

STATION NEWS

New York State Agricultural Experiment Station, Geneva

A House Organ for Station Employees
Not for Publication Without Consent

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WENDELL ROELOFS RECEIVES TOP PRIZE IN FIELD OF AGRICULTURE



By now, most of the country should be aware that Dr. Wendell Roelofs, Liberty Hyde Bailey professor of insect biochemistry in entomology at the Station, is to be presented the Wolf Prize in Agriculture by the Wolf Foundation in Israel.

All of us at the Station extend to Wendy and the many people who have worked with him since he came here in 1965 our heartiest congratulations on this award. The Wolf Prize is the top award given in the field of agriculture and includes a gift of \$100,000 to Wendell. The prize award ceremony will be held in May at the Knesset Israel Parliament in Jerusalem. Five awards are given annually, one each in the fields of agriculture, physics, chemistry, medicine, and mathematics. A sixth award may be given in the field of art if applicable.

For those of you who may not be familiar with the Wolf Prize, the Wolf Foundation began its activities in January 1976 with an initial endowment of \$10,000,000. Purposes of the Foundation are to promote science in all fields and art in all its forms; to grant prizes to scientists and artists outstanding for their achievements for the benefit of humanity and brotherly relationships; and to grant scholarships to students, allocations to scientists engaged in research, and loans to universities and other institutes of higher learning in Israel.

Outstanding feature of the Foundation is its international nature and that it is aimed at awarding prizes to scientists and artists throughout the world, evaluating the candidates only on the merits of their achievements.

Awards are presented by the President of the State of Israel. Attending the ceremony will be Prime Minister Begin, the Minister of Education and Culture, national authorities, heads of universities, and distinguished guests from throughout the world.

As most of you know, Wendell is an internationally known scientist in the field of sex pheromones (attractants). He conducted pioneering studies on the isolation, identification, synthesis, and use of sex pheromones and has compiled quantities of data on the chemistry, perception, and utilization of sex pheromones in the field of agriculture.

Many of us can remember when Wendell joined the Station faculty in 1965. He was the first biochemist hired in the department of entomology. Paul Chapman was chairman of the department at the time. Initially, identification of individual pheromones was a laborious process requiring the use of thousands of female insects. It was not too long before Wendell developed a special technique, known as the electroantennogram, to monitor for biologically active compounds in pheromone extracts. This discovery, which was a major breakthrough, and the technique of using a series of synthetic compounds greatly decreased the amount of time required to make identifications of sex pheromones. It also reduced the number of female insects required from thousands to hundreds or less.

Through the years, Wendell and his excellent staff have identified many sex pheromones of various species, including the redbanded leafroller, the oriental fruit moth, the obliquebanded leafroller, the grapeberry moth, the tobacco budworm moth, the fruittree leafroller, the potato tuberworm, the San Jose scale, and many others.

In itself, these accomplishments would be considered monumental. However, Wendell did not stop here. He has seen that they are put to practical use. In addition to determining pheromone blends, he cooperates closely with industry in designing insect traps and pheromone dispensers in practical kits. As most of you know, this procedure is commonly used today, on a

commercial basis, as a monitoring device. It has become a vital part of orchard pest-management programs which is resulting in growers eliminating unnecessary pesticide treatments.

Wendell has also used pheromones for direct insect control. He has demonstrated that redbanded leafroller populations can be suppressed in apple orchards using one trap per tree. He and his colleagues also have conducted research on disrupting the sexual communication of insect pests by broadcasting the pheromones in the field.

Currently, Wendell is experimenting with blends of pheromones which disrupt mating and control multiple insect species, thus eliminating the need for separate applications. Through the years, he has published more than 200 scientific and popular articles plus he has written 15 chapters for books.

As might be expected, Wendell serves on numerous international and national committees and has received many awards, including the J. Everett Bussart Memorial Award in 1973, the Alexander von Humboldt Award in 1977, the Outstanding Alumni Award from Central College, his undergraduate alma mater, in 1978, and the Entomological Society of America Founder's Memorial Award Lecturer in 1980. He has also been an invited speaker to many international conferences held in Israel, Australia, Finland, The Netherlands, Japan, and the Soviet Union. In 1976, he was a member of the Delegation on Insect Control which visited Mainland China, and he currently has people from China working with him here in Geneva.

Wendell is just 44 years of age and in the prime of his career. He was named the Liberty Hyde Bailey Professor of Insect Biochemistry in 1978.

