

The Glattfelders and Their Patents - Part 2

**The second in a series on the Glattfelders
and their many patents**

Glattfelder



Glattfelders and Their Patents

- Harry F. Gladfelter

- Creator of The Glattfelders and Their Patents.
- Started it all by finding Wiltie I. Gladfelter by accident and searched for more.
- Have been researching the topic for more than three years.
- Program host for Round Two in Twenty-two.
- Greetings from all who have contributed.



Glattfelders and Their Patents

- The master presentation is now 70 slides long, up from 48 slides last year, and includes some of the slides that were presented at last year's reunion.
- More inventors are individually featured.
- Last year, we touted 43 inventors. This year, we have indentified 65 family members who have patents as we have included inventors with all of the family names.
- We also included descendants of Casper's brother Johann Peter.
- We have identified over 250 individual patents, over a span of 142 years, and all descendants of Casper Glattfelder's family.
Still Amazing!



Glattfelders and Their Patents

- Glattfelders, however they spell their name, are now spread throughout the United States.
- All Glattfelder patent holders are now recognized for their talents as innovators who have contributed to the progress of science in so many fields.



Glattfelders and Their Patents

- Update on last year's Speakers

- Harry F. Gladfelter - No patents pending and no new patents to report. However, Harry has worked through the year to find more inventors and learn more about them through computer study and interviews.
- Dr. Patricia J. Donaldson - Pat had one patent issued in Europe on 12/22/2021, *System and Method for Additive Manufacture of Chemical Delivery Devices Using Halftone Screening*.



Glattfelders and Their Patents

- Update on last year's Speakers

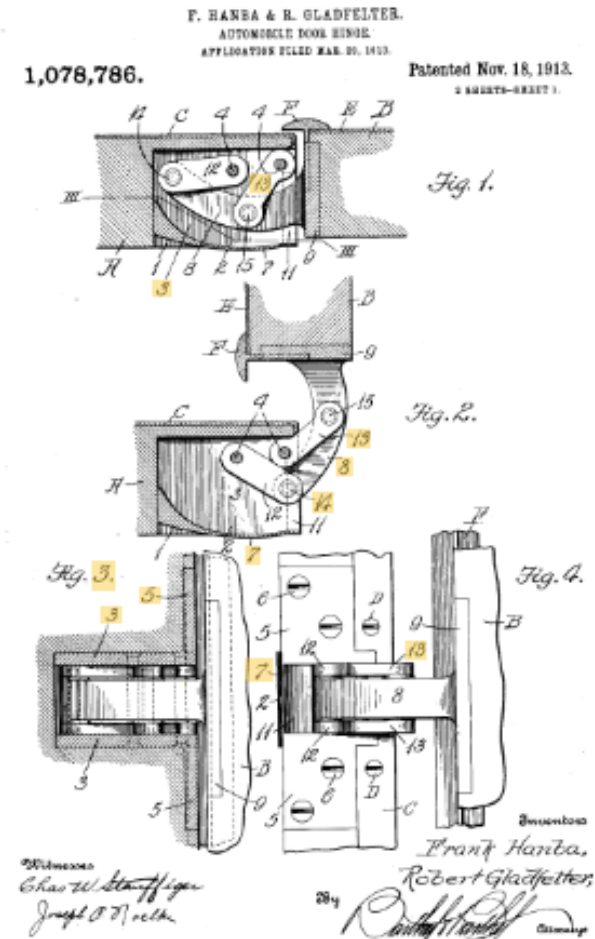
- John W. Glatfelter – Had eight patents issued since the last reunion, having had many pending before retiring from Boeing.
- Exciting is a patent that he and his son David P. Glatfelter had issued last year. That's 39 patents for John and No. 1 for David.
- Their patent issued on 5/19/2021, *Personal Global Positioning System (GPS) Security Token*.
- John is not here today but traveling for an Alaskan cruise. Safe trip to John and Bridget!



Glattfelders and Their Patents

- Newly Discovered Patent

- Robert Gladfelter - US 1,078,786
- Automotive Door Hinge
- Patent issued on November 18, 1913



Glattfelders and Their Patents

- Robert Gladfelter



1913 CHEVROLET CLASSIC SIX



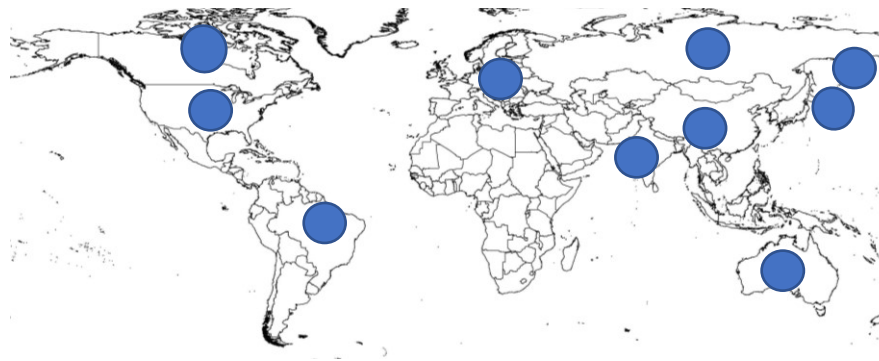
THE INFLUENCE OF THE CASPER GLATTFELDER LEGACY

250
US PATENTS

65
INVENTORS

15
FIELDS
OF STUDY

- MEDICINE
- ARBORIST
- AEROSPACE
- INFO TECH
- APPLIANCES
- PRINTING
- WIRING
- INSULATION
- AUTOMATION
- CYBER SECURITY
- CHEMISTRY
- SAFETY
- AUTOMOTIVE
- SOLAR
- FOOD



FILED IN
10
COUNTRIES

Glattfelders and Their Patents

- Featured Inventors not Present

- Kenneth A. Clatfelter – Five patents while working for the Campbell Soup Company.
- Nicolas F. Roth – Seven patents while working for Groupon.
- Dr. Karl H. Clodfelter – Five patents while working for Forma Therapeutics (Formally MapSol)



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Glattfelders and Their Patents

- Kenneth A. Clatfelter

- Kenneth A. Clatfelter has two patents for preparing chicken for commercial use, one for cooking all types of meat, and two for general food processing improvements.
- All five patents describe methods to improve cook time and cost.
- Ken worked for the Campbell Soup Company.



