

Wherein are recorded the recollections, the ruminations and the respirations 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 run dry
 Let the spout squirt and never lose power

OLD TIMERS

J. Gordon GIBBS, since January 1, has been lecturer in Botany at Victoria University College, Wellington 1, New Zealand. He wrote to AURORA under stimulation of meeting Minnesotans at the 7th Pan-Pacific Science Congress held in Auckland in February suggests a rendezvous at Schiek's restaurant in Minneapolis, which he will be horrified to hear has had its face lifted in the modern mode. With Schiek's and Schwartz's both gone modern, what becomes of one's momentous memories?

With the beginning of the new year, recent Old Timer Tewfik-Abdul HAK, Ph.D. 1948, was to be chief of the section on cereal diseases in the Division of Plant Pathology of the Egyptian Department of Agriculture at Giza.

"W. L. WATKINSON, University of Sydney, has been awarded the 1949 Medal of the Federal Council of the Australian Institute of Agricultural Science for his service to Australian agriculture during the past 10 years."

--From Science, February 7

Dr. Bob Noble, of New South Wales, reported last September:

"As result of a recent referendum, the States refused to give additional powers to our central Commonwealth Government, and all matters relating to agricultural production... remain the functions of the State governments."

While this is not a political journal, do readers recall when the States of the USA were called "sovereign"?

"Heard on the last field trip--

Timid pathologist: Migadd, the only way to stop long-winded arguments in this bunch is to banquet them with *Amanita phalloides*.

Churchward from Australia: What good would that do? They would all go to the same place anyway and simply continue the argument there."

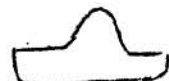
--From Aurora, Sept.-Oct., 1932

Gattani wrote from Delhi, India, on Oct. 25, but only about pea wilt, sugarcane red rot, and such, inadmissible items in this society colyum.

Syed Hasanain, in Karachi, Pakistan, is also busy as a bee. He was again carried to Minnesota during a conversation with I. Khan, a countryman of his who attended the summer meetings in St. Paul.

From H. R. Wang, at Peking University, came best regards in October.

Liang Hwang, of Kwangsi University at Liang-fen, Kwei-lin, also sent regards to Old Timers and asked for literature on tung-oil diseases from any one who could furnish it.



The National School of Agriculture at Chapingo, where our Mexican students become Ingenieros, recently celebrated its 25th anniversary with a visit from President Aleman.... According to Angelita Melendez on March 2, the group will celebrate

^{a/} Includes news since last September.

the Big Chief's coming with a "pic-nic with base-ball and with our great umpire." Yes, she means our traveling muscle man!

According to Leonel Robles, at Monterrey, Luis Carlos Felix will soon go to the department of Agronomy at the Monterrey Instituto Tecnologico as assistant chief. With the advent of Felix, Robles hopes to have more time for investigation.

Felix himself requests that we "please say Hello to all the Seminar and tell them I will never forget those guys...We are trying to maintain the same spirit in our Seminar here (Mexico City)."

Angelita, mentioned above, reported in October that she was working on a host index (illustrated) of Mexico.

Mrs. "Billy" Rodriguez, who endeavored to teach Spanish to some lazy students when she and Ing. Jose were at Minnesota, now looks forward to seeing one of her pupils in Mexico City--Ellis Darley, of Colorado, Liberia, and Guatemala.

Among plant pathologists of OFAR and cooperating institutions who attended informal meetings in Guatemala City and Chocó on January 17-20 were Roland C. Lorenz and Ellis F. Darley.

At a newsreel in Guatemala City, Ellis and Delight Darley saw, to their "horror," terrible things happening in Colorado. According to an article on the storms in LIFE, says Dr. D, "You would think this sort of thing happened every winter--but it isn't so--maybe once every 10 or 20 years."

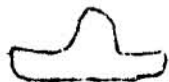
Once again in Bogotá, Colombia, Old Timer Juan Orjuela, Inez and children, recall impressions of Minnesota, among them the kind people, the landscape, and the winter snow!

Rodrigo Orellana, in Venezuela, says he has learned a great deal about tobacco during the past year--in the seed bed, not in the pipe or wrapper.

At Castelar, Argentina, Elisa Hirschhorn says they follow the doings of the Chief through Aurora and Science. Thus are two great periodicals linked by a famous name! Elisa sends greetings.

"Here are we four Minnesotans together again"--Tucuman, Argentina, Oct. 15-- José Vallega, Elisa Hirschhorn, Lucy and Ernest duCharme. The occasion was the S. A. botanical meetings.

The following Latins may see their names in print in La Hacienda for August, P. 22: Harrar, Borlaug, duCharme, Lorenz, Hines, and Stakman. (Your publicity agent would like flowers, please.)



Dr. Manuel J. de Urries, of the Jardín Botánico, Madrid, was good enough to acknowledge his copy of the historical issue of AURORA and reported on Feb. 1 that he was studying mycological specimens from Morocco.

From China, C. S. Wang wrote last September:

"With the recent disturbance...at Kaifeng, we moved for another time our university to Soochow, Kwangsi, about 50 miles west of Shanghai along the Nanking-Shanghai railway...I almost lost my life by a shell but we are all safely at Soochow now."
You who complain about lab space, about equipment, lost books, or lack of time, read this again before you grouse.

Jimmis WALTER, of Bradenton, Florida, was personally interviewed by roving reporter R. C. Rose. Jimmie Senior devotes his energies to the tomato, Jimmie Junior to the Navy since September 1. The TERVET family visited them in December and reported--accurately we hope, and without prejudice--on doings at Minnesota.

Emil "high-flyer" Ostrom, who did cross-country stretches in the early days of spore trapping for rust epidemiology, visited St. Paul in early December. He is now teaching veterans' classes at Osakis, Minnesota--instructing on rust among other subjects.

"Miss Helen E. Conners, daughter of ...I. L. Conners... a former Glebe Collegiate student, ...won a Sophia Smith Scholarship recently at Smith College, Northampton, Mass."

--The Evening Citizen, Ottawa, Nov. 4.

Dr. J. G. Leach spent two months last summer, according to the West Virginia Mountaineer, for October, at Louisiana State U...where "they have a beautiful campus... their own problems peculiar to subtropical agricultural...their own peculiar brand of politics."