With his great dedication to his work, to the Station, and to Cornell University, Wendell has still found time to be extremely active in the community and in sports. All members of the Station family salute you, Wendell, on your tremendous achievement, and we wish you every success in the many productive years that lie ahead.

STATION CALENDAR

for the week of January 2, 1983



CALENDAR OF EVENTS JANUARY 1983

- Monday 3—12:00 Noon—Room 310, Entomology-Plant Pathology Laboratory—Deciduous Fruit Tree Discussion Session
- Tuesday 4—3:00 p.m.—Director's Office—Geneva Department Heads Meeting
- Wednesday 5—3:30 p.m.—Staff Room, Jordan Hall—Horticulture Seminar
- 5—4:15 p.m.—135 Emerson Hall, Ithaca—College Faculty Meeting
- Friday 7—12:00 Noon—Staff Room, Jordan Hall—GEC Brown Bag Luncheon to Meet the Candidates

SEMINAR—HORTICULTURE

- Date: January 5, 1983
Time: 3:30 p.m.
Place: Staff Room, Jordan Hall
Speaker: Mr. Peck Babcock
Department of Agricultural Economics, Ithaca
- Subject: Economic evaluation of the y-trellis apple system

BROWN BAG LUNCHEON

- Date: January 7, 1983
Time: 12:00 Noon
Place: Staff Room, Jordan Hall
Subject: Meet the candidates running for the Geneva Employee Council



SPECIAL THANKS

Members of the Experiment Station have shown me so much kindness during the last months. Their best wishes, prayers, and cards have helped me regain my health. I thank all of you, and especially those who have been so good in taking me to the hospital for treatments. My doctor, whom I saw this week, is surprised and pleased at the way I have reacted. It seems that malignant cells have degenerated. I am very thankful to you all.

Beulah E. Glasgow

NOTES

At a recent faculty meeting, Dr. R. S. Shallenberger, Department of Food Science and Technology, was elected Chairman. This is on a temporary basis until the spring of 1983. The position will be voted on for a three-year term at the time of the annual election for faculty committee positions.

Mary VanBuren will assume the position of Assistant Librarian effective January 6, 1983. Mary fills the vacancy created by the departure of Gail Hyde, who was recently married and moved to Williamsburg, Va.

Best Wishes for a Joyous Holiday Season and a Prosperous New Year!
Publications Department Staff

HEALTH INSURANCE REMINDER

Any bills incurred under the GHI Health Plan must be submitted within **30 days** of service. Medical forms are available in the Personnel Office or call X203.

The GEC wishes everyone a Happy Holiday Season!

THANK YOU

A very special thank you to all those who helped make this year's Station Club Christmas Party a success. It certainly couldn't have been such a success without the help of the following: custodians in Jordan Hall; farm services crew; greenhouse and grounds crew, Audrey Gardner and Patty Gibbs who served up the delicious beverages; Mary Powers and faculty wives who watched over the youngsters; John Zakour who provided the computer games; Pat Krauss who assisted with the slide presentation; Al Meaden who led the sing-a-long; and especially Santa Claus who always adds just the right touch to the occasion. And of course, thanks to all of you who attended this event which more or less brings to a close the 100th year celebration for the Experiment Station.

May you and your families have a wonderful holiday season!

Judy Birkett

CASE OF THE MISSING CHAIRS

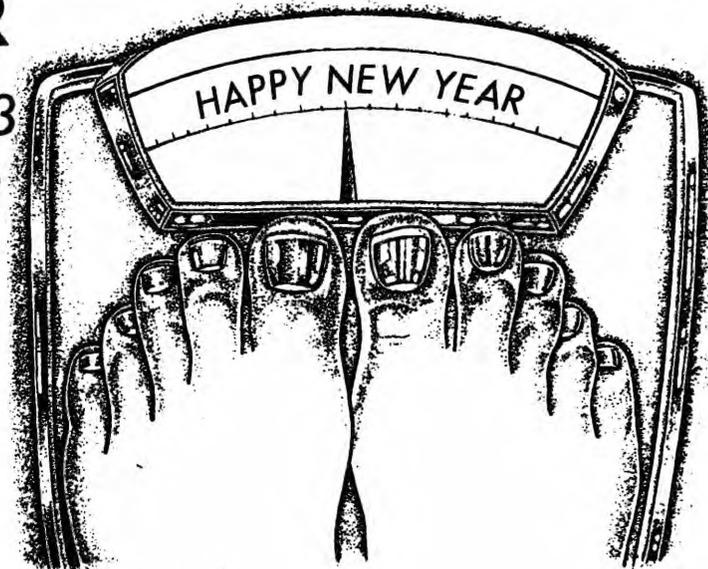
Apparently, two of the childrens' chairs were borrowed from the Auditorium of Jordan Hall following the Station Christmas party this past Saturday. Would whoever borrowed these chairs please contact Judy Birkett at X248 immediately and indicate to her how soon they will be returned. These chairs do not belong to the Experiment Station, and it is extremely important that they be returned to the lender. Thank you for your cooperation in this matter.

