

backs no 4  
1739 complete

OLD TIMERS' COLYUM

Dr. K. ISENBECK had opportunity to turn his scientific training into mathematical channels during a recent three-months period in the German army in anti-aircraft work. By this time he has returned to "bürgerliche Leben" and plans within a few months to go to the East Indies for study of tropical agriculture. We wish him well, and remind him that the mails come regularly, even from the other side of the world!

-0-

Dr. Sydney DICKINSON has recently been made happy, if not hysterical, over some proper haustorial behavior. For diversion, he cultivates ornamental shrubs and builds rock walls at his home in Cambridge, England. He is also the proud bearer of a badge making him a full-fledged air-raid warden. With the responsibility of the haustorial formations, his own landscaping, and the safety of the neighbors, Dr. Dickinson seems to have reasonable scope for his abundant abilities!

-0-

From Liberia comes philosophy: MacINDOE writes "...During the past year, many experiments which I put down six or seven years ago are coming into tapping... when I tap trees whose seed I made years ago from artificial hand pollinations, I sometimes regard the passing years with apprehension. But that thought is counterbalanced by the satisfying knowledge that I have reproduced not only rubber trees, but my own kind. (The son and heir continues to thrive in the Liberian atmosphere without the slightest indication of surrender to the allegedly adverse climate.)". May we claim this survival of the fit for our own, in view of what we survive each winter and each summer?

-0-

AFGHANISTAN Bill HARLAN received the September Aurora in January, and says, "The exact date of arrival I don't know as in a Mohammedan country such as this they use another calendar and you get somewhat mixed up. The months start at different times and Friday is of course the day off instead of Sunday..." Bill is teaching Afghans of varied ages English and biology, and is trying to learn Persian. He has a vocabulary of about 100 words, including one verb of unknown tense. "...The country has been covered with snow since I came. But it's not nearly as cold as Minnesota and it gets fairly warm every day during the middle of the day. The scenery is much better. There are mountains on every side of town, and the Hindu Kush rises up out of the back yard so to speak..." We are eagerly awaiting more news from Kabul, Bill! We wish you luck, Persian comprehension, and teaching inspiration! But why do the Afghans want to learn English?

-0-

Dr. Margaret NEWTON, with her pleasant presence, brought needed refreshment to the fount when she made a brief visit in St. Paul in January on her return from Old Mexico. Come again soon, Miss Margaret, and bring with you other Winnipegians!

-0-

From Oahu, where guitars grow small, the moon grows large, and the sugar plant is sweeter, comes news of Chet WISMER. Amid these delights is it not a pity that work and effort have reared their ugly heads? For Wismer is working on his work and working at his thesis. More power to him!

-0-

J. G. LEACH sends greetings to the "Minnesota Gang" from West Virginia.

Best regards arrive from Very Old Timer W. N. CHRISTOPHER, at University, Louisiana; Chris is getting along fine, and Aurora is very pleased to hear from him once more.

Regards come also from Leon J. TYLER, at Yonkers, N. Y.

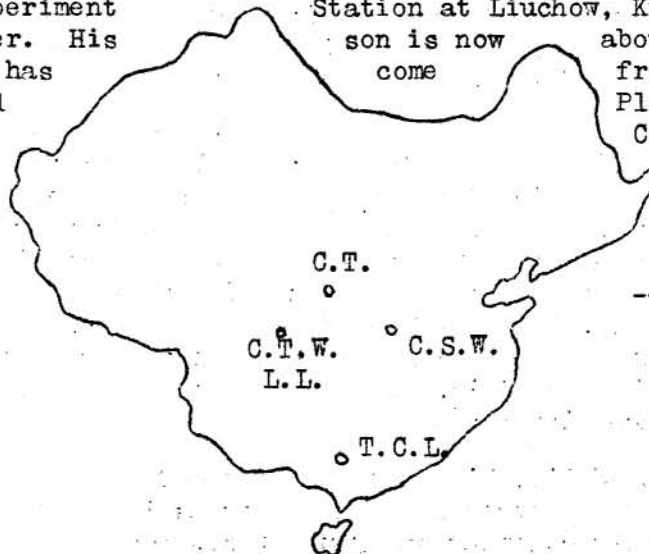
-0-

H. H. THORNBERRY (We dare no longer address him as "Thorny") is now Assistant Chief in Plant Pathology at the Illinois Experiment Station. Congratulations, Doctor Thornberry! He and Dr. CASSELL had old home week recently during Farm and

Home Week at the Southern Illinois Normal University. Our ears have been burning but we thought it was the cold!