Lee Person...this is news that should have been reported before--is working on plant disease survey for the USDA at North Carolina State College.

Also not new is Dudley Preston's address in San Diego, California since last September 1--State College. This unrivalled coffee-brewer says it's costly to live there!

John Presley is now head of botany as well as plant pathology at State College, Mississippi.

A christmas card from Norma and Wes indicated that Wes Martin was married--also Norma--but who is she, that she should run away with one of our most eligible bachelors, and when...and where?

According to Honolulu Anderson, "we have a seminar of sorts here, attended by Old Timers Wismer, Hendrix, Murakishi and me, among a dozen other interested parties. All we lack for a real Seminar are the Big Chief and about 20 seminarians."

Late in November the wish came true, for according to Harry Murakishi, "Doc was here recently (enroute to Japan) and it was a great thrill to see and speak to him again....We had a dinner in honor of Doc and it was just like being back in Minnesota again....I trust everyone at the building are still the happy, hard-working people I used to know."

Rosemary McLeod was warned to be on the lookout for the Big Chief from her station on Guam, but the mail was slower than ECS, so she missed him. She says she works hard, with the air Forces; but apparently after hours one can lead the life of Riley (assuming he was a playboy). Just think of all those men!!!!!!

But even the social life on the farm is "really something to reckon with," according to another former secretary, now Mrs. Laurice Annexstad, otherwise known as Tooty. Near St. Peter, Minnesota, she leads a full life, beginning v e r y early in the morning!

Vera Koerper Graham, of Florence, South Carolina, thinks she may go to one of the annual meetings with Tobacco Tommy when Veragets to be a grandmother. F₁ Penny is now in kindergarten, so she has a long period of expectation.

On October 28 OT Freeman Weiss entered himself as a contender in the grandfather contest announced in Aurora last fall. He hastens "to submit qualifications" complete with family tree. "I am sure that my score doesn't even distantly approach F. J. Stevenson's, but (1) I am not sure that he really qualifies as a Minnesota Plant Path OT; (2) I still have an unmarried offspring, of whom great things are expected." Weiss points out that the "F₂ currently numbers 4, and a 3:1 ratio, males being dominant....3 of the F₂ can be inspected at University Village (Linneapolis)." Any other contestants? --- to enter, merely SUBMIT some photographs and 4 jar tops of Baldy's Hair Creme!

Max Schuster, of Nebraska, was spied in the audience at Lincoln on February 15, when the Big Chief talked at convocation on the 80th anniversary of Charter Day. Schuster was unable to come to the summer meetings at St. Paul because he was way out in the western part of Nebraska at that time.

Chuckie Holton, with the aid of wife and 3 children, fed the Big Chief on October 11 when the latter spouted at an invitation Seminar at Pullman, Washington, arranged by Dr. George Fischer.

BORN, December 20, to Mr. and Mrs. Merle MICHAELSON, of 110 N. Loomis Street, Fort Collins, Colorado, son DAVID MERLE.

BORN, January 7, to Curtis and Martha ROANE, of Blacksburg, Virginia, daughter MARTHA AURORA. In the absence of information to the contrary, we assume in all modesty that little Martha was named for Minnesota's Aurora!

Michigan's botany department celebrated Christmas with square dancing and a turkey dinner, but not in that order, according to Dorothy and John Vaughn. Their first daughter is now going to School, but apparently they are not lonesome, since the younger one "talks a blue streak."

Spencer Mullin, of Virginia, considerably took his sinuses to Florida for a vacation in January. Now OUR brisk and salubrious climate....?*/ necessitates no such loss of time from science.

In Washington State one hears of Golden Delicious and a particularly bonny lass called Linda, who was 29 in. tall on a Thursday Morning in January, according to Mrs. Ted Wright. After 2 pages of this, there is a request to greet "our friends who may remember the stenographer and 'potato boy' who married in 1941."

Rosemary (Miltich) Curran, another former secretary, sent regards at Christmas time from herself and son Richy, who are again in Virginia, Minnesota.

Maryan and Earle Hanson reported in December that they were finally settled at 2234 Monroe, Madison, Wis., after having bought and sold two houses in two years. With 8 rooms and the well-known Hanson hospitality, traveling Auroraites may now add this hostel deluxe to their traveling guidebooks.

"What happened at the Northwestern Games?" queried Curt ROANE in October. As a result of researches made by AURORA, Minnesota threw the ball away 7 times, and the game went with it. In fairness to the team, however, it should be recorded that three-fourths of the best backfield was unable to play.

L. W. Melander, visiting nurseries for the barberry project, reported on Oct. 18 (1) that he had seen OT Presley in Mississippi, (2) that Alabama was having freezing weather; and on Oct. 25 that he had seen Olaf and Monica Aamodt, the Persons, Clyde Allison and Wayne Ellett, of Washington, North Carolina, and Ohio respectively. Ellett said it was lucky for Minnesota that Ohio State was not

playing Minnesota this year.

Phares Decker, Plant Pathologist of the Florida station, is one of the few who responded to our plea for personnel data about OTs. He is chairman on eggplant breeding for the Southeast, hasn't moved from 1352 West Court Street for six (6) years, and is father of 3 little Deckers, two (2) boys and a girl.

Naturalized citizen Ian Tervet, who did not lose his accent along with his bodily allegiance to Scotland, suggested while on a visit from Camp Dietrick that we have the address file for Aurora locked up and guarded night and day, since apparently his card was stolen twice!

"Another field season is about to start, and I'll be touring the State again... searching for wood decay in buildings," wrote "Sam" Savel Silverberg from Syracuse, N.Y., March 5.

After Dr. Stakman's visit to Winnipeg late in February, OT Sackston reported that "in a Personality newspaper spread Doc rated a picture and about three times as much space as Mrs. Roosevelt, who was to speak here later."

His competitor, Eleanor R., however, according to Dr. Bill Hanna, received an honorary degree from the University of Manitoba.

A very pleasing mountain scene in watercolors was contributed by scientist and artist Larry Tyner of Edmonton. Come and see it!

Margaret Newton, formerly of the Rust Lab at Winnipeg, was off to Nassau by train and plane, according to Barney Peturson in early January.

