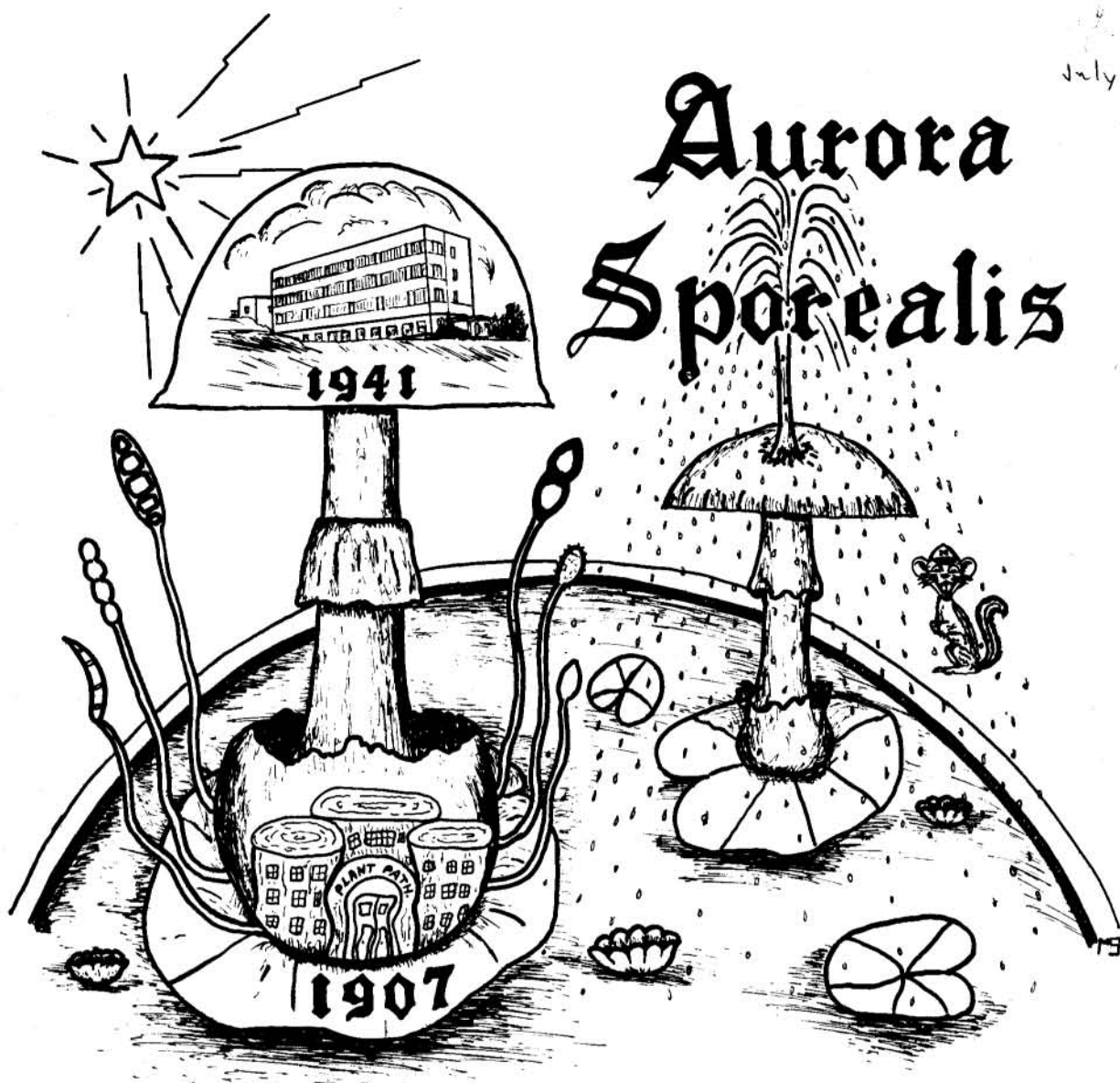


July 50



Aurora Sporealis

Wherein are recorded the recollections, the ruminations and the raspitations 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

On July 3, at Oslo, Norway, recent Old Timer Martin TVEIT quoted, "EAST OR WEST, HOME BEST."

In India, On August 12, Minnesota-born Meena Hingorani celebrated her 4th birthday. Her parents, Dr. Manu K. and Harie, are in Bungalow 10 at the Agricultural Research Institute, New Delhi.

