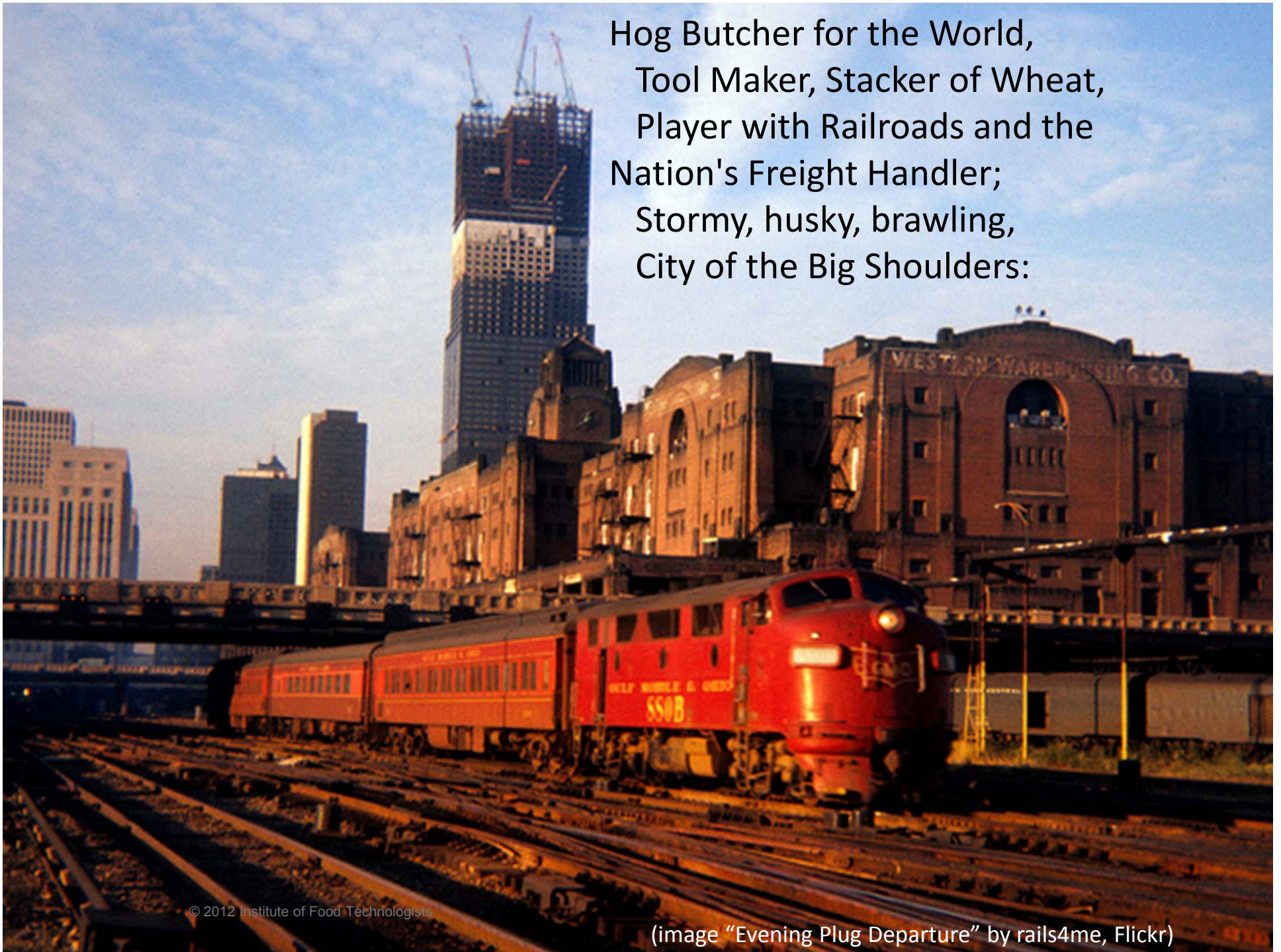
Being Proud of Food Science

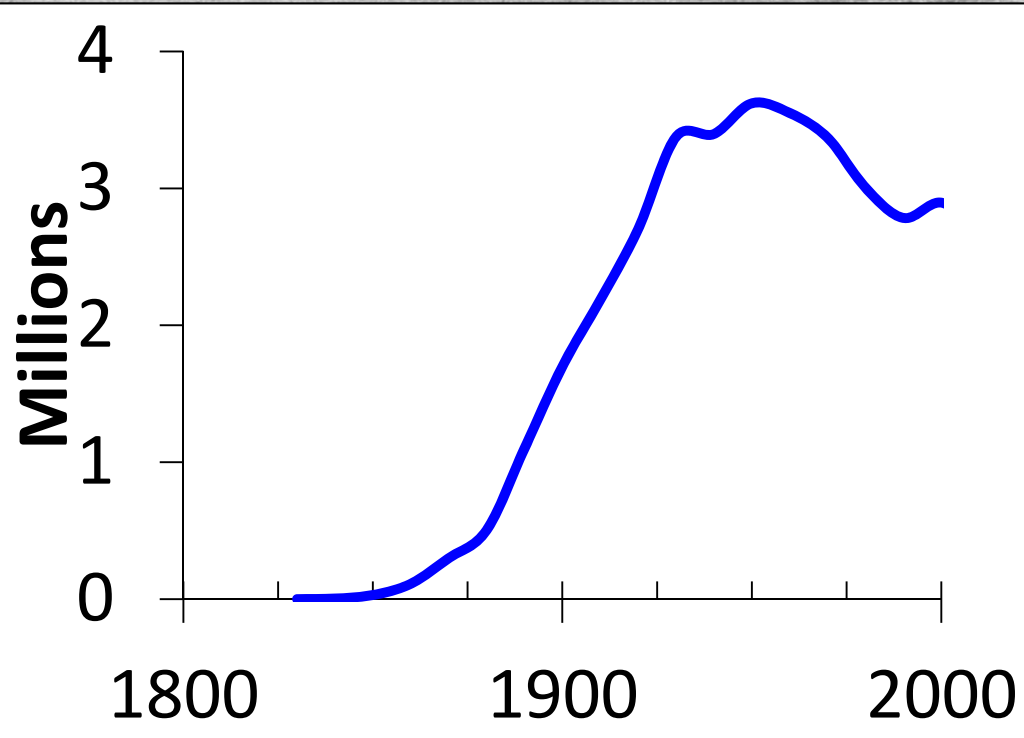