Among officers elected for 1949 in The Botanical Society of Washington are E. L. LeClerg, counsellor, John A. Stevenson, archivist, and Freeman Weiss representative to the Washington Academy of Sciences.

--Science, January 28

On August 24, Olaf Aamodt presented a presidential address at Fort Collins, Colorado, to the American Society of Agronomy. At the beginning of the New Year, after 10 years as Chief of the Division of Forage Crops and Diseases in the USDA, Dr. Aamodt gave up his administrative work in favor of research.

Camille Lefebvre visited in St. Paul on November 8 after spending five months in Alaska on general plant disease survey under the Agricultural Research Administration of the USDA.

Mrs. John Flowers--secretary Teresa McNeely when she was in plant path.--achieved her B.A. degree from Minnesota last summer and now lives in a new cooperative community not far from St. Paul known as Circle Pines.

From Glendale, California, in February, Thomas "Klobs" Laskaris reported that he was "employed in a large clinical laboratory as clinical bacteriologist, mycologist, and parasitologist." Previously he had taught medical mycology to graduate students at Tulane Medical School in New Orleans.

Don "blister rust" Stewart, of Duluth, found it necessary to postpone resumption of graduate study during the winter quarter. Says he is plugging away on his German, however. Old Timer Ed Andrews would of course recommend his memorizing "Du bist wie eine Blume," usw.

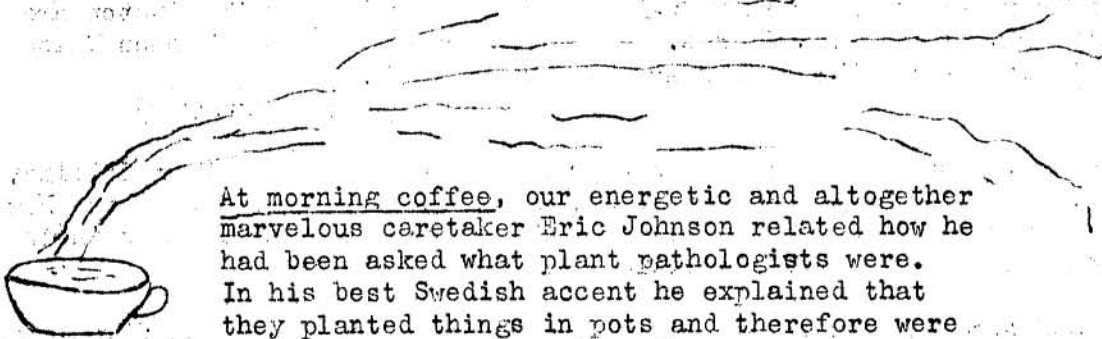
On Xmas Greetings

Just as blustering winds whip snow into countless vortices and make the hearth enticing, Christmas time brings a cyclone of good wishes from Old Timers the world over. "Mother Aurora" has in the course of years acquired quite a family. To say she is proud of your accomplishments (professional and familial) pays feeble tribute to "The Minnesota Spirit" which you evidently keep tucked away in your trunks of unforgettable memories.

Alohas from the Murakishis and Andersons bring a breadth of exotic warmth; and even if this should a little too-too-romantic we still like to think of Hawaii so....indoctrination via travel brochures can't be cast-off too easily. Greetings from the Canadian faction always help make Christmas, here, more complete. "Fröhliche Weihnachten" and wishes for "Ein Gutes Neues Jahr" reached us from the Huberts in Halle. From India, Rajab and Hassanain sent greetings. The elusive Fayret (his stay was so short, hardly any of us were able to meet him) sent Yuletide greetings along with Valloga, Hugo Ceñoz, and Elisa Hirschhorn. The Hines family in Ecuador, Barbosa, Felix, and the unforgettable Angelita in sunny Mexico, the Orjuelas in Colombia, and Orellanas in Venezuela all remembered us. From the Darley's in Guatemala... "Felices Navidades y un Prospero Año Nuevo."

It would indeed be a task to acknowledge, individually, the numerous greetings from Old Timers in the U.S., but we wish you well and hope to see you again at Phytopath meetings.

Oh Yes!!!! It would have been no less than sacrilegious to overlook the fine sentiments expressed in "Ooooooooooh it's Christmas! Have Fun!! Needless to say, Miss Dossall, "WE DID!!!"



At morning coffee, our energetic and altogether marvelous caretaker Eric Johnson related how he had been asked what plant pathologists were. In his best Swedish accent he explained that they planted things in pots and therefore were called "plant pat'ologists."

REVIEW OF: Helen Hart, "Elvin Charles Stakman: President of AAAS, 1949," Science, January 7.

Although it is repugnant to every instinct of kindness in the REVIEWER to criticize the biographical efforts of a LADY SCIENTIST, scientific objectivity requires amplification of the picture painted of a shy and retiring violet sitting in an ivory tower and contemplating thru rose-tinted windows a bowl of roses floating on a sea of delight, emanating their esthetic odors at the rate of an atomic explosion and playing footsie with the equally soul-satisfying aroma of home-blended tobacco. Nevertheless the BIOGRAPHER states that life was not merely a bowl of roses to be appreciated thru the delicately sensitive olfactory organs and aperceive sweetly thru the eaglet eye. True and untrue. In those days there was a struggle for survival: we chewed the petals and we ate the pips. The roses retaliated by dropping their petals, projecting their thorns, and jabbing them into the hide of the leg until the hide became tanned leather and deprived the poor roses not only of petals and pips but of their defense mechanism as well. Maybe that's why "a rose by any other name would smell as sweet." And so would this biography!

--E. C. S.

Tuesday Seminar, fall quarter.

