



The Reverend Ivan George ESSAY • POSTER • VIDEO CONTEST

Sponsored by
CHAACA & The Cherry Hill Public Library
Black History Month 2023

The contest is open to ALL public school students in Cherry Hill in grades K through 12th. The essay, poster or video must depict an African American inventor that obtained a United States patent through the U.S. Patent Office or African American innovators in their field, i.e., medicine, science, etc. (Example: Dr. Charles Drew developed techniques for large scale blood storage.)

For students in grades Kdg. Through 3rd.

1. Who is the famous African American inventor/innovator that you have selected? What type of invention did they design? Why did you select this person? (Example: I selected Lonnie Johnson because I love using my Super Soaker.)
2. How do the accomplishments in this profession affect you, your family, your city, this country and/or the world? (Example: Lonnie Johnson's invention brings a lot of fun to family/friends gatherings.) What did this person contribute to the community? (Example: Lonnie Johnson served as a role model because he was also an engineer that worked for NASA.) Did this person overcome unusual circumstances?
3. Based on what you have learned would you choose this profession as a career?

For students in grades 4th through 12

1. See famous African Americans inventors/innovator above. Answer questions 1 through 3. This is #4 What time period in history did this person live? How did the time and place affect his/her accomplishments? Did this person have to overcome any obstacles in his or her career? Did any of these obstacles have to do with race?
2. What inequity in the patent office or the public perception have an impact on the African American inventor/innovator that you have selected? (Example: Elijah McCoy's invention sparked the phrase "the real McCoy" but the inventor was not largely known as an African American.)
3. How does the inventor/innovator that you selected to research affect you, your family, your city, this country and/or the world?
4. Did this person have to overcome any obstacles in his or her career? Did any of these obstacles have to do with race?

There will be three winners in each of the following six categories: (Exact prizes will be determined (TBD= To be Determined) by our fund-raising efforts.)

Prizes		Category		
First Prize	\$TBD	Grades	Kdg. – 1 st	(Poster, Video, or Essay)
Second Prize	\$TBD	Grades	2 nd -3 rd	(Poster, Video, or Essay)
Third Prize	\$TBD			
First Prize	\$TBD	Grades	4 th – 5 th	(Poster, Video, or Essay)
Second Prize	\$TBD	Grades	6 th – 7 th	(Poster, Video, or Essay)
Third Prize	\$TBD			
First Prize	\$TBD	Grades	8 th - 9 th	(Poster, Video, or Essay)
Second Prize	\$TBD	Grades	10 th -11 th	(Poster, Video, or Essay)
Third Prize	\$TBD			
First Prize	\$TBD	Grade	12 th	(Poster, Video, or Essay)
Second Prize	\$TBD			
Third Prize	\$TBD			

The Essay·Poster·Video Contest will be judged by a panel of judges selected by the CHAACA Executive Board. Guidelines:

- The Essay·Poster·Video must be the original work of the author.
- Rubrics are attached. Rubrics were developed with materials from the RubiStar Web site <http://rubistar.4teachers.org/index.php>
- Only technical assistance from others will be acceptable; for example, someone shooting the video, etc. The script, props, must be the original idea of the student. Another example; someone helping to cut out letters for the poster, the subject and art work must be the original idea of the student.
- All emailed entries must be clearly marked with the **student’s name, School, Grade, Age, and Teacher or Guidance Counselor.** Entries will be assigned random numbers prior to submission to the judges to ensure objectivity.
- Submission of entries will be accepted from **Monday, December 5, 2022 until Monday, January 30, 2023.**

ALL entries can be dropped off at Cherry Hill Library, refence desk or delivered virtually. Pictures of posters and essay document may be emailed to chaacaprograms506@gmail.com. Videos may be uploaded to YouTube and the link submitted to chaacaprograms506@gmail.com. (Please make sure that permission is granted to open all attachments.) **Please do not email from your student account; we cannot respond if corrections or clarifications are needed. Remember: All entries must have the student’s full name, grade and school to be considered!!**