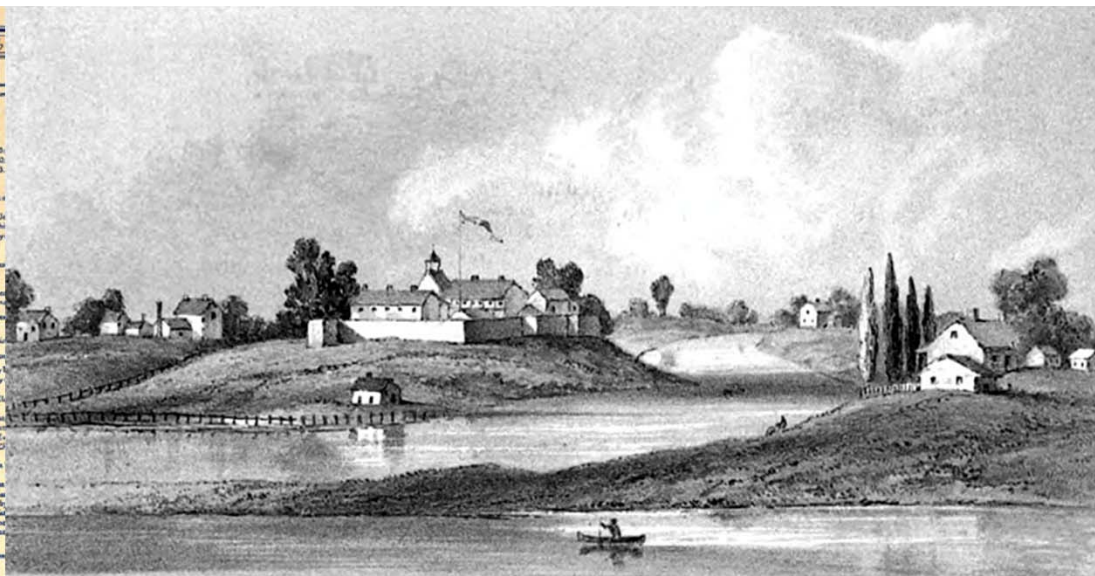
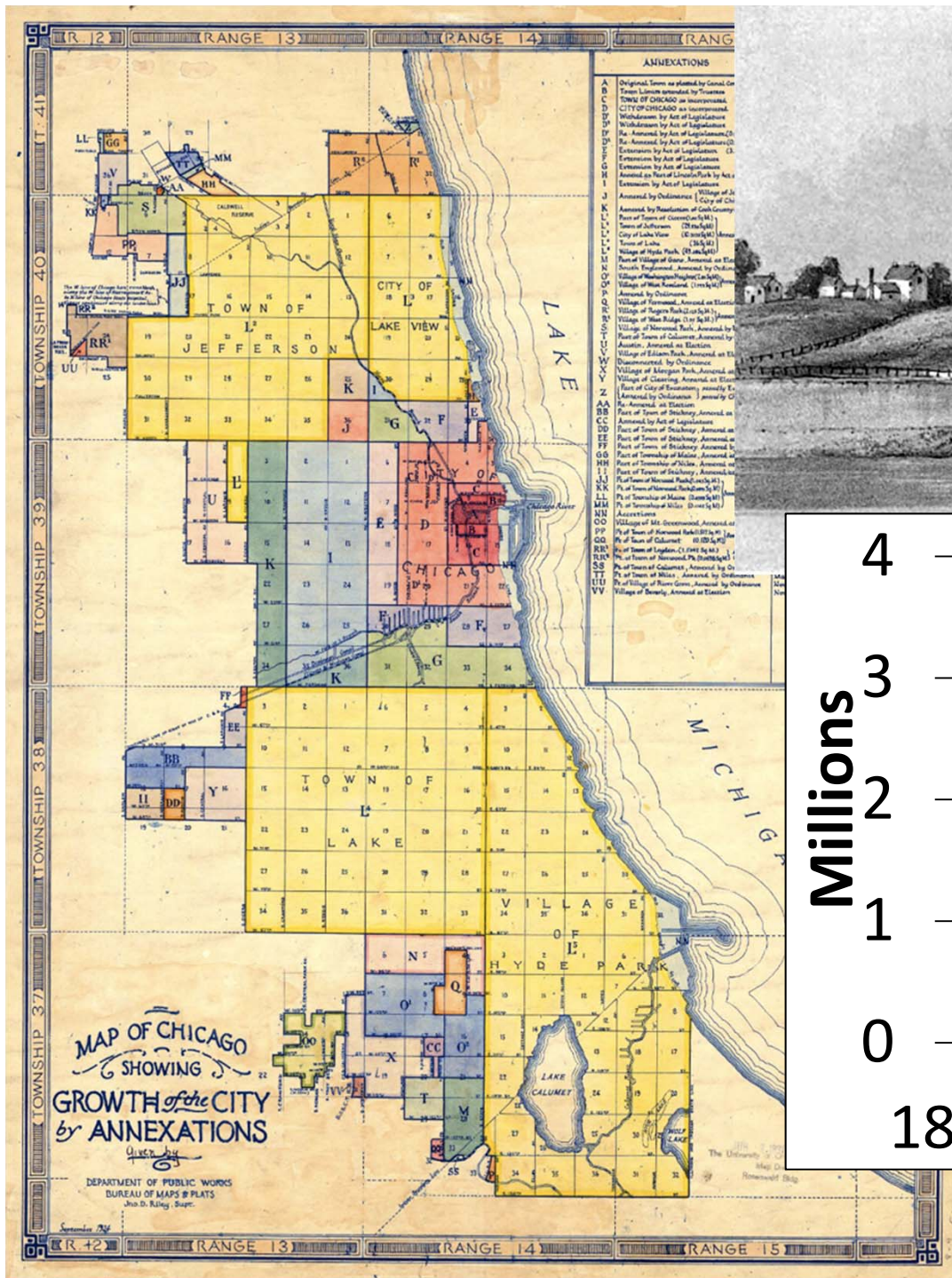
a CHICAGO Story

