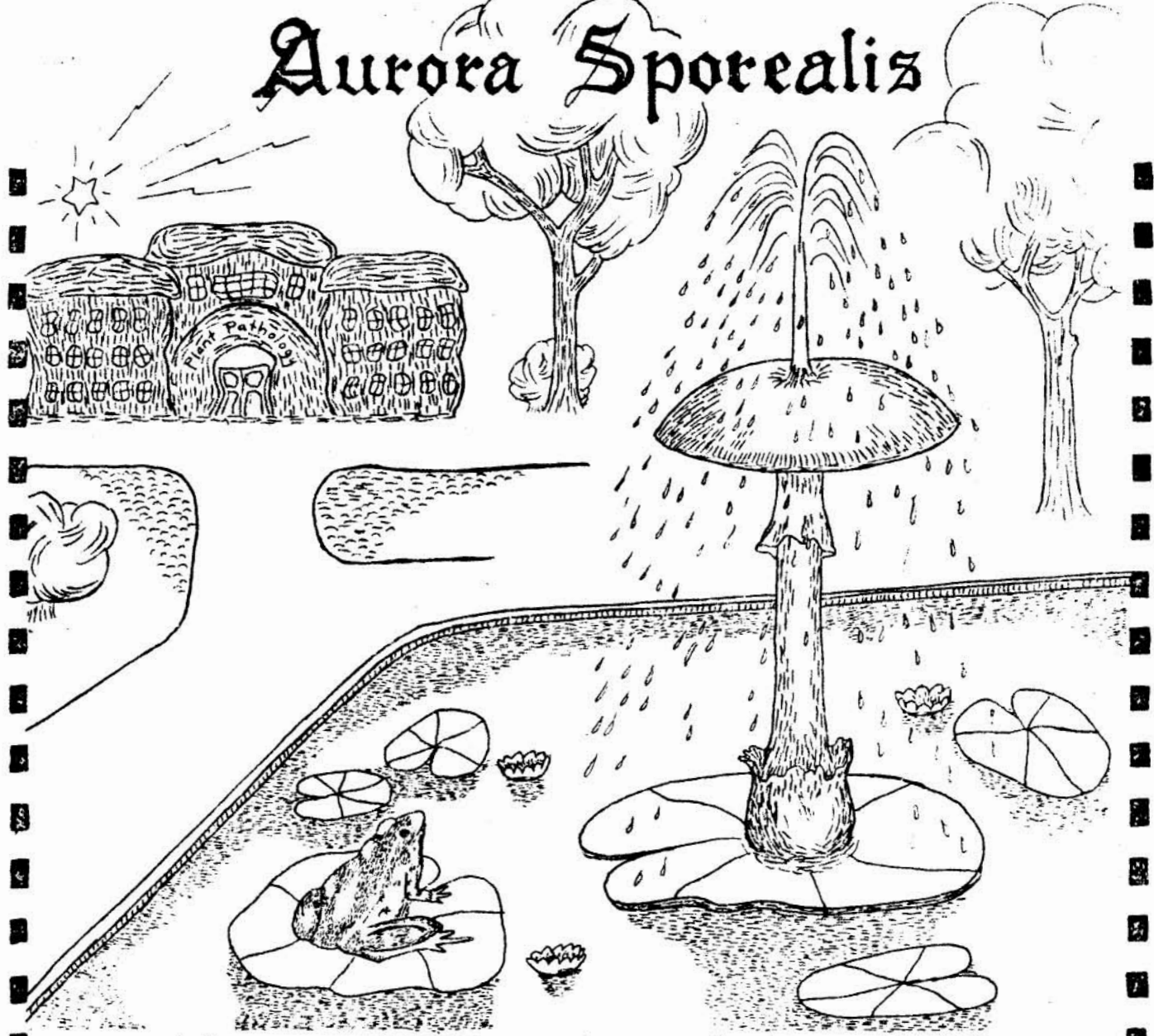


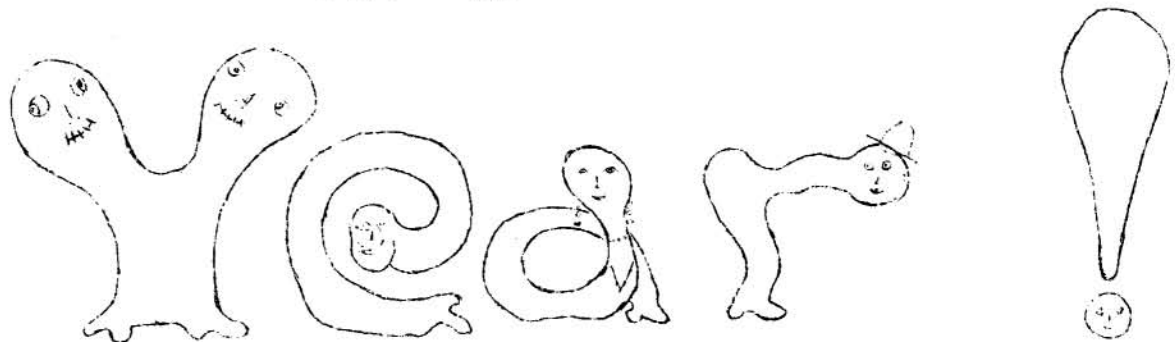
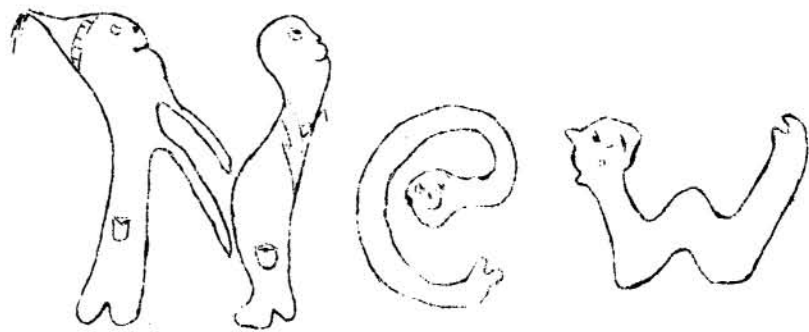
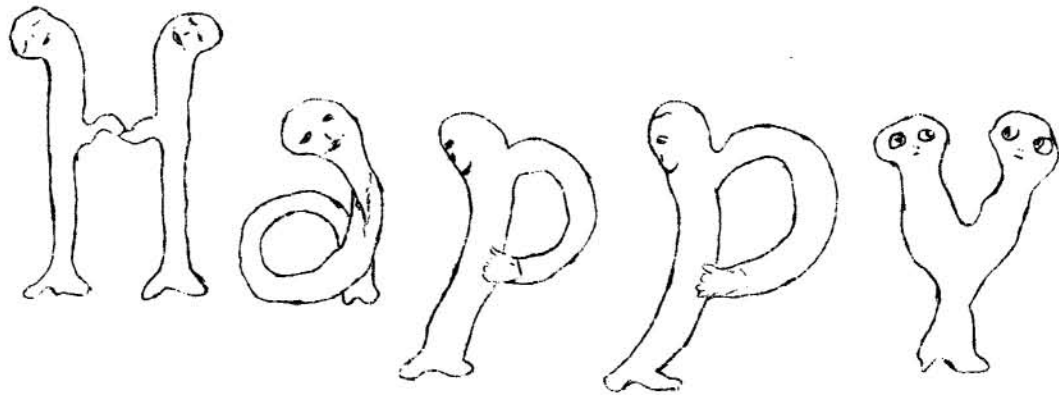
Aurora Sporealis



Wherein are recorded the recollections, the ruminations and the raspibrations of those who have drunk from the foaming fount of the Department of Plant Pathology of the University of Minnesota and who now spout forth in divers ways.

Let the fount foam and never rundry,
Let the spout squirt and never lose power.





OLD TIMERS' COLYUM

This time YE ED is going to sneak into print in spite of fire, flood, or the omnipotence of the ED-IN-CHIEF. Did you ever bring literature to Lit. Sem. several times in succession without a chance to review it? There was something like that in connection with the O. T. COLYUM last time. But we learn to suffer in silence. Just because we refuse to be silent this time, however, some one else must suffer. Silence may be golden, but it is a gift, not an acquisition. And YE ED has not opened his Christmas presents yet!

-o-

Several have recently become Old Timers: WESTERN, SYED, MISS BECKER, and M. W. CORMACK. How fast they mutate! We can only hope that each mutation is progressive.

