

# THE CONCORDIENSIS

PUBLISHED BY THE STUDENTS OF UNION COLLEGE

VOLUME XLII

SCHENECTADY, N. Y., TUESDAY, MAY 6, 1919.

NO. 25

## G. E. PHYSICIST TELLS OF CRYSTAL ANALYSIS

Dr. Albert W. Hall Gives Very Interesting Lecture.

### NEW METHOD USED

Research Laboratory Has Most Modern Equipment—Describes Work of Prof. Bragg.

Dr. Albert W. Hall, a prominent physicist in the General Electric Company Research Laboratory, delivered an excellent lecture on the "Analysis of Crystals by X-Ray Methods" in the Butterfield Chemistry Lecture Room on Friday evening. The talk was given under the auspices of the Sigma Xi Honorary Scientific Fraternity, but was open to college students. In spite of the fact that the lecture was full of the keen observations of a capable physicist, the discourse was very clear and enjoyed by all who had the good fortune to be present.

The speaker is a graduate of the Sheffield Scientific School of Yale University in the class of 1905. In the first place, Dr. Hall briefly outlined the work of Professor Bragg and his son. Those eminent physicists observed the reflection of X-Ray from perfect crystals of diamond, rock salt, Iceland spar and several others, and by this means they succeeded in determining the exact positions of the atoms in these crystals.

Next the lecturer described a new method of X-Ray crystal analysis which has been perfected in the local research laboratory. This method is much simpler than the Bragg method and is applicable, not only to perfect crystals but to all crystalline substances, such as organic powders and metals. The amount of material required for the analysis is less than one ten-thousandth of an ounce and the only material necessary is an X-Ray tube, a high voltage transformer, and a photographic film. The X-Ray tube is placed in a box of lead or lead glass provided with a small hole or slit through which a narrow beam of X-rays emerges. Immediately in front of this slit is a tiny glass tube containing the substances to be examined, and about six inches away is placed the photographic film. After about an hour's exposure the film is developed and shows, in addition to a very intense line in the center where the direct beam of X-rays strikes, a series of other lines, sometimes as many as 30 or 40. If the glass tube had been empty the only line produced would be the intense line in the center. The other lines are due to reflections of the X-rays from the tiny crystals in the powder.

The distance of these lines from the center are proportional to the distance between the planes of atoms in the tiny crystals. Hence by

(Continued on Page 4.)

\*\*\*\*\*  
\* OPEN HOME SEASON WITH \*  
\* COLGATE THIS AFTERNOON \*  
\*  
\* Union will meet Colgate in the \*  
\* first home baseball game of the \*  
\* season at 4:30 this afternoon on \*  
\* Alexander Field. \*  
\*\*\*\*\*

## Tennis Team Opens With Double Victory

Rutgers and N. Y. U. Defeated by Garnet Veterans.

The Varsity tennis team has returned from a successful down state and New Jersey trip. Friday the varsity met the Rutgers quartet in New Brunswick and after the dust cleared, found itself a 4 to 2 victor. In the singles Wilber of Union defeated C. N. Boocock of Rutgers 6 to 4, 4 to 6 and 10 to 8. McWatty overcame Wadsworth 6 to 4 and 6 to 3. Hawkes carried off the bacon in his match with Brant, 6 to 2 and 9 to 7. W. R. Boocock defeated Captain Lefkowitz 6 to 3 and 6 to 4.

In the doubles Union was successful in both matches. Wilber and Wadsworth defeated C. N. Boocock and McWatty by 6 to 4, 3 to 6 and 8 to 6. Hawkes and Lefkowitz found W. R. Boocock and Brant easy picking and came off 6 to 2 and 6 to 1 victors.

Saturday the team journeyed to New York and defeated the New York University team 4 to 2. Wilber, Wadsworth and Captain Lefkowitz won their matches in the singles, and Wilber and Wadsworth won their doubles. Hawkes lost his singles and Hawkes and Lefkowitz were beaten in the doubles.

## Frosh Make Social Debut With Dance

We danced again Saturday night. This time the Freshman class were the patrons of the affair. Even the most ultra-critical cynical, fault finding follower of the art Vernon Castle made famous and "Jim" Kilgallen tries to make popular, was satisfied. The music furnished by Wilkes of Troy, had charms not merely to soothe the savage beast but like Orpheus's notes would have animated the very rocks and trees themselves. But thankfully none were there—although some Freshmen possessed almost as little grace perhaps. To leave the times of Terpsichore and use a more modern expression, it was real jazz and what more could one ask?