The Chief, in inaugurating the fall quarter seminars, stated that "man must emancipate himself from the tyranny of his environment," but he conceded that it is difficult for man "to emancipate himself from the tyranny of his emotions." He continued with the warning that it is necessary to make man a rational individual rather than an impulsive one. Then somehow the seminar got to pondering the value of speculation, and the Chief promptly scuttled the argument that one man's idea is as good as the next man's. Hmm, well, towards the end, in answer to a student's query on culture, Doc stated that culture is the synthesis and totality of all one's spiritual life--it is the evolution to the maximum of any one's abilities. Culture does not preclude education; in fact, "education is the process of boiling down a mass of facts to a few essential principles". To memorize a definition without knowing what it means is, in echoing the words of Mark Twain, to know the words without knowing the tune. So, then the seminar was held to be a place to become acquainted with recent findings but not to accumulate basic knowledge, except incidentally. Such were Dr. Stakman's thoughts before Dr. King, with kodachrome and word-pictures, led the seminar into the wonderland of fruit, of its corruption by wicked molds and bacteria, with here and there a virus.

On October 5th, the Chief announced in stentorian tones that papers would be limited to a presentation time of 15 minutes--shades of old deBary! Hardly had Doc found a chair when King rushed up with more fruits, more diseases, more slides, more words, and oh my, so many more fungicides. Oh for the days when Bordeaux was King.

In honor of Columbus, for his great discovery in 1492, Seminar did not convene again until October 19th, when Joe Reilly and the Chief held something of a duel with chalk, to determine who was the better illustrator of apothecia. (We need Petty to teach us some mycological art.) Reilly finished his paper on Sclerotinia root rots of clover and alfalfa; and on October 26th the Virginian Lawrence Miller crisply reviewed investigations on peanut diseases.

Three men up and three downed on the 2nd of November--and still finished early to vote for men of political mien, election that is. First was the Hyderabadian Hassan, who got a Texas league single with "...Phymatotrichum root rot of cotton". Dave Baskin, a verbal slugger, doubled with "Plant herbicides and their mode of action," but the clean-up man, Paul Fridlund, swinging at "Physiologic effects of zinc on potatoes," couldn't get on base, and game was called on account of darkness.

Chinese Hsia and Chu, on November 9th, performed "velly fine," particularly Hsia, who, surrounded with all of Matt Moore's ingenious devices, demonstrated "Techniques for inoculating cereals with smuts"--he was literally buried in his work. Chu, sufficiently agile to dodge the puffed spores and "syringed" spore suspensions, aimed at Colletotrichum of flax.

The 16th of November witnessed a lone speaker--Plant Breeder Den Hartog, who thoroughly explored the barley scab problem. Seven days later, Janet Deutsch of Plant Genetics plunged into a "...study of stripe smut of grasses", and upon emerging saw Dick Pon legibly inscribing on the blackboard the names of "four leaf-spotting fungi of hollyhock" and other information pertaining thereto.

The last bleak day of November found not a misty mid-region of Wier, but Herbert Johnson, who related the sad tale of the malformed and faded Chrysanthemum flowers, a condition known to the esoteric as "stunt". And instead of the dark tarn of Auber, there was painted the "Problem of excluding the fiji disease from Hawaii", by John Warner of Genetics. Then to flights of scientific imagination did Don Munnecke soar in swirling "Lindegren's cytogene theory" into the maelstrom of scientific thought, and eventually to supper.

While those with the wanderlust fled to Pittsburgh, where beer and science intermingled to improve the savor of intellectual food, three of the unlucky ones, on December 7th, concluded the fall quarter by wrestling with Cytoplasmic inheritance cytology of *Ustilago* spp., and *Ascochyta* blight of gram in Pakistan---? Thor Kommedahl, Howard Ehrlich, and Abdül Kausar, in that order.

Tuesday seminars, winter quarter.

Highly-complex phases of the lowly, simple phycomycetes were prospected for on January 4 by the triumvirate of Shurtleff, Cohen, and Mehta, who considered respectively, "Sex hormones in *Achlya* ... "Survival of pathogenic phycomycetes... and "Downy mildew on graminaceous crops." Pursuant to tradition, the Chief quizzed students a week later about algal-fungi, why, for example, the monoblepharidales have motile sperms. After regurgitating the reflections of Brefeld and Atkinson, the Chief digressed for a moment to an evaluation of visual vs. auditory memories; then summarily expressed an apparently universal regret among educators that graduate students cannot write. Mike "Faribault" Böosalis ended with "Sexuality in bacteria."

Several days of alternate freezing and thawing prior to January 13 prompted the oft-recurring question, "What is this weather good for?" Imagination reigned and was even whetted as the minutes disappeared at the expense of F. S. Warren of Agronomy, who later expounded on water congestion in tissues exposed to plant pathogens, and "Senor" Lawrence Miller, who implicated the Meadow nematode in brown rot of tobacco with special tribute to nematologist Cobb.

Between Canadian "Barny" Peturson and Plant Breeder Campbell, the seminar harvested findings on crown rust... in eastern Canada, and "...snowmold on cereals." In elaborating on Lindfor's work, the Chief--seeking confirmation for what he was about to say--turned to JJC with the query, "This is true, isn't it, Professor Christensen (pausing momentarily to light his pipe before finishing the sentence)--" "Well, I don't know yet," answered Chris, much to the delight of the seminar.

Opening the seminar of February 1, Doc asked, "What are Schimmelpilzen?" "Don't know?" "Well, then what is a Schimmel?" "A grey horse" "Ham, and Pilze?" "Fungus." "O.K., then what is a Schimmelpilze?" To which Goodman, now thoroughly awake, answered brightly, "Fungi that attack grey horses." This simmered down to "Low temperature organisms of alfalfa and sweet clover" by geneticist Kneebone; then Mary Ann Swaebly spoke smartly on "Holds under the pericarp of cereals."

Foresters Vic Clausen and Dave French veered toward "Bacteria in the heartwood of trees" and "Control of oak wilt." To conclude February 8, Tom Johnson of Agronomy returned to more familiar phenomena with *Diolodia* stalk and ear rot of corn.

In the middle of February there were combined the factors of a departed Chief, balmy breezes and rippling rivulets, and a seminar surrendered to A. A. Anwar, who reported "Physiologic specialization in *Cercospora oryzae*", and to Plant Breeder Singh on "Breeding barley resistant to *H. gramineum*," and Elling with "Climatic factors on distribution of alfalfa diseases."