-o-

"Everything has been upset by the Sino-Jap war in China. Dr. Lee LING, however, was over joyed when the war made possible a reunion with his best friend, Dr. C. T. WEI, in Szechuan. Since the fall of Nanking, Old Timer Wei moved to Szechuan with the plant pathology division of Nanking University, in which he is instructing. Wei was married last fall. Dr. Ling is with the Department of Plant Pathology and Entomology of the Bureau of Agriculture of Szechuan province, and recently was invited to teach part time in Dr. Wei's department in the University. Ling is still a bachelor. Nothing has been heard from Dr. C. S. WANG since his Christmas greeting to the Tottering Tower. We hope he is safe and that he is making progress in his work. He is teaching in the College of Agriculture of Honan Provincial University, which has been moved from Kaifeng to Cheng Ping Hsih, Honan. Dr. T. C. LOH, whose soccer shoes still grace the wall of the Canyon, was plant pathologist of the Provincial Experiment Station at Liuchow, Kwangsi, when heard from last summer. His son is now about 18 months old. No recent news has come from Dr. C. TU, Chief of Agronomy and Plant Pathology in Northwestern College of Forestry at Wukong, Shensi. We hope that he, too, is safe and prospering."



-- C. T. Tsiang

-o-

I. L. FORBES tells Aurora that they now "boast more Minnesotans at Louisiana State than there are in the Tottering Tower." He says they "are all very glad to have Dr. LeClerc and family located here with us, in addition to all the other Damnyankees." FORBES has now joined those fortunate ones who can discuss their operations! Altho he has been unable to work, he could watch baseball games, and invites Old Timers to Louisiana to see the Giants play ball "in one of the most gorgeous spring climates imaginable." This on March 14, with a fresh blizzard hurtling southward on the Tottering Tower, the temperature hugging zero, and us hugging our firesides!

-o-

Adding insult to injury, Huey BORDERS described to us the soft beauty of pansies in bloom at Tifton, Georgia, as early as January! Paul J. SIGGERS even reminds us gently, from an air-cooled hotel on his travels, that "it has been rather mild in New Orleans" this winter. And new Louisian LECLERG, in expressing his gratitude to the PERSONS and the FORBES for their helpfulness, could not refrain from mentioning the ROSE BUSHES BLOOMING in the SUNSHINE!

-o-

Even this is not all, for the GIBBSES request us, in the midst of our snowbanks (and while creeping forward amoeba-like on the icy sidewalks and streets), to imagine THEM sitting round in shorts or bathing togs in Sunny New Zealand!

-o-

Jack WESTERN comes to our rescue, however, with the report that Aberystwyth, Wales, had a white Christmas, and that he "had to use chains to travel about by car." Western still dwells on the football players he saw in action here, and

while driving about he names them o'er and o'er! Hope he remembers the kittenballers too!

\*\*\*\*\*

#### BOOKSHELF

Have you read LEON J. TYLER'S "Variation in *Sphacelotheca sorghi* (Link) Clinton," published as Minn. Agr. Exp. Sta. Tech. Bulletin 133? Or "Pathogenic races of *Actinomyces scabies* in relation to scab resistance" by LEACH, DECKER, and HANNAH BECKER? Or Old-Timer OLAF S. AAMODT'S article on pastures in the December issue of the Journal of the Amer. Society of Agronomy? Or Old-Timer EBI LAMBERT on a spore isolator in Phytopath. for February? Or Miss BLAISDELL (et al.) in Jour. Agr. Res. for November on differentiation of wood-decaying fungi? Or ALAN GEMMELL'S three contributions: Degeneration of bent in January Phytopath.; chloroacetates controlling the Ayrshire potato eelworm in January Jour. Helminthology; and synergism in fruit-rotting fungi in the spring Chronica Botanica? Or RALPH LINDGREN'S report at the Wood-Preservers' Association on blue stain and penetration of liquids into pine?