- Poster entries pictures must be clear and easily read. Pictures may be JPEG, GIF or PNG. Poster size must not exceed 36” X 24”.
- Video entries must not exceed 6 minutes.
- Essays should be at least 200 words and a maximum of 500 words and emailed in Word or PDF format.
- A Slide Show and/or display of entries is planned at a reception for all entrants prior to the School Board meeting on February 28, 2023 @ 6pm at the Arthur Lewis Administration Building 45 Ranoldo Terrace Cherry Hill NJ 08034. The winners will be recognized immediately following the reception at the Board meeting at 7pm.
- Contest winners and participants entries will be showcased at the Juneteenth Parade & Festival on Saturday, June 17, 2023 at Croft Farm.
- **Submit essay and poster entries to: chaacaprograms506@gmail.com or at the Reference Desk at the Cherry Hill Library.**
- **Submit video or You tube links entries to: chaacaprograms506@gmail.com or at the Reference Desk at the Cherry Hill Library.**

Questions may be emailed to Cathleen Jenkins, csaxjenks@gmail.com

Remember: DO NOT EMAIL FROM YOUR STUDENT ACCOUNT

POSTER RUBRIC				
Category	Novice -1	Developing - 2	Proficient - 3	Exemplary - 4
Coverage of topic	Details on the poster have little to do with the topic	Details on the poster relate to the topic; but are too general or incomplete	Details on the poster include important information but the audience may need more information to understand fully.	Details on the poster capture the important information about the topic and increase the audience's understanding.
Organization	The information appears to be disorganized.	Information is organized, but titles and subheadings are missing or do not help the reader understand.	Information is organized with titles and subheadings.	Information is very organized with clear titles and subheading
Layout, Creativity, Use of Graphics and Design	Much of the information on the poster is unclear or too small. Material presented in an ordinary, simple way. Graphics do not relate to the topic	Most of the information on the poster is in focus and the content is easily viewed and identified from 4 ft. away. Some creativity noted. All graphics relate to the topic	Most of the information on the poster is in focus and the content is easily viewed and identified from 6 ft. away. Materials presented in a creative way. All graphics relate to the topic and most make it easier to understand	All information on the poster is in focus and can be easily viewed and identified from 6 ft. away. Materials presented in a uniquely, creative way. All graphics are related to the topic and make it easier to understand
Sources	Some sources are not accurately documented.	All sources (information and graphics) are documented, but information is incomplete or many are not in the desired format.	All sources (information and graphics) are accurately documented, but there are a few errors in the format.	All sources (information and graphics) are accurately documented.
Mechanics	Many grammatical, spelling, or punctuation errors.	A few grammatical, spelling, or punctuation errors.	Almost no grammatical, spelling or punctuation errors	No grammatical, spelling or punctuation errors.

ESSAY RUBRIC				
Category	Novice -1	Developing - 2	Proficient - 3	Exemplary - 4
Coverage of topic/Thesis	Approaching a thesis or topic, but has not narrowed the thesis or topic.	Thesis exists, but is not worded clearly or specifically.	Clear, strong thesis	Cleverly worded and creative thesis
Organization	There is some organizing scheme, but missing part or all of the introduction, body or conclusion	Paragraphs are defined, but not necessarily in a logical order, no transitions,	Paragraph breaks in the right place, transitions exists, there is an order to the presentation of ideas	Unique organizing strategy, smooth transitions, one idea flows into the next
Content/Sources	Information relates to thesis, but not directly; irrelevant, unimportant detail; information sources not cited.	Information evidence relates to thesis but the scope is too broad or narrow; information sources cited	Thesis supported by information and ideas; information sources cited	Thesis supported by information, ideas are unique, interesting, show a complex understanding and exploration of topic; information sources cited
Style/Language Usage, Creativity	Awkward wording in places, simple sentence structure. Same words used repeatedly; poor imprecise word choice; Colloquial language; homonym confusion; simple word choice. Simple straight forward – no creativity.	Clearly worded, simple sentence structure. Adequate or simple choice of words; appropriate to age and grade level. Some creative use of language or ideas.	Worded clearly and coherently with more complex sentence structure. Choice of words is distinctive, fresh, precise. Ideas and writing style presented creatively.	Clarity coherence and unity in word choice, sentence structure; writing flows. Choice of words economical and consistent with the relationship among writer, reader and the material. Ideas presented in a unique and personal style illustrating the author's creativity.
Mechanics/grammar/spelling, etc.	More than four significant errors many minor errors, such as spelling, typos	Up to three significant errors; some minor errors	One or two significant errors, some minor errors	No significant errors, a few minor errors.