"Joe" again furnished the chow or ambrosia and nectar if you so choose to call it, and all who had the necessary four bits enjoyed their refreshments. "Joe's" old Assistant Manager, Mildred, was on deck with smiles for all, which sort of alleviated the strain the war-taxed cream put on your pocketbooks.

## WILLIAMS VICTOR ON TRACK AND DIAMOND

### Track Men Go Down To 40 Point Defeat

Military Occupation of Union Athletes Tells Story.

#### HANLEY GETS 4TH U.

Graubart and Lyman Also Get Letters—Kieser, Williams Star, Makes Highest Individual.

The Williams track team defeated Coach Northrop's athletes in the track meet held Saturday in Williamstown, by a score of 83 to 43. The Williams aggregation was not as hard hit by the war as the Garnet team.

Kieser, the Williams star, was the highest individual scorer of the meet. He won two events and was tied for first place in two others.

Bill Hanley was Union's highest scorer. He took first in the discus throw, second in putting the shot and third in the hammer throw, making nine points.

Captain Rapelje won the high jump by clearing the bar at 5' 4" and finished third in the 120 yard hurdles. Douw Beekman was the winner of the hammer throw and was third in the discus throw and putting the shot.

Potter finished second in the 440 and was tied for first in the 100 yard dash. Abe Graubart and Lyman did well; the former coming third in the 100 yard dash and being tied for first in the 220, and the latter finishing second in the broad jump and the 220 yard hurdles.

Stevens, Davies and Dean won their aUa's by coming third in the 220 yard dash, the pole vault, and the two-mile run, respectively.

The following is the summary of events:

#### Track Events.

100 Yard Dash—Potter (Union), and Kieser (Williams), tied for first, third, Graubart (Union). Time 10 4-5 seconds.

One Mile Run—Won by Parker (Williams), second, Coan (Williams), third, Joslin (Williams). Time 4:45 2-5 minutes.

120 yard hurdles—Won by Greff (Williams); second, Philips (Williams); third, Rapelje (Union). Time, 17 seconds.

440 yard run—Won by Kieser (Williams); second, Potter (Union); third, Olsen (Williams). Time, 54 seconds.

Two mile run—Won by Brown (Williams); second, Crofts (Williams); third, Dean, (Union). Time, 10:24 4-5 minutes.

220 yard hurdles—Won by Greff (Williams); second, Lyman, (Union); third, Dana (Williams). Time 27 4-5

(Continued on Page 4.)

### Garnet Yields Tie to Purple in Eighth Inning

Union Leads Score Throughout Five Innings. BUTLER PITCHES

And Holds Williams to One-Run Victory—Berkshire Men Break Tie in Eighth.

The Williams nine defeated Union last Saturday by a score of 4 to 3. The game was hard fought throughout and it was not until the eighth inning that the Purple players broke the tie and won the game.

Union took the lead in the third inning when Bartley started things by working McLean for a base on balls; Mallory followed by gaining first when the second baseman fumbled his hit.

Gilbert then made the sensational hit of the game when he lined out a three-bagger and brought in Bartley and Mallory. Later Gilbert scored on Hanley's single. These three runs were the only ones made by the Garnet nine during the whole game.

In the fourth inning Williams scored one run and the fifth saw two more runs to their credit. No more runs were scored by either side until the eighth inning; Williams chalked up another in the eighth. This run later proved the winning tally of the game.

Once again errors proved to be the cause of Union's downfall, although a decided improvement was shown over the West Point game. Five errors were made against ten errors made at West Point.

Gilbert pitched for the first time this year and worked consistently. AL-2—CON

though he allowed twelve hits they were well scattered. Batting seems to be a weak point but work will overcome this and with yesterday's workout the team should be ready for Colgate this afternoon.

The following is the summary of Saturday's game:

UNION.										
	ab.	r.	h.	po.	a.	e.				
Reynolds, cf.	4	0	2	3	0	2				
Beaver, lf.	2	0	0	2	0	1				
Hanley, 1b.	3	0	1	7	0	0				
Wittner, c.	4	0	0	8	4	0				
Clark, rf.	4	0	0	0	0	0				
Lewis, ss.	4	0	0	2	0	1				
*Bartley, 2b.	3	1	0	0	2	1				
Mallory, 3b.	3	1	0	1	2	0				
Gilbert, p.	3	1	1	1	2	0				
Totals	30	3	4	24	10	5				

(Continued on Page 4.)