-o-

There are dedications and dedications, some serious, some sentimental, but a dedication bearing all the sweet fragrance of spring comes in "...THE WILD FLOWERS OF FOREST LODGE" from Mary Nye Hayes, of Forest Lodge, Wisconsin, to our Louise Dodsall!

\*\*\*\*\*

#### PRESENT TIMERS

Aurora sorrowfully announces that Mrs. Tolaas and a toboggan disagreed: the injured ankle is recovering. Best wishes, Mrs. Tolaas, but you can't take chances with a Minnesota winter.

-o-

TOMMY KING, our most recent candidate for the M. S. degree, passed a successful examination, so we hear. He will take on the formalities at the March 23 commencement, so congratulations TOMMY!

-o-

It is rumored that on March 23, J. G. GIBBS, in New Zealand, laid down his emasculating tools and paused for five minutes, or did he? Anyway on said date he was conferred the Ph. D. degree in absentia. Congratulations Dr. GIBBS, pick up thy tools and carry on!

-o-

A new job, or should we say an old job continued? Anyway, beginning April 1, DOWNIE will officially succeed Dr. LECLERG in the sugar beet investigations at University Farm. We all know that LECLERG'S shoes were pretty large, so start stretching your feet Mr. DOWNIE.

-o-

DEAN FREEMAN, in the role of "A scientist looks at history", recently addressed the nineteenth annual meeting of the Minnesota Historical Society.

-o-

We all regret the recent departure of Mr. E. J. GUCWA, who during his connection with the department was responsible for the translation of many valuable foreign articles in our library. Happy landings Mr. GUCWA!

\*\*\*\*\*

A daughter -- Dec. 31, 1938 -- to Mr. and Mrs. Bob Atkinson.

A son -- Jan. 1, 1939 -- to Mr. and Mrs. Ross Huntsinger.

(Mrs. Huntsinger was formerly Alice Reynolds)

\*\*\*\*\*

#### EXTRA CURRICULA

During the past few months members of the T. T. have as usual given freely of their time and knowledge to be of service to the people of the state. Headlining the events was Farm and Home Week with Stakman, Christensen, Eide, Rose, Tolaas, E. W. Hanson, L. Henson (the clover man from Kentucky) taking part by

giving demonstrations and talks to the farmers.

-0-

THE SPRING WHEAT CONFERENCE was held at the Nicollet Hotel February 2 and 3. The following T. T. ites, Stakman, Christensen, Moore, Hanson, and Levine spoke on rust, scab, seed treatment, root rot and rust. Old Timer Bamberg returned from Montana to give his contribution.

-0-

J. J. Christensen gave a talk on "Seed borne diseases and their control" at the Minnesota Farm Managers Association Convention at the Curtis Hotel on February 9.

-0-

E. C. S. presented some of his ideas to the Informal Club of St. Paul one day last month. Perhaps the "Big Chief's" greatest contribution to the public welfare was his talks to the Legislators in the interest of a new Crops Building. As yet we don't know if his efforts were successful.

-0-

Dr. Dosdall prepared a flower-diseases exhibit for the Builder's Show which was held recently in Mpls. She also took charge of the booth for two days and answered questions of those interested.

-0-

Several people took part in the Midwinter Shows at Crookston. "Spike" Stewart prepared a barberry exhibit, A. G. Tolaas talked on his observations concerning "hair sprout" of potatoes, and Rose on potato diseases.

-0-

Besides the Midwinter Shows A. G. Tolaas has spoken at "spud" meetings at Hollandale and in Koochaching County. H. C. Regnier has just come back from the South where he put in several seed source test plots of potatoes in Florida and Alabama.

-0-

Around the end of January half of the people around T. T. were making charts, exhibits, etc. for the Northern Pacific Seed Train which is making a trip through Minnesota and North Dakota.

-0-

R. C. Rose reports that two "agricultural" trains left St. Paul for points west to educate and advise the farmers in the latest methods of disease control. Only a few backwoodsmen remain who have not heard of the Minnesota-Moore seed treater. Rose also observes that late blight of potatoes reappeared in Minnesota last fall for the first time in 10 years.

\*\*\*\*\*

#### BRICKS AND MORTAR

To avoid giving the impression that Aurora considers the University of Minnesota to consist solely of a huge, though tottering, Tower, surrounded by divers more or less inconspicuous outhouses - and, of course, a **strictly** amateur football team - we will tell briefly of other things that may indicate the trend of education and of material progress on the campus. There have been some changes since the time when many of you received your degrees and took up the duties, responsibilities, and privileges thereunto appertaining, and returned the gowns rented for the occasion and quietly left town.