Glattfelders and Their Patents

- Kenneth A. Clatfelter

- At Campbell Soup Co., Ken worked as a food technologist, first at the Sacramento, Calif. plant and then at the research facility in Camden, N.J., where he was the manager of his department.
- Ken was born Dec. 8, 1921, in Wallowa, Ore., and attended New Plymouth High School in Idaho.
- He attended the University of Idaho and graduated with a BS in chemical engineering.
- He married Beulah Marie (Pope) in Pocatello, Idaho on Oct. 23, 1943.
- Moving to New Jersey, they lived in Moorestown and attended the Moorestown Bible Church there.



Glattfelders and Their Patents

- Kenneth A. Clatfelter

- They had two sons, Richard D. and Thomas E. Clatfelter, both were born in Idaho.
- Ken's final assignment with Campbell's was at their chicken processing plant in Fayetteville, Ark.
- Ken was also an Air Force Reserve officer and earned the rank of Lt. Colonel.
- He enlisted in the Army on Dec. 8, 1941, the day after Pearl Harbor on his 20th birthday.
- Was assigned to the 453rd Bomber Group as a navigator on a B-24. He served under Major James (Jimmy) Stewart.



Glattfelders and Their Patents

- Kenneth A. Clatfelter

- Ken and his crew were shot down on his 26th mission crashing in Almo, Sweden, where he and his crew were held as POWs until Swedish liberation.
- Ken died on Aug, 16, 1996 in Fayetteville, Ark., at the age of 74 and is buried at the Fayetteville (Ark.) National Cemetery.



Glattfelders and Their Patents

- Kenneth A. Clatfelter



Ken's B-24 Flight Crew, he's on the bottom row, second from the left.



Glattfelders and Their Patents

- Kenneth A. Clatfelter

Flight Jacket given to Ken
by his sons Richard D.
and Thomas E. Clatfelter
to honor their father.



Glattfelders and Their Patents

- Nicolas F. Roth

- Nicolas Roth has seven US patents while working for Groupon.
- His new software allowed clipping coupons on your mobile phone and redeeming them in stores.
- Nic was here at last year's reunion but didn't get to present.



Glattfelders and Their Patents

- Nicolas F. Roth

- Nic left Groupon to lead a technology division at a new financial/technology services company called Avant Credit.
- At Avant, he helped develop the first mobile app that allowed a user to open a loan or line of credit from their phone.
- He left Avant to join Vivid Seats, a leading marketplace for live event tickets.
- In an interview, Nic was called the next Steve Jobs! At some point, it's not impossible to see Nic forming his own company and making lots of money.



Glattfelders and Their Patents

- Nicolas F. Roth

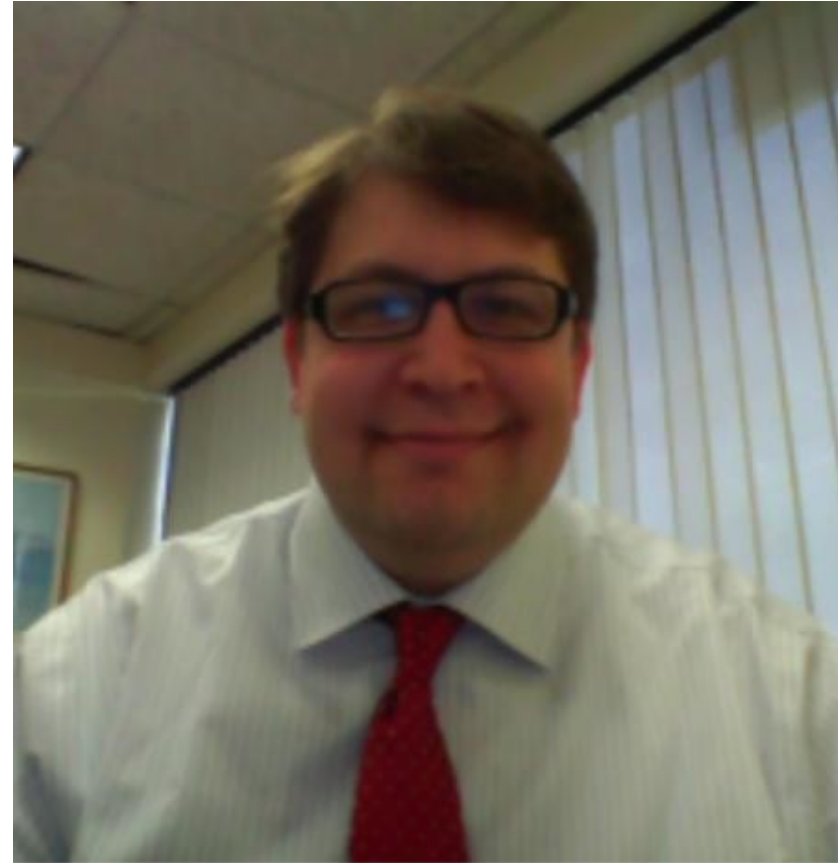
- Nic was born in Pensacola, Fla. in May 1992 and spent most of his childhood in southern Illinois living with his mother Laura and grandfather Cyril Glotfelty in Murphysboro.
- Nicolas currently lives in Nashville, Tenn. with his wife Victoria.
- He attended Northwestern University where he studied Computer Science and Entrepreneurship.
- He has Bachelor of Applied Arts and Sciences from the University of Pennsylvania.
- And he is currently pursuing a Master of Education degree from Harvard.



Glattfelders and Their Patents

- Dr. Karl H. Clodfelter

- Dr. Clodfelter is a Bioinformationist who is the Cloud Operations Manager working for Preservica Inc. in Boston, Mass.
- Karl has five US patents pertaining to the computational design, creation, and composition of potential chemotherapeutics (Chemotherapy).



