

DUPLICATE BLANK
TO BE RETAINED BY APPLICANT

JULIUS ROSENWALD FUND

4901 ELLIS AVENUE
CHICAGO

1937 fellow

Application and accompanying documents should be filed as early as possible for the convenience of the Fellowship Committee, preferably during the early autumn. No application can be considered by the Committee unless the completely filled-out blank and all of the materials requested reach the Director for Fellowships by January 5, 1941.

Negro

White Southerner

Name in full Ulysses Simpson Brooks.

Present address J.C. Smith University, Charlotte, North Carolina.

Permanent address J.C. Smith University, Charlotte, North Carolina.
City State

Present position (be specific) Teacher of Physics and Chemistry in J.C. Smith Univ.

Institution or organization J.C. Smith University Annual salary \$ 2050.00

Address Charlotte North Carolina
City State

Specific Field Chemistry

Concise statement of plan of work I wish to spend the summer (1941) in the Laboratory at the University of Chicago in an effort to obtain additional calorimetric data to compare with predictions of Physical Chemical theory.

What institution do you wish to attend? University of Chicago

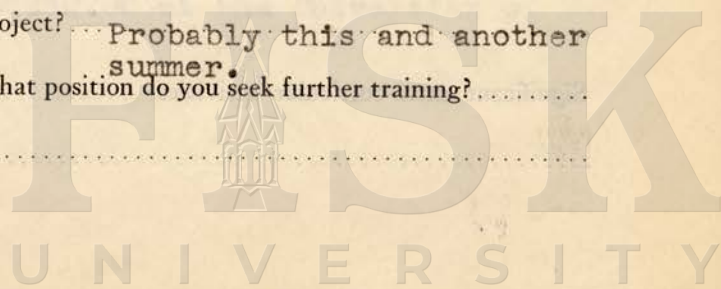
Have you been admitted? Yes For what degree will you work? Ph.D.

Under whose supervision? Dr. T.F. Young Department of Chemistry

Dates of period for which grant is desired June 15 to August 31 1941

What is your estimate of the total duration of the proposed project? Probably this and another summer.

Will you return to your present position? Yes If not, for what position do you seek further training?



Personal History

Place of birth Jamesville, North Carolina Date of birth Apr. 6, 1894
 Single, married, widowed, divorced Married
 Name and address of wife or husband Mrs. Marzette Tate Brooks, Charlotte, N.C.
 Occupation and salary of wife or husband Housekeeper
 Number and ages of children Two - 10 and 16 years of age
 Dependents Three To what extent? Totally Relationship Wife and children
 Have you any constitutional disorder or physical disability? No

(The Committee on Fellowships reserves the right to require a full physical examination.)

Education

One official transcript of your college and university records together with four copies must be submitted with your application. (Copies may be typed by the applicant.)

	Name of Institution	Period of Study (Give dates)	Degrees, Diplomas, Certificates (Give dates)
College	Howard University, Washington, D.C.	1920 - 1924	B.S.
University	Univ. of Chicago, Chicago, Ill	Summers 1928 - 1931	M.S.
	University of Chicago many summers, and	1937 - 1938	
Professional or technical			
Special study			

Significant extra-curricular activities



Julius Rosenwald Fund

4901 ELLIS AVENUE

CHICAGO

SCHOLARSHIP

APPLICATION FOR FELLOWSHIP IN Chemistry.

PERSONAL HISTORY

Date November 23, 1936.

Name in full Ulysses Simpson Brooks

Johnson C. Smith University,

Present address Charlotte, N.C. Telephone

Johnson C. Smith University,

Permanent address Charlotte, N.C.

Present occupation Teaching Salary \$2200.00 per annum

Place of birth Jamesville, N.C. Date of birth April 6, 1894

Married Yes Single Divorced Date of Marriage July 21, 1918

Name and address of wife or husband Marzette Tate Brooks

Occupation and salary of wife or husband Not employed

Number of children (give ages and sex) Two girls, one 12 and one 5

Dependents To what extent Relationship

Father's name Fletcher Brooks Address Deceased Occupation (was a carpenter)

HEALTH OF APPLICANT

Weight 175 Height 5'ft. 7.1 Previous Illnesses

(Give details and dates)

None except such diseases as measles, mumps, etc. which I had when

I was a child.

