exceptional daughter (the F2 from the X-rayed female) was fertile in a second mating with an eosin-eyed miniature-winged male (the first mating was sterile) and produced one exceptional daughter (white-eyed and normalwinged). Of the five exceptional males (F, from the X-rayed female) two were proved to be fertile. The exceptional female (F3 from the X-rayed female) proved fertile when mated with an eosin-eyed miniature-winged male and produced one exceptional daughter (F4 of the X-rayed female). Since only one of the two exceptional females was fertile more data is required before it can be assumed that the exceptional females formed as a result of X-rays applied to the egg are fertile and produce further exceptions.

The experiments described confirm my earlier findings that X-rays may be made to affect the germ cells and show further that the effect produced on the first generation, so far as at present investigated, is identical with primary nondisjunction.

The writer wishes to express his indebtedness to the Research Laboratory of the General Electric Company for their continued interest in this work, to Dr. T. H. Morgan and Dr. C. B. Bridges for helpful criticism and suggestions and to Mr. O. J. Irish for technical assistance.

JAMES W. MAVOR

UNION COLLEGE, SCHENECTADY, N. Y.

THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

REPORT OF THE SECRETARY-TREASURER OF THE PACIFIC DIVISION FOR THE CALENDAR YEAR ENDING **DECEMBER 31, 1921**

January 1, 1921—Cash balance	\$	847.30
Receipts:	,	0100
Received from the permanent		
secretary's office	1,639.00	
Affiliated societies	125.00	
Dues and fees	520.00	
Finance committee, Berkeley		
meeting	98.21	
		2,382.21
		. 200 21
	76.2	3 999 51

Received from new members, initiation fees..... 109.00

163.00

290.00

230.00

Expenditures:		
Dues remitted to permanent		
secretary's office\$	293.00	
Supplies	$6.58 \\ 825.00$	
Salary 1920	75.00	
Office assistance	300.00	
Postage and express	41.00	
Telephone and telegraph	20.45	
Expense general	$5.00 \\ 81.60$	
Membership campaign	01.00	
meeting	5.34	
Ukiah Observatory donation	50.00	
*****	\$]	1,702.97
January 1, 1922—Cash balance	\$1	,526.54
BALANCE SHEET, DECEMBER	31, 1921	L
Assets		
Equipment	\$	235.73
Cash on hand		1,526.54
	ф.	760 07
Liabilities	∌.	1,762.27
Permanent secretary's office	۸.	1 400 54
Investment	·\$	1,426.54
Investment		100.00
	-	
Correction		1,762.27
SUMMARY OF ANNUAL DISE FOR THE YEAR 1921	URSEME	NTS
Supplies \$		
Salary	$6.58 \\ 900.00$	
Office assistance	300.00	
Postage and express	41.00	
Telephone and telegraph	20.45	
Expense general Membership campaign	5.00	
Ukiah Observatory donation	$81.60 \\ 50.00$	
		1,404.63
These disbursemeents have been	. mada	.,101.00
from funds derived as follows: Finance committee, Berkeley meeting	s:	
meeting\$	92.87	
Affiliated societies (assessments)		
Initiation fees	125.00	
Receipts from the permanent	230.00	
secretary's office	956.76	
		1,404.63
COMPARATIVE STATEMENT OF REC		
BURSEMENTS FOR THE YEARS 19	920 AND	ND DIS- 1091
	920	1921
Received from the permanent	220	1921
secretary's office:		
Balance on account 1919 \$ 7	50.00	
Account 1920 and 1921 1,0 Account 1921-1922		1 690 00
Received from affiliated socie-	\$	1,639.00
ties	15.00	125.00
Received from new members,	00.00	200.00
	CPS4 (12)	

Received from finance committee, Berkeley	92.87 2 1,404.63
New members enrolled	55 990
	Sargeant, ary-Treasure

THE AMERICAN ASTRONOMICAL SOCIETY

The twenty-seventh meeting of the society was held at the Sproul Observatory, Swarthmore College, Swarthmore, Pennsylvania, from December 29 to 31, 1921. This was the second time that the society had met at Swarthmore in five years, and the meeting was well attended, about sixty members and guests being present.

Social events included a reception by President and Mrs. Aydelotte, and a special program was arranged for the second evening, when the society was privileged to listen to an address by Dr. William Romaine Newbold, professor of philosophy in the University of Pennsylvania, on the subject "Evidence contained in the Voynich Manuscript that Roger Bacon possessed a Telescope." There was also an exhibit of views of the life and surroundings at some of the large observatories. Sessions for papers were held on three days.

The schedule of meetings of the society, in the near future, was announced as follows: September, 1922, Yerkes Observatory; December, 1922, Cambridge and Boston; September, 1923, Mt. Wilson Observatory; December, 1923, Vassar College.

The program of papers was as follows:

Spectroscopic notes on some variable stars:

Walter S. Adams and A. H. Joy.

Partial explanation, by wave-lengths, of the Kterm in the B types: Sebastian Albrecht.

Possible periodicity in mean sun-spottedness: DINSMORE ALTER.

Demonstration apparatus for descriptive astronomy class: DINSMORE ALTER.

On absolute magnitudes: Benjamin Boss.

The moon's motion; a postscript: Ernest W. Brown.

Median parallax; a statistical method: Keivin Burns.

Résumé of results bearing on the absolute magnitudes of the stars: Heber D. Curtis.

Changes in the spectrographic elements of Y Sagittarii: John C. Duncan.

On the daily variation in clock corrections: W. S. Eichelberger and H. R. Morgan.

A new orbit of Neptune's satellite: W. S. Eichelberger and Arthur Newton.

Stellar parallaxes determined at Dearborn Observatory: Philip Fox.

A test of two methods of measuring parallax plates: Jennie V. France.

The use of the stereo-comparator in determining proper motions: Caroline E. Furness.

Daylight observations with a transit circle: J. C. Hammond.

Daily variation in clock corrections and rates:
J. C. Hammond.

Boulengé and Aberdeen chronographs: Henry B. Hedrick.

Kepler's problem for the higher planetary eccentricities: Herbert A. Howe.

The latitude of Ukiah and the motion of the pole: Walter D. Lambert.

Preliminary discussion of the correction to the constant of nutation from day and night observations in declination of a Lyræ: Eleanor A. Lamson and Geo. A. Hill.

The discovery of faint nebular structure around R Aquarii: C. O. LAMPLAND.

The masses of binary stars: John A. Miller and John H. Pittman.

Comparison of McCormick trigonometric parallaxes with spectroscopic: S. A. MITCHELL.

The position of Neptune's equator: ARTHUR NEWTON.

The orbit of comet 1788 II: MARGARETTA PALMER.
On the orbital eccentricity of binary stars of very long period: Henry Norris Russell.

Barium and lithium in the sun: Henry Norris Russell and K. T. Compton.

Four eclipsing variables observed by Hoffmeister:
Bancroft Walker Sitterly.

Increased ionization over solar faculæ: Charles E. St. John.

The spectrum of Venus; no oxygen or water vapor lines present: Charles E. St. John and Seth B. Nicholson.

A comparison of star positions derived with the doublet with the P. G. C.: Frank Schlesinger.
Report of stellar investigations: Harlow Shapley.

Differential refraction on astronomical photographs: Frederick Slocum.

Notes on variable stars: Joel Stebbins.

The proper-motions of 154 red stars: RALPH E. WILSON.

Joel Stebbins, Secretary

URBANA, ILLINOIS.



REPORT OF THE SECRETARY-TREASURER OF THE PACIFIC DIVISION FOR THE CALENDAR YEAR ENDING

W. W. Sargeant

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