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WESTERN is at Aberystwyth, Wales, giving lectures about U. S. A. and working on his thesis in the intervals between reminiscences and anecdotes regarding what Gemmell calls the Benighted States. Western states that he has not observed heterosis in Ustilago spp. on oats but suspects halitosis in Tilletia foetens.

SYED (Vaheeduddin, to be precise) circumnavigated U. S. A. by land on his way to San Francisco, then took to the water, stopped in Japan to visit several institutions, and his last report was from China where he saw Dr. Pan and Dr. and Mrs. H. K. Hayes in Nanking, talked at an evening smoker, and, maybe, smoked a big black cigar. Probably not. Tell us in your own words, Syed, written as you write in Hyderabad.

DR. BECKER, the freshman¹ among Old Timers, visited Geneva and Ithaca, N. Y., Washington, D. C., and several other places on her way to renew acquaintances with The Bremen, boat and city, and the Vaterland. Meager reports indicate that she was initiated into the O. T. Organization in Washington and, despite that, caught the boat. Or and Oder?

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In late November there forgathered one evening in Washington a collation of O. Timers, carefully chaperoned by Drs. Deacon Coons and H. H. McKinney. The ecclesiastical connotation was evidenced by light refreshments, the civil connotation by the civility of several non-melodious collators who nevertheless obligingly furnished the libretto of Tyrolean Songs to a billowy blonde warbler possessed of blastematous cranium, vociferous larynx, and nepenthe that led to sweet oblivion of words, time, place, and troubles, but conduced to tuneful vocalization. Thus does the spirit of cooperation gently insinuate itself into the Sciences and Arts.

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Under one roof, or two, in Washington just before December kicked November out, there gathered the following Old Timers, alphabetically listed²:
HENRY (Hank) BARKER, PHIL (The Meathouse) BRIERLEY, CHARLEY (Prune Ranch) HURSH, HOWARD (Johnnie) JOHNSON, E. B. (Ebie) LAMBERT, RALPH (Strike em out) LINDGREN, RALPH (Nellie) NELSON, HERMAN (Cal Coolidge) RODENHISER, LAWRENCE (Mantilla) SCHAAL, JOHN (Names em) STEVENSON, FREEMAN (Ency. Brit.) WEISS, and YE ED.

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DR. KURT HUBERT sends greetings to the Tottering Turm and all the Bekannten therein and thereout. The Dr. is engaged in extension work in Pflanzenschutz in Provinz Sachsen (Province Saxony to us). His headquarters are in Halle a/S., famed in song, story, and for KÜHN. Hubert's daughter, Ursula, already is a sunny and sturdy little Fräulein, as is apparent from a photograph. She should soon give her Vater advice on his duties in control of fruit and vegetable diseases and pests, seed treatment, Feldmäusebekämpfung, and polishing asparagus to keep it from rusting.

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HARRY UKKELBERG is still at Ford Farms, Ways Station, Georgia, working on the dairy aspects of goldenrod, on tung oil trees, perilla, safflower, etc. What a

¹ Cormack has become an O. T. since this was written. He is already back in Edmonton, where he will be given the III degree by O. Ts. Henry, Broadfoot, and Sanford.

² The parentheses are ours; please return them if you don't like them.

euphonious group of posies to work on or put to work! Ukkelberg's home address is 123 W. Gwinnett St., Savannah, Ga. (bachelor quarters). He promises to pin a giant goldenrod on any O. T. whose peregrinations take him that way. How about a little tung oil; some people in seminars need it!

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According to a letter from DR. WATERHOUSE, DR. JOHN G. CHURCHWARD still is researching and etc. right merrily and effectively at Sydney University.

CEREAL INVESTIGATOR

Gains Doctorate in Agriculture

The degree of Doctor of Science in Agriculture has been awarded to Mr. H. J. Hynes, M.Sc., B.Sc., Agr., by the Senate of Sydney University.

The thesis submitted for the degree, which embraces 10 years' investigations by Dr. Hynes during his activities as senior assistant biologist, Department of Agriculture, is regarded as a brilliant contribution to the knowledge of root rot diseases of wheat and other cereals.

This is the third time since the Faculty of Agriculture was established 26 years ago that the doctorate has been granted.