John Coupland
IFT President Elect
September 2015

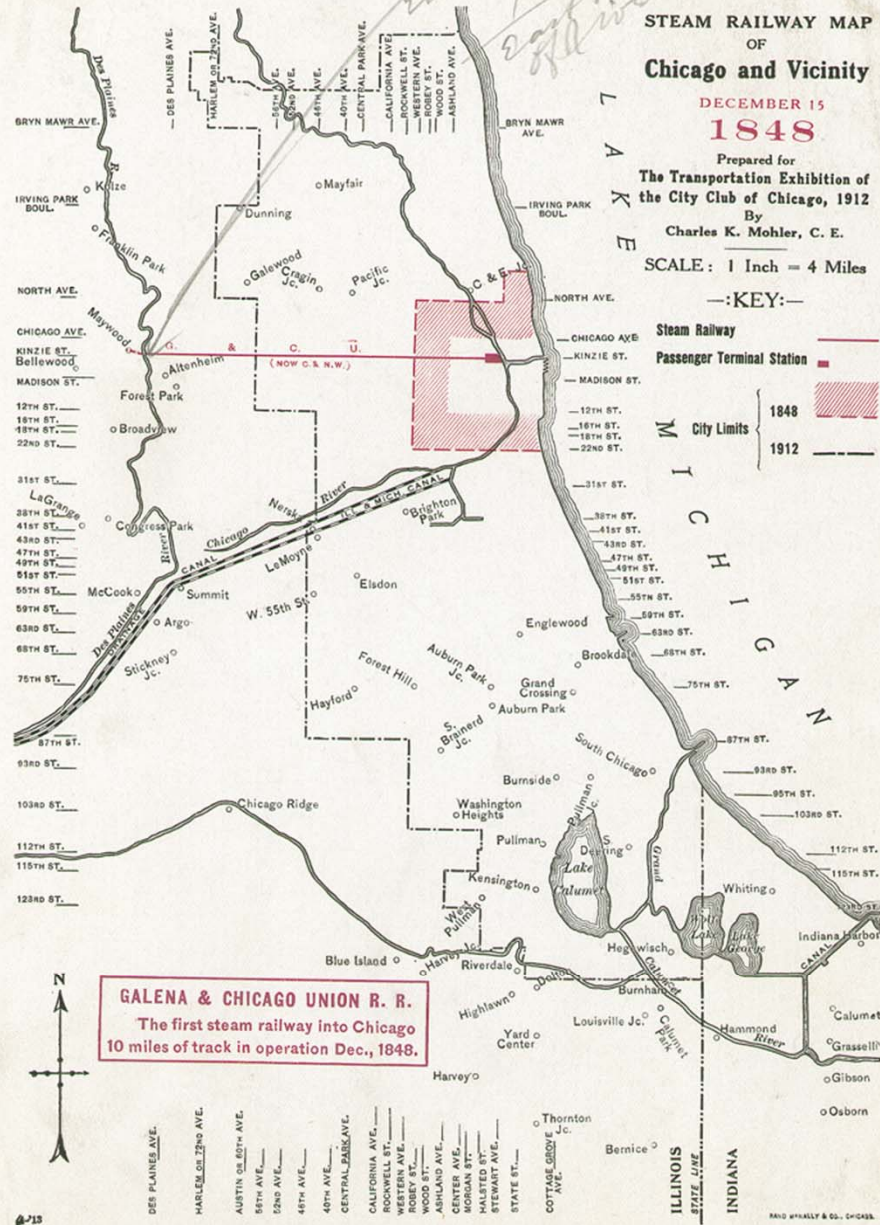


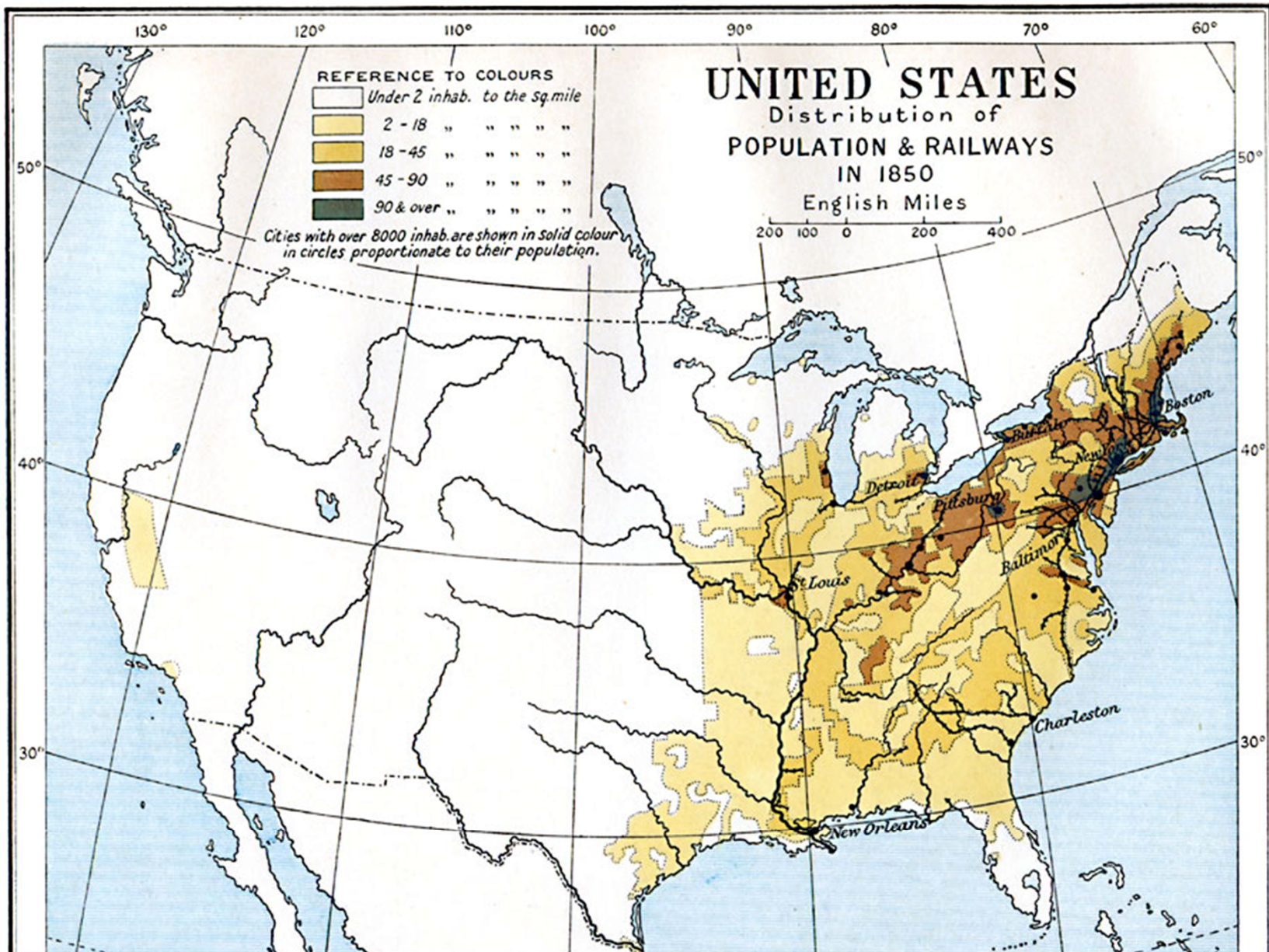
Hog Butcher for the World,
Tool Maker, Stacker of Wheat,
Player with Railroads and the
Nation's Freight Handler;
Stormy, husky, brawling,
City of the Big Shoulders:

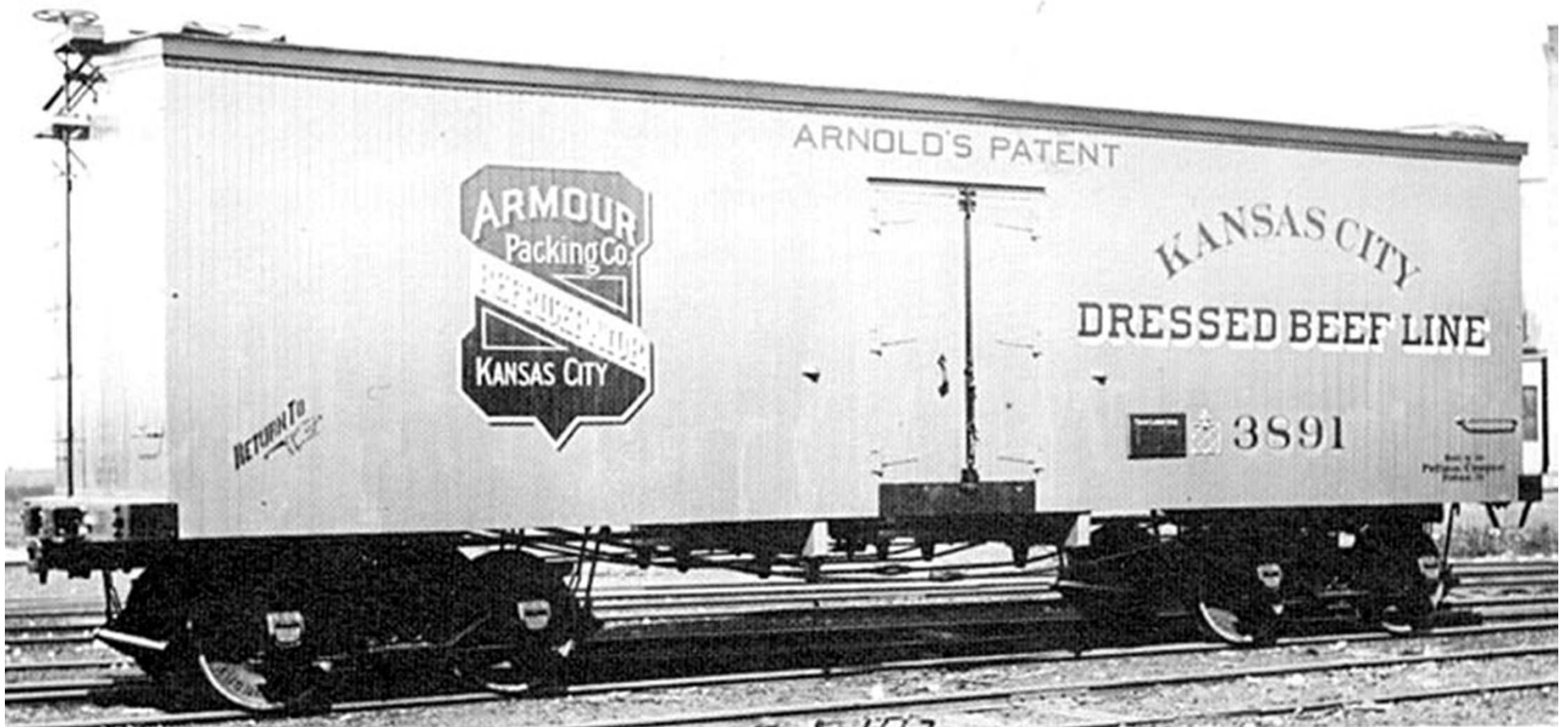




Chicago Department of Public Works, Bureau of Maps and Plans
Drawing of Fort Dearborn in 1830 (Juliette Kinzie)







Armour Refrigerated Car, Kansas City, 1885



<https://chicagology.com/stockyard/>





<https://eastsidehistory.wordpress.com/2013/11/13/saturday-nov-16-history-of-oscar-mayer-foods/>



I will call
prepared to
take orders
for

**Uneda
Biscuit**

and other



Crackers
on or about

Resp'fully
yours

Through THE NATIONAL MEAT COMPANY

NATIONAL BISCUIT COMPANY





© 2012 Institute of Food Technologists

<http://www.courthousesquare.net/postcardnews.vol5no9.htm>



What did Chicago do to American food?

- Vertical integration – trusts
- Complex organizations
- Mass market
- Use of byproducts
- Brands
- Efficiency improvement
- Variety improvement
- Profound disconnection from production and unease



Armour plant and stockyards 1910

PUBLISHED EVERY SATURDAY

FOR THE OWNERSHIP OF EARTH AND THE FULLNESS THEREOF BY ALL THE PEOPLE AND NOT BY PART OF THE PEOPLE.

The Appeal is never sent on credit; if you receive it, it is paid for. Nobody owes a cent on subscription. It is printed at Girard, Kansas. Postoffice as second-class mail matter.

FIVE DOLLARS A YEAR.
Six Months 25 Cents.
Circles of four or more 25 cents.
For 100 Copies 50 Cents.

Appeal to Reason.

This is Number 452


IF NUMBER 452 IS ON YELLOW LABEL YOUR TIME EXPIRES WITH THE NEXT ISSUE.


J. A. Wayland. 17678, Kansas, U. S. A., February 25, 1905.

Statement of the Appeal Publishing Co.

Cash on hand Feb. 4, 1905 \$100.00
 Subscriptions receivable Feb. 11, 1905 \$100.00
 Accounts receivable Feb. 11, 1905 \$100.00
 Cash on hand Feb. 11, 1905 \$100.00
 Total \$400.00

All money above stated showing expenses of the year will be paid to the subscribers on the next issue. This being for the year 1905.