DIGITAL-VIDEO RUBRIC				
Category	Novice -1	Developing - 2	Proficient - 3	Exemplary - 4
Introduction/ Explanation of main point or focus	Does not explain the project focus. Poorly addresses topic.	Explains only a general plan for the idea of the project	Explains the details of the project	Persuasively explains and addresses the details of the project
Overall Content/ Support	Message is unclear, includes little essential informative and one or two facts. Includes irrelevant ideas.	Message is vaguely communicated, includes some essential information with few facts and supports	Message is clearly communicated, includes essential information, indicates supports for ideas	Strong message. Covers topic completely and in depth, includes important and essential information
Technical, Digital, Enhancements or Effects and Creativity	Little or no enhancements for interest or excessive use of random enhancements detract from the video. Straight forward, no creativity.	Digital enhancements accompany video, but there is little sign of reinforcement; some tendency toward randomness with effects. Some creative use of language, effects, or ideas.	Digital enhancements that are used that are smoothly combined and effectively with the video. Ideas, effects, enhancements and style presented creatively	Digital enhancements are planned and purposeful; adding impact to the story line or focus. Ideas, effects, enhancements presented in a unique and personal style illustrating the author's creativity.
Script/Dialogue Graphics	Includes more than 10 grammatical errors, misspellings, punctuation errors, etc.	Includes no more than 5 grammatical errors, misspellings, punctuation errors, etc.	Includes more than 2-4 grammatical errors, misspellings, punctuation errors, etc.	No glaring grammatical errors, misspellings, punctuation errors, etc.
Copyright/ Sources	There are no citations or references to copy right information for photos, graphics, and music created by others. Does not indicate sources.	Citations are given, but some multimedia sources are not identified with references. Indicates some sources.	Citations are given, but some multimedia sources are identified with references. Most sources indicates.	Citations are given proper credit, original graphics, music, photos are used and cited as original. All sources are documented and indicated.

Additional References and Resources

A Partial list of Inventors and Innovators

Name	Years	Occupation(s)	Inventions / accomplishments
Alcorn, George Edward Jr.	1940–	Physicist , inventor	Invented a method of fabricating an imaging X-ray spectrometer
Alexander, Archie	1888–1958	Civil engineer	Responsible for the construction of many roads and bridges, including the Whitehurst Freeway , the Tidal Basin Bridge, and an extension to the Baltimore-Washington Parkway .
Andrews, James J.	1930–1998	Mathematician	Put forth the Andrews–Curtis conjecture in group theory with Morton L. Curtis , still unsolved
Bailey, Leonard C.	1825–1918	Inventor	Collapsible, folding bed <ul style="list-style-type: none"> • (For the cabinet folding bed, forerunner to the "Murphy bed", patented by Sarah E. Goode in 1885, see her entry at <i>Goode</i>, this page.)
Ball, Alice Augusta	1892–1916	Chemist	Developed a technique to make chaulmoogra oil injectable and absorbable, for the first effective treatment of Hansen's disease (leprosy)
Banneker, Benjamin	1731–1806	Almanac author; surveyor ; farmer	Constructed wooden clock; astronomer ; assisted in the survey of the original boundaries of the District of Columbia; authored a series of almanacs and ephemerides ; naturalist : recorded observations on emergences of periodical cicadas and on the behavior of honey bees .
Banyaga, Augustin	1947–	Mathematician	Work on diffeomorphisms and symplectomorphisms
Bashen, Janet	1957–	Inventor, entrepreneur, professional consultant	First African-American woman to receive a patent for a web-based software invention, LinkLine, an Equal Employment Opportunity case management and tracking software
Bath, Patricia	1942–2019	Ophthalmologist	First African-American female physician to receive a patent for a medical invention; inventions relate to cataract surgery and include the Laserphaco Probe, which revolutionized the industry in the 1980s, and an ultrasound technique for treatment
Beard, Andrew	1849–1921	Farmer, carpenter , blacksmith , railroad worker , businessman, inventor	Janney coupler improvements; invented the car device #594,059 dated November 23, 1897; rotary engine patent #478,271 dated July 5, 1892
Bell, Earl S.	1977–	Inventor, entrepreneur, architect, industrial designer	Invented chair with sliding skin (2004) and the quantitative display apparatus (2005)
Benjamin, Miriam	1861–1947	Inventor, educator	Invented "Gong and Signal Chair for Hotels"; second African-American woman to receive a patent