To begin with the past and work up to the present: A building named the Center for Continuation Study - sometimes called the Adult Education Building - now stands near Folwell Hall on the space where undergraduates once fought and bled for this country in R.O.T.C. drill, or at least got all sweaty and dirty for their country. The space is better used now than it was then. The building is devoted to courses of study for practicing professional men such as doctors, lawyers, teachers, engineers, undertakers, and so on. In a recent issue of the Readers' Digest the University of Indiana was extolled as practically the only forward looking institution in adult education in the nation, because it extended the services and facilities of the university to the mature citizens of the state in the form of definite programs of study for men who long ago left school and who

want and are in need of some means to get thoroughly up to date in their various fields. Out late President Coffman was one of the leaders in this phase of education in this country. The Center for Continuation Study is a result chiefly of his efforts. As the name implies, it is a place where various groups of adults can come for a short period of intensive and concentrated study. They not only study, but also live there. In a region such as Minnesota, where many professional men in small communities have no direct contact with research, such an educational program and such a building are of inestimable value in dispersing university research, learning and thought to those who can apply it directly. Adult education is no fad as it is carried on here and in a few other universities, but fills a definite and vital need in the commonwealth. It probably would not be injurious even to practical plant pathologists to return occasionally to discuss their problems, give and take advice, and even attend seminars. All of us would benefit. The idea back of the Center for Continuation Study was that learning can and should continue as long as life itself continues, and the building and the educational program are recognition by the University of its responsibilities in providing for this continued learning.

Last spring on the Main Campus a new Business Building was completed, across the square from the Chemistry Building. Minnesota has a good School of Business, members of which can ably explain any depression or inflation and make even compound interest seem simple. And they needed a new building. They used to hold some classes on the fire escape, before even the fire escape was condemned as a natural hazard. Offices were so crowded that an instructor often put his pipe in his neighbor's mouth, or washed his neighbor's hands or wiped his neighbor's fevered brow instead of his own. Far worse than the Canyon. Anyway they needed, and got, a new building. Previously an instructor would hold a first hour class in Folwell Hall, a second hour class in the basement of the Anatomy Building half a mile away, lecture the next hour in the Old Library, another half mile away, and finish with another in the silo at the end of the cow barns on the Farm Campus, all in all a strenuous life.

Last fall the Division of Forestry moved into Green Hall, the new building that houses them and the Lake States Forestry Experiment Station. It stands at the east side of the athletic field where we used to play kittenball (the present pastime is a mixture of public speaking, modern dance, bat waving, and sleep walking) anyway, that's where the building is. It is not particularly beautiful, but certainly serviceable. The offices and lecture rooms have indirect lighting, and are soundproofed with celotex, a sugar cane product. The auditorium seats about 250 very comfortably. The lecture rooms are a blessing to anyone who has shouted to classes in our own lecture room - in those in Green Hall it is possible to speak to 50 students without raising the voice, which is an aid to the weary instructor. They have laboratories and facilities for research that are excellent indeed, and they are justly pleased and proud.

Across the athletic field from Green Hall a Health Service for the School of Agriculture now is being built. South of Haecker Hall, just on the edge of the cow pasture and behind the home management houses, a dormitory is being built for married graduate students. It is supposed to be ready for occupancy next fall. According to reports, it is expected to furnish relatively high class housing facilities at relatively low cost, and that will be good news to all of those who have looked in vain in these parts for a dwelling of any kind suited to graduate student purses and needs.

Well, you can see that we are gradually edging closer to the home grounds. Agitation, we must confess, is under way for a building to house Agronomy and Plant Genetics, and Plant Pathology. However, agitation has been under way in other years. Once Eide even drew plans of it, of the building, that is, not of the agitation and it got so that if you said a harsh word to Eide he'd reduce your office space by about 40 cubic feet. After all of us had been nice to Eide for

nerly three months it all fell through. Now it is up again. One night at seminar Stak convinced all of us that the science of plant pathology here barely could continue without a new building, or at least more office, laboratory, and greenhouse space. Everyone agreed, which was unusual, but no one put up the 450 thousand dollars. The Tower is positively overrun with staff and eager students now and the hallways are the only places not occupied by desks and tables. It obviously is difficult to cogitate, or write, or isolate spores (yes, we still isolate spores) or make pure cultures (no, those mutants are not merely contaminants) or do any other work when six or seven people are running in and out and around. A sizeable chunk of space, preferably nontrembling space, would be appreciated. Maybe in the next issue we will be able to announce the success or failure of the present agitation.