THE JUNGLE

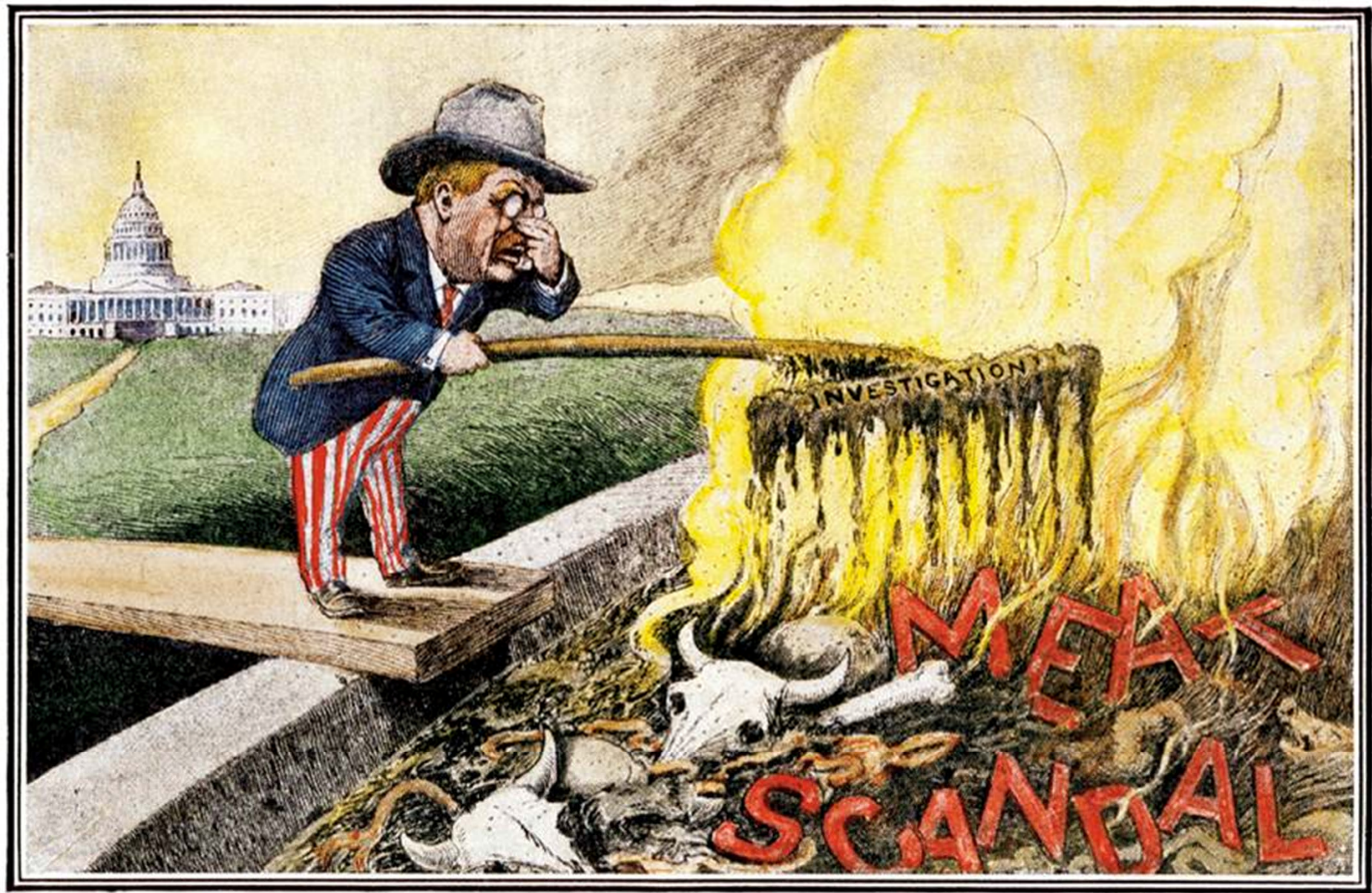
A STORY OF CHICAGO

(Copyright 1905, by Author.) BY UPTON SINCLAIR Author of "Mammon," "Prince Hogen," Etc.



There were the "hoisters," as they were called, whose task it was to press the lever which lifted the dead cattle off the floor. They ran along upon a rafter, peering down through the damp and the steam; and as old Durham's architects had not built the killing room for the convenience of the hoisters, at every few feet they would have to stoop under a beam, say four feet above the one they ran on; which got them into the habit of stooping, so that in a few years they would be walking like chimpanzees.





A NAUSEATING JOB, BUT IT MUST BE DONE

(President Roosevelt takes hold of the investigating muck-rake himself in the packing-house scandal.)

Responses to Sinclair

- Sinclair and his goals
- Roosevelt and muckraking
- Resistance from Bureau of Animal Industry
- Neill Reynolds visit
- Visit from Doubletree lawyer
- 1906 Pure Food Act and Federal Meat Inspection Acts(FDA founding)
- Sinclair was not happy

THE WORLD

Rethinking the Meat-Guzzler



Gary Kazanjian for The New York Times

HERE'S THE BEEF This feed lot in in California can accommodate up to 100,000 head of cattle.

By **MARK BITTMAN**

Published: January 27, 2008

foodways

Why Slave Labor Still Plagues The Global Food System

JUNE 20, 2013 1:04 PM ET

ELIZA BARCLAY



Workers process shrimp at a factory in Thailand in 2009.

Chumsak Kanoknan/Getty Images

T

TOM PHILPOTT
→ Food and Ag

PREVIOUS | NEXT

A Peek Inside an Industrial Chicken Slaughterhouse

—By *Tom Philpott* | Tue Sep. 15, 2015 6:00 AM EDT



Email



16

ALDF Investigation Exposes Tyson Cruelty



"AUTUMN"

UNDERCOVER INVESTIGATOR

ANIMAL LEGAL DEFENSE FUND



0:29 / 3:19



YouTube



SUBWAY: Stop Using Dangerous **Azodicarbonamide** in Your Bread!



Azodicarbonamide is the same chemical used to make yoga mats and shoe rubber. It's banned all over the globe because it's linked to respiratory issues, allergies and asthma. **This is not eating fresh!**

North America

VS

UK, EU, Australia

Subway uses **Azodicarbonamide** in their 9-Grain Wheat, 9-Grain Honey Oat, Italian White, Italian Herbs & Cheese, Parmesan/Oregano, Roasted Garlic, Sourdough, and Monterrey Cheddar breads.

Subway **does not** use Azodicarbonamide in other countries.



We deserve the same safe ingredients that Subway uses around the world.

SIGN THE PETITION: foodbabe.com/subway
#NoWaySubway

Must Reads: Women Lost the War on Women | We Need a Men's Rights Movement? | Shake Cell Phone Addiction

TOM PHILPOTT

→ Food and Ag

[PREVIOUS](#) | [NEXT](#)

Niman Ranch Pork: Now Brought to You by Perdue

—By *Tom Philpott* | Wed Sep. 9, 2015 2:29 PM EDT

Email



8



Jack Chahnezowski/Shutterstock

We face a growing challenge to feed nearly **7 billion** people today...