P H O T O

Dr. Hynes entered the Faculty of Agriculture as a scientific trainee of the Department of Agriculture, and graduated with honours in 1923. Shortly afterwards he was awarded the Walter and Eliza Hall Agricultural Research Fellowship. During the second year of tenure of the Fellowship Dr. Hynes studied at the University of Minnesota, where he gained the degree of M. Sc. in 1925 for a thesis dealing with rust in wheat. He then resumed his duties with the department, and in 1927 was promoted to the position of senior assistant biologist.

Dr. Hynes was secretary and editor of the official organ of the Sydney University Agricultural Graduates' Association known as "Suaga" for five years. He was actively associated with the formation of the Australian Institute of Agricultural Science, and was appointed editor of the journal of the institute.

From a Sydney paper.

BRAVO, DOCTOR!

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Nothing has been heard from CLYDE ALLISON Ph.D. since the last report that he was getting thoroly acquainted with tobacco in various sections of Tennessee. Can it be that tobacco got too well acquainted with various sections of him?

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DR. J. G. (Dutch) HARRAR is still teaching and investigating at V. P. I., Blacksburg, Va. Unfortunately, Mrs. Harrar recently underwent a serious operation but is recuperating satisfactorily.

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The news that Minnesota beat Michigan at football percolated thru the Scottish mists to Edinburgh, where TERVET saw a bright beam of light on the self same day.

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Which reminds me! Where is that sugar-beet pulp cigar that is "coming to me"?

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GEORGE HAFSTAD, 5618 Drexel Ave., Chicago, is still studying geography and geology at the University of Chicago, on the Midway Plaisance.

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It's a weary wurruld--to many, but not to BOB ATKINSON. He won't let it get weary and it won't let him get weary! After a summer vacation during which he and his Missus explored the Southwest horizontally and vertically, he went back to Louisiana University, where they have the second best football team in the U. S., and has been raising cane, assisting in Plant Path lab, Bact.lab, Mycol. lab, taking a couple of Seminars, collecting fungi -- many unknown to him, so he says, working on a thesis, collecting grasses, taking pictures..... And.....he lost his secretary--his wife, who has enrolled as a student.

According to Bob, both FORBES and CHRISTOPHER are teaching like the dickens. How do you mean, teaching like the dickens?

Bob also writes, "PERSON has a sweet potato disease....." Teeny always was popular with the ladies, but who ever thought he would get a sweet potato disease!

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From the National Chekiang University, Hangchow, China, comes news of DR. LOH, who now is the proud pater of a daughter, Lillian. In addition to teaching, Loh is doing research on Sclerotal troubles. We expect him to break into print before long. He sends his regards to Aurora.

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TYLER (Cornell) says his son is brown and tough as an Indian. Right, Doc; make em tough--may need it.

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From Liberia comes word from McINDOE, the leopard hunter, that the Minnesota contingent still comprises healthy, vigorous specimens. WISMER is about due for leave; HINES has only a couple of years to wait. How about sending us a list of Liberian plants and mammals?

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JIMMY WALTER has found a place in England where the atmosphere is worse than that in Pittsburgh, but, luckily, he does not live there. He has visited Holland, Belgium, and France, Scotland, and most of the Elms in England. Also has a nursery of 2000 Elms near Oxford. Summer arrived in England about Aug. 15 and ended about the 25th, according to Jimmy. A little breath of "Ole Kaintuck" should help. It's a long time between Auroras, according to Jimmy.

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FELIX SCHNEIDERHAN, Kearneysville, W. Va., whose good old soup bone won many a game a couple of decades ago, opines that the view that Northwestern was superior to Minn. this year is just plain QUATSCH.

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HENRY DARLING writes from Fairhope, Alabama, that he now has a little laboratory and is busy with extension work and planting plans for spring. He sent

a bushel of Satsuma oranges to the T. T. They made a dramatic entry just before Lit. Sem., and then did as rapid a disappearing act as ever an Indian magician could conjure up.

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VOORHELS writes from Florida that the summer issue of Aurora arrived, was appreciated, and is lonesome for company. He thinks the atmosphere in the T. T. has probably changed since Kernkamp fell into macaroni (Italian for the ensnarements of matrimony), since Decker seems to continue falling, since Western's jolly tales are recounted elsewhere, since Syed has departed. He hopes the China Clipper will not bear Ling and Wang away until he comes again, and is not surprised at Darling's descent into matrimony, since Voorhees has lived in Florida long enough to know what effect Southern heat may have on tender organisms. He gives the following account of himself: "Working hard."