The U. S. Department of Agriculture announced on July 17 the appointment of Dr. Henry D BARKER as head of the Division of Cotton and Other Fiber Crops and Diseases, in the Bureau of Plant Industry....Born in South Carolina, Barker graduated from Clemson College, holds an MS from Wisconsin and a PhD from Minnesota. Aurora's congratulations to him!

Dr. John T. PRESLEY takes over Dr. Barker's former position in the Division, according to one of our roving reporters. (Make room at the top, boys, for Aurora's sons---they are climbing the ladder!)

Dr. LEVINE and Ruth, on August 31, aboard the Ragnald Jarl in the Arctic Ocean, wrote "we have not run into your namesake Aurora Borealis, but when we landed in Bergen...there was Martin TVEIT at the pier to greet us." Then from Wageningen came this: "This is to advise you of the joyous reunion between the WELLENSIEKS and the Levines at the home of the former....Love and kisses, Wieke Wellensiek and Sam, Ruth B. Levine and Mose."

Dr. Huey BORDERS, long not heard from except on business, gets historical---he records the "terrific heat this summer" in Georgia, and the hazards of an advanced army mountain course at 13,500 ft. elevation in Colorado the previous summer, when the fellow on the other end of the rope forgot his duties!

Rosemary (Miltich) Pearsall, secretary at the time most of us deserted the Tottering Tower, announces the birth of her fourth child, Anne Elizabeth, on August 1. Her address, 1510--11th St. S., Virginia, Minnesota.

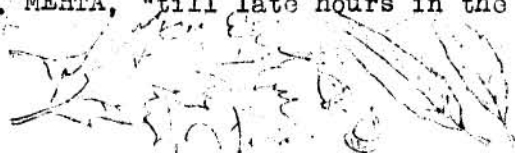
Daughter Cristina was born to Ady Raul and Elza Maria Ribeiro da SILVA in Pelotas, Brazil, on July 6.

The last issue went to press as Secretary Marjorie (Mrs. Stanley) FREIBERG returned to Wisconsin. Marjorie liked Minnesota, but Stan preferred Wisconsin for his advanced work in rhetoric; so they compromised and went to Wisconsin.

At the end of this year, says Dr. H. P. Barss of the USDA, Old Timer Cam LEFEBVRE "is taking over my work as plant pathology specialist and experiment station administrator in the Office of Experiment Stations."

Now Curator of the Type Culture Collection in Washington, D. C., will be Dr. Freeman WEISS, formerly with the U. S. Department in Mycology and Disease Survey.

In Delhi, India, Old Timer A. P. MISRA had a Minnesota reunion with visiting Old Timer P. R. MEHTA, "till late hours in the night."



Frank STEVENSON, formerly of California, is "now in the employ of the State of Florida as an associate plant pathologist stationed in 'the Glades' to do work in general plant pathology." Address--Everglades Experiment Station, Belle Glade.

Uncommunicative Stuart ANDREWS sends apologies from Albuquerque, New Mexico, for being uncommunicative and promises to appear in Minnesota later in the year with thesis in brief bag. (Thesis in brief will be best way to bring it)

In late September Dr. Jack WESTERN, of Newcastle on Tyne, England, was appointed Senior Lecturer and Head of the Department of Agricultural Botany in the University of Leeds. Says he, "We shall be going to Leeds in the New Year if we can find a house...."

Dr. Liang HWANG sends best regards from Liang-feng, Kwei-lin, Kwangsi, where he heads the Department of Phytopathology and Entomology. (Address mail via Hong Kong)

S.F. HASSAN, PhD in 1949, writes "please remember me to the Seminar and tell them that October in Bombay is as salubrious as July at St. Paul." He was leaving Hyderabad for Pakistan, giving a new address: c/o S. L. Hassan, 231 Hyderabad Colony, Karachi, Pakistan.

"Dr. Vaheduddin (Syed) asked me to convey his regards to all he knows at P.P.," says Dr. Hassan in the same letter. The former was our first student from that part of the world, in the days when students filled the Canyon, so-called, in the Tottering Tower.

A year has passed since the visit to Minnesota of Dr. John CHURCHWARD, of Soebang, Java. This Old-Timer finally liberated a few words to tell us that there is now a daughter Helen, and also lots of work to keep papa happy.

A letter from M. L. GATTANI, of New Delhi, India, brings back memories of his effective industry while at Minnesota; he occupies himself with many things at once and yet produces results!