Glattfelders and Their Patents

- Dr. Karl H. Clodfelter

- These drugs target NAMPT (Nicotinamide phosphoribosyltransferase), a protein used by some cancers to supply energy to their cells.
- Most genes encode proteins, and NAMPT is a protein found in a lot of cells in the body, but what's important about NAMPT is that some cancers can't live without it, whereas other cells can do fine without it for short periods of time, like during chemotherapy.
- Inhibition of NAMPT leads to "starving" the cancer cells, thus killing them.



Glattfelders and Their Patents

- Dr. Karl H. Clodfelter

- Karl has a BS in Molecular Genetics from the University of Rochester, with a minor in Chemistry.
- And holds a PhD in Bioinformatics from Boston University for the study of Cytochrome P450s.
- Cytochromes P450 (CYPs) are a superfamily of enzymes that oxidize steroids, fatty acids, and xenobiotics.
- Karl's was born in 1977 in Baltimore, and now resides in Boston.



Glattfelders and Their Patents

- Today's Featured Speakers

- Dr. Heather J. Gladfelter – Has two patents while working for the Mead Westvaco Corporation.



- Dr. Wayne L. Gladfelter – Has 6 patents while working for the University of Minnesota.



- Wayne will tell us about his wife, Dr. Elizabeth J. Gladfelter, who has 26 patents while working for Henkel Inc. and Ecolab Corporation.



Glattfelders and Their Patents

- Dr. Heather J. Gladfelter

- Heather is a research professional at the University of Georgia.
- She'll tell us about her patents.
- And tell us about what she is doing now.
- A little about herself.
- And something about her dad.
- Let's give a warm welcome to Heather Gladfelter



Glattfelders and Their Patents

- Dr. Heather J. Gladfelter

- Heather is a research professional at the University of Georgia.



- She was also a professor at Brenau University and co-director of the Endangered Plant Program there.



Glattfelders and Their Patents

- Dr. Heather J. Gladfelter

- Heather earned a PhD in horticultural science from the University of Georgia.
- She has an MBA from the University of Phoenix.
- She holds a masters and bachelors degree in horticultural science from New Mexico State University.
- Her US patent tells of an enhanced transformation and regeneration of embryogenic pine tree tissue.



Glattfelders and Their Patents

- Dr. Heather J. Gladfelter

- Heather's latest endeavor is the Franklin Tree Project.
- An extinct tree in the wild, native to only a six-acre stretch of Georgia; it was killed by a fungus attributed to the death of the chestnut, dogwood, and hemlock.
- If her study is successful, the Franklin Tree could finally return from extinction, and she may have discovered the key to resurrecting other North American trees.
- The Franklin Tree Project will be a one-hour documentary filmed in HD for television.



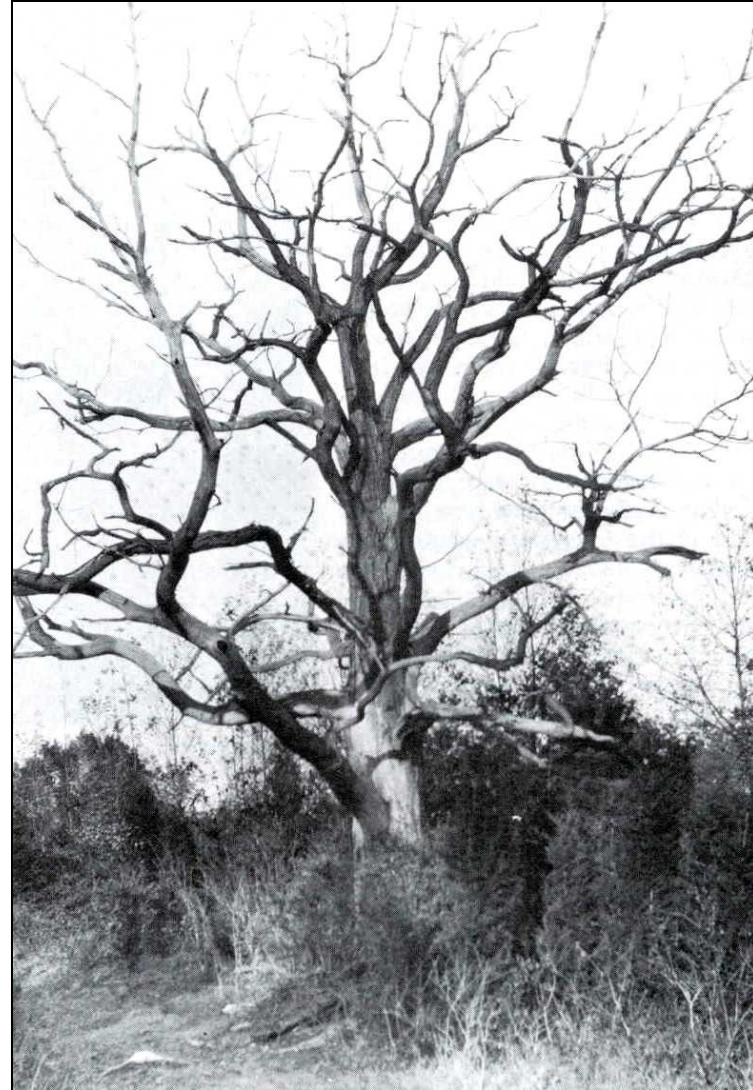
American chestnut and chestnut blight



Chestnut blight (*Cryphonectria parasitica*), accidentally imported from Asia, wiped out an estimated 4 billion American chestnut trees between 1904 and 1950