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"You see, the kids grow older; so do the parents. Gray hairs compete with those of darker hue! + or -, around and around they go." Thus spake JIMMY SEAL from Auburn, Alabama, when mentioning the fact that Jimmy Jr. is a senior in high school and Billie a freshman. Shades of the Blue Room! Is it that long ago? Well, the moon and the memories are still bright: the cats still caterwaul, but not the same, but not the same!

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It is almost time for "Stille Nacht, Heilige Nacht." The COLYUM should begin to taper off, at least gradually, like a wood fiber, but preferably abruptly, like a bob-tailed tracheid. But YE ED copped an idear offen a Suabian German prof.

"ALSO PASSET UFF"

At a joint meeting of professors and wine growers in a South German University town the prof. made a crack to the effect that the town was a dinky little place when the students were away on vacation--about three fourths of the year. This provoked great merriment, as there apparently was a standard joke about profs. being paid for the entire year when they taught only part of the year. In their own dialect the prof. reminded the growers that they spent most of the year in growing grapes and only a short time in making and purveying their wine. And Univ. profs., intellectually speaking, were expected to grow choice grapes, make the most palatable wine, and dispense it graciously. They were expected to PRODUCE wine, not merely PURVEY that produced by others. And producing intellectual wine required planting, pruning, cultivating, and all the other laborious preliminaries quite as much as producing imbibitional wine. The prof. said further that in good vintage years the growers were prone to pound their chests and say "Ha! I produced the grapes from which that wine was made!" But in poor vintage years they shrugged their shoulders and remarked, "So hat es unser Herrgott wachsen lassen!" Ketch em? And so --

MAY 1937 BE OUR BEST VINTAGE YEAR!

But if it isn't, let's evaluate our own efforts before we blame "Herrgott."

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Old Timers at Atlantic City

There were 24 Old Timers at the Phytopath. Mtgs. at Atlantic City. Their activities constituted a normal curve, altho there may have been some tendency toward skewness on one or two occasions. There were two attempts at a round up, which, unfortunately, were not completely successful. However one evening was spent in recounting and reliving feats of intellectual and physical prowess. Peace be with the Nobility!

THE MINNESOTA CONTINGENT AT THE PHYTOPATH MEETINGS

C. G. Anderson, Quarantine Inspector, Port of New York

Robert E. Atkinson, Louisiana University

Dr. D. L. Bailey, University of Toronto

Dr. H. D. Barker, Division of Cotton and Other Fiber Crops, Washington, D. C.

Dr. W. S. Beach, State College, Pa.

*Reiner Bonde^a, University of Maine Experiment Station

†Dr. Philip Brierley, U. S. Horticultural Field Station, Beltsville, Md.

Clyde Christensen, Tottering Tower

T. W. Graham, Dutch Elm Disease Laboratory, Morristown, N. J.

*Dr. J. G. Harrar, Virginia Polytechnic Institute

Lyle W. R. Jackson, University of Pennsylvania

Frank Kaufert, DuPont Co., Wilmington, Del.

Glenn KenKnight, Michigan Experiment Station

C. V. Kightlinger, U. S. Dept. Agr. (Massachusetts Agricultural College)

Dr. E. B. Lambert, Mycology and Disease Survey, Washington, D. C.

Camille Lefebvre, Kansas Agricultural College

Lee Person, Louisiana University

Dr. P. D. Peterson, Freeport Sulphur Co., New York City

*Dr. H. A. Rodenhiser, Arlington Farms, Rosslyn, Va.

*L. A. Schaal, U. S. Dept. Agr., Beltsville, Md.

*Dr. F. J. Schneiderhan, West Virginia Experiment Station, Kearneysville

J. A. Stevenson, Mycology and Disease Survey, Washington, D. C.

Dr. H. H. Thornberry, U. S. Dept. Agr.

Dr. W. D. Vallean, Kentucky Experiment Station

*Dr. Freeman Weiss, F. and O. Horticultural Plant Investigations, Beltsville, Md.

* Presented papers, alone or in conjunction.

† Presided over Section on Diseases of Ornamentals.

^aCounted votes.

Among the VISITORS to the Tottering Tower were G. R. HOERNER, who is engaged in hop diseases investigations at Oregon State, on November 21; and DR. WALTER RIPPON, self-styled "Wanderlust Entomologist" from Vienna, on December 21.