TUESDAY SEMINARS (SPRING)

Fast-talking Dr. J. G. Harrar raced through a digest of the good that has come to Mexico under the sponsorship of the Rockefeller Foundation. Twenty-two Mexican scientists have been trained in the United States under this program, of whom O.T. José Rodríguez was the first. José (Pepe) described the effect of the sunshine in Minnesota on rust of wheat, and, incidentally, pitched his way into a starring role on the Plant Pathology Softball Nine. Other nostalgic memories were revived when "Dutch" spoke the good name of Norman Borlaug, O.T. and a great "rassler". Norm has such a good wheat improvement program underway that Sonora (a province, not Spanish for wife) shows promise of becoming the "bread basket of Mexico." And more. Like a gurgling stream, such euphonious words as Torreon, Mesa Central, Chapingo, Monterrey, Guadalajara, Supremo, and Miss Marie Angelita Melendez--with all their pleasant meanings--flowed in a never-ending cascade from the tongue of Dr. Harrar.

Dignity, Intellect, and Scientific Enterprise...these three, as Doctors Rodenhiser, Fischer, and McMillan vied for top billing on matters both weighty and light. Fischer, in his commentary, pointed with pride at the cooperation he has enjoyed with the "Inland Empire Pine Damage Committee," of Washington State. Kodachrome slides were shown which pictured pine tree damage from two industrial plants. However, Fischer was preceded by Dr. McMillan, who packaged his remarks on problems in breeding for resistance in "Austrolylia" and delivered them in exemplary fashion.



Dr. Rodenhiser came, also to speak, but had to rest content with the unusual role of visitant. Not even the influence of the Q.C.F. (now waning) could guarantee Rody a place in this parade of talent.

Some of the spiciness, zest, and flavor of Seminar was lost when the Chief left for South and Central America, and also when Acting Chief Chris flew to the islands of Japan. However, the Seminar, brewing in its own ferment, prescribed its own bill-of-fare: the standard ration allotted a major was thirty minutes, and that for a minor was fifteen minutes. How are cyanamides used to control soil pathogens? How does one grow wood-rotting fungi in culture? Is there heterosis in Neurospora? Can viruses attack wheat? What special problems exist in breeding corn for resistance to corn smut? What is the Optative Subjunctive? The Hortative Subjunctive? (That's right, the Chief was back!) How important is angular leaf spot of cotton? Can oats rust? To what extent is seedling blight of corn dependent upon storage conditions of seed? What causes grey speck on oats? What species of Helminthosporium attack oats? Such and other questions furrow the brow (low, middle, and high alike), deepen brain convolutions, and consume reams of paper for charts, mimeographing, and note-taking. Answers to such questions becomes part of the stock-in-trade of a pathologist, if he concentrates successfully on each one at a time. And success, after all, is habit.

Tall, colorful Martin Tveit "norwegianed" his way through the English language, as he spoke of "Wickland oats and odder varieties" in their reaction to species of Helminthosporium. He modestly affirmed that "only broad-minded people should work on root rots". There are many obstacles to be overcome in a proper study of cereal root rots. Not only is the pathologist confronted with them, but so is the farmer. It often becomes a question of economics; as Tveit says, "when a farmer gets poor, he gets root rot".

A random sample of other items gleaned from Seminar included the spectacular recovery of injured jack pine following reduction of spittlebug populations through aerial spraying with D.D.T. ...Late early wilt of flax was sometimes misdiagnosed as early late wilt, and vice versa...Moore, Montcalm, and Vantage barley, growing near Crookston, suffered severely from net blotch the past 3 years ...Cyanamide compounds have been used with varying success to kill or inhibit pathogens in soil...Stakman revealed that the root, not the radicle, of radish was rooted (etymologically) in the Latin radix, remember?...However, so is radicle ...Isolates of Rhizoctonia from alfalfa and flax were also pathogenic on soybeans, while potato isolates were not...Black root is a major factor in strawberry degeneration...Foot and root rot have been a major cause of crop losses in peas since 1889...2,4-D sprayed on soil immediately after inoculating with Helminth and planting, predisposed wheat plants to infection by weakening growth...Of 96 varieties tested, Victoria oats appears immune when tested to 2 isolates of Septoria avenae...Dwarf bunt attacks principally winter wheat but attacks spring wheat if it is planted in the fall...Is that done?? In 1949, a wilt disease of peppers was found in Minnesota but the causal organism has not been pinned-down ... "Herzfaule," once attributed to bacteria and other organisms, was finally traced to boron deficiency, as were apples in British Columbia, and even swedes suffer from boron deficiency, i.e. swedes of the kind used in marmalade...Have you never tested that? ---Munnecke shaved rabbits and hoped, while the rabbits hopped, for a reaction from subcutaneous injections of race 15B of stem rust, but found none (the rabbits were supposed to be hopping mad, we think). Contrary to what everyone thought, Munnecke is not searching for disease-resistant germplasm to breed new varieties of wheat resistant to race 15B...You see, rabbits and wheat have not the same number of chromosomes...