“Ghost Forests” of chestnut

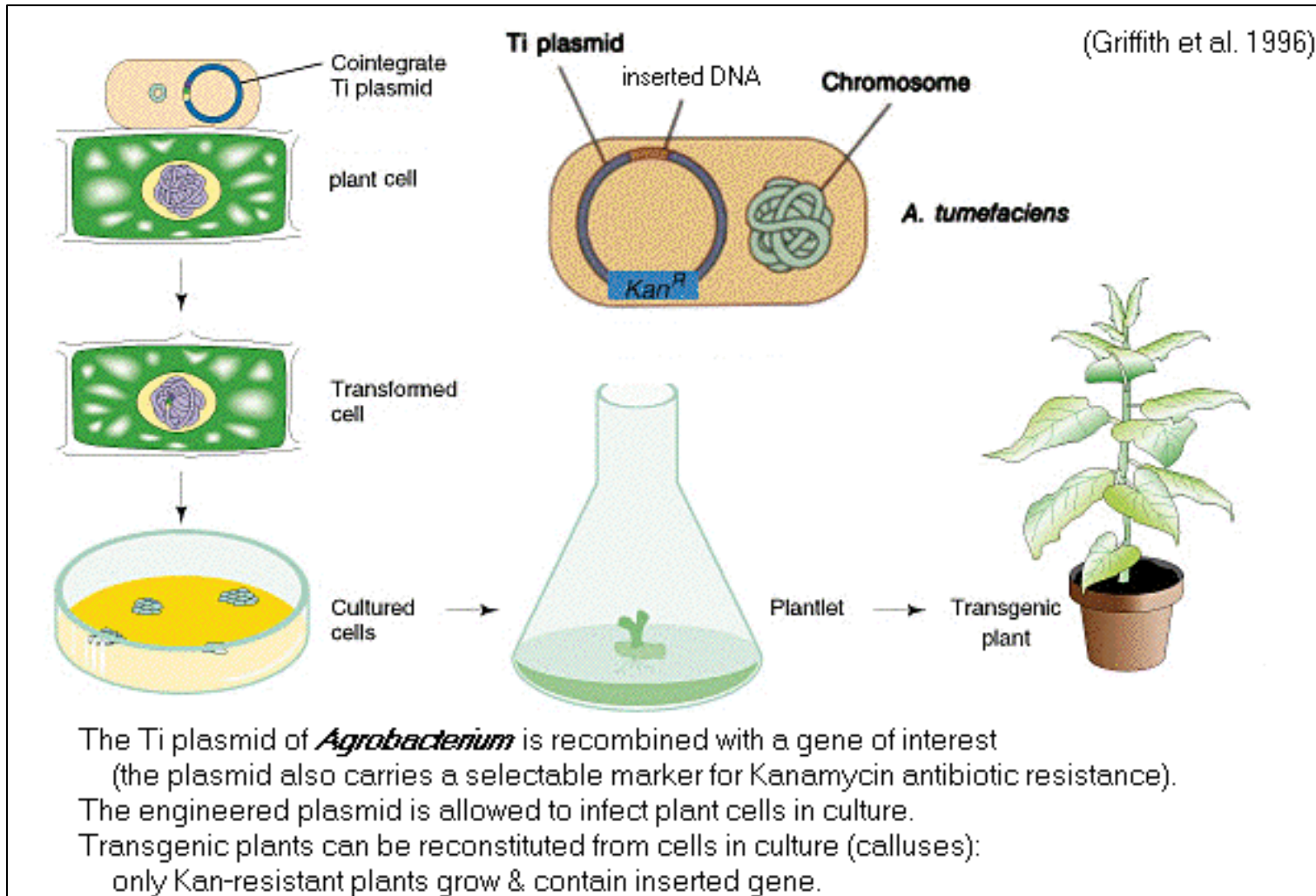


By the time chestnut blight arrived in the US, most chestnuts at lower elevations in the southern US (i.e. warmer climates) had already been killed by ink disease = Phytophthora root rot (*Phytophthora cinnamomi*)

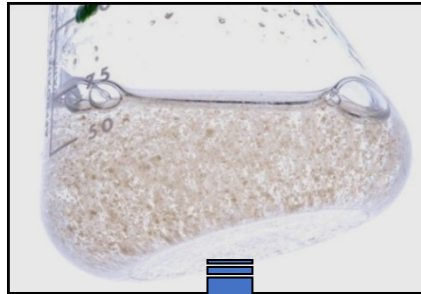


Genetic Engineering Approach to Disease Resistance

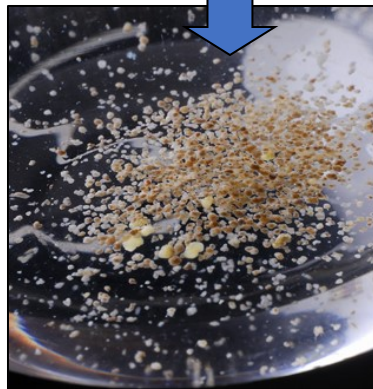
Agrobacterium-Mediated Genetic Transformation



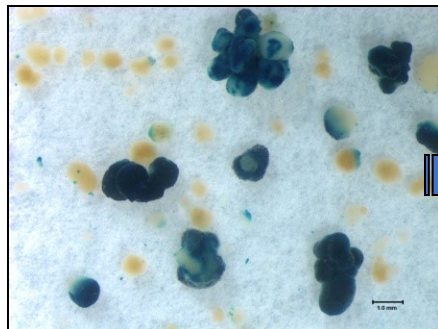
Suspension-based selection allows production of transgenic chestnut somatic seedlings 10 months following inoculation



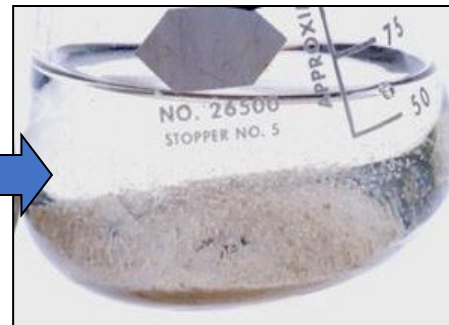
1. Agrobacterium (AGLI) infection of chestnut PEMS



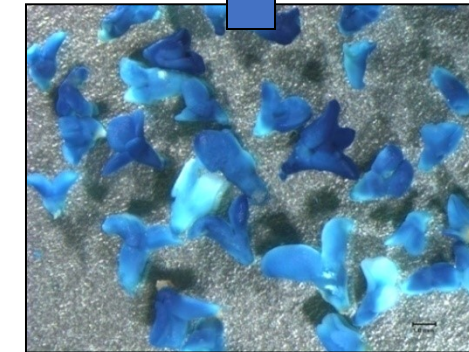
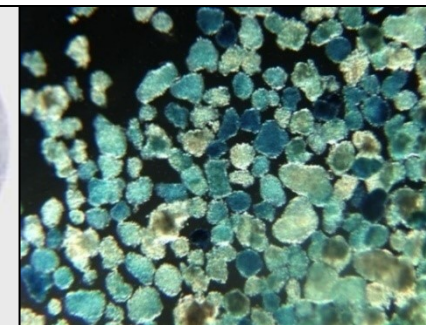
2. Selection of growing colonies with Geneticin