The expected population growth to **9 to 10 billion** people by 2050...

More wealth – more meat

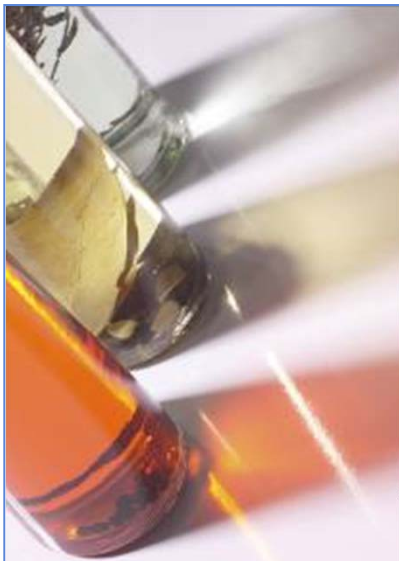
...**food science and technology will have to provide critical solutions.**



IFT's Vision & Mission

IFT is dedicated to advancing the science of food and its application across the global food system

Ultimately, we envision a world where science and innovation are universally accepted as essential to a safe, nutritious, and sustainable food supply for everyone



Develop:

Advance and Promote
Careers in the Science of Food



Network:

Establish Productive and
Interactive Global Networks



Innovate:

Promote Science, Technology
and Their Application



Advocate:

Address Issues and
Influence Outcomes



STRATEGIC PRIORITIES

How IFT has been telling our story about an optimistic future based on science...



**Food Science is
Required to
Feed this World's Future
Populations**



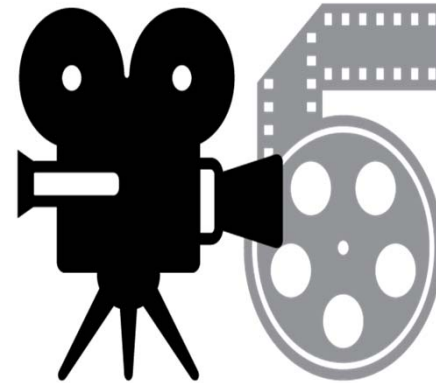
The Science of Food as a Solution?



- **Two celebrations triggered a new idea...**
 - How do we feed 9 billion people by 2050?
 - How do we tell our story based on science?
- **FutureFood 2050 Program**
 - 75 interviews: Establish a long-term link between both anniversaries
 - Create a steady stream of promotions
 - Work with documentary director



75 interviews



Documentary



Publish 4-5 per
month from 2014 –
2015



Translate the core
themes to the film and
produce a documentary
on how we will feed the
world sustainably.

FUTURE FOOD

FEATURED INTERVIEWS



07/16/2014 BY SARAH DILORENZO

Why Senegal is banking on processed foods

THIS MONTH'S INTERVIEWS

Fighting for African food security

Peanut butter that saves lives

Investing in Africa's Green Revolution

Making good nutrition more accessible in Africa

The politics of food technology innovation for Africa

Why Senegal is banking on processed foods

1 2 3 4 5 6

FOOD SECURITY AND NUTRITION IN AFRICA

The latest FutureFood 2050 article series takes a closer look at **food security and nutrition in Africa**. Each interview presents a scientific, entrepreneurial, and cultural perspective on the challenges Africa is facing. Hear from influencers who are working to overcome low agricultural yields, lack of technology and other difficulties that are leading to food insecurity and poor health in the region. These articles share a vision for successful smallholder farms, increased investment, and cultural and policy shifts leading to the production of nutritional foods as key solutions for Africa to achieve food security. In addition, these experts believe that by addressing these challenges, Africa can not only feed itself but it can also produce enough surplus food to expand its role in the global food economy.

WSFEED

g+ in

Q

ublished
,
Each
allenge
ized
feeding
:he
s are at
this very
ping new
lates,
, feed,
tools and
d cities.
ng their
xplore
will feed
)

15
MUST READ
ARTICLES

HOME

TRENDING

SUSTAINABILITY



1 DAY AGO BY LISA PAL

Innovat for glob solution

THE INTERVIEWS

POPULAR FEATURES



07/16/2014

Fighting for African food security

Successful smallholder farms, scaled-up investment, and nutrition-friendly public policies are crucial to boosting Africa's food supply in the



07/16/2014

Peanut butter that saves lives

Pediatrician Mark Manary sees more widespread uses for his pioneering peanut butter supplement that treats severe malnutrition in children



07/16/2014

Investing in Africa's Green Revolution

Food scientist and executive Jane Karuku is leading the way for a broader look at adding value to Africa's crops.

FEATURED INTERVIEWS

- Food Security and Nutrition in Africa
- Food Waste
- Women in Food Science
- Forward Thinkers

IFT Section Events

CHICAGO SECTION EVENT

- Scott Hamilton Kennedy participated in the Chicago Section “Movie Night” event, on Thursday, March 19 at Kendall College. The event focused on a screening of “The Garden,” and a Q&A with Scott following the film.



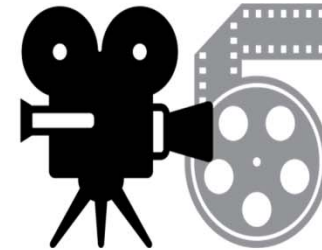
NEW YORK SECTION EVENT

- The New York Section Supplier’s Day on Tuesday, April 14 was a success. The 90-minute New York Section panel discussion focused on the perceptions and misperceptions behind science and food. Panelists included: Kaitlin Yarnall of *National Geographic* magazine, Rickey Yada of the University of British Columbia, Marie Wright of Wild Flavors, and Julie Meyer of Eat Well Global moderated the event.



FUTUREFOOD 2050

The Documentary: Scott Hamilton Kennedy



"The difference between old and new, and the rapidity with which changes from the old to the new have had to be made is often forgotten by the supersensitive person to whom the sight of raw meat is not pleasing."

"...you are cordially invited to see for yourself how the hated packer takes care of your meat-supply."