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Berry, Leonidas	1902–1995	Gastroenterologist	Gastroscope pioneer
Bharucha-Reid, Albert T.	1927–1985	Mathematician, statistician	Probability theory and Markov chain theorist
Black, Keith	1957–	Neurosurgeon	Brain tumor surgery and research
Blackwell, David	1919–2010	Mathematician, statistician	First proposed the Blackwell channel model used in coding theory and information theory ; one of the eponyms of the Rao–Blackwell theorem , which is a process that significantly improves crude statistical estimators
Blair, Henry	1807–1860	Inventor	Second black inventor to issue a patent; invented seed planter and cotton planter.
Boahen, Kwabena	1964–	Bioengineer	Silicon retina able to process images in the same manner as a living retina
Boone, Sarah	1832–1905	Inventor	Ironing board allowing sleeves of women's garments to be ironed more easily
Boykin, Otis	1920–1982	Inventor, engineer	Artificial heart pacemaker control unit
Brooks, Charles	1865– ?	Inventor	Street sweeper truck and a type of paper punch
Brown, Henry	1832– ?	Inventor	Invented fire safe
Brown, Marie Van Brittan	1922–1999	Inventor	Invented the home security system
Brown, Oscar E.	18xx– ?	Inventor	Received a patent for an improved horseshoe ^[50]
Burr, John Albert	18xx– ?	Inventor	Rotary-blade lawn mower patent
Cannon, Thomas C.	1943–	Inventor	Led a group of engineers who developed the Tactical Optical Fiber Connector (TOFC), the first fiber optic connector deployed under battlefield conditions, and the ST Connector that helped make fiber optic communications affordable.
Carruthers, George	(1931–2020)	Astrophysicist	Invented ultraviolet camera/spectrograph, which was used by NASA when it launched Apollo 16 in 1972

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Carver, George Washington	1865–1943	Botanical researcher	Discovered hundreds of uses for previously useless vegetables and fruits, principally the peanut
Chappelle, Charles W.	1872–1941	Electrician, construction, international businessman, and aviation pioneer	Designed long-distance flight airplane; the only African-American to invent and display the airplane at the 1911 First Industrial Air Show held in conjunction with the Auto Show at Grand Central Palace in Manhattan in New York City; president of the African Union Company, Inc.
Crosthwait, David Jr.	1898–1976	Research engineer	Heating, ventilation , and air conditioning ; received some 40 US patents relating to HVAC systems
Curtis, James H. "Nick"	1935–	Researcher, chemist (electronics/specialty chemicals)	Organic ionogen for aluminum electrolytic capacitors, cationic dialdehyde polysaccharides for wet strength paper and others, US Patent Office US Pat #3609467 US Pat #3547423 and others
Dabiri, John	1980–	Biophysicist	Expert on jellyfish hydrodynamics and designer of a vertical-axis wind farm adapted from schooling fish
Davis, Chuck	? -2017	Inventor and Electrical Engineer	Inventor of the pROSHI neurofeedback device.
Dean, Mark	1957–	Computer scientist	Led the team that developed the ISA bus, and led the design team responsible for creating the first one- gigahertz computer processor chip
Drew, Charles	1904–1950	Medical researcher	Developed improved techniques for blood storage
Ellis, Clarence "Skip"	1943–2014	Computer scientist	First African American with a PhD in computer science ; software inventor including OfficeTalk at Xerox PARC
Gates, Sylvester James	1950–	Theoretical physicist	Work on supersymmetry , supergravity , and superstring theory
Goode, Sarah E.	1855–1905	Inventor	Folding "cabinet-bed", forerunner of the Murphy bed ; first African-American woman to receive a patent in the United States
Grant, George F.	1846–1910	Dentist, professor	The first African-American professor at Harvard , Boston dentist, and inventor of a wooden golf tee .
Griffin, Bessie Blount	1914–2009	Physical therapist , inventor	Amputee self-feeding device
Harewood, Ken R.		Molecular biologist	GlaxoSmithKline Distinguished Professor and Director of the North Carolina Central University (NCCU) Julius L. Chambers Biomedical/ Biotechnology Research institute and recognized for his work in the fields of cancer biology and cancer drug discovery .

