



COMMUNITY NEWSLETTER



IN CELEBRATING INTERNATIONAL WOMEN'S DAY, WE WANTED TO SHARE A FEW AMAZING WOMEN INVENTORS.

Information retrieved from www.amightygirl.com, February 26, 2021

Hedy Lamarr (1914 - 2000) **Spread-spectrum Technology**

She was one of the most glamorous stars of the black and white film era — and she was also one of the minds behind an invention that provided the foundation for GPS, Bluetooth, and Wi-Fi technology! Austrian-American actress Hedy Lamarr was also a gifted mathematician and engineer, and when World War II broke out, she wanted to make a contribution to the war effort by improving torpedo technology. Working with musician and composer George Antheil, Lamarr developed the idea of "frequency hopping," which could encrypt torpedo control signals, preventing enemies from jamming them and sending the torpedoes off course. Although Lamarr and Antheil were granted a patent for the idea in 1942, the US Navy ignored their technology for 20 years, finally putting it to use during a 1962 blockade of Cuba. Since then, though, Lamarr's spread-spectrum technology has become the foundation for the portable devices that we use every day, for which she was inducted into the National Inventor's Hall of Fame 2014.



Hedy Lamarr

Patricia Bath (b. 1942)

Cataract Surgery

Since she entered the field of ophthalmology, Patricia Bath has been breaking new ground! She was the first black person to serve as an ophthalmology resident at New York University and the first woman on staff at the Jules Stein Eye Institute, but most importantly for this discussion, she was the first African-American female doctor to receive a patent for medical purposes. That patent was for the Laserphaco Probe, a medical device she invented in 1981 that quickly and painlessly uses a laser to dissolve cataracts in the eye, then irrigates and cleans the eye to make inserting a replacement lens quick and easy. The Laserphaco Probe is now used internationally as a quick and safe way to prevent blindness due to cataracts. She is also the inventor of a new discipline, community ophthalmology, which is dedicated to ensuring that all members of the population have access to eye and vision care. Even if people can't afford an operation, Bath believes that ophthalmologists should do all they can to care for their vision; after all, she says, "The ability to restore sight is the ultimate reward."



Patricia Bath

Mary Anderson (1866 - 1953)

Windshield Wipers

Can you imagine driving a car in bad weather without windshield wipers? Until Mary Anderson thought of them, that was the only option! Anderson was already a real estate developer and rancher when she visited New York City in 1902 and rode on a trolley car where the driver had to open the panes of the front window in order to see through falling sleet. As soon as she returned home to Alabama, she set to work conceiving a solution. Her device used a lever inside the vehicle to control a rubber blade on the windshield; similar devices had been made earlier, but Anderson's was the first effective model. Amazingly, car manufacturers initially didn't see the value in her invention; one Canadian firm declined her invention in 1905, saying "we do not consider it to be of such commercial value as would warrant our undertaking its sale." However, in 1922, Cadillac became the first car manufacturer to include a windshield wiper on all its vehicles, and after Anderson's patent expired, they quickly became standard equipment.



Mary Anderson

Sarah Breedlove / Madam C. J. Walker (1867 - 1919)

First Female Self-made Millionaire

Sarah Breedlove was the first child of her family born after the Emancipation Proclamation — and she would go on to become the first female self-made millionaire in the United States! Married and widowed by the age of 20, she was working as a laundress when she realized that she, and many other black women, struggled with hair loss and scalp diseases due to a lack of indoor plumbing and harsh ingredients in hair products. Over several years, she developed her own line of hair care products specifically designed for African American hair, and branded them with her new identity as Madam C. J. Walker; the title was deliberately chosen to evoke Parisian luxury. (continued)



Madame C.J. Walker

When her line was ready for sale, she also set up a college to train "hair culturists," creating a new employment opportunity for thousands of African American women. As her wealth and influence grew, Madam Walker brought them to bear on social and political issues and made donations to African American schools, orphanages, and retirement homes. Her legacy, thought, is one of perseverance; she famously said, "If I have accomplished anything in life it is because I have been willing to work hard."