\*\*\*\*\*

#### THE WINTER SPORTS SEASON DRAWS TO A CLOSE

In a basketball season characterized by frequent upsets Minnesota's Gophers had to be content with fourth place in the final conference standing. Ohio State emerged at the top of the heap with a record of ten victories against two defeats. Indiana finished second, followed by Illinois and Minnesota respectively.

-0-

In other winter sports programs the Gopher teams finished their conference competition as follows: hockey, first; gymnastics, second; swimming, third; and wrestling, fourth. Although the track team failed to place in the Conference Indoor Meet they nevertheless experienced a fairly successful dual meet season.

-0-

BILL BROADFOOT note! The Gopher hockey team coached by Larry Armstrong was one of the best teams in Minnesota history. They even managed to sneak in a couple of wins against Canadian teams, and you OLD TIMERS from north of the line will admit that that is exceptional. The weekend of March 17-18 the team will compete in the National A. A. U. Tournament at New Haven, Conn.

\*\*\*\*\*

#### SIGMA XI LECTURES

The Minnesota Chapter of Sigma Xi (honorary scientific society) sponsored, during February, its twelfth annual series of four lectures by prominent Minnesota faculty members. "Man and His House" was the interesting, but rather unusual topic of the 1939 series. The following lectures were presented on consecutive Friday evenings in Northrop auditorium:

- February 3  
"Every Man's House"-----Professor Roy Jones
- February 10  
"Housing and Climate"-----Professor Frank B. Rowley
- February 17  
"Housing and the Expanding City"-----Professor Robert T. Jones
- February 24  
"Housing and the Construction Industry"-----Professor Frederic Bass

The purpose of these lectures is to afford an opportunity to the members of the society and the public (aspiring plant pathologists included) to hear interesting, authoritative and non-technical papers by outstanding scientific scholars.

Sigma Xi talks were first opened to the public 10 years ago when discussions concerning evolution in meetings of the society aroused widespread interest. Since that time the lectures have become nationally famous and are among the most widely attended popular science courses in the country. About 4000 people attended this year's lectures.

\*\*\*\*\*

Herpetology -- (Practical Standard-Dictionary. p. 540). Nearly an entire seminar of a January evening was devoted to snakes, all because Melander was overheard remarking that his boots afforded protection from them. Schaal told of their prevalence and of having been bitten by a Copperhead in Kansas, while Stak maintained they were not reported west of the Mississippi except in the far South. It was a deadlock until Lew Allison and Laskaris, fresh from Richmond, claimed the Washington Zoo had two specimens from Minnesota. A month later Schaal presented correspondence from the Zoology Dept., Kansas State, to the effect that Copperheads do occur there, too. The question has not been re-discussed.

-o-

Economics -- Moore delivered an oration on misuse of Prep. Lab. privileges. It seems new Petri plates were purchased to relieve the pinch, whereupon the old ones came back by the hundreds. Hoarding's no fun during prosperity anyway!

-o-

Sailor Boy -- Clyde Christensen, food furnisher, told in his own inimitable way under protest his experiences on a Pacific tramp steamer as oiler. There were vivid descriptions of engine rooms and smoking bearings from California to the Orient and back with nary a woman mentioned.

-o-

Scooped -- Matt Moore claims he has observed the antics of a spore-eating bug for some time in the herbarium. But a Brit. Mycol. Soc. member published recently on the viability of the egested smut spores from a related species, *Cartodere Filum*. Laskaris reviewed.

-o-

New Subject -- Military history has been added to the long list of bull-session material. Vaughn (Colorado O. R. C.) aided by Stak (with a lorgnette) initiated it.

-o-

Fodder -- We all enjoyed the food at a recent meeting furnished by St. John P. Chilton by proxy from the U. S. Forage Lab. at Penn. State.