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Harper, Solomon	1893-	Inventor	Invented first electrically heated hair roller and 28 other inventions
Harris, James A.	1932–2000		Co-discovered Rutherfordium (element 104) and Dubnium (element 105) at Lawrence Livermore Laboratory
Hawkins, Walter Lincoln	1911–1992	Scientist	Inventor at Bell Laboratories
Holley, Kerrie	1954–	Computer scientist	IBM's 1st black Distinguished Engineer and 2nd black IBM Fellow . Inventor of several software engineering techniques including system and methods for locating mobile devices using location and presence information
Jackson, Dr. Shirley	1946–	Physicist	Distinguished and pioneering scientific career, achieving several "firsts" as a woman and as an African-American ^[23]
Jackson, Dr. William	1936–	Laser chemist/ photochemist, cometary astrochemist at Howard University and UC Davis	Research to unravel the key photochemical sinks of important molecules in planetary atmospheres, in our and other solar systems, around stars, and the interstellar medium.
Jackson, John W. Jr.	1953–2007	Electrical Engineer, Inventor, Activist	Co-inventor of imaging x-ray spectrometer. NASA engineer. United States of America Army Civilian Engineer.
Jefferson, Roland	1923–	Botanist	First African American botanist to work at the United States National Arboretum ; played important role in the preservation of Washington, D.C.'s famous flowering cherry trees.
Jennings, Thomas L.	1791–1856	Inventor	First African American to be granted a patent (for a dry cleaning process called dry scouring)
Johnson, Isaac	18xx– ?	Inventor	Held patent for improvements to the bicycle frame, specifically so it could be taken apart for compact storage
Johnson, Katherine	1918–2020	Physicist, mathematician	Made contributions to the United States' aeronautics and space programs with the early application of digital electronic computers at NASA.
Johnson, Lonnie	1949–	Mechanical engineer, nuclear engineer , inventor	Invented Super Soaker while researching thermal energy transfer engines; worked with NASA ; holder of over 80 patents
Jones, Frederick McKinley	1893–1961	Inventor	Invented refrigerated truck systems
Julian, Percy	1899–1975	Chemist	First to synthesize the natural product physostigmine ; earned 130 chemical patents; lauded for humanitarian achievements

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Just, Ernest	1883–1941	Woods Hole Marine Biology Institute biologist	Provided basic and initial descriptions of the structure–function–property relationship of the plasma membrane of biological cells
Kittles, Rick	1967–	Geneticist	Work in tracing the ancestry of African Americans via DNA testing
Kountz, Samuel L.	1930–1981	Transplant surgeon, researcher	Organ transplantation pioneer, particularly renal transplant research and surgery; author or co-author of 172 articles in scientific publications
Latimer, Lewis	1848–1928	Inventor, draftsman, expert witness	Worked as a draftsman for both Alexander Graham Bell and Thomas Edison; invented the more durable filament , which made the incandescent lightbulb last long enough to be useful; became a member of Edison's Pioneers and served as an expert witness in many light bulb litigation lawsuits; said to have invented the water closet.
Lawson, Jerry	1940–2011	Computer engineer	Designer of Fairchild Channel E , the first programmable ROM cartridge -based video game console
Lee, Raphael Carl	1949–	Surgeon, biomedical engineer	Professor at Pritzker School of Medicine ; discovered ways to improve injury repair mechanisms of living cells; holds patents related to scar treatment therapies, tissue engineered ligaments, brain trauma therapies, and protective garments
Matzeliger, Jan	1852–1889	Inventor	Shoe assembly Machine
McBay, Henry	1914–1995	Chemist	His discoveries allowed chemists around the world to create inexpensive peroxide compounds
McCoy, Elijah	1844–1929	Inventor	Invented the automatic lubricator for steam engines, McCoy learned a great deal of his skills from a mechanical apprenticeship when he was age fifteen.
McLurkin, James	1972–	Robotist	
Mensah, Thomas	1950-	Inventor	
Miles, Alexander	1838–1918	Inventor	Invented electric elevator doors that automatically open and close
Montgomery, Benjamin	1819–1877	Inventor	Designed a steam operated propeller to provide propulsion to boats in shallow water
Moore, Willie Hobbs	1934–1994	Physicist	First African American woman to earn a PhD in physics (University of Michigan Ann Arbor 1972) on vibrational analysis of secondary chlorides