"...most large packers, maintain a force of scientific men who are engaged in original research and experiment. An important


"I repeat: In Armour and Co.'s business not one atom of any condemned animal of carcass finds its way, directly or indirectly, from any source, into any food product of food ingredient."

experts is to test that every producing articles of regard the article so

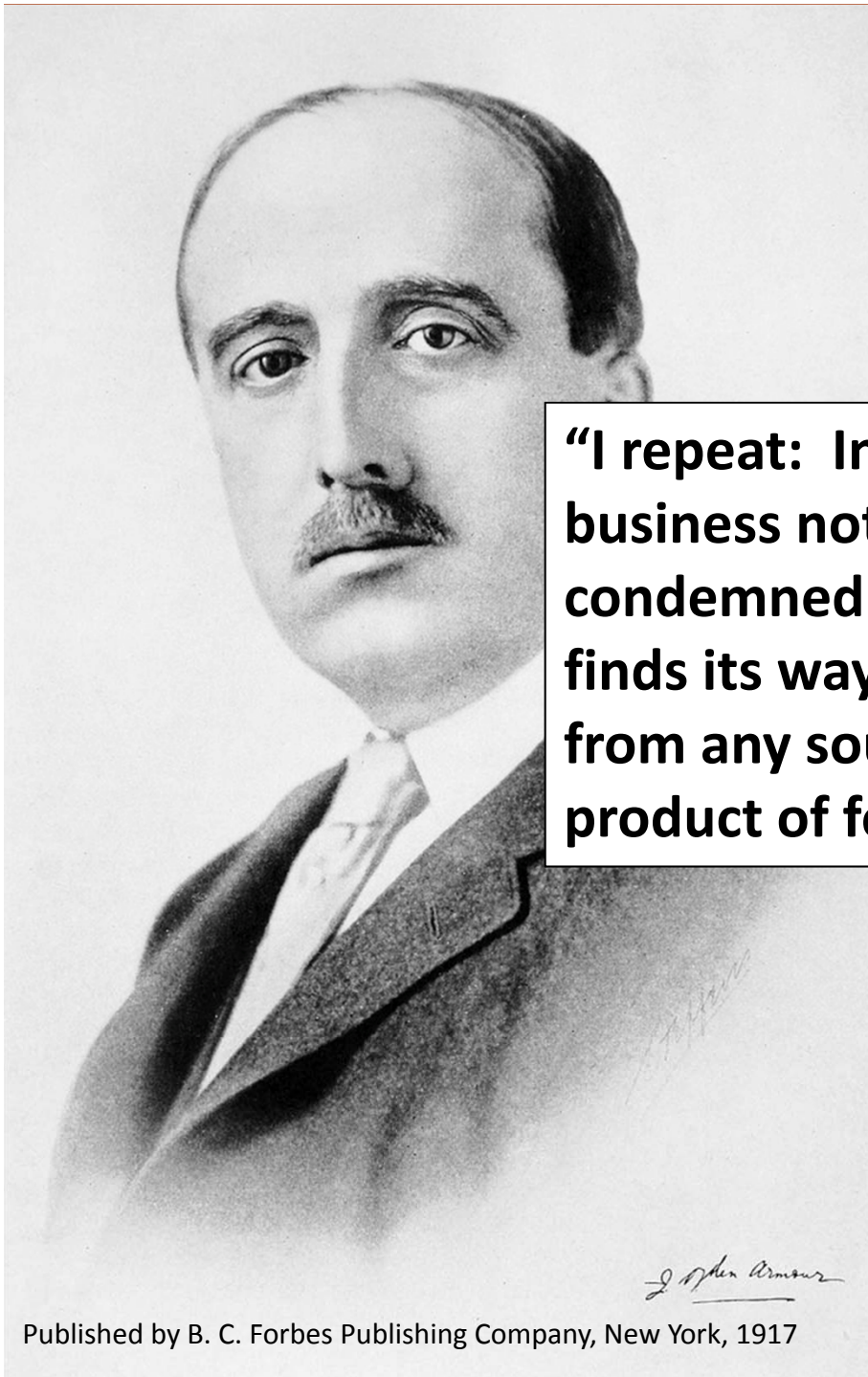
now aimed at either becomes law, there

"Ultimately a good many people will believe anything that is persistently told them, particularly if it is about a corporation

is no question that the men who are pushing it will have the satisfaction of having dealt a heavy blow to the packer and to two great industries which have done more, I believe, than any other two industries to give the whole people the cardinal comforts of good living; wholesome fresh meats and fresh fruits and vegetables."