-o-

Visitor -- Dr. H. C. Murphy, with the U. S. D. A. at Ames on Crown rust of oats, dropped in recently. An interesting speaker, with many slides, he let us in on the work of breeding for resistance to their 47 races of Crown rust as well as Stem rust and smut. He showed the direct relationship of resistance of various crosses with acre and bushel yields. Food was on the Seminar, but Murphy went "on the spot". He says he knows better now! Born near Elkins, W. Va., and with undergraduate work at Morgantown, he went to Ames for his M. S. and Ph. D. in Plant breeding and Pathology in a vain effort to rid himself of increasing "side-winder" tendencies on the flatter Iowan terrain.

\*\*\*\*\*

#### SIGNS AND SYMPTOMS

Symptoms of flu have been evident in the Old T. T. for the past three weeks. Chris looked bad one day, but turned up smiling the next, claiming he had nipped the disease in the bud with a combination of oranges, honey, and vitamin pills. Stak's cure, whatever it was, didn't work so well. He was in bed for several days and in the meantime thought up one of the best sermons he had delivered in many a day. For further details see seminars.

-o-

Dr. Helen Hart has received numerous (we saw one) gentleman callers lately, which "strongly indicates" that she is in the market for a new automobile.

-o-

The Big Chief, busily preparing for a lecture in Principles sent Miss Gladys Saline, steno, to fetch "Klebs". She returned, not with a book, but with Thomas Laskaris. This may be a symptom of something, but we haven't figured out what.

-o-

Signs of spring: Man Mountain Henson's Alex, a Chevrolet of years and dignity was missing today from its place at the N. E. corner of the head-house where it

had stood since the first show. It had a few obvious symptoms, e. g., flat tires all around, and others that the garage man promised to allay for a price.

-0-

Co-ed Dorothy Blaisdell writes from Washington that she will not be with us during the spring quarter, as she had once planned. The news was received sadly, especially in the Canyon and Mezzanine.

\*\*\*\*\*

#### CLASS SEMINARS

Yes it does seem incredible but it is true, all the "back" seminar papers have been presented and now we begin the new series with renewed hopes and many good resolutions. The papers, it seems, are all to be as succinct as possible, without sacrificing lucidity, and we are to keep within the schedule even if we must omit some of those ubiquitous arguments. Hear! Hear!

-0-

ALFALFA is a very important crop, and has been for a long, long time, according to Henson who gave us a resume of its origin, development, spread across Europe, and its introduction into the United States by a farmer named Grimm. After the historical background had been disposed of, Henson started right in with the alfalfa wilt situation in a very business-like manner. From him we learned that a Bacterium causes the disease and that the avenues of entrance are afforded principally by "winter injury" cracks in the roots. He ended his discussion by giving his opinion of the work that has been done and also his ideas of work that should be done on this very important disease.

-0-

Tommy Graham told us about the DUTCH ELM DISEASE; the problems of its control, and what the prospects are that posterity will have to accept some substitute for those "lacy branches against the winter sky". The boys have gathered a lot of figures as to what aesthetic value the people all over the U. S. place on their elms, (pressure for increased appropriations no doubt) and they find that the average value for a healthy young tree with shapely limbs is around \$40 but out in California it is over \$200. They must have some powerful shapely elms out there.

-0-

The cotton market was quite bullish until Presley started describing the ravages of COTTON ROOT ROT. There were "Moore" ideas as to why the fungus causing the disease behaves as it does and why the perfect stage has not been found, but none of them seemed workable. Finally, all the unexplainable phenomena were explained (by the group) as due to the presence or absence of "growth promoting substances", either argument seeming equally adaptable.

-0-

On February 14, Dr. Coons entered the sanctum and was greeted by a rousing "Hell, Big Shot" from the entire seminar group. He was introduced by E. C. S. who asked him why they did not feed the Michigan football team on beet sugar since it is supposed to be rich in iron. Dr. Coons evened the score by asking if the Minnesota basketball team did not need something in the way of an aperitif itself. After these formalities of introduction were over, Dr. Coons gave us an excellent talk on CURLY TOP OF SUGAR BEETS, its appearance and ravages in this country, pointing out especially the abandoned areas and factories left idle because of curly top. He pointed out, too, the wonderful work done by men in his Division in breeding for disease resistance, making special mention of Dr. Carsner's work. He gave us a very good resume of the work done by the Division of Sugar Plant Investigation and many of the ups and downs of the sugar beet industry in this country. Before he had finished his talk we were convinced that he was indeed a pathologist and a scholar. Although many tried, none could ask a question that Dr. Coons could not answer; as a matter of fact, his answers were generally correct to the second decimal place.