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Morgan, Garrett	1877–1963	Inventor	Invented an early version of a gas mask called a smoke hood , and created the first traffic light that included a third "warning" position which is standard today. Morgan also developed a chemical that was used in hair products for hair-straightening.
Nriagu, Jerome	1944–	Geochemist	Studies toxic metals in the environment; supporter of the lead poisoning thesis of the decline of the Roman Empire
Oluseyi, Hakeem	1967–	Physicist	Research contributions on solar mass-energy transfer and transformative technologies on sensors and ion propulsion; the development of space-borne observatories for studying astrophysical plasmas and dark energy.
Oyekan, Soni	1946–	Chemical engineer	Inventions in oil refining
Parker, Alice H.	1895–1920	Inventor	Furnace for Central Heating
Rillieux, Norbert	1806–1894	Engineer, inventor	Inventor of the multiple-effect evaporator
Ross, Archia	Turn of 20th century	Inventor	A runner for stoops (1896), bag closure device (1898), a wrinkle-preventing trouser stretcher (1899), a garment-hanger (1903), and a holder for brooms and like articles.
Russell, Jesse	1948–	Engineer, inventor	Wireless communications engineer
Sammons, Walter	1890–1973	Inventor	Patent for hot comb
Temple, Lewis	1800–1854	Inventor, blacksmith , abolitionist	Inventor of the toggling whaling harpoon head
Thomas, Valerie	1943–	Data analyst and inventor	Invented the illusion transmitter
Thomas, Vivien	1910–1985	Surgical technician	Blue baby syndrome treatment in the 1940s
Turner, Charles Henry	1867–1923	Zoologist	First person to prove that insects can hear and can distinguish pitch, that cockroaches can learn by trial and error, and that honeybees can see color; first African-American to receive a PhD from the University of Chicago
Virgie Ammons	December 29, 1908 - July 12, 2000.	Inventor	Filed the fireplace throat damper patent on August 6, 1974.

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Walker, Arthur B. C. Jr.	1936–2001	Astronomer	Developed normal incidence multilayer XUV telescopes to photograph the solar corona
Walker, C. J.	1867–1919	Inventor	Created black cosmetic products
Ward, Dawn N.	1973–	Organic chemistry	Creates compounds to treat Hepatitis C
West, James E.	1931–	Acoustician , inventor	Co-developed the foil electret microphone
Williams, Daniel	1856–1931	Surgeon	The first black person on record to have successfully performed pericardium (the sac surrounding the heart) surgery to repair a wound.
Woods, Granville	1856–1910	Inventor	Invented the synchronous multiplex railway telegraph
Wright, Jane C.	1919–2013	Cancer research and surgeon	Noted for her contributions to chemotherapy and for pioneering the use of the drug methotrexate to treat breast cancer and skin cancer
Wright, Louis T.	1891–1952	Surgeon	Led team that first used Aureomycin as a treatment on humans

Online Resources

<http://www.blackinventor.com>

<http://www.smith-lenoir.com> (Inventions)

<http://blackinventions.org/index.htm>

<http://www.blackinventions101.com.shtml>

www.infoplease.com/spot/bhmscientists.html

www.enchantedlearning.com/inventors/black.shtml

Print Resources

The Afro-American Inventor, C. R. Gibbs, pub. C. R. Gibbs, 1975

American Book Award author Toni Cade Bambara “History of Blacks in Cinema” panel.

At Last Recognition in America: A Reference Handbook of Unknown Black Inventors and Their Cont

Black Pioneers of Science and Invention. Louis Haber. (New York, NY: Harcourt, Brace & World), 1970

Eight Black American Inventors, Hayden, Robt. C., Addison-Wesley, 1972

Encyclopedia of Black America. edited by W. Augustus Low and Virgil A. Clift. (New York : McGraw-Hill), 1981. E 185 E55 19881 Troy H. Middleton Reference (Non-Circulating)

Great Black Heroes: Five Notable Inventors, Wade Hudson. (Scholastic Inc.: New York, Toronto, London Auckland Sydney), 1995

In Black and White, 3rd ed.; Supplement (wife)

Louisiana State University Libraries, Chemistry Library, Baton Rouge, Louisiana 708033100

Minorities in Science: The Challenge for Change in Biomedicine

A Salute to Black Inventors: Black Women Inventors, Black Science Activity Books, Chandler/White Publishing Co. Inc. (Chicago, Illinois), 1990

A Salute to Black Inventors: Communication, Black Science Activity Books, Chandler/White Publishing Co. Inc. (Chicago, Illinois), 1990

A Salute to Black Inventors: Food, Black Science Activity Books, Chandler/White Publishing Co. Inc. (Chicago, Illinois), 1990

The Schomburg Library

SHOES for Everyone: A Story about Jan Matzlinger, Barbars Mitchell. (Carolrhoda Books, Inc./Minneapolis), 1986

The Henry Baker Papers

The Smithsonian Institution

United States Patent and Trademark Office