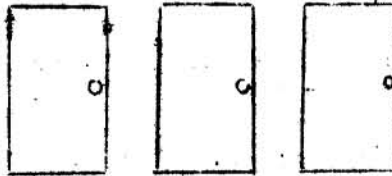
In order to solemnize Washington's birthday, Seminar was on recall until March 1, when H. W. Pedersen stirred the assembled multitude with "Blackstem of alfalfa." He was followed by Patricia Van Burgh in a recital of the "Penetration of synthetic membranes by fungi"--composed concisely, clearly, and convincingly. There was still time for Chao-Su Wu on "...genetics of the bird's nest fungi".

Somewhat as a peroration, the seminar awaited on March 8, the outpourings of Ali on "...transmission of curly top virus of sugar beets," and Heyne "...on inheritance in wheat stem rust," and of Russell on rust and sunflower seed production in

Shades of William Penn in Pittsburgh

On the night of Dec. 6, 1948, the lobby of the William Penn Hotel in Pittsburgh was a bedlam, and heard above the noise were "I ain't seen you since ---", "Look who's here---", "Do you remember the time---", "Come up to room ---". The Annual Phytopath meetings were about to start! For the next three days papers were presented at meetings held day and night, and in between there were formal and informal discussions in public and private rooms, in lobbies, and halls. Before the meetings were over a lot of the old and new timers were seen and heard. Papers were given by Allison and Forbes*, Atkinson, Beach, T. Johnson*, Graham* (2), Chilton* (2), Davidson, Feldman*, Hanna*, Kreitlow, Martin (2), Miller, Pon, Rowell*, Schneider and Christensen, Darling*, Sharvelle*, Stakman-Harrar-Loegering-Borlaug, and Wahl, (*with other workers).

Tuesday noon, Dec. 7, fifty-one old and new timers found their way into the basement of the Fort Pitt Hotel for the annual Minnesota Dinner. The Big Chief, who was in Japan, was one of those not present. High light of the banquet was the discourse by Eric Sharvelle on the "four doors". He was practically forced into it because of a petition members that he do so; offered a bottle of beer. All of you who would like not to hear New York meetings next year please send in your names early!



heard to say "Yes, Heh! heh!, her name Congratulations, Wes. gang from St. Paul you guys - what did peanuts?", "The peanuts send any peanuts", "didn't", "Yes, I did", then". P.S. It was 40 pounds of "soybeans" unroasted peanuts from oft you at New York

Wes Martin was I'm a married man now, used to be ? . Coyt Wilson saluted the "What's the matter with you do with those I sent", "You didn't "Yes, I did", "No, you "Well, we never ate later found that some in the breezway were Alabama. They were eaten and good! Heres hoping to see all next year.

Correct these sentences

1. Dr. Stakman: "Go ahead and get everything you need for the field. We have plenty of money in the budget."
 2. Eagle: "I hate to leave the prep room and start work in the field."
 3. Miss Hart: "I am writing my thesis now, but it doesn't take much time."
- From Aurora Sporealis Vol. 5, No. 2. 1929

LOCALS

The name of Elvin C. Stakman appears on the roster of the 100 greatest living Minnesotans named as a feature of the Minnesota Territorial Centennial. Among others mentioned are Sinclair Lewis, Governor Youngdahl, President Morrill, and Dean Bailey, and Bronco Nagurski.

The sports column in this issue was authored by a female member of the Division. We had full confidence in the competence of this young lady since she's a former professional sports writer. She claims that's not as unusual as you might think since newspapers during the war obtained much of their sports personnel on the distaff side.

"Aurora" is happy to note the return to duty in January of Miss Dossdall, after a three-month absence due to illness.

Family News: 1. October saw the arrival at Wold-Chamberlain Airfield from Shanghai, China, of Mrs. Yu Chen Pon and son Jonathan after months of anxious planning and waiting by husband and father Dick Pon.
2. Hitched in December were Joe Goodman and Norma Cohen, who is Mort Cohen's sister.
3. Paul Fridlund and Maxine Karlson are to be married.

Rolling stock: New aquisition of Dr. Eide's Potato men is an all-weather jeep. Some call it the "Potato Cheep."

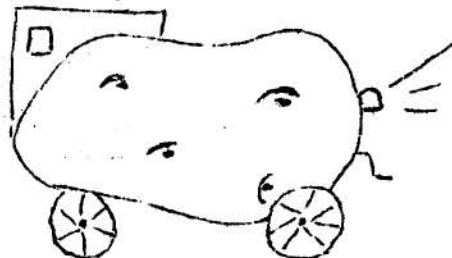
Herb Johnson, former Yoder Brothers Mum man, addressed the Minnesota Florists convention on stunt diseases of chrysanthemums in March.

"Best ever" has been applied to: 1. Gamma Alpha talk given by the Chief in January on "Science and its sphere of influence". 2. The last Christmas party which featured square dances with Bill Loegering doing the calling.

Physiological doings: Two cold chambers have been acquired and an intensive program of cold weather research initiated. Also new is a device which records total solar radiation in the field, one of the few such instruments in the country. A new physiology teaching lab has been outfitted so that the main lab can be used exclusively for research.

Matt Moore's seed treater (the "Minnesota") hasn't received too much publicity, but it is being used in a lot of places. A recent farm magazine showed the treater being used in Pennsylvania. Matt's latest project is the testing of a Swedish liquid fungicide.

Bio-statistics: As of this writing the contingent from China is the only student group in the Division in which all members are married; average number of progeny is 1.5. Two from India and Pakistan are unmarried, but average progeny of the married men is 2.7. Representatives of Norway, Uruguay, Palestine, and Egypt are single. There are twice as many married students from the U.S. and Canada as unmarried, with average progeny of only 0.5 despite Hunnecke's two.



Thursday Nights at Eight.

September. Hurrah! Two Old Timers back, and one new one. There was "Barny" Peturson, whose introduction was bandied about from Chris to Loegering to Chris to Stak, until Bjorn finally introduced himself, as did Herb Johnson; but Abrar Khan of India was given his initiation by Kausar of Pakistan. Later Doc Eide solemnly adjudged the 1529-page Bergey's Manual, and was followed by the Chief with Verdoorn's article on scientific publications, then Daly toiled through a paper on protein synthesis in plants. Miller presented a demonstration with 10 Live Peanuts--10...