Physical impairment—degree and duration None



EDUCATION

	Institution	Dates From To	Degree or Diploma (give dates)
High School	State Normal School, Elizabeth City, N.C.	1914 - 1916	
Normal School	Academy of Howard Univ., Washington, D.C.	1916 - 1918	
College	Howard University, Washington, D.C.	1920 - 1924	B.S. 1924
Nurses' Training			
Medical School			
Postgraduate Study	University of Chicago	Summers, beginning in 1928	M.S. 1931

(I have attended the University of Chicago each summer since 1928 except 1935)

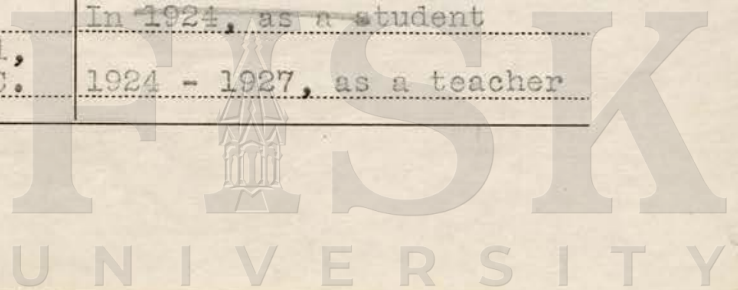
EXPERIENCE

(Medical graduates will please list internships, residence service and other hospital or professional experience. Students will include part-time work and hours per day.)

	Institution or Organization	Address	Position	Under Direction of	Salary
1924 to 1927	State Normal School (High School Dept.)	Elizabeth City, N.C.	Teacher Instructor in Chem.	Mr. J.H.Bias	\$110.00 per mo.
1927 to 1931	Texas College	Tyler, Texas	Instructor in Chem.	Mr. C.C.Owens	\$115.00 per mo.
1931 to present	J.C.Smith University	Charlotte, N.C.	and Physics	Mr. T.E.McKinney and Dr. M.E. Thomasson	\$2200.00 per annum

REFERENCES

Name	Address	When and in what capacity has this person known you?
Dr. T.F.Young	University of Chicago	Since 1928, as a student
Dr. E.J.Rosenbaum	University of Chicago 164 Shephard Ave.,	Since 1929, as a fellow student and as an individual
Dr. D.M.Gans	Newark, N.J.	Since 1930, as a student
Dr. M.E.Thomasson	J.C.Smith University, Charlotte, N.C.	Since 1931, as a fellow teacher
Dean D.O.W.Holmes	Howard University, Washington, D.C.	In 1924, as a student
Mr. J.H.Bias	State Normal School, Elizabeth City, N.C.	1924 - 1927, as a teacher





FOR PERIOD OF STUDY BEGINNING June 15, 1937 ENDING Aug. 31, 1938

\$ 750.00	Tuition.....	\$ 500.00
900.00	Books.....	50.00
400.00	Transportation.....	150.00
250.00		
Total.....		\$ 3000.00
How much can you provide?.....		1000.00
Amount requested from Julius Rosenwald Fund.....		2000.00

For what position do you seek further training? College teaching accompanied by independent research.

What course of study do you wish to take? Pure Chemistry

For what degree are you working? Ph.D.

In what institution do you wish to study? University of Chicago

Under whose supervision? Dr. T.F. Young

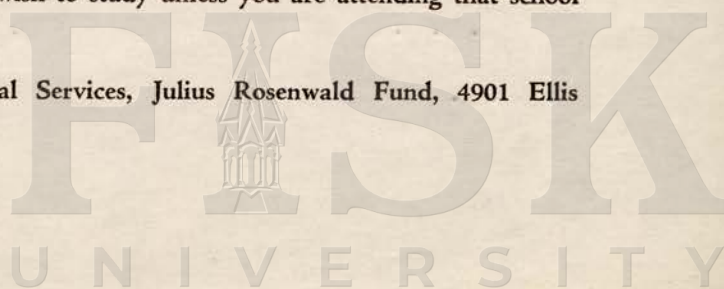
Have your credits been accepted by this institution? Yes

Give a list of scholarships or fellowships which you have held or now hold:.....

I have held a La Verne Noyes scholarship for full tuition two quarters at the University of Chicago; for half tuition six quarters. I have never had an award to pay anything except tuition.

NOTE:

1. Please attach small photograph or snapshot, writing your name on the back.
2. Arrange with your superior to send us a letter stating that you may return to your position at the conclusion of the term of study requested
3. Submit evidence of admission to the school where you wish to study unless you are attending that school at the time of application.
4. Application must be mailed to the Director for Medical Services, Julius Rosenwald Fund, 4901 Ellis Avenue, Chicago.



MEDICAL RECORD

Date 11/30/36

Name Brooks, V. S.
Occupation College Professor

Age 42

Weight 174 lb Height 67 inches

Family history (Tuberculosis, insanity, epilepsy, syphilis, etc.)