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TUESDAY, MAY 6, 1919

G. E. McD. King, '21, Issue Editor.

## Our Outlook.

Now that this year is nearly gone, some of us wonder what will happen at Union next year. "Charlie" Waldron told the student body of our financial and scholastic outlook better than we could possibly do. But there is one thing which the student body is perhaps even more interested in. That is the athletic situation. Athletics are what make college spirit. This year, all teams have been hindered by the war. But for next year, the outlook is bright; in fact Union has the brightest all around prospects she has ever witnessed. In spite of the fact that Freshmen will be debarred from football and basketball the situation is almost too good to be true.

In football, Union will perhaps see the greatest backfield in her history. Homer Goff, star quarterback and half-back in 1916 and 1917 expects to return to college. "Joe" Jones is on his feet again and will fit in well in any backfield. "Hal" Wittner will be back as quarter, and besides these three glorious stars, we have such men as George Brucker, "Chuck" Hughes and perhaps Heidorf, last fall's star. Joe Brucker, Law Comstock, Louie Rinaldi and a few others will be out for end. And in the line we'll have "Dow" Beekman, Capt. Hanley, "Bob" Gregory, Fred Klein, Daws Speer, Sid Brown and perhaps one or two others.

When basketball drives out football, Captain Brucker, Rinaldi, Hanley and Wilber will be left of this year's team. Then Jones, Goff, Joe Brucker and Hughes will return to college and make these varsity men work. The members of the Sophomore and Junior class teams are also going to give the above named varsity men a royal battle.

"Benny" Beaver is the only regular on the baseball team who will be lost in June. To offset his loss "Bill" May, perhaps the greatest outfielder Union ever had, will return. Jamieson and Smukler, the stars of last year's outfield, will also have satisfied their scholastic requirements by that time. Three varsity pitchers will also re-enter college in the fall. Homer Goff, "Chuck" Hughes, and "Joe" Brucker. So Union will make a grand record in the "old game." The class of 1923 should also furnish some prospects.

As for track prospects, there is no

need to tell how Joe Jones used to carry away four firsts in every meet last year, while two years ago "Chuck" Hughes did just as well. In Hughes, Jones and Graubart, Union will have three of the best sprinters in any college. All the middle distance and distance men of this year except Zeyfus will be back as well as several of next year's Freshman class. Hughes will take care of the hurdles as only he can. Rapelje and "Chuck" will both high-jump, while Jones will look out for the pole-vault and broad jump. In the weights, Dow Beekman will be back and there is a possibility of "Chief" Miller returning to college.

In tennis, the same team which had such a brilliant record last year and which has made such an excellent start this year will be back.

Thus it can be seen that as far as athletics are concerned, Union is to have what is perhaps the greatest year in all her history. But other things besides athletics are of importance in college life. THE CONCORDIENSIS has always endeavored to bring the news before the college and next year will increase its size. It is expected to put out a paper the size of the one which had a brief existence during the regime of the S. A. T. C. twice a week or perhaps even oftener. The Press Club also will be strengthened and thus better serve as a means of bringing the news of Old Union before the eyes of the outside world. The Frosh Parade, abandoned now for two years, will undoubtedly come off again before the last home football game. Junior Week, reduced to two days this year, will be back on its old basis again next year. In fact, everything will be on again, even better than ever before. So the Pessimist and Cynic had better hide their heads. Union is going to have her "place in the sun."

## Proctor System Defended.

Editor of THE CONCORDIENSIS:

Sir: In your excellent editorial of May 3rd on the Honor System you remark that the real point is "rather to insure fairness in examinations than to prevent a violation of ethics." This seems to me to touch at the root of the whole matter: it is primarily by the degree of fairness attained that both the Honor System and the proctor system are to be judged—by student and by teacher.

Two common objections to the principle of the Honor System seem to me to be much weaker objections from the teacher's point of view than from the students. The fact that cases brought before the Honor Court are more often brought by teachers than by students suggests that students dislike the tale-bearing involved in the second part of the pledge; just how objectionable to American students in general the first part of the pledge is, it is of course hard to judge, since those students who have a strong dislike to signing their name to an assertion that on a given occasion they were not "fishbones" would tend to avoid colleges in which the Honor System prevailed. These two criticisms of the Honor System in principle are those which I imagine are most often made by students under the proctor system; they may or may not seem of weight to students under the Honor System; certainly the fact that various other people do not like our system is no reason for our making a change. Objec-

(Continued on Page 3.)