October. While Indian Summer lured Seminar out to Como Park for the annual picnic one Thursday evening, the remaining were spent in diverse ways. For one, there were language-passers--Ibrahim and Mehta. And gripes...which included hoarding of agar, exploding ovens, discarded bottles, and an unkempt prep lab. The mystery of a lost fungicide belonging to Kernkamp, ruined wheat of Clyde's, seed that germinated because Eide defrosted the refrigerator, were very distressing items for consideration. But entertaining were the tales of California, Hollywood, and Frank Sinatra, as the two Hyderabadies--Anwar and Hassan--relived their sojourn to the West.

Loquacious Mort Cohen introduced new-student Martin Tviet of Norway. Thrust also into our midst was blond, bristle-lipped Bockstahler, who broached anew the problem of tap-root-tip-rot of sugar beets, provoking the Chief to suggest that tap-root-tip-rot could be avoided by breeding tipless taproots. Papers were aired on monocot tracheids, on Waksman's streptomyces work, on wheat (and, oh yes, Swift Current), on Luther Burbank and plant breeding, which prompted Eide, from the back of the room, to opine that, "As we reach the limits of the germ-plasm, it gets harder and harder to get a variety that is better". There, is wisdom!

While munching potato chips, as part of the feast generously provided by Old Timer Ted Wright of Washington, Chris expressed a strong liking for French Fries, while Eide, in the back of the room, shyly confessed a fondness for baked potatoes.

November. In commemorating Armistice and Thanksgiving Days, there were lost forever two potentially stimulating seminars; however, on one of the remaining evenings "Senator" Melander bequeathed to the Assembled a tiny bale of Mississippi Certified Cotton--presumably sacked in his recent incursion to the deep South. As unique the gift, so singular the topics discussed, and odd the requests, like Tommy King wanting different exotic media, and Peturson becoming deeply engrossed in a commentary on the metasequoia and the passenger pigeon--life forms that have passed with time. In contrast was the saga of the range lands, of sage brush, and poisonous plants. This ended abruptly as mental gears were shifted to sights of corn rots following the corn borer, to fairy rings on golf courses, to vine killers, and to airplane dusting--all in kodachrome,

The Seminar was not without surprises, as "Sak" Sackston emerged from his Canadian sanctum long enough to impart some of his knowledge on the pasmo disease of flax; and, on another occasion, Chairman Munnecke was astonished to find 13 papers ready for review. Five were covered--bacteria, viruses, and s-e-x; controlling sugar cane smut; hot water treatments and the solar method; and organic gardening. (Reviewers remain anonymous because of lack of space.) Certain phases of the latter subject intrigued Shurtleff, who recounted appropriate scenes from a movie, "The Well-Digger's Daughter." Well, we learn by association of facts and ideas, do we not?

December. "For politeness, we cannot outdo the Latin Americans," but the seminar tried hard to do so as Senorita Celia Boasso from Uruguay was welcomed by Miss Hart, Miss Hamilton, J. J. C., E. C. S. and finally the plaudits of the seminar itself. Subsequent cries of "Speech" ... "Speech," were to no avail--not even for usually voluble Boosalis on the occasion of his being granted the M.S. degree. The Chief responded, however, and the seminar listened to a splendid lecture on Japanese agriculture and science.

Fourteen papers were digested this month: mycorrhizae, but with digression to a 20-chromosomed peanut variety; culture of (1) sunflower tissues, and (2) crown gall bacteria; flax seed-treatment in Canada; and the world-wide problem of an adequate protein source and of soybeans, from which "milk" can be made and sold for 3 cents per gallon--heresy in a dairy state. Details were disclosed on (1) ring rot bacteria, (2) the late blight fungus, and (3) posky viruses, after which were described the rusted poplars of the shelterbelt, and later the genetics of *Glomerella*. After the puzzle of Hevea pollination, there was talk of weed control by 2,4D, and of sex in *Chlamydomonas*. Sex is always an inviting subject and even Eide became interested, quoting Coulter as saying that sex was invented to consolidate food resources. We've always wondered.

January. While champing on peanuts given to the seminar by O. T.'s Coyt Wilson, Jimmy Seal, and Jim Lyle, greetings were proffered Alfredo Campos, who had just arrived from Mexico--coatless, hatless, and breathless, but with news and books from Old Timers Barbosa and Angelita Melendez.

Seminar ran its course with, first, remarks from the Chief that varied from Mikimoto's career in pearls to the function and activities of the Illinois State Nurserymen's Association. Literature reviews, which to some addle the wits, included the rusts of Argentina and the role of anatomy in phylogeny. A critique on yellow birch dieback in Nova Scotia and also one on wood-rotting fungi with methods for their identification, precipitated a sermon on the virtue of always carrying a sharp knife and a hand lens, with, obviously, frequent trips to the woods; this special exhortation partly because only two admitted having knowledge of species in *Stereum* and *Echinodontium*. Observations on wood structure were also urged as Clyde mentioned that "those who think esthetics is limited to modern art have never looked at wood structure."

A sequence of physiological papers ran the gamut from protochlorophyll to the photoperiod in strawberries, the regulatory mechanism of cellular respiration, and the rate of solute movement in plants. How does water rise in trees? What is the pressure? Questions like these recalled to the Chief his experiences with squirting trees, where the sap squirted out from the trunks when cut with an axe, so great was the pressure. Also in lombardy poplars, wind rushes out from holes made by increment borers. Some woody plants have very porous stems, so porous that Matt says water can be poured right through them; and when the root pressure was great enough, Chris was said to have watered his flax plots by decapitating the Virginia creeper, and leaving the cut end of this vine lying in the plots. To top this, Clyde "remembered" the time he cut the vines growing at his home, when the water that gushed forth from the severed end cut deep gullies in his back yard. Amazing? Why it's preposterous.

A technic for cytological study, Bonner's ideas on genes and heredity, and bacterial mutations, were topics brought up, and great was the discourse thereof. Irrepressible Bjorn Peturson delimited the acreage and distribution of the leading wheat varieties in Western Canada. In answer to Chris's question, "Why can't they grow wheat near the town of Churchhill?" Bjorn retorted, "They can, but not successfully."