During the Stakmanless Seminars, the intermission ceremonies (of 3 minutes duration) were once more the tradition ...then too with the Chief gone, everyone got home in time for supper...

A. I. B. S. MEETINGS AT COLUMBUS

The meetings of biological societies sponsored by the American Institute of Biological Sciences at Ohio State University in Columbus September 11-13 were attended by few plant pathologists. Clyde Allison, Wayne Ellett and Patricia Van Bure, the Old Timers of Ohio State University, were much in evidence. Dick Davidson, from the Experiment Station at Wooster, and Miss Katherine Tryon, of the University of Michigan, were the only other Old Timers encountered there. Tommy King, John Rowell and Herb Johnson were the local representatives attending the meetings. Next year, the Institute will have meetings at Minnesota, and it is hoped that more Old Timers will attend and incidentally take advantage of this opportunity to visit Ph. fabri chans erectus.

OSBERLIN SYMPOSIUM ON RADIOBIOLOGY

A symposium on the basic aspects of radiation effects on living systems was held at Oberlin College, Ohio, on June 14-18 under joint sponsorship of the National Research Council, Atomic Energy Commission, and Office of Naval Research. Some of the outstanding scientists from all the diversified fields of knowledge concerned with radioactivity were assembled to present the theories and evidence on the various pathways by which ionizing radiations affect biological systems. There were five panels of speakers representing physics, chemistry, biochemistry, cellular biology, and medicine who discussed respectively the mechanisms by which radioactivity excites and ionizes atoms, the chemical changes resulting upon ionization or excitation of an atom, the biochemical constituents of biological systems most affected by the radiochemical changes, the physiologic and genetic changes produced in the living cells, and finally the culmination of effects in the whole mammalian organism. The symposium was attended by Old Timers Dick Davidson and John Rowell, who are currently conducting research under A.E.C. Contracts. Old-Timer Katherine Tryon of the University of Michigan was also present.

COMINGS AND GOINGS

Miss Elsa Jackson and Miss Myrtle Norquist arrived from Carleton College on July 1, to start graduate work.

Melander day (July 8) found a general exodus of plant pathologists from University Farm. (It is assumed that they covered the state like a blanket, looking for rust).

The almost unbelievably impossible happened when plant pathology field work continued during the absence of our efficient Eagle during the height of the growing season, July 10 to August 18. Mr. and Mrs. Eagle flew to England to visit relatives and their old home. After 30 years some things looked just as they had left them, others were bewilderingly strange and different. Eagle found his old church still there but the house where he was born had been rebricked and modernized, giving him a lost sort of feeling. Everyone he had known before he left he recognized immediately, but none of them recognized Eagle. He found Dr. Bisby working in his garden and was given a pleasant trip through Kew. He missed Dr. Dickinson at Cambridge. Both Mr. and Mrs. Eagle found they could transplant themselves in the old ways of England very easily in 24 hours, but changing back to the rush and scurry of American life in a day was quite another story.

Dr. Stakman represented the division at the VII International Botanical congress held at Stockholm, July 12-15. En route home he stopped a few days in England. Bisby, Dickinson, Margaret Newton, Western, Gottlieb, Levitt, and Martin Tveit were some of the Old Timers seen during the trip.

On August 1, Eugene B. Hayden, Jr., from Rhode Island, and James Broyles from Mississippi, arrived to start graduate work in plant pathology.

August 1, found Andy Downie (The Joe Gordon of the plant pathology softball team) and family visiting in the Twin Cities. This reporter believes Downie could still play second base.

Rody Rodenhiser also dropped in for a quick hello on his way west.

Bob Cassel was here August 4 (someone said they saw him lurking in a corner of the field at Rosemount) but he arrived and left so secretly that this writer feels that there is some basis for doubt as to whether he ever arrived.