STATION CALENDAR

for the week of January 9, 1983

CALENDAR OF EVENTS JANUARY

- Monday 10—9:00 a.m.—IPM Conference Room—
IPM Seminar
- Tuesday 11—10:30 a.m.—348 Morrison Hall, Ithaca—
College Department Heads Meeting
- Wednesday 12—8:00 a.m.—Dome Arena, Rochester, NY—
Western New York Horticulture Show
12—10:00 a.m.—348 Morrison Hall, Ithaca—
Administrative Managers Meeting
12—7:00 p.m.—Staff Room, Jordan Hall—
Finger Lakes Stamp Club
- Thursday 13—8:00 a.m.—Dome Arena, Rochester, NY—
Western New York Horticulture Show
13—3:45 p.m.—Room A-133, Entomology-
Plant Pathology Laboratory—Plant
Pathology Seminar
13—4:00 p.m.—Food Science Conference
Room—Food Science Seminar



SEMINAR—FOOD SCIENCE

Date: January 13, 1983
Time: 4:00 p.m.
Place: Food Science Conference Room
Speaker: Dr. Thomas H. E. Cottrell
Subject: What's happening in New York State wines

INSURANCE NOTICES

Any bills incurred under the GHI Health Plan must be submitted within **30 days** of service. Medical forms are available in the Personnel Office or call X203.

Now is the time to submit Statewide Major Medical claim forms. For assistance call X203.

SEMINAR—INTEGRATED PEST MANAGEMENT

Date: January 10, 1983
Time: 9:00 a.m.
Place: IPM Conference Room
Speaker: Bob Cartwright
Department of Entomology, VPI
Blacksburg, VA
(candidate for the Vegetable IPM Coordinator position)
Subject: Biological control of *Carduus* thistles in Virginia

SEMINAR—PLANT PATHOLOGY

Date: January 13, 1983
Time: 3:45 p.m.
Place: Room A-133, Entomology-Plant Pathology
Laboratory
Speaker: Herb Aldwinckle
Subject: Apple growing in the Himalayas

WANTED

Used DeWitt wetness meter. Will pay according to condition. Call Doug at X209.

FOR SALE

Used kitchen cabinets, double sink, electric cooktop, oven, and hood. Phone Mary Lou at X212 or 585-9836.

STATION CALENDAR

for the week of January 16, 1983

CALENDAR OF EVENTS JANUARY

- Monday 17—3:30 p.m.—Staff Room, Jordan Hall—
Geneva Faculty Meeting
- Tuesday 18—Albany, N. Y.—Eastern New York Horti-
culture Show
- Wednesday 19—Albany, N. Y.—Eastern New York Horti-
culture Show
19—10:30 a.m.—Tour—Church School Stu-
dents
19—3:30 p.m.—Staff Room, Jordan Hall—
Horticulture Seminar
- Thursday 20—3:45 p.m.—Room A-133, Entomology-
Plant Pathology Laboratory—Plant
Pathology Seminar

SEMINAR—HORTICULTURE

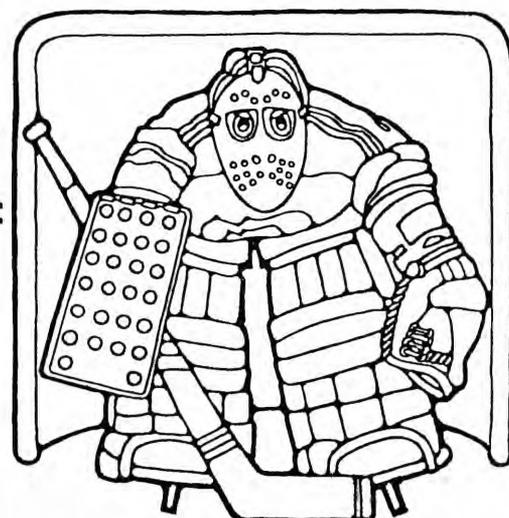
Date: January 19, 1983
Time: 3:30 p.m.
Place: Staff Room, Jordan Hall
Speaker: Gerry Marx
Subject: Pigment genes in pea doing double duty