THE BULLETIN BOARD

is gay with greetings from Old Timers. WALTERS and WELLENSIEKS, SYED and KAMAT, HANNA BECKER, CHURCHWARD, WEI, HOLTON, D. C. SMITH, MONICA and OLAF AAMODT, MR. and MRS. PAUL PETERSON, STAN and OLLIE SWENSON, UKKELBERG, and THORNY say Merry Christmas! ROSEMARY McLEOD sends "Child Life" for Aurora's edification, and best wishes arrive from VINCENT and GLADYS KEILMAN via Western Union. Three STARRS in Wyoming beam upon us from snapshots, as does Baby PAUL VANCE. Perhaps the strongest message comes from CLYDE ALLISON, attached to a twist of Tennessee

tobacco! "In order to uphold tradition I am sending sample of the most important crop in U. S. A...Please see that every one gets their share and give Q.C.F., at least Matt and Jonas, a double chew. (Office force omitted)" If we may say so, this is more than we expectorated!

FOREIGN LEGION AFFAIRS

SYED in NANKING (Don't think that is a continuation of "Charlie Chan in Shanghai") -- After arriving in his own country, nobody has heard from Syed yet, even not Earle Hansen. The last report we received is that Syed visited Nanking, China, for two days. C. L. PAN met him in the depot and introduced him to the Chinese agricultural institutions. That evening, Dr. H. K. HAYES gave a smoker in his house in honor of our 52nd Ph.D. Then once more Syed's "HETEROSIS" was delivered.

CORMACK came back once more from Edmonton to receive his doctorate degree, and Mrs. Cormack followed to receive her "doctorated" husband.

All of us miss DR. BECKER a great deal, but who misses her the most? Dr. Hart ought to feel lonesome going to the Cafeteria alone. Tsiang lost a teacher as nobody teaches him "Sprechen sie Deutch" any more. Nobody will pay attention to Downie's guess any more, since Dr. Becker was the only one who said Downie was a good guesser.

An epidemic of flu spread from Q.C.F. to Foreign Legion and made both GEMMEL and GIBBS disappear for a few days. How lonesome the Foreign Legion was without those two British people around!

LING went to Chicago during the vacation to attend a conference sponsored by the Institute of Oriental Students for studying Human Relationships. Being so tired studying the host-parasite relations, it was a good change for him. But in the train on his way back he began to worry about what to write for the Aurora, as the deadline was supposedly the next day.

BOOKSHELF

Graham, T. W. Persistence of Ceratostomella ulmi in stumps of eradicated Dutch elm diseased trees in New Jersey. U. S. Dept. Agr. Plant Dis. Reporter 20: 320-322. November.

Johnson, Howard W. Effect of leaf hopper yellowing upon the carotene content of alfalfa. Phytopath. 26: 1061-1063. November.

(One wonders whether our contributors have been concentrating on Christmas cards?)

-0-

Levine, M. N. (with H. C. Murphy). A race of crown rust to which the Victoria oat variety is susceptible. Phytopath. 26: 1087-1089. November.

Wang, C. S. Viability and longevity of chlamydo spores of Ustilago crameri. Phytopath. 26: 1086-1087. November.

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Freeman, E. M. In praise of parasitism. Scientific Monthly 44: 67-76. Jan., 1937.

LITERATURE SEMINARS

November 19. Dr. William Bramble, head of the Botany Department at Carleton College (Northfield, Minn.), recently returned from a years study in Europe, talked about his experiences abroad. Dr. Bramble spent most of his time in Gaumann's laboratory in Zurich, where the working hours are 7 a.m. to 12 p.m. and 3 p.m. to 7 p.m. Two things at least he learned from Gaumann. These were: "First comes life; then botany." And: "Keep well; take a glass of wine now and then." Gaumann's field trips were evidently planned to see how the budding scientist could take it, with hard work in the field from early in the morning and merry-making until late at night.

While traveling in Sweden, Dr. Bramble went fishing, sleeping three nights in a barn with several other people. Evidently Sweden is everything that it is reported to be, but the nights in the summer seem rather short--11 p.m. to 2 a.m. It is sad to think that Dr. Bramble could not have visited there in the winter as well, but mature reflection reveals that it is not only too cold, but also probably too dark most of the time to fish.