Dr. J. J. C., Chuck Logsdon, Pon, Goto and Tommie King made a trip to the Morris, Crookston, and Grand Rapids Experiment Station to take notes on experimental plots August 7-10 and while at Crookston participated in the station field day.

Norm and Margaret Borlaug paid us a flying visit August 10 and promised to return for a longer one. We are still looking for them!

George Steinbauer from Michigan stopped August 14 to renew acquaintances and make new ones.

Dudley Preston came the same day, on vacation from State College, San Diego, California.

August 17 found Dr. R. J. Haskell, the extension specialist in plant pathology and horticulture from Washington D.C., stopping for a brief visit. Dr. Ralph Shay, pathologist at Purdue, and Dr. Elmer Stevenson, horticulturist, also swapped stories with acquaintances in the Division.

August 18 brought the K. G. McIndoes from Liberia and young Kenny from England, all via Ohio and the Firestone Plantations Company.

Dr. Kirby from Pennsylvania State said hello and goodbye on his way to the west coast, August 22; and Rodenhiser returned from the west coast via Minneapolis August 23. Helen and Linda Daives dropped in from Pennsylvania, August 22, while Dr. Fred was at the races in Saratoga.

Also, Dr. M. Kernkamp was away for a few days on a trip to northern Minnesota inspecting and taking notes on his forage crop Experimental plots.

Dr. Stakman and Don Fletcher made a rust survey August 19-24 through the Red River Valley as far as Winnipeg, Canada, returning through North Dakota.

August 25 brought Isobel Christison with a big smile and change in address. She now does graduate work and research in clinical mycology at "Box 6283," College Station, Durham, North Carolina.

On August 31, Robert Skiles arrived from Colorado (with family) to continue graduate work in plant pathology. It appears that there will again be much talk about the salubrious weather in Colorado.

September 7 saw Dr. Stakman starting on a trip to Mexico and Central America. We are sure our greetings were conveyed to the Old Timers in those areas.

This is the time of the year when Dr. Eide starts north to harvest potatoes (Sept. 25-Sept. 30) in the vicinity of Crookston.

Celia Boasso returned after an extensive summer trip through Western United States. Many Old Timers were visited and sent their greetings. A farewell tea was held for her October 5, and she is now on her way home to Uruguay.

Chet and Mrs. Wisner arrived in Minnesota from Hawaii October 2. Chet is finishing his Doctor's thesis.

H. H. Hotson arrived October 2 from Seattle, Washington to continue graduate work. Other new students are Robert Olien, R. Drescher and David H. Smith. A. Poivan from Rutgers is continuing his graduate studies in plant physiology.



RUSTS ARE DYNAMIC, NOT STATIC

Again, wheats and oat lost their resistance to stem rust! This summer hitherto rust resistant varieties of the common wheats and durumms were attacked by race 15B, the most virulent biotype of stem rust ever collected in the United States. Thus Carlton and Stewart, two newly introduced rust resistant varieties of Durumms were heavily attacked and severely injured by race 15B. Stem rust also was common on our formerly rust resistant varieties of bread wheat, Mida, Rival, and Newthatch.

Race 7 of stem rust of oats was prevalent on the formerly resistant varieties of oats, Mindo, Bonda, and Clinton. Races 45 and 57 of crown rust also were prevalent on these varieties.

The season was late and hence rusts did have a longer period for multiplication and spread. However, the environmental factors were not especially conducive to the development of stem rust. The danger lies in the future. New sources of parental material must be obtained and the breeding program for rust must go on!

LOCALS

Physical Plant

Back in operation are the four large cold rooms of the low temperature laboratory. A new cooling system has been installed, new insulation lines the walls, and the whole set-up has been renovated. The equipment is now ready for the new series of dazzling discoveries which its users will no doubt make shortly.

Can you imagine Phytophthora erectus in fire-station colors? Many University buildings, including our Agronomic neighbor, have succumbed to the inclinations of vivid-color minded painters, but in plant path the strongest force stands adamant for moderation! Keep tuned to this station for the outcome of this thrilling controversy.

People of Pathology

Local wrists are slightly swollen from waving goodbye to the many recent departers. The following have lately been tead off: Mal Shurtleff P.P. (Prelim Passer), with friend wife, former plant path secretary, Margaret Johnson, heading for his Rhodailand job. Alfredo Campos M.S., the Rockefeller kid, returning to G.H.Q. in Mexico. Julio Bird, back to Porto Rico with a new baby and a Master's degree, in that order. Y.T. Hsia, another fellow with a new M.S., left for China, September 15, on an oft-postponed trip (the song is right about that "slow boat"-- he's routed via Hong Kong.) Cecil Damon is the lone local boy. The Prudential Insurance Co. will have his services.