SEMINAR—PLANT PATHOLOGY

Date: January 20, 1983
Time: 3:45 p.m.
Place: Room A-133, Entomology-Plant Pathology
Laboratory
Speaker: Roger C. Pearson
Subject: Sabbatical report: Cultivation of grapes in the
Mosel Valley and overwintering of the pow-
dery mildew fungus

OPEN TRANSFER FOR HEALTH INSURANCE EXTENDED

The open transfer period for Health Insurance has been extended through the 28th of January. Contact Personnel regarding any questions, X203.



GERMAN FILM MINI SERIES

A German film mini series at Hobart/William Smith Colleges begins Monday, January 17. Full length feature films with original sound track and English subtitles will be shown in Demarest Hall (behind St. John's Chapel), Room 14 at 7:30 p.m. The community is welcome; admission is free. January 17: John Gluckstandt; January 31: Der plotzliche Reichtum der armen Leute von Kombach; February 14: Nachtschatten; February 28: Mathias Kneissel.

GEC ELECTION

The GEC would like to thank the people who attended the Meet the Candidates Brown Bag Luncheon. Although few in numbers, they were treated to a fine presentation by the perspective council members.

Many thanks to the Nomination and Election Committee for providing the candidates with the opportunity to present their views.

VOTE

The GEC needs **your** vote. We need to know that you support us. Fill out your ballot carefully! We want your vote to count. The polls are open until 3:30 p.m. January 21, 1983.

NOTE

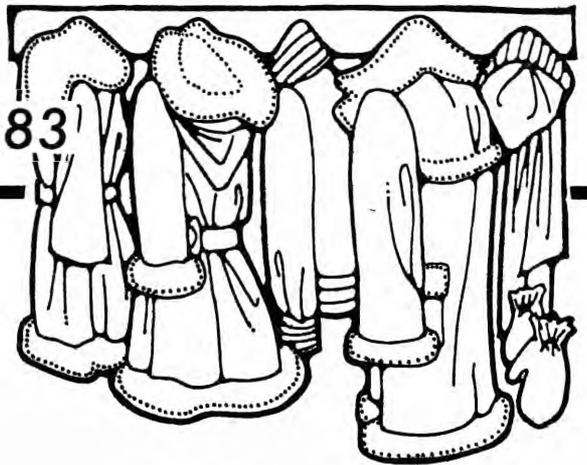
A Directory of Participating Physicians is available for information on GHI insurance in the Personnel Office.

FOR RENT

Large one-bedroom apartment with fireplace, appliances, and all utilities. South Main St. near Jay. No pets. Call Terry, X283.

STATION CALENDAR

for the week of January 23, 1983



CALENDAR OF EVENTS JANUARY

- Monday 24—9:00 a.m.—Staff Room, Jordan Hall—
New York State Apple Research Association Meeting
- Wednesday 26—9:00 a.m.—IPM Conference Room—
Seminar
- 26—12:00 Noon—Batavia Holiday Inn—New
York State Grape Production Research
Fund Meeting
- 26—3:30 p.m.—Staff Room, Jordan Hall—
Horticulture Seminar
- 26—7:00 p.m.—Staff Room, Jordan Hall—
Finger Lakes Stamp Club
- Thursday 27—10:00 a.m.—Food Science Conference
Room—Cooperative Extension Computer
Demonstration Meeting
- 27—2:30 p.m.—Conference Room, Jordan
Hall—Parrott Hall Committee Meeting
- 27—3:45 p.m.—Room A-133, Entomology-
Plant Pathology Laboratory—Plant
Pathology Seminar
- 27—4:00 p.m.—Room 310, Entomology-
Plant Pathology Laboratory—Ento-
mology Seminar
- 27—4:00 p.m.—Food Science Lunchroom—
Food Science Seminar
- Friday 28—10:30 a.m.—Conference Room, Jordan
Hall—Station Safety Committee
Meeting

SEMINAR—ENTOMOLOGY

- Date: January 27, 1983
Time: 4:00 p.m.
Place: Room 310, Entomology-Plant Pathology Laboratory
- Speaker: Dr. J. P. Nyrop
Subject: Adult parasitoid activity and its relation to biological control

SEMINAR—FOOD SCIENCE

- Date: January 27, 1983
Time: 4:00 p.m.
Place: Food Science Lunchroom
Speaker: Gil Stoewsand
Subject: Quercetin: Is it a carcinogen?