-0-

In order that the chant of the tobacco auctioneer and his "sold to American" may continue, Dick Voorhees tells us that Pathologists are using Benzole vapor and paradichlorobenzine crystals to control BLUE MOLD OF TOBACCO in the deep south



where the disease is assuming serious proportions. Blue mold is a seed-bed disease and can readily be controlled by judicious use of the aforementioned chemicals, according to Dick. He also pointed out the rapid spread of the disease from the south northward each year, obviously due to wind dissemination of the spores. This has been so general each year that the disease is now present to some extent in every tobacco growing area east of the Mississippi River and northward to Canada. Watch that chinook suh and keep yo tobacco bed covered!

-0-

Tuesday, March 7, turned out to be a red letter day for those attending seminar. Milt Petty was giving an account of the present status of POTATO SPRAYING AND DUSTING. He was making notable progress until the flocculum in the Bordeaux mixture precipitated an argument that refused to be settled, flocculated or agglutinated. According to the Chief, a precipitate is something that is "thrown down" by the addition of an agent but he admitted that rain is a special case and an exception. A really lively discussion ensued that would doubtless have been very edifying to Webster or Gortner. The seminar group took the part of a colloidal system or matter in mass, with Eide, Moore, deZeeuw, Milliron, Medler, Tervet, Presley, and Chris as agglutinates, precipitates, flocculae, sediments, clouds, feathery flakes, cottony masses, amorphous masses, and concrete objects, and the Chief as the electrolyte or precipitating agent. By judicious use of the electrolyte the whole affair was settled (according to E. C. S.) and boiled down to where the only point at issue was whether we should distinguish between precipitate and sediment, the former being in beer and the latter in wine. Every member of the seminar would like to know how many beers one must drink in order to see the flocculi floating before his eyes. The parting shot was, "You can look the words up in the dictionary like I did". We have since heard flocculae coming up the stairs; precipitates greet us in the corridor, and the "Canyon" is full of agglutinates.

-0-

Freedom Through Education, a booklet written by our late President Coffman is a philosophical treatise on the benefits derived from education. The Chief's review of this booklet was so well received that he spent practically a whole seminar period on it commenting on the sound philosophy of Dr. Coffman who said, "In man's struggle for emancipation, the most powerful instrument ever placed in his hands is literacy...but the instrument may be dangerously misused to create merely illusions of knowledge and power instead of enabling man to acquire more knowledge and through that knowledge more power...Education is supposed to train us in independence of thought and to instill in men greater poise and independence in thinking...We sometimes forget that freedom is not a right but a privilege to be earned, and along with freedom one is supposed to learn the lessons of responsibility. Too often has the emphasis been placed upon satisfaction of rights rather than upon assumption of obligations".

\*\*\*\*\*

#### FAN MAIL

From Mr. Walter, University Librarian, comes the following epistle:

Epistula Recordationis  
benefactorum

Hodie est receptum  
Bibliotheca et acceptum  
Universitatis Minnesotiensis  
Martii praesentis mensis  
Exemplum ex donis  
Partitionis bonis  
Pathologiae plantarum  
AURORAE SPOREALIS  
Numeri sexti  
Quarti decimi

Annui voluminis  
Quare recordationis  
Littera officialis  
Haec brevis est transmissa  
Decano agresti  
Et investigationi  
Discipulis occupatis  
Eo instructis  
Congratulationis  
Causa eruditionis  
Ibi ostenta

Bibliothecario universitatis  
ex officio transmissa

Our less erudite brethren may obtain a translation in P. P. 307 and again they may not.

\*\*\*\*\*

#### THE GRUELING GRIND

Courses and instructors offered at the Tottering Tower during the current year may be summarized as follows:

Fall Quarter - Beginning pathology by Tervet and Petty, Mycology by Dodsall, Bacterial diseases of plants by Eide with the aid of Borders, Insects in relation to plant disease by Chris and Granovsky, Methods by Hart and Moore, Genetics of Plant Pathogens by Stak and Chris,, and Seminar,

-o-

Winter Quarter - Forest Pathology by Clyde Christensen and Borlaug, Mycology by Dodsall, Principles of Plant Pathology by Stak and Eide, Diseases of Field Crops by Chris, Insects in relation to plant disease by Granovsky and Chris, and Seminar.