February. By the time Eide had the chairs in the back of the room arranged for his comfort, seminar was deep (?) in thought concerning the Goethe Bicentennial. Reasons cited for such a celebration brought the verdict that Goethe was the greatest of men to combine history, philosophy, and science.

Herb Johnson exhibited several crop plants in culture showing the relative salt tolerance of each crop, after which he described the chrysanthemum foliar nematode. Other papers were given on phosphorylation in plastids, on plant hormones, on agar, on Hevea, wood rots, crested wheat grass, Paramecium, and rust!

March. Golfbug Harry Young returned to Minnesota and seminar and left just before fisherman John Rowell arrived for his final examination for the Ph.D. One seminar was spent in a discussion of writing reviews of diseases as monographs. At one time, allusion was made to the value of such monographs for ordinary students, at which Clyde exploded with, "Our civilization advances, not on the basis of the ordinary student, but on the extraordinary student." "They are all here in this room, are they not?" asked the Chief. Clyde slowly arose, pushed aside his chair, and with a penetrating eye surveyed each and everyone seated in the room, and finally turned to Stak with the cryptic remark, "There are a few missing."

Of the papers presented, subjects concerning physiology, viruses, taxonomy, phylogeny, and army and naval research were handled by critical reviewers. Oh, the wonderment of facts and principles, of thoughts and ideas.

Sports

The plant pathology flag (a germinating teliospore superimposed on a wilted wheat plant) is flying high these days in tribute to the faithful keglers who placed their team in the top five in the University League, finishing the regular season in fourth place out of a field of 18. Rust-free wheat wreaths are herewith bestowed upon Captain Mal Shurtleff, R. U. Cotter, Shosuke Goto, Tommy King, Thor Kommedahl, Bill Loegering, Chuck Logsdon, and R. C. Rose, who contributed their talents.

Basketball also reared its muscle-stiffening head this fall. Ozzie Cowles' boys have nothing on the "Plant Pathers" (not Panthers, Pathers) who play so well they frighten their opponents away. The Pather six (or three, as the case may be) is composed of Mike (Skoog) Daly, Mike (Mitchell) Boosalis, Paul (Olson) Fridlund, Duane (Bud) LeTourneau, Don (Whitey) Hunnecke, and Mal (Mackintosh) Shurtleff. Their opponents have been Agronomy, Agronomy and Genetics, Agronomy, and Agronomy and Genetics. There is little or no agreement as to who has won the games; although the concensus

seems to be that the team with the most men remaining on their feet after a 30-minute playing period is winner. According to latest report, the two games played for keeps have been copped by the Pathers. The games previously played and won by Agronomy were "just for fun". Stiff muscles, creaking joints, blistered feet and nearly cracked ribs are the scars of battles bravely worn--"By their limbs ye shall know them."

As the 10 southern breeze whips through cracks in office windows, thoughts turn to kittenball. How our ears yearn for the thud of bat against ball, the pop of ball into mitt, the swish of a runner sliding into base. Spring is here! Here's an opportunity to exercise the winter stiffness from sluggish muscles, to blaze new glories on the field of sporting combat. Miss Dossdall has consented to serve again as cheerleader; A. A. Anwar's valuable services as left out have earned for him the tidy sum of 1000 helminthosporium spores. Don't wait, enlist now--or he drafted later.

September 25. Herb Johnson came from Barberton, Ohio, where he was employed by Yoder Brothers, to take graduate work in plant physiology.

October 16. H. W. Bockstahler dropped in from Michigan on official business.

November 3. W. E. Saxton paid us a visit while attending the Flax Institute in Minneapolis.

November 16. R. U. Cotter attended conference of Western Barberry Eradication Leaders at Lincoln, Neb.

November 30. W. Q. Loegering on way to Pittsburg attended conference of Eastern Barberry Eradication Leaders at Fort Wayne, Ind.

December 2. J. J. Christensen spoke (very well too according to JJC) at the meeting of the International Crop Improvement Association held in Kansas City, Missouri.

December 11-13. Robert Atkinson and Thorvaldur and Mrs. Johnson stopped in on the way home from Pittsburg. Atkinson was on his way back to Colorado and the Johnson's enroute to Winnipeg.

December 23. New student, Miss Celia Boasso, arrived from Uruguay, via Oklahoma, to spend a year and a half as a grad student. At Oklahoma A and M she studied during the fall quarter.

December 27. Dudley Preston, of San Diego, Cal., stopped in for a visit.

January 3. Patricia (Patsburg) Van Burgh of Ohio State joined the Department for one quarter's work.

January 25. Alfredo Campos of Chapingo, Mexico, joined the Department to do some extensive rust work under Stakman and Loegering and carry on graduate studies.

February 8. Matt Moore went to Fulda for the S.W. County Crop Improvement Day.

February 24. C. J. Eide left to talk at the potato meetings of the Crookston Minnesota winter shows.

February 25. T. H. King left for Chicago to attend the Regional Conference of the North Central Plant Pathologists in relation to the Research and Marketing Act for the purpose of discussing the identification, certification, and control of the stone fruit virus.

March 4. Harry Young, Jr. arrived from Geneva, N. Y., to finish his Ph.D. thesis and take his final oral examination.

March 11. Lawrence Miller returned to Virginia after passing his prelim.

March 14 and 15. C. J. Eide attended a conference in Grand Forks, N. Dak. of research workers from Minnesota, N. Dakota, and USDA to plan potato research.

March 16 and 17. M. F. Kernkamp attended the First Annual Tri State Soybean Processors Meeting at Ames, Iowa, jointly sponsored by the Minnesota, Iowa, and Missouri Stations.

March 16-19. Harry Young, Barney Peterson, and Pat Van Burgh left the department for Geneva, Winnipeg, and Ohio, respectively.

March 21. John Rowell arrived from Rhode Island to complete his Ph.D. thesis and take his final oral examination.

March 24. E. C. McDonough, Associate Professor of Botany at Marquette University, visited the Department.

March 25. Kishan Singh Bedi arrived from Punjab, India, for study. Brought greetings from Hingorani's.

March 27. Old Timer B. F. Shema returned to the Department for quarter's study.