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### Proctor System Defended

(Continued from Page 2.)

tions to the principle of the Honor System from the teacher's point of view seem to me slight as compared with the two objections just mentioned; and for this reason I am glad that the students are taking an active part in reforming a state of affairs which, as you say, has recently been a cause of dissatisfaction on the part of all. Please do not take this as an attack on the Honor System. Good points in the Honor System I have passed by for the reason that we are all familiar with them. And in mentioning the two stock objections which I have mentioned, my purpose has been in part to provoke expressions of undergraduate opinion and so to learn whether undergraduates think those objections serious.

Just one point, in closing, about the proctor system. You say, "it is readily apparent that the proctor system is another which courts disaster without getting at the real point, which is rather to insure fairness in examinations than to prevent a violation of ethics." For all I know, this may be true in the majority of institutions in which the proctor system obtains; but I have my doubts. From my own undergraduate days under the proctor system (though they were long ago, I can remember something about them, for they lasted seven years!) and from my experience as a teacher under the proctor system for five years, I can recall hearing of only three instances of dishonesty in connection with examinations. None of those instances occurred in classes where I was present either as teacher or as student (this I say to clear myself!); and in each instance the offender was immediately expelled from college. During those twelve years I never saw anyone try, successfully or unsuccessfully, "to give or to receive aid" in an examination. This of course doesn't prove that the proctor system is the system we ought to have; and I have failed to mention unfavorable criticisms of the proctor

system just as I failed to mention favorable criticism of the Honor System; it proves only that, if the proctor system "courts disaster," it can on occasion be kept from winning its suit.  
FRANCIS H. FORBES.

### FROSH NO MATCH FOR SOPHOMORE BALL TEAM

Haircut Champions Run Away From Green Capped Rivals. Husted Stars.

The Sophomores simply romped away with the Freshmen in the first of the underclass baseball games, Saturday. The outcome of the game was never in doubt. "Bill" Husted, pitching for the second year men, held the Freshmen to five hits and fifteen green capped youngsters were retired by the strike-out route. "Bill" passed but one man. O'Brien, Jamieson, Smukler, Tracy and Schermerhorn all hit well for the Sophomores. Jazell's hitting featured for the Freshmen. The score follows:

	ab.	r.	h.	po.	a.	e.
Hendrickson, 1b.	5	0	0	8	0	1
O'Brien, cf.	4	2	2	0	0	0
Husted, p.	4	1	0	1	4	0
Jamieson, c.	4	3	3	13	2	0
Schermerhorn, rf. 3b.	4	1	1	0	0	0
Brucker, 2b.	5	1	2	1	1	1
Smukler, lf.	4	1	2	1	0	0

Allerton, lf.	1	1	1	0	0	0
Wemple, ss.	3	1	2	3	1	1
Tracy, 3b.	4	1	2	0	1	0
Hoyt, rf.	1	0	0	0	0	0
Totals	39	12	15	27	9	3

1922.

	ab.	r.	h.	po.	a.	e.
Newton, ss.	4	1	0	1	4	1
Bennett, 3b, cf.	3	0	1	0	0	0
Martin, c.	2	0	0	3	0	0
Prior, 2b.	2	0	0	2	2	0
LaPau, 2b, c.	4	0	0	9	3	0
Kobak, p.	4	0	0	1	3	0
Dain, 1b.	3	1	1	11	1	0
Jazell, rf.	4	1	2	0	0	0
Kuzenbaum, cf.	2	0	0	0	0	1
Wallace, 3b.	2	0	0	0	2	1
Learey, lf.	2	0	0	0	0	0
Shafers, lf.	2	0	0	0	0	0

Totals	35	3	5	27	11	3
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Score by Innings.

1921	2	0	5	0	0	1	0	4	12
1922	0	0	0	0	0	1	0	0	2

Two base hits—Smukler, Jamieson, Wemple, Brucker. Hits—Off Husted 5, off Kobak 15. Bases on balls—Off Husted 1, off Kobak 2. Hit by pitcher—By Kobak 3 (Wemple, Husted, Jamieson). Passed balls—Martin, LaPau, Jamieson. Wild pitches—Kobak 2. Stolen bases—Bennett, Dain, Jazell, O'Brien (2), Wemple (3), Husted, Schermerhorn, Brucker, Smukler, Tracy (2), Allerton. Struck out—By Husted 15, by Kobak 9. Umpire—Rosenkrans '17. Scorer—King '21.