It's Donald E. Munnecke Ph.D. now, and the same significant initials can be added to Phil Hamm's name. It hasn't changed the boys a bit. A. G. Kouser is over the prelim hurdle with colors flying.

The Pathological Community

A new social, athletic, and cultural force looms large on the local horizon. EPPMCC - Embryo Plant Pathologists Marching and Chowder Club. A number of successful forays to the field have the members pouting like pigeons. And the paltry and insignificant sum of ten cents (American) will get you a beautifully engraved Life Membership card "for 99 years or until death which ever (sic) is sooner". Membership by Post-embryos invited.

Barley and its fungus ailments were shown at the State Fair this year. Infections executed personally by Dick Pon. This has been an unusual season, a wet cold spring followed by a cold summer with a mid-August frost in local areas (it missed University Farm). Farmers are having to learn how to handle unripened corn in many places. But some of us aren't complaining. No Minnesota heat waves!

BOOKSHELF

- Robles--Control of agricultural plagues, Agronomia No. 10.
Hendrix, Murakishi, Lyle (3 Old Timers) --Tomato defoliation diseases in Hawaii, U. of Hawaii Bul. 101.
Nyland--Tilletiopsis, Mycologia July-August
Ling--Cintractia Montagnei and related spp., Ibid.
Phytopath. July, offers Peterson*--Arctic aerobiology III, cereals, 1947;
August, Siggers--Possible mechanism of variation in imperfect stage of Scirrhia acicola; Sept.,
Thornberry*--Plaque formation by Xanthomonas pruni bacteriophage.
Agronomy J. Sept., Hansing*--sorghum weak neck.
Conners*--Canadian plant disease report for 1949, Can. Dept. Agr.
Pl. Dis. Reporter, July 15: J.L.Allison--Alfalfa bacterial wilt and stem nematode, Ladina clover leaf spot, new to N.C.; Andrews, A.E.*--Corn stalk breakage and Fusarium, Mich.; Folsom and Bonde--Black dot of potato, Maine.
Aug. 15; Tervet*--device for spore collecting; C.G. Anderson*--meadow nematode and Mazzard cherry. Suppl. 195: Brierley--Ornamental crop disease investigations in USDA; Lyle--history of botany and plant pathology at Alabama Polytechnic Institute (in which mention is made of Old Timers Jimmy Seal, Henry Darling, Ted Wright, Tommy King, Dudley Preston, and Coyt Wilson).

Greeney* (revision)--Illustrated guide to prairie weeds, Line Elev. Farm Service Bul. 2,

"I will go root away
The noisesome weeds, that without profit suck
The soil's fertility from wholesome flowers."
--King Richard the Second

LOCAL SQUIBS (for two issues)

- Stakman--Science--its sphere of influence, Research, March. Science and national authoritarianism, Proc. Amer. Philos. Soc. v. 92.
Moore, Stakman*--breeding rust resistant oats at Minnesota--Agron. J., July. French and C.M. Christensen--Oak wilt, Minn., Pl. Dis. Reporter March 15. Eide--Sanitation for ring rot, Farm and Home Science, 2, No.3.
J. J. Christensen and Schneider--European corn borer in relation to shank, stalk, and ear rots of corn, Phytopath. March. Abs. by Stakman and Daly--Soil nutrients and susceptibility, 41st meeting Amer. Soc. Agron. and Soil Sci. Soc. Amer., Oct. (1949)
Abstracts in January Phytopath.--Baskin--copper on potato foliage; Boosalis--partial vacuum inoculating technique; Cohen--formation of sexual bodies by hyphae of two Phytophthora isolates; Daly and Lu--cultural characters of uranium-nitrate induced mutants of Ustilago zeae; Khan--temperature and Rhizoctonia solani on legumes; King, Tveit, Baskin--Sprays for chlorosis in flax, strawberries, on alkaline soil; Kommedahl;
J.J.Christensen--Mechanical injury and seed treatment on flax germination; also (with Schwingener--Colletotrichum

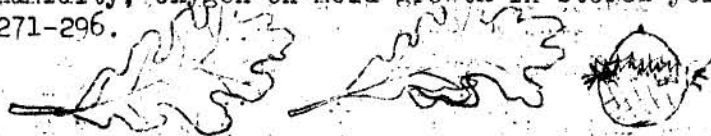
and flax seedling infection; Loegering--wheat stem rust race survival; Shurtleff--measuring water loss from Gramineae; Wahl--variations induced by uranium nitrate in cultivated mushroom.