Any date, any time. The Chief left: October 7 to visit the Hanford Plant, Washington, in connection with Atomic Energy, with a barberry field trip and evening Seminar at State College as extras; November 9-11 to lecture on genetics of plant pathogens at Yale and Cold Spring Harbor; November 17 for Japan (at the invitation of the Army, 5 men were selected by our National Academy Science for scientific mission) with western barberry leaders' meeting in Nebraska enroute; nowhere after returning via Alaska and Seattle, until January 12, for speech to Illinois State Nurserymen's Association, Chicago; February 15, speech at Lincoln on 80th Charter Day convocation; February 22, luncheon speech in Winnipeg, Agr. Bureau, Chamber of Commerce, and dinner discussion at Nat. Research Council + Dept. Agr. meetings; Mar. 17, for Milwaukee Farmers meeting, Wisconsin; again for Milwaukee March 23 to spout to Central Plant Board.

LOCALS

Of course there was Stakman and Loegering on guess what--the physiologic race report for 1944, processed by Ent. and PQ. Stakman, Daly, Gattani, and Wahl published on Variation induced by uranium nitrate in corn smut and the cultivated mushroom, in Science, Nov. 19, with subsequent greatly increased incoming mail. Dr. JJC reviewed Dickson's "Diseases of field crops" in Phytopath., May; and ECS reviewed Jessen's "Botanik der Gegenwart usw" in Scien. Monthly Dec.

In Minn. Farm and Home Science, Nov., Boosalis and Kernkamp wrote on Fungi that poison soybeans, and JJC with Schneider on Corn borer aggravates stalk and ear rot. CMChristensen contributed on evergreens in USDA-Minn. Ext. Bul. 258; Rose wrote Vegetable growing reminders, Ext. Pamphlet 146; Kernkamp, "Soybean chemical treatment and nodulation, Phytopath. Dec.

Abstracts: Stakman-Harrar-Loegering-Borlaug, P. gr. tr. race prevalence; Schneider-JJC, European corn borer and corn stalk rots. Kernkamp, Mechanical injury to soybean seed, Minn. Seed Grower Feb. Heggeness, Chemical weed control, Minn.-USDA Ext. Pamphlet 168.

JJChristensen, 98th president of AAAS, Scien. Monthly Jan., and Hart, Elvin Charles Stakman, pres. of AAAS, Science Jan. 7. Stakman himself, Science in the service of agriculture, Scien. Monthly February

BOOKSHELF

Schaal*, Red skin color, Bliss Triumph potatoes, incr. by Synthetic plant hormones, Science Oct. 15. Aamodt, Western grasslands, J. Am. Soc. Agron. Oct. Noble, Rept. Dept. Agr. N.S.W. year ended 6/30/47. In Pl. Dis. Rep., Oct. 15, Wilson, Rot-knot nematode on peanuts in Alabama; Leach, Aster yellows and lettuce; Weiss, Ck. list rev. cont'd. Dec. 15, Sherf, Tomato spotted wilt; Valieau*, Tobacco wildfire outbreaks; Weiss (as before). In Phytopath., Oct. Greaney*, Coop. Exp. on flax seed treatment; Brierley*, Aphid transmission lily viruses during storage; Dec. Tervet*, Bacteria in storage organisms of healthy plants; Jackson, "needle curl" of shortleaf pine seedlings. Jan., Kreitlow, Greenhouse bench moist chamber for large-scale inoculation; Johnson, T., Field infection with P. gr. tr. 15A and 15B. ABSTRACTS. Allison*, Rhizoc. solani; Atkinson, Western wheat mosaic transmission; T. Johnson*, Variation in wheat leaf rust; Chilton*, Antibiosis of Actinomyces to Pythium and Rhizoc.; Chilton*, Glomerella mutants and age of agar; Davidson, Phosphorus metabolism of Helminth.; Graham, Nematode root-rot, tobacco; Hanna*, Sex in N. Lorentziana; Kreitlow, Sclerotinia trifoliorum and forage legumes; Martin*, Ceratostomella fimbriata from rubber and sweet potato; Rowell*, "Mistblower" fungicidal concentrates for row crops; Darling*, Potato purple top transmission; Sharvelle*, Low temp. on peach brown rot in storage. Johnson, Peterson*, Cereal rust races, Canada 1948--
Mimeogr.

ABSTRACTS in Proc. Canad. Phytopath. Soc. 15th Session, June, 1948--

Peterson, P. coronata on Rhamnus frangula.
Davies, Henry*, Saprophytes and Ophiololus gr. sporulation.
Bailey, Parasitic specialization in Cladosporium fulvum.
Sackston, DDT and 2,4-D on flax.
Broadfoot, Helminth. oat blite.

Phytopath. Feb., Thorny*, Bacteriophage-lysis technique for bacterial identification; Kreitlow, Sclerotinia trifoliorum, Ladino clover pathogen. Zabel, Decay resistance, white oak, Syracuse Tech. Bul. 68. Mitchell*, p-chlorophenoxyacetic acid and vitamin C of snap beans, Science Feb. 25.
Holton, Wheat smut booklet, Aug. Pac. N.W. Grain Dealers Assoc. Inc.

* With others

REVIEW OF: J. J. Christensen the 98th president of the AAAS

Scientific Monthly, January

To an historian the ideal of truth should not be a mere idealization of the truth but its realization also. To be untrue a history need not be untruthful; it can proliferate or atrophy historical events and characters by piling up or by withholding things from the pile. When, for example, it is stated that "he played baseball, tennis, and handball" without telling HOW he played, a grave injustice is done!

Is any mention made of successive yearly batting averages of 666, 742, and 1,048? Is any mention made of the annihilation of the very baseline of the tennis court by the terrific impact of volley balls? Is any mention made of the fact that handball became not only 2-wall ball but 4-hand ball? Is mention made of the fact that he was the terror of the wrestling mat and the wrestling mat was the terror of him; that he did more damage to the mat and the mat more damage to him than to the opponent? Is mention made of the fact that he was debarred from boxing because, not knowing his own speed and strength, he knocked out opponents when he thot he was tapping them? Is mention made of the fact that he once played football, not only with his feet but also with his hands and his head? Is mention made of the fact that he was concurrently rotter king, coach, and player? Is this BIOGRAPHY?

--E. C. S.