Negative

Past illnesses None since puberty

Present Physical findings:

Heart }
Lungs } Negative
Wine }

Recommendations:

JK

[Signature] M.D.
829 S. Broad St. Charlotte (address)

(OVER)

Write (in your own handwriting) an essay of not more than three hundred words, stating the major problem in your field as you see it, and your reason for believing that additional training will enable you to help solve that problem, or at least to make a contribution as a result of wider experience. Please restrict essay to pages five and six.

It is the ambition of the Physical Chemist to obtain data and develop equations so that the behavior of a solution under any set of conditions may be calculated from its known behavior under a given set of conditions. Prior to 1887 solutions of electrolytes defied such attempts. At this time Arrhenius proposed his Theory of Ionization which considerably relieved the hodge-podge of factual knowledge, and supplied an impetus for the accumulation of more facts. Divergence of behavior from prediction based on concentration was attributed to "fractional dissociation". The usefulness of this theory is restricted to dilute solutions of weak electrolytes.

As the methods of measuring the "degree of ionization" are not entirely ~~satisfactory~~ ^{satisfactory} to some workers, the idea of "activity" was introduced by Lewis about 1907. This idea is applicable to all solutions. Getting data to apply it constitutes a problem.

Theories of "complete dissociation" and "inter-ionic attraction" have been advanced by various authors. The inter-ionic attraction theory of Debye and Hückel has attracted most attention. There are uncertainties and doubts in regard to ^{some of} the tenets of these theories. Many measurements are necessary to answer any question pertaining to the physical justification of a theoretical deduction, although the question may appear superficial. To answer some questions new methods must be devised.

The work in which I wish to participate consists in making measurements to determine whether certain salts are completely ionized, to obtain accurate activity coefficients, and to study the theory of Debye and Hückel. Any worker may make a contribution by performing experiments to obtain data. I do, contact with the work often suggests new problems and new methods. Chemists are not sufficiently optimistic to hope that the entire problem of the behavior of solutions will be solved in the near future. More training on my part will provide a closer acquaintance with the more powerful methods of research in this field, and enhance my chance of making a contribution.

Experience

Give record chronologically.

Institution or Organization	Address	Position	Inclusive Dates	Annual Salary
State Normal School	Elizabeth City, N.C.	High School Teacher	1924 - 1927	\$1320.00
Texas College	Tyler, Texas	Teacher (Chemistry)	1927 - 1931	\$1035.00
J.C. Smith University	Charlotte, N.C.	Teacher (Chemistry Physics)	1931 -	\$2050.00

*Cash salary, ~~was~~
carried on books at \$2350.00
The difference is a rental
consideration*

Accomplishments

1. Of what learned, scientific, or artistic societies are you a member?
 American Chemical Society

2. What research or creative work have you done? (If in business or a profession, give evidence of standing and achievements.)
 Only unpublished research in M.S. dissertation and work toward Ph.D. at the University of Chicago.

3. Publications (Books and articles. Give title, date, and publisher.)

4. List scholarships or fellowships you have previously held or now hold, stating in each case the places and periods of tenure, the studies pursued during your incumbency, and the amounts of the stipends.
 Julius Rosenwald fellowship of \$1250.00 at the University of Chicago, 1937 - 1938.



Budget Estimate

Room and board	\$ 150.00
Clothing	
Insurance	50.00
Tuition	40.00
Transportation	30.00
Miscellaneous	25.00
.....	\$
Total amount needed	\$95 .00
Amount applicant can provide	\$145.00
Amount requested from Fund	\$150.00

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(Care of my family at home will require an additional \$225.00. I have listed only my expenses.)

If you have applied or expect to apply elsewhere for any fellowship for the same period (which is permissible) state the facts regarding such application.

No

References

List references from whom confidential information may be obtained concerning your professional qualifications and from whom expert opinion may be obtained as to the value and practicability of your proposed plan of work.

Name of Reference	Position	Address
Dr. T.F.Young	Teacher	Univ. of Chicago, Chicago, Ill.
Dr. M.E.Thomasson	Teacher	J.C.Smith Univ., Charlotte, N.C.
.....
.....

Statement of Plan of Work

Submit a statement giving detailed plans for your work during the tenure of your fellowship. This statement should include: (1) a full description of the project, including its character, scope, and significance; (2) the present state of the project (time of commencement, progress to date, etc.) and expectation as to completion; (3) the proposed university, institution of similar grade, or other place where work would be carried on, and the authorities with whom it would be done; (4) your expectation as to publication or use of the results of your study; (5) subsequent plans for your career.

Your plan of work should be complete and carefully prepared. Submit *six copies* typed on 8½" x 11" paper. Your name should be on each sheet.

SIGNATURE

Ulysses S. Brooks