-9-

December 3. At this meeting the old seminar committee, consisting of Earle Hanson, Bob Cassell, and J. G. Gibbs, relinquished office and a new one, consisting of Gibbs, chairman, Lew Allison, and Tommy King, took their places. Prof. Stakman gave a farewell address, touching on many subjects of intellectual interest, including the fact that in humans the greatest intellectual activity occurs before the age 30. Athletic ability reaches its peak even earlier. To quote the professor: "Athletes are middle aged at 25, old at 35, and senile at 40. Some of us are good long after that, however." (T. C. Loh is invited to comment).

Following this the new committee spoke briefly and individually. We are still trying to figure out whether Allison meant to give a funny talk or if what he said is his idea of serious discourse. If it is he should be a politician. J. G. Gibbs, the new chairman, in telling his idea of the functions of a seminar, invited all members to bring their knotty problems up and let the group help them out. The younger generation looked upon this suggestion with some distrust, because Gibb's "knotty" sounded like "naughty." Or maybe it was "nutty."

The new committee started out its work in a very businesslike manner. Refreshments were brought in at 9:45 and served promptly. Our only criticism of Earle Hanson, late chairman, is the way he used to bring in the coffee and then let it stand and get cold while every one drooled and fidgeted.

-10-

The Literature Seminar met Thursday, December 10, at the recently acquired and more recently sold¹³ home of Dr. and Mrs. Bamberg. The guest of honor and chief speaker of the evening was the very very new "Dr." M. W. Cormack who told us all about the fickle nature of Fusarium avenaceum. This was followed by a discussion of the educational system of Canadian Universities as typified by the University of Saskatchewan and told by Dr. White. After this intellectual feast we learned the secret of that well fed look worn by Dr. Bamberg. Mrs. Bamberg, aided by Mrs. LeClerg, served us with coffee, ice cream, and the best apple pie one ever tasted. And so ended a perfect seminar --

-11-

On November 21 one of the oldest of old timers, Godfrey (but he has young ideas) Hoerner, spoke to the gang on the subject of hops and hop diseases. To most of us whose acquaintance with hops has been united to the so-called bitter taste

¹³ See note in personal column.

of beer, the talk was very enlightening. It was well illustrated with clear cut lantern slides and was presented in a very entertaining manner. We enjoyed the visit of the OLD TIMER from Oregon, and we hope he comes again and often.

REGULAR SEMINAR

Still working on short topics. The long papers have been assigned, each person choosing his own topic, with the approval of the committee. It is doubtful that any of these will be given until the second or third period of the winter quarter.

MORE ABOUT US

E. C. STAKMAN enlightened his colleagues of the National Academy of Sciences with a paper on variation in Ustilago zeae, presented at their annual meeting in Chicago November 16 - 18.

Two Minnesota Ph.D. degrees alighted on plant pathologists this December: BILL CORMACK came to claim his sheepskin "in person," while SYED received his scroll "in absentia."

FRED DAVIES decided to be his own Santa Claus this year, so on December 22 he went thru all the formalities of the "preliminary examination" and came off victorious.

Vacations upset research program! Time tables, weather conditions, and highways were absorbing topics of conversation just before Christmas. CHILTON and HENSON hit the railroad ties for their respective empires of Louisiana and Kentucky, CASSELL followed the open road to Iowa and Illinois, DOWNIE and DECKER drove their bus to Waseca and Kansas, while CLYDE CHRISTENSEN followed air channels to N.Y.C. KING departed for the North Country of Fargo, and E. C. S. and FRANK KAUFERT hastened to attend the Atlantic City meetings. LEW ALLISON made tracks for the wilds of Montana, but LEE LING was lured to a student conference in the Windy City of Chicago.

BILL CORMACK and his wife, MILDRED, were in St. Paul for a few December days. Bill took his final oral exam, educated the seminar a couple of times, and marched across the platform for his doctor's hood. His presence and accomplishments gave us occasion for another tea party.

FRANK KAUFERT has deserted Minnesota to accept a position with the Pest Control Research Division of the DuPont Company in Wilmington, Delaware.

R. H. BAMBERG, one of the Three Musketeers in the Dark Ages of the Tottering Tower, also deserts Minnesota for other climes ----- the Agricultural Experiment Station at Bozeman, Montana. Bam goes West February 1, providing Montana is not snowed under.