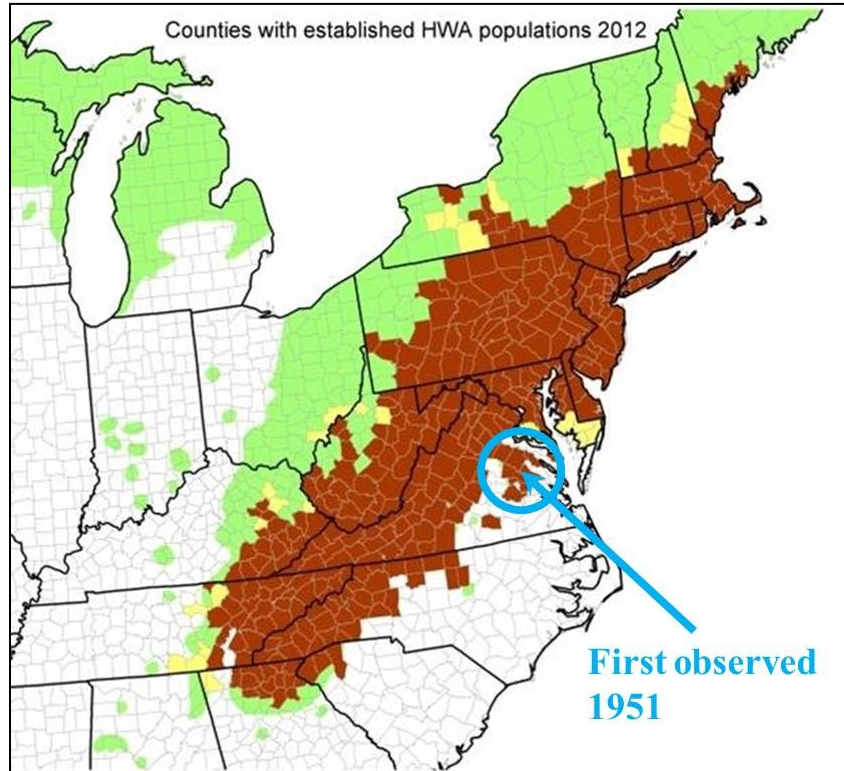
3. Proliferation of individual transclones



4. Somatic embryo production



Eastern and Carolina hemlocks and Hemlock Woolly Adelgid (HWA)



- Uninfested Counties
- Newly Infested 2012
- Infested Counties
- Native Range of Hemlock

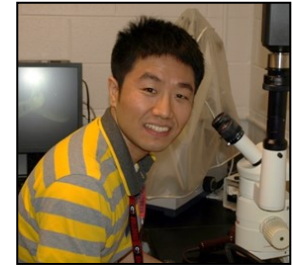
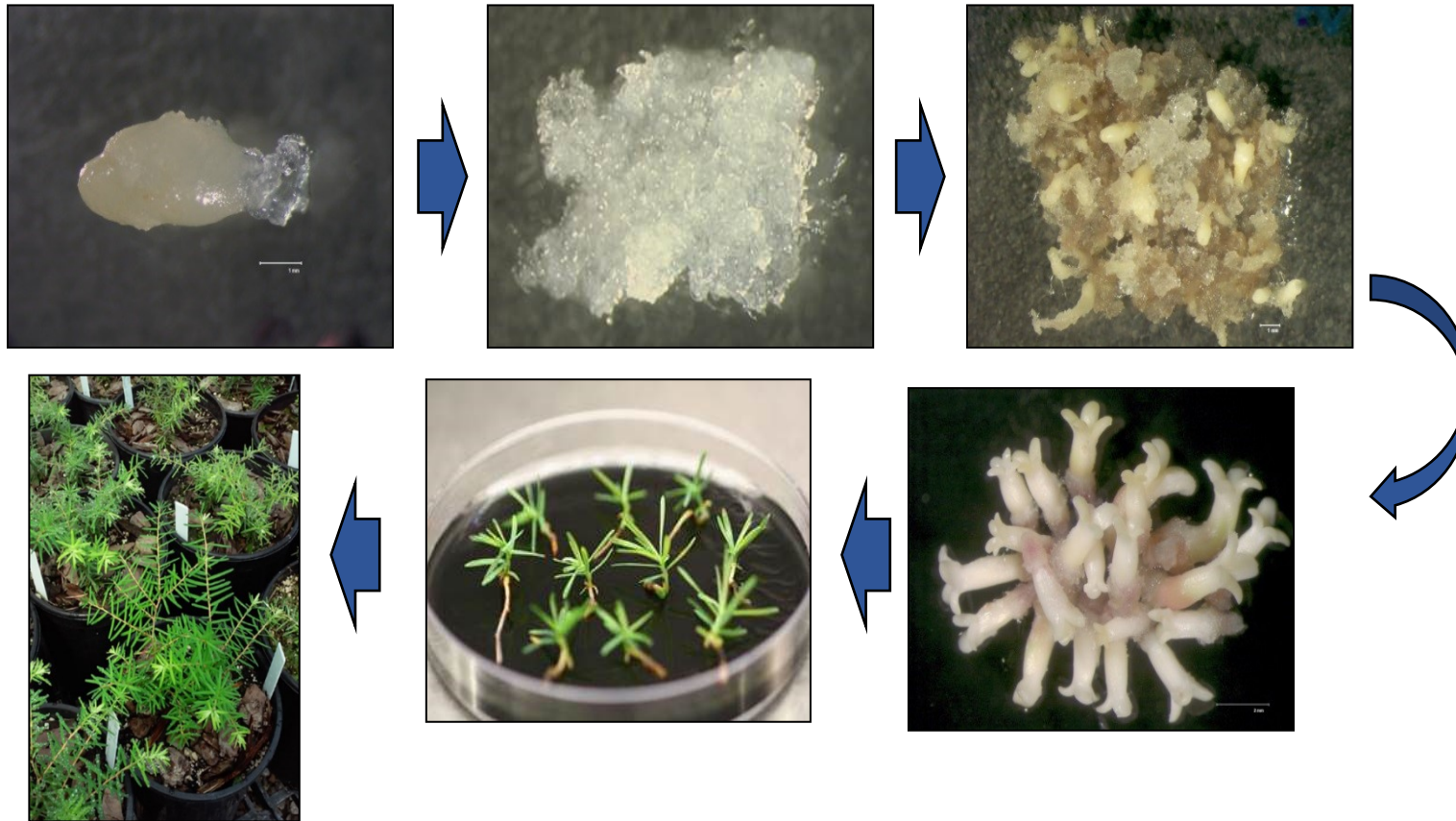