Heggeness--what do herbicides do to plants? Minn. Farm and Home Sci., No. 6. Hirshhorn and Munnecke--Sodium arsenite and combining ability of U. zeae lines, Phytopath. May; J. J. Christensen, Hanson*--bluegrass billbug and basal stem rust and root rot of cereals and grasses in NC U.S., Ibid. June.

Kernkamp--Soybean root rot, Soybean Digest, pp. 54-55. C. M. Christensen, Cohen--molds in flour, Cereal Chem., pp. 178-185. Kernkamp--Seed treatment alfalfa, red and sweet clover, Minn. Seed Grower pp. 1-2.

Sharvelle, Teller--copper fungicides for strawberry leaf spot, Phytopath. August; also brown rot control, Ibid. *Moore, Stakman--breeding rust resistant oats, Agron. J., July. Laskaris--Diplodina of Delphinium, Phytopath. July. Goodman--adaptive production of amylase and lipase by 3 fungi spp., Science pp. 176-179. C. M. Christensen--temperature, humidity, oxygen on mold growth in stored yellow corn, Cereal Chem. pp. 271-296.

THURSDAY EVENINGS AT EIGHT....



A brand-new seminar committee was installed this summer, Shurtleff and his staff having served valiantly but making way for younger blood. Merle Michaelson, chairman, Dave Thurston, Shukla, Postigo, and Norm Krog make up the new party in power. A voice was heard in the crowd asking how these men came to be "elected" to such important offices. The reply came quickly and tersely, "All the eligible voters cast his vote".

J. J. Christensen has been "consulting" (sightseeing?) in Japan for several months and he described his experiences and illustrated much of what he saw with kodachromes. Most of what he talked of dealt with agriculture, since 47 per cent of the Japanese are engaged in this occupation. He marveled at the efficiency and friendliness of these hard-working people. There seemed to be a common bond between Chris and the Japanese in their deep love for flowers and boys. As evidence of their love for boys, flags made from carp skins fly from mastheads above their homes, one flag per boy. A kodachrome showing 3 carps flying from a pole above one home was shown, and this sight filled our Acting Chief with strange delight.

Old Timers have had their say at Seminar during the summer. Peewee Wallace came, among other reasons, to tell of quick decline, and Milton Petty informed the gang of his work at Lederle Laboratories. Everyone here knows what the name Petty means: a serious, scholarly, hard-working, young scientist.

Speeches by local "spellbinders" both on published researches made by other men and on researches made at Minnesota, occupied many a seminar hour. For one, Julio Bird of Puerto Rico, in a recital of his Master's thesis, outlined the infamous career of a *Fusarium* and of a *Verticillium* that raised cane with his peppers. "Gush, what troubles they cause!" he exclaimed. Equally depreciating were Makila's remarks about the *Fusarium* that wilts melons--especially the good old Iroquois melon which was supposedly wilt-resistant.