Everybody was hoping that exams in Mycology or Genetics of Plant Pathogens would be the "Merry Christmas" kind, but there was no such luck this year.

At the moment of going to press "influenza" is ravaging the Tottering Tower. We hope it's not spread by mimeograph ink.

Christmas week brought 2500 Minnesota Farmers and Homemakers to the Short Course at University Farm. Plant pathologists did their share of talking when J. J. Christensen, J. G. Leach, R. C. Rose, L. Dodsall, and Matt Moore made speeches, answered questions, and made themselves generally useful.

A. G. TOLAAS was elected secretary-treasurer of the Minnesota Potato Improvement Association. The Association was organized during Farm and Home week with a charter membership of more than a hundred members.

SPORTS

Football

Football for the season of 1936 is over, but for those who may not read the newspapers, we might inform you that the Golden Gophers are again National Champions.

Edwin Widseth, an all-round tackle, has been placed on every important All-American team picked.

Minnesota was represented in the All-Stars Game New Years Day by Ed Widseth, tackle, and Bud Svendsen, center. They each had a part in defeating the western All Stars in a close game, the score being 3 to 0.

Hockey

Minnesota's puck team opened the season in great style by defeating a strong Dartmouth team 2 to 0 and 3 to 1. Avoiding injuries they should again make a strong bid for the Big Ten Championship.

Basketball

1. Minnesota opened the season December 5 by trouncing Carleton College 41 to 11. A good game for Minnesota.
2. On December 12 North Dakota State eked out a 33 to 29 victory over the fighting Gophers.
3. Kansas State College came along and, after a very close game, won by a single point. The score 37 to 36 gave us a tough break.
4. Minnesota then left home to play Nebraska at Lincoln December 21, losing another close game - 29 to 24.
5. Next they stopped at Omaha where they licked Creighton University 34 to 23.
6. Back home again they entertained Iowa State College on January 2 and won easily 47 to 16.
7. January 5 they surprised every one by defeating Depaul of Chicago 34 to 25.
8. Altho no Big Ten games have been played we have a fighting team and expect to make going tough for others.

-0-

Winter sports such as skating, tobogganing, skiing, etc. are again inviting; yet few of us have found time to indulge, as term papers, reviews, and final exams are always necessary evils about the end of each quarter.

SIGNS AND SYMPTOMS

January 2, 1937. Smash! bang! crash! What is all that noise? Just a bunch of resolutions going the way of all New Years resolutions!

Carl J. Eide, Architect. Plant Mythological Buildings a specialty. See me before you build! We draw the plans; you get the appropriations.

Clyde Christensen acquires wings and flies to New York. His only comment before leaving was that he hoped not to acquire those wings, each pair of which comes equipped with a harp.

The plant pathogens are going modern! A recent WPA translation of a mycological article speaks of the dressed and undressed smuts of wheat!

The Editorial Committee has heard a rumor that E. C. S. has made a New Years resolution to the effect that manuscripts will be edited more promptly in 1937. Matt, please order a new supply of blue pencils.

Here's one for the Methods Class gleaned from a notebook in Plant Path. 1: "Transfer material containing spores to each of the drops of water being careful to work aesthetically."

Dick, the dishwasher, says, "Hot air is all right for sterilizing petri dishes but don't try it on your examination paper; it might kill what germs of truth it contains."

UNNATURAL HISTORY
(According to School Botany)

- Q. What is chlorophyll, where is it found, and what are its functions?
A. 1. Chlorophyll is the green egg and is found in all plant cells it keeps the cells alive and makes food.
A. 2. Chlorophyll is a part in the plant that takes in food. It is next to the cell wall. It takes in all the food material for the plant.
- Q. Where are ovules produced? A. In the leaves.
- Q. What two things unite in fertilization of a flower? A. Stomate and stigma.
- Q. What is the green substance in plants called? A. Stigma.
- Q. Name all the parts of a complete flower. A. Stigma, stomata, cell wall, protoplasm, chlorplasm, endosperm.
- Q. Define pollination. A. Pollination is when the egg nuclei get together and when the stomate goes from one flower to another.
- Q. Define osmosis. A. Osmosis is a disease of the flower.
- Q. Why is photosynthesis such an important process? Explain fully.
A. Photosynthesis is important, it carries on plant food, prevents diseases.