Great Smoky Mountains National Park

HWA was accidentally imported from Japan and first seen in the eastern US in the 1950s. Both hemlock species in the Eastern US may be lost within the decade.



SE propagation of hybrid hemlocks (bred with HWA-resistant Asian species) for hemlock restoration



Changho Ahn

Breeding between North American and Asian hemlocks (*T. caroliniana* x *T. chinensis* and *T. caroliniana* x *T. sieboldii*) was performed by Ben Smith, and seeds were cultured to start hybrid hemlock cultures. Somatic seedlings are now being tested by Dr. Smith for resistance/tolerance to HWA

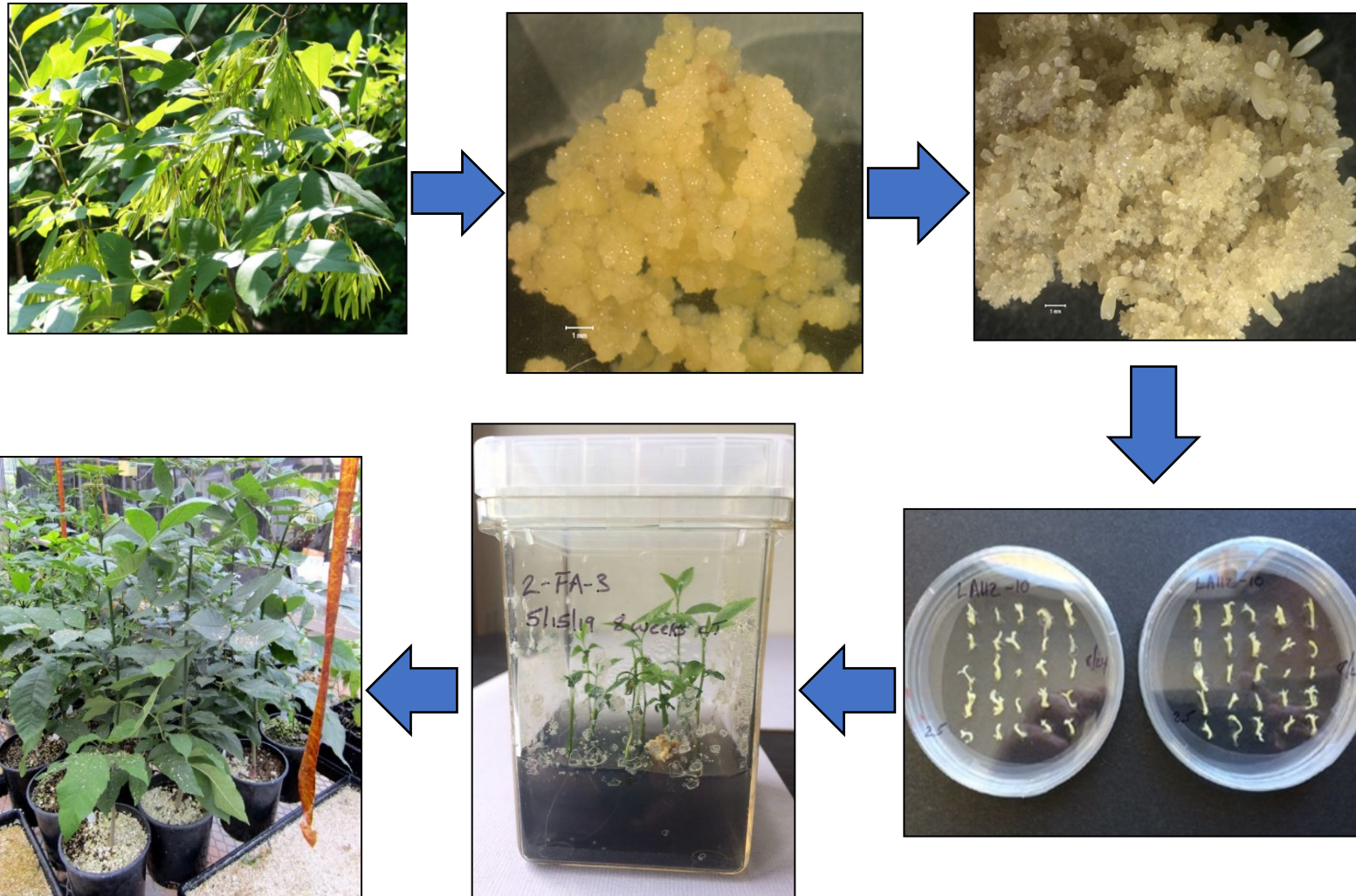


All North American ash species, including White Ash and Green Ash are attacked by the Emerald Ash Borer (EAB)

- EAB accidentally introduced from Asia
- EAB first discovered in Michigan in 2002
- EAB has already killed millions of ash trees in dozens of US states and Canada
- First sightings in Georgia summer 2013



In vitro culture for clonal propagation of ash trees



The Franklin Tree



Harry Gladfelter
standing in front of a
Franklin Tree at
Longwood Gardens,
Kennett Square, Pa.