J. Ogden Armour

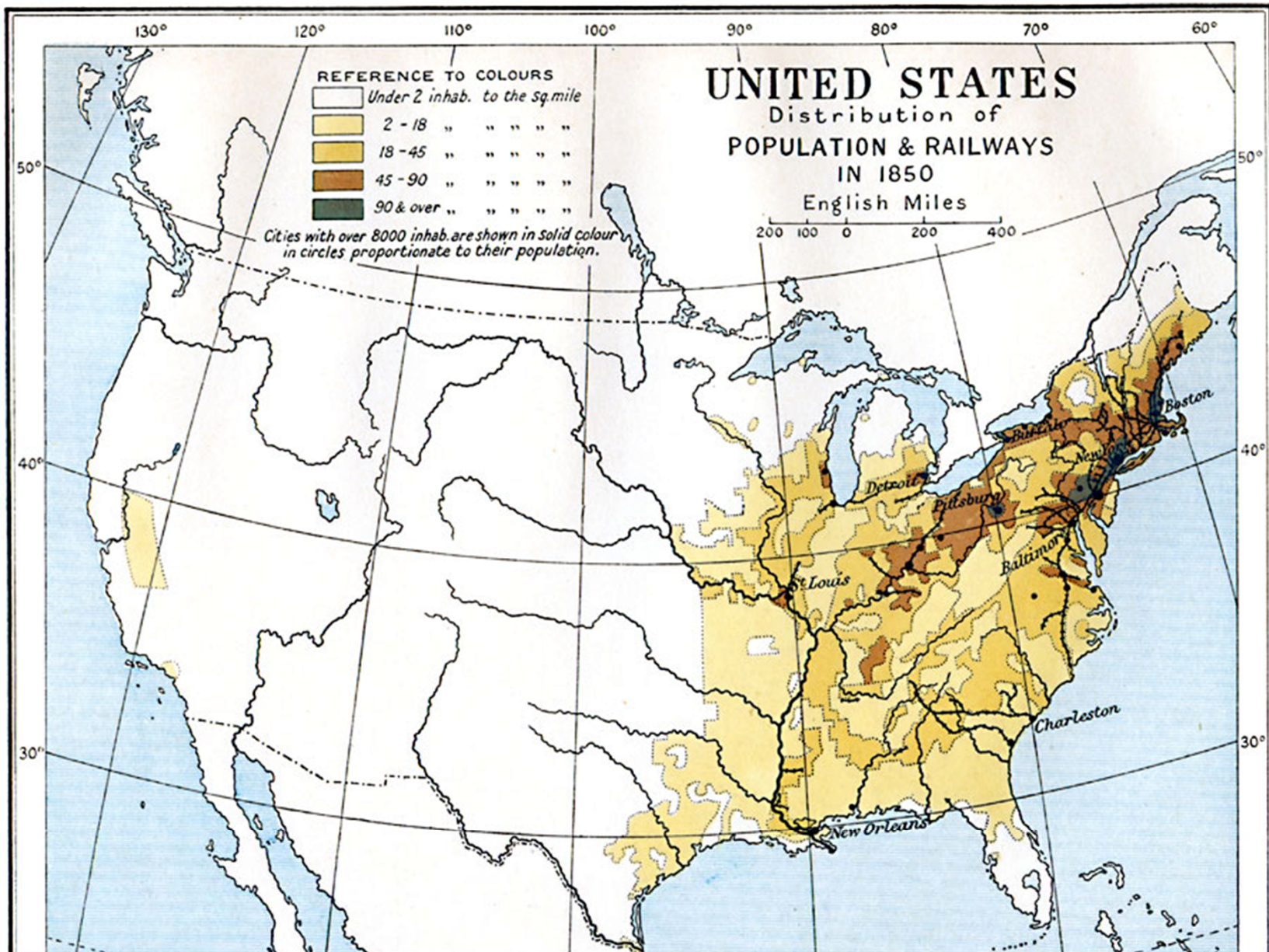


“I repeat: In Armour and Co.’s business not one atom of any condemned animal or carcass finds its way, directly or indirectly, from any source, into any food product or food ingredient.”

Published by B. C. Forbes Publishing Company, New York, 1917

<http://henryaltemus.com/blog/?m=201409>

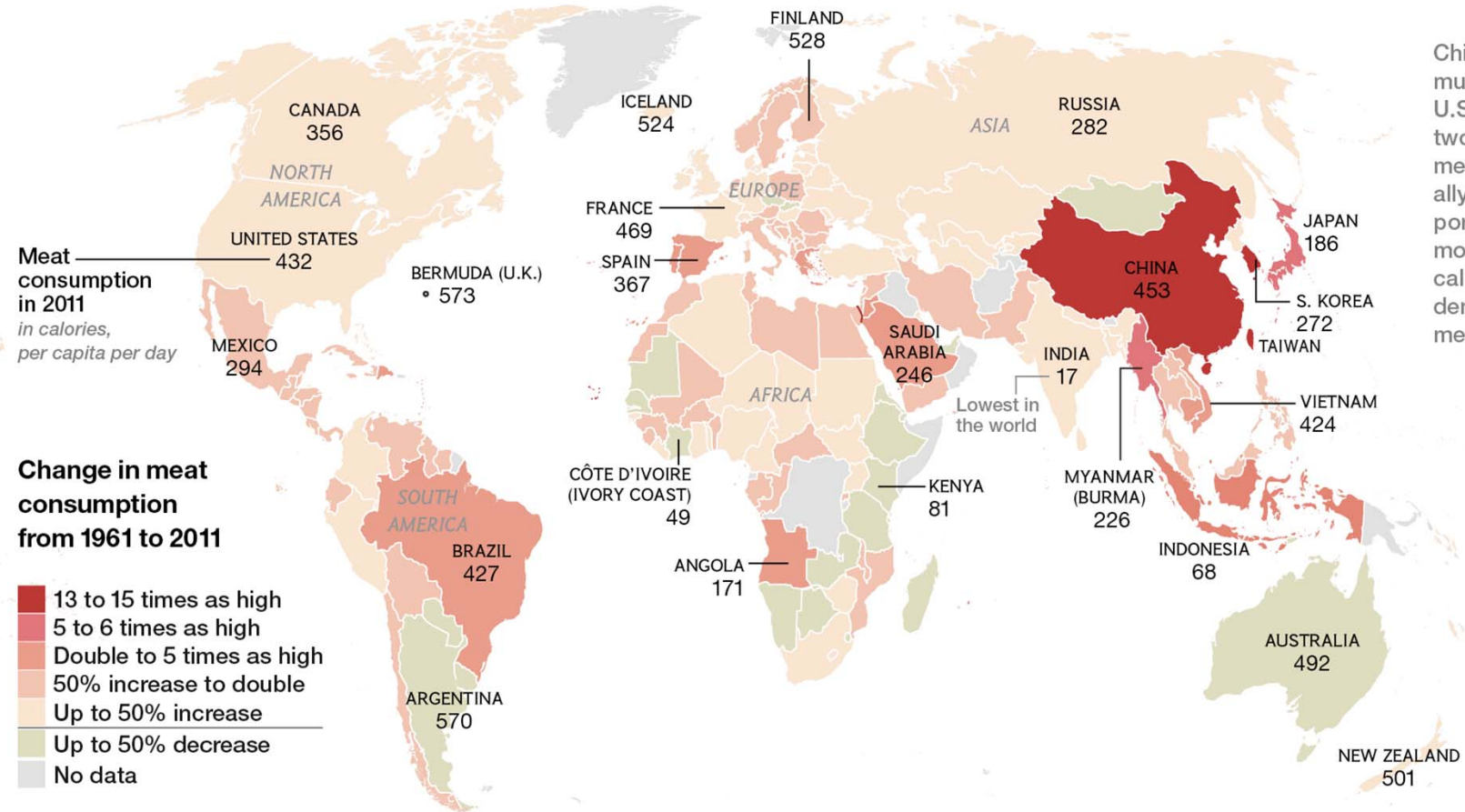
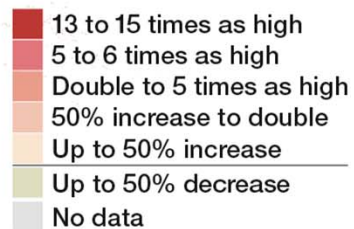




Ward, Prothero, and Leathes, The Cambridge Modern History Atlas (New York, NY: The Macmillan Company, 1912) <http://etc.usf.edu/maps/pages/7400/7492/7492.htm>

Meat consumption in 2011
in calories,
per capita per day

Change in meat consumption from 1961 to 2011



China eats half as much meat as the U.S., but because two-thirds of its meat has traditionally been high-fat pork, it consumes more total meat calories. Now demand for leaner meat is rising.



J. Allen Armour

Published by B. C. Forbes Publishing Company, New York, 1917

Bain Collection - Library of Congress 1409

Our Vision



*A world where science and innovation
are universally accepted as essential
to a safe, nutritious, and sustainable
food supply for everyone*



Institute of Food Technologists

Headquarters

525 W. Van Buren Street
Suite 1000
Chicago, IL 60607
312.782.8424
ift.org

Washington, D.C. Office

1025 Connecticut Avenue, NW
Suite 503
Washington, D.C. 20036
202.466.5980
ift.org