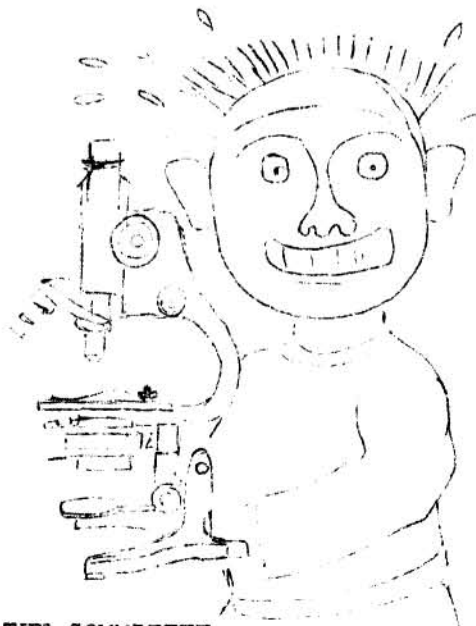
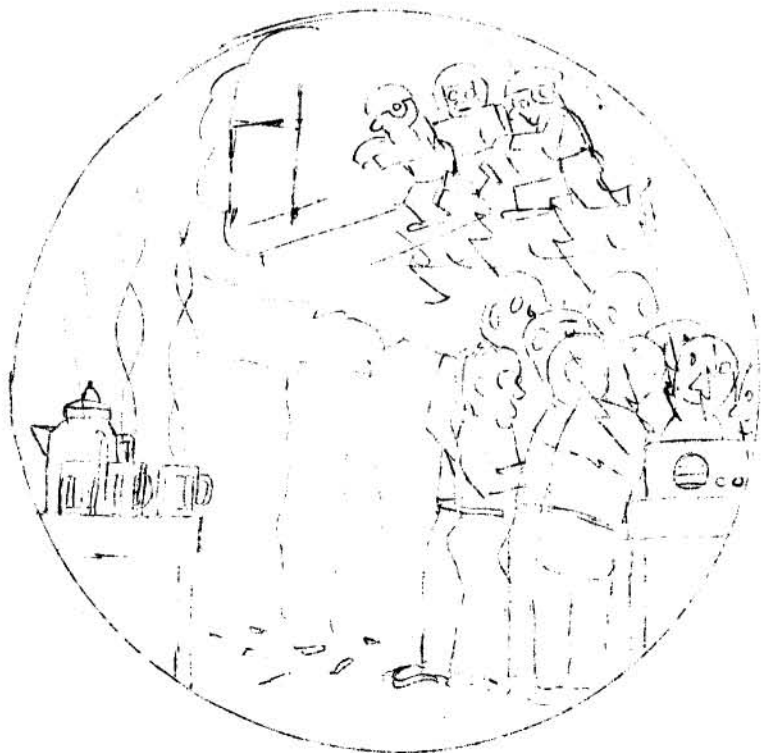
Our friend on the A.E.C. project, Ed Butler, was genuinely interested in telling of his adventures with *Sordaria finicola*. From 40-day-old cultures, he took 12-day-old spores and soaked them in water, then he left on a vacation (despite cleverly-worded interrogations, he would not disclose the length of the vacation he "took"). When he came back, he discovered that the spores had germinated 100 per cent instead of the usual 10 per cent. "Aha," he said, "100 per cent germination". To what do we attribute the increase of 90 per cent in germination: his technique, the length of the vacation, or the vacation per se?

Miss Celia Boasso of Uruguay told in 2 minutes the story of her scientific excursion to California and remarked in passing (she passed through Colorado enroute to California) how well the Coloradoans liked our new seminar chairman. "They like heem verree much," she says. Then Glen Hemerick recounted the story of the birds and the bees and alfalfa at Lake-of-the-Woods, where Hemerick hibernated all summer, and H. David Thurston, the new Teaching Assistant in Plant Path 1, poignantly told of the tremendous amount of chemicals that were sprinkled and blown onto blightless potato plants grown in the land that Dave loves so well--the charming Red River Valley.

Exams came to some, as it must to all men. Kauser of Pakistan, with a twinkle in his eyes and a flick of his mustache, likened his prelim to an appendicitis operation. (When asked whether he had ever been operated for appendicitis, he replied, "yes, once"). Campos of Mexico said, "I missed some questions (on my Master's oral), but that was not my fault". The last question said to have been asked of him in the exam was, "How are you going to celebrate?", to which Alfredo replied, "I don't know, I have not thought deeply on that question". Campos ordinarily is engaged in much reflective thinking.

While Makila was beginning to review a paper concerning a mutant from corn which resembled Johnson Grass, Bill Leegering shuffled in. Promptly the seminar voted to fine Willie Q. the sum of one dollar, payable in 10 weekly payments. The treasurer is anxiously awaiting that first payment. Meanwhile Makila finished his paper.

Logsdon's search at Castle Danger has yet to be told, as well as Goto's ferreting out of worms, nematodes, and such from oats, and the tales of Melander Day, and Hayden's unique way of telling the cereals apart, the reports of the experiment stations at the outlying areas of the state, the addition of two new girls (Myrt and Elsa) to the Division, and of reports of the Summer Meetings at Michigan State, and of how Makila got lost in the Porcupine Mountains at 4 in the morning while Kommedahl and Leegering slept on to a more reasonable hour---but all these must be left unwritten and unsaid and the reader can chuckle on the strength of his own imagination.



THE COMMITTEE--

J.J. Christensen
Louise Dossall
Ismail Ibrahim
Norman Krog
(chairman) Laura Hamilton