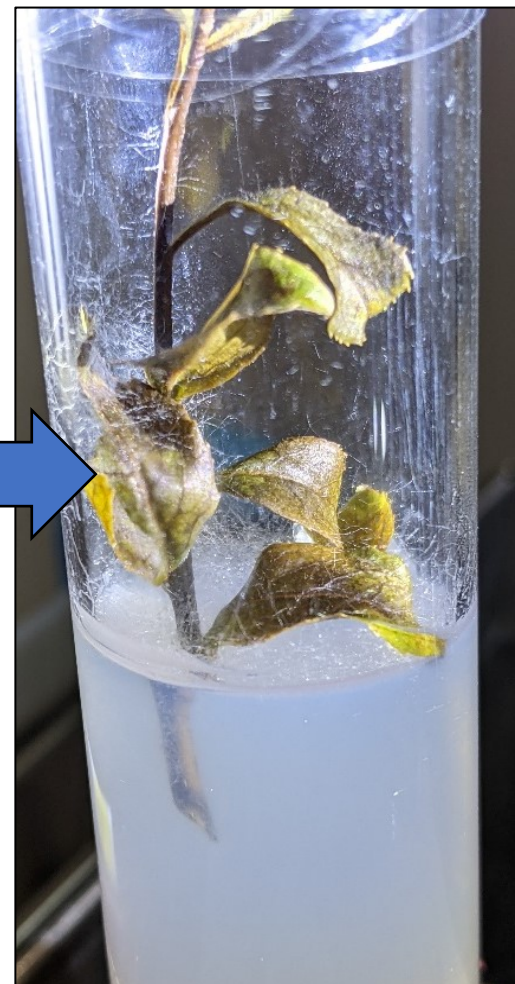
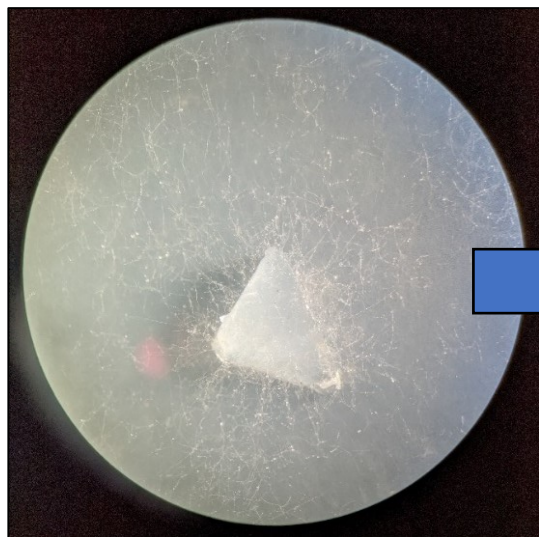
The Franklin Tree



The Franklin Tree Flower

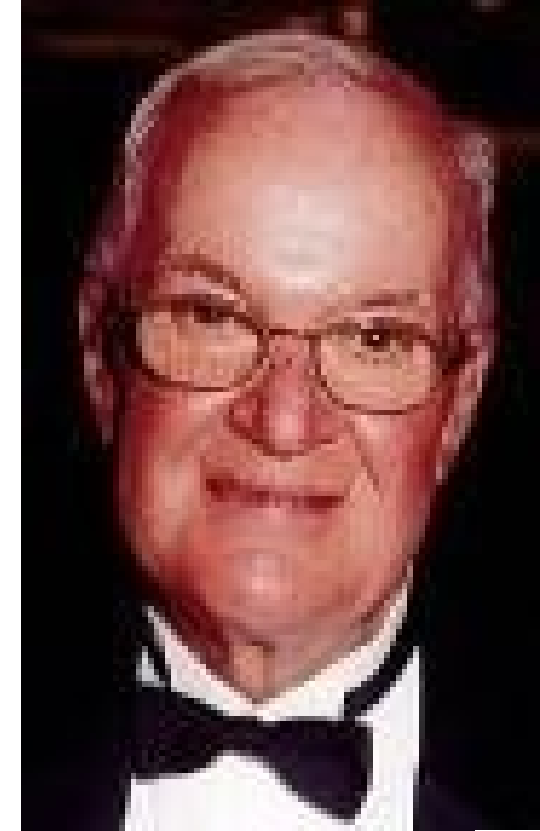


In vitro Screening for Phytophthora resistance



Ralph J. Gladfelter

- Heather's father Ralph J. Gladfelter Jr. was born in Chicago and grew up in Springfield, Mass.
- He served in the Air Force during the Korean War.
- After his service, he worked at Pratt & Whitney, the Springfield Armory, and Hamilton Standard.
- He moved to New Mexico and worked at the Los Alamos National Lab, where he retired after 33 years
- He was married to Jeanne (Farley) Gladfelter and they had five children: Ralph Gladfelter III, Jeffrey Gladfelter, Alan (Cynthia) Gladfelter, Heather Gladfelter, Sharon (Patrick) Werick.



He passed away on
September 7, 2015
at the age of 84.



Glattfelders and Their Patents

- Dr. Wayne L. Gladfelter

- Dr. Wayne Gladfelter is a distinguished professor of chemistry at the University of Minnesota.
- He'll tell us about his patents, his career, and his accomplishments.
- Let's have a warm welcome for Dr. Wayne Gladfelter!



Glattfelders and Their Patents

- Dr. Wayne L. Gladfelter

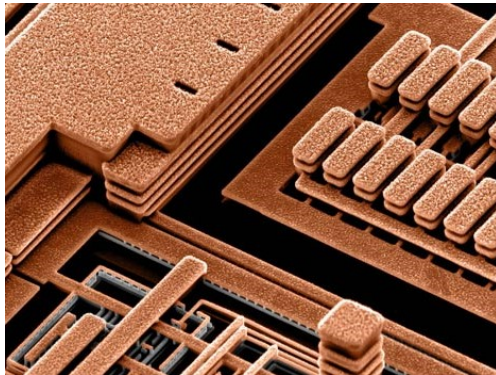
- Dr. Wayne L. Gladfelter is a distinguished professor of chemistry at the University of Minnesota and is a leading expert in chemical deposition of metals to form thin films.
- Wayne has six patents on chemical deposition of thin films of aluminum, iron, ruthenium, and osmium.
- Thin metallic films are useful for their high electrical conductivity, high reflectivity, mechanical strength, and resistance to chemical attack.



Glattfelders and Their Patents

- Dr. Wayne L. Gladfelter

- Thin films add functionality to materials.
- We discover new chemicals used to manufacture thin films.