Stephanie Kwolek (1923 - 2014)

Kevlar

Chemist Stephanie Kwolek was working on an alternative for steel in radial car tires when she developed a fiber credited with saving thousands of lives: Kevlar. Born near Pittsburgh, Pennsylvania to Polish immigrants, Kwolek originally planned to become a doctor, but after accepting a research position with DuPont in 1946 to save up for medical school, she discovered a passion for chemistry research that led to a 40-year career. She invented Kevlar in 1964 when an experiment with turning a solid polymer into a liquid didn't work as planned; while her peers considered the experiment a failure, Kwolek took a closer look and discovered that fibers within the liquid were five times stronger than steel. Kevlar has since been used for everything from boots for firefighters to spacecraft parts, but it's most famous for its use in bulletproof body armor; since Kevlar vests were introduced in the 1970s, at least 3,000 police officers' lives have been saved, as well as those of countless soldiers and civilians in combat zones. In fact, on the same day that Kwolek died, DuPont announced the sale of the one-millionth protective vest using her invention.



Stephanie Kwolek

Crisis and Family Resources

Bakersfield Behavioral
661-398-1800

Kern County Crisis Line
800-991-5272

National Alliance on Mental Health
800-950-NAMI (6264)

Suicide Prevention Lifeline
800-273-8255

CA Youth Crisis Hotline
800-843-5200

TrevorLifeline (LGBTQ+)
866-488-7386

Kern Helpline (CAP-K)
211 (Food Distribution Info)

Kern County Family Justice Center
661-868-8410

Alliance Against Family Violence
800-273-7713

Department of Human Services
Cal Fresh
661-631-6062

Medi-Cal
661-631-6807

If someone is in immediate danger, please call 911

Our Mission

To be committed to the wellness of individuals, their families, and the community through prevention, intervention, treatment, and education.



Girl Power Puzzle

D W N Z U F M O T I V A T E D B W X Q X
 J A N A N G Q U B B E A U T I F U L I Q
 G M Q T N E I L I S E R W B S A S R B O
 L E S G N I R E V E S R E P R R E K J N
 L V T R A M S Y X Y B K D R Q S T P C Z
 A E D U C A T E D Z N H I X P Z T V I G
 D E N I M R E T E D P M W O R G P E T R
 W E V I T I S O P I P P N W E R J R A A
 Q R W Y S S A L C R X S Y R O P O V M C
 A Y Y Y L M J G E V I S W F H Y X X G E
 O A B P W X T S A B C L E V E R E S A F
 A D R C Z F S H L S G S P U B C Y D R U
 W E I W P I S E U G S O T C L F P N P L
 D V G S V K I O C I T S A I S U H T N E
 O O H E T C I L O T X T E N A C I O U S
 G T T Q Q T O N T X N C W S Y T V Q B S
 J E D C I O A E R X R X P I U B O I N K
 W D J B Q L J I U E T N E I T A P U Z J
 R B M E T J E L B A K R A M E R H J A I
 J A Y P U E K G N I M R A H C W C J R F

FOLLOW US



Subscribe



Word List

Ambitious	Educated	Pragmatic
Beautiful	Enthusiastic	Professional
Bright	Graceful	Remarkable
Charming	Impressive	Resilient
Classy	Motivated	Responsible
Clever	Patient	Smart
Determined	Persevering	Tenacious
Devoted	Positive	

HOW TO CONTACT US

Inpatient Services - 661.241.5507

Outpatient Services 661.241.5537

If you need further information, support or brochures, please contact:

Amber Smithson at 661.747.8697 amber.smithson@bakersfieldbehavioral.com

Cornelio Gutierrez Lozano at 661.428.8696 cornelio.lozano@bakersfieldbehavioral.com

Teena Bensusen at 661.912.3397 teena.bensusen@bakersfieldbehavioral.com

General e-mail, or to join our newsletter: abk.marketing@bakersfieldbehavioral.com