SEMINAR—PEST MANAGEMENT

- Date: January 26, 1983
Time: 9:00 a.m.
Place: IPM Conference Room
Speaker: Rick Foster
Department of Entomology
Iowa State University
(Candidate for Vegetable Coordinator position)
- Subject: Sampling and scouting for corn insect pests and economic impact of corn root worms on corn in Iowa

SEMINAR—HORTICULTURE

- Date: January 26, 1983
Time: 3:30 p.m.
Place: Staff Room, Jordan Hall
Speaker: Martin Goffinet
Subject: Comparative ontogeny of male and female cucumber flowers

SEMINAR—PLANT PATHOLOGY

- Date: January 27, 1983
Time: 3:45 p.m.
Place: Room A-133, Entomology-Plant Pathology Laboratory
- Speaker: Peter Adams
Research Plant Pathologist
Soilborne Diseases Laboratory
USDA, Beltsville, MD
- Subject: Biological control of lettuce drop by the mycoparasite, *Sporidesmium sclerotivorum*

SAFETY COMMITTEE MEETING

The station safety committee will meet on Friday, January 28, 1983 at 10:30 a.m. in the conference room, Jordan Hall. If any employee has a concern relative to safety matters that he or she wishes to bring before the committee at this meeting, please contact your department safety representative. Department representatives are: Chairman, Rocco Polimeni; Publications, Pat Krauss; Entomology, Phil Evans; Food Science, John Stamer; Plant Pathology, Harvey Hoch; Pomology and Viticulture, Bob Lamb; Seed and Vegetable Sciences (Sturtevant), Anwar Khan; Seed and Vegetable Sciences (Hedrick), Nathan Peck; Buildings and Properties, Jack Chimera; Greenhouse and Grounds, Tom DeYulio; Farm Services, Glen McGuigan; Recreation Safety, Dave Angell; and Plant Introduction, John Oughterson.

DON'T FORGET TO VOTE

The GEC reminds you this is the last day to vote for candidates. The ballots will be picked up at 3:30 p.m. today, January 21, 1983.

EMPLOYEE ASSEMBLY PETITIONING TO BEGIN

Petitioning for the Experiment Station's seat on the Employee Assembly at Cornell will run from February 1 through March 1, 1983. This seat is reserved for an exempt or →

non-exempt employee from the Station. If no one comes forth to run, the seat will be filled by an employee from the Ithaca campus.

Any exempt or non-exempt employee, who would be interested in running for this seat is asked to contact Audrey Gardner X280 as soon as possible for additional information and a Nominating Petition. We cannot afford to lose our representation on the Employee Assembly. If only one candidate comes forth, he or she will automatically be elected. If more than one candidate comes forth, they will vie for the seat in the general election with all employees, at Cornell and at the Experiment Station, voting for all candidates.



HAPPINESS HOUSE RADIOTHON

A radiothon to benefit Happiness House in Geneva will be held this Saturday, January 22, 1983 on WECQ-FM in Geneva. The twelve-hour program will run from 1 p.m. Saturday until 1 a.m. Sunday. During this radiothon, telephones will be manned at Happiness House so that you can make pledges toward this worthy organization. Simply call 789-6828 to make your pledge. Happiness House, as you know, serves several hundred handicapped children in the Finger Lakes area.



PERSONNEL NOTICE

Beginning January 25, the Personnel Office, Jordan Hall will be closed on Tuesday and Thursday mornings. I have commitments on campus through May.

Thank you for your cooperation.

Charie Robinson

FURNISHINGS NEEDED

The Experiment Station is in need of a variety of used living room, dining room, bedroom, and kitchen furniture to furnish one of our Station houses. This type of rental unit will be used by visiting scientists and their families on a short term basis. Since the Station cannot afford to supply the necessary furniture all, **donations** will be gratefully appreciated. The furniture must be in fairly good usable condition. We will be happy to supply each donor with a receipt for tax write-off purposes.

Please contact the Business Office at X202.



RIDE NEEDED

Ride needed on a daily basis from Geneva to Cornell. I am willing to help pay for gasoline. Contact Ramon, X363 or 789-7460.



FOUND

A fur hat in the IPM House. Owner may claim by contacting John Barnard, X