Microelectronics



Optical



Metallurgical



Glattfelders and Their Patents

- Dr. Wayne L. Gladfelter

- Wayne has earned many honors and awards and has many scientific publications in the field of chemistry.
- Wayne is on the Colorado School of Mines "Wall of Fame."
- Wayne holds a BS in Mineral Engineering Chemistry from the Colorado School of Mines and a PhD in Chemistry from Pennsylvania State University.
- Wayne did his Post Doctorate work as a National Science Foundation Fellow at CalTech.



Glattfelders and Their Patents

- Dr. Wayne L. Gladfelter

- Wayne descends from Casper's son John.
- He was born in Bryn Mawr, Pa., to Stanley L. and Jean (Davis) Gladfelter and was raised in his father's hometown of Wellsville, Pa.
- Stanley was a founder of the York Federal Savings and Loan.
- Wayne and his wife Elizabeth live in Roseville, Minn., and they have two children, Katherine Belcher (married to Ryan), and Christopher Gladfelter (married to Nicole), and four grandchildren, Reese and Zoey Belcher and Caden and Brynlee Gladfelter.



Glattfelders and Their Patents

- Dr. Elizabeth J. Gladfelter

- Dr. Elizabeth(Jedziniak) has had a long and successful career in industry as a research chemist.
- Betty couldn't join us today but Wayne will tell us about her patents and what she's been up to since working for herself.



Glattfelders and Their Patents

- Dr. Elizabeth J. Gladfelter

- Dr. Elizabeth (Jedziniak) Gladfelter has 20 plus years of corporate experience as an R&D chemist and in technical management while working for Henkel Inc. and Ecolab Corporation.
- Her innovation and technical achievements are protected by 26 US patents.
- Later, she started her own consulting company specializing in the area of competitive intelligence and intellectual property analysis for a competitive advantage.



Glattfelders and Their Patents

- Dr. Elizabeth J. Gladfelter

Patent and Commercial Product



US005328082A

United States Patent [19]

Fritz et al.

[11] Patent Number: 5,328,082

[45] Date of Patent: Jul. 12, 1994

[54] APPARATUS FOR DISPENSING
MOISTURE-SENSITIVE UNIT DOSE
PACKAGES

[75] Inventors: Barbara L. Fritz, Burnsville;
Elizabeth J. Gladfelter, Falcon
Heights; Tina O. Outlaw, Inver
Grove Heights, all of Minn.

[73] Assignee: Ecolab Inc., St. Paul, Minn.

[21] Appl. No.: 58,158

[22] Filed: May 5, 1993

Related U.S. Application Data

[62] Division of Ser. No. 756,458, Sep. 9, 1991, Pat. No. 5,249,737.

[51] Int. Cl.⁵ B65D 5/36

[52] U.S. Cl. 229/122.1; 221/302;
221/305; 222/541

[58] Field of Search 229/122, 122.1; 221/1,
221/302, 305, 306; 222/527, 528, 531, 534, 535,
541, 547, 564

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Primary Examiner—Gary E. Elkins
Attorney, Agent, or Firm—Merchant, Gould, Smith,
Edell, Welter & Schmidt

[57] ABSTRACT

A unit dose package dispenser (1) including a drawer (13) and ramp (7) such that unit dose packages are urged through an aperture (10) and into the drawer (13). The ramp (7) is elevated from the bottom region (6) of the container (1) so as to isolate the contents of the container from moisture. A cover (14) formed integrally with the container front wall (4) tends to protect the contents of the drawer (13) from moisture in the surrounding environment.

15 Claims, 3 Drawing Sheets



Glattfelders and Their Patents

- Dr. Elizabeth J. Gladfelter

- Betty also has taught at various colleges and universities and presently teaches a special seminar at the University of Minnesota on using patents to enhance your business strategy.
- She has a Bachelor of Arts from Douglass College-Rutgers University, a Doctor of Philosophy from Penn State University, and has done Post Doctoral Work at Penn State.



Glattfelders and Their Patents

- Patricia Clotfelter – Patent Attorney

Special Mention

- Patricia Clotfelter concentrates her practice in the area of commercial litigation with an emphasis on intellectual property.
- Pat is a shareholder at Baker, Donelson, Bearman, Caldwell & Berkowitz



Glattfelders and Their Patents

- Patricia Clotfelter – Patent Attorney

- Pat has extensive experience litigating in state and federal courts in a variety of jurisdictions in and outside of Alabama.
- Her experience includes representation of numerous clients in trademark, copyright, trade secret, and patent infringement disputes in fields as diverse as computer software development, data mining, industrial coatings, banking, advertising, big game hunting, and restaurant operation.
- She has litigated in federal courts from Los Angeles, California, to Detroit, Michigan, to Jacksonville, Florida.



Glattfelders and Their Patents

- Patricia Clotfelter – Patent Attorney

- Pat taught trial skills as an adjunct professor at Cumberland School of Law for many years and is currently active in helping to train Baker Donelson associates in the art of litigation.
- She is a frequent lecturer on litigation topics, including all aspects of intellectual property.
- Pat got her law degree from Vanderbilt University Law School and has her BA in English from the University of Alabama at Birmingham.
- Pat lives in Birmingham, Alabama.



Glattfelders and Their Patents

A special thanks to those who have contributed to
“Glattfelders and Their Patents”

- John Glatfelter for his great presentation last year and for help formulating the program this year.
- Dr. Pat Donaldson for presenting last year on short notice and doing a great job.
- Dr. Wayne Gladfelter for traveling a great distance and presenting this year.
- Dr. Heather Gladfelter for being here from Georgia and presenting this year.
- Larry Gladfelter for all his help with the presentation.
- Phil Glatfelter for listening to me back in 2019 and taking a chance that this would be a hit.



Glattfelders and Their Patents

Considering to be featured in the future:

- Glattfelders in medicine
- Glattfelders in education
- Glattfelders in engineering and science
- Glattfelders in art
- Glattfelders in sports
- Glattfelders in entertainment



Glattfelders and Their Patents

We hoped you enjoyed this presentation

Q&A

Glattfelders and Their Patents Part 2