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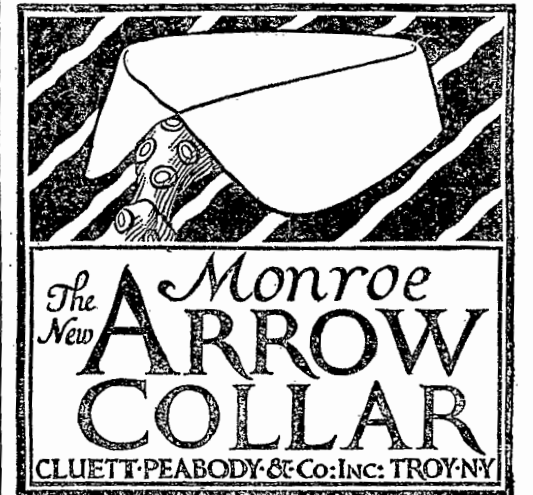
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### G. E. PHYSICIST TELLS OF CRYSTAL ANALYSIS

(Continued from Page 1)

measuring the positions of these lines, the distance between the planes of atoms, and hence the positions of the atoms themselves, can be calculated. In this way a large number of metals and simple chemical compounds have already been analyzed and the positions of the atoms in them accurately located. This was illustrated by lantern slides and models. It has been found possible by this method, said Dr. Hall, to go even further and find the positions of the electrons inside of the atoms, that is, to investigate the structure of the atoms themselves. Some preliminary results of this investigation were given. The lecturer next discussed in detail the use of these X-Ray powder photographs for chemical analysis. Since each substance always produces the same pattern of lines and no two substances give the same pattern it is possible by photographing a sample of a substance to determine with certainty not only what chemical elements it contains but whether these chemical elements exist separately or are chemically combined. This method of analysis is thus more powerful than any other known chemical method. The chemical methods can only tell what elements are present and not how they are combined.

Several examples of actual analysis were given and illustrated by lantern slides and photographs.

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### TRACK MEN GO DOWN TO 40 POINT DEFEAT

(Continued from Page 1)

seconds.

880 yard runs—Won by Stewart (Williams); second, Kellogg (Williams); third, Penfield (Williams). Time, 2:02 2-5 minutes.

220 yard dash—Won by Graubart and Kieser (tied); third, Stevens (Union). Time 24 seconds.

#### Field Events.

Putting the 16 lb. shot—Won by Mills (Williams); second Hanley (Union); third, Beekman (Union). Distance, 34 feet, 11 inches.

Pole Vault—Won by Brown (Williams), and Spink (Williams), tied; third, Davies (Union). Height, 10 feet, 6 inches.

Discus throw — Won by Hanley (Union); second, Kieser (Williams); third, Beekman, (Union). Distance, 102 feet, 2 inches.

Running high jump—Won by Rapelje (Union); second, Anderson (Williams); third, Wallace (Williams), and Wickwire (Williams) tied. Height, 5 feet 4 inches.

Hammer throw—Won by Beekman (Union); second, Sidley (Williams); third, Hanley (Union). Distance, 111 feet.

Running broad jump—Won by Kieser (Williams); second, Lyman (Union); third, Wickwire (Williams). Distance, 20 feet 4 inches.

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### GARNET YIELDS TIE TO PURPLE IN EIGHTH

(Continued from Page 1)

WILLIAMS.

	ab.	r.	h.	po.	a.	e.
Callahan, ss	4	0	1	3	1	1
Mason, 2b	4	0	1	2	1	1
Brown, 3b	4	1	2	3	0	0
Manning, 1b	4	0	0	5	0	1
Finn, c.	4	0	1	6	0	0
Roth, cf.	4	3	4	2	0	1
Payin, lf.	3	0	1	1	0	0
Boyden, rf.	4	0	2	2	0	0
MacLean, p.	3	0	0	1	4	0

Totals 34 4 12 27 6 4

Two base hits—Brown. Three base hits—Gilbert. First on balls—Off MacLean, 2; off Gilbert, 2. Struck out—By MacLean 6, by Gilbert 5. Hit by pitcher—Hanley.

### CLASSICAL CLUB

#### MEETS TONIGHT

There will be a meeting of the Classical Club tonight at 7:15 P. M., in Professor Bennett's Greek Room in North Colonnade. Officers will be elected for next year, and Freshmen classical men will be chosen as club members. Metzner '19 will also read a paper on the "Renaissance."

Eight thousand one hundred and seventy-eight Yale men during the war entered twenty-four branches of the Allied service. The field artillery was the most popular branch, while aviation ranked third with 712 men in service. The list of men killed in action contains 188 names, and 197 men are credited with having received decorations. In every branch of the service except the navy the number of commissioned officers exceeded the number of enlisted men.

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