-o-

Spring Quarter - Beginning Pathology by Tervet, Borlaug, ~~and~~ King, Forest pathology by Clyde Christensen and Borlaug, Mycology by Dodsall, Diseases of Fruit and vegetable crops by Eide and Voorhees, Principles of plant disease control by Eide and Moore, and Seminar.

-o-

Courses offered outside of the T, T. were handled by Kernkamp for the benefit of the farm school and general college and consisted of botany.

When interviewed on class activities the venerable Dr. Eide had nothing to say and suggested that the Herr Stak was the man to see. "The days of yore are the thing," quoth Chris. "Let the old boys know what we are doing. It might be a good idea to mention that we taught some important courses in both the fall and winter quarters." Dr. Clyde Christensen could think of nothing important to say. After teaching his courses for seven years he has arrived at the conclusion that there is no news in them. Dodsall sez, "Well, I guess that I haven't any statement to make". Hart thinks that activities are improving and believed that the O. T's. would be interested in hearing about them. Moore was teaching the boys to clean the colloids out of flasks and tubes and didn't notice any activity. Kernkamp believed his courses to be well worth while but was bereft of words when it came to making a definite contribution to this article.. All efforts to reach Georgia Borders have failed. He refuses to come out of the peach belt for a statement. Tervet had naething tae offer since he felt that a mon shouldna' brag about his work. Petty too thought nothing and said as much. Borlaug wrestled with the problem but under pressure admitted that the embryonic pathologists had learned some new holds. With a stupendous panoply of words Stak opined, "that the boys were larnin copious amounts of stuff and cosas."

The pathological courses seem to be progressing in quantity and in quality. The old standbys have been bolstered and improved so that now they include all of

the latest available material. New neophytes are carrying on where other bright lights left off.

We feel quite proud of our course in Genetics of plant pathogens; it is considered to be unique by no less an authority than THE HART. Rumor hath it that no other institution offers such a course. If this idea be faulty will some kind hearted Old Timer correct us. Principles of plant disease control is being offered once more this spring. It fell by the wayside for several years but is here again with all the latest control measures.

Eide and Chris. have taken over the courses formerly taught by Dr. Leach. Hence, a distinct Dakotan accent is noticeable in some of the lectures.

The enrollment in our courses is on the increase and is keeping pace with the growth of the university. This year we have about 25 majors scattered along the halls and corridors of the Fitoladrillocasa temblon. The character of the group minoring in plant pathology shifts from year to year. This year the Agronomists and the Entomologists are in the ascendancy, there being nine of the first and three of the second. Horticulture is represented by one member. Bacteriology by one, Botany by two, Forestry by one and Dairying by one.

\*\*\*\*\*

#### VISITORS

UNITED STATES - COONS, G. H., Principal Pathologist, Sugar Beet Investigations, and DILLMAN, A. C., in charge Flax Investigations, POPHAM, W. L., in charge of Barberry Eradication Project, U. S. D. A., Washington, D. C., MURPHY, H.C. Pathologist Crown Rust Specialist, U. S. D. A., Ames, Iowa, BAMBERG, Raymond, Plant Pathologist and Plant Breeder, Bozeman, Montana.

CANADA, Winnipeg Rust Laboratory -- MACHACEK, Dr. J. E., "Root-rotologist" and early "antibioticist". NEWTON, Dr. Margaret, "Rustologist", also member of Q.C.F.

-0-

#### ARGENTINA -

Ingeniero Agronomo SANTOS SORIANO, Profesor Microbiologia Agricola  
Universidad La Plata and Universidad Buenos Aires  
Facultad de Agronomia y Veterinaria  
Villa Ortuzal, Buenos Aires, Argentina

Ingeniero Agronomo JOSE M. ANDRES  
Universidad Buenos Aires  
Instituto de Genetica  
Facultad de Agronomia y Veterinaria  
Villa Ortuzul, Buenos Aires, Argentina

\*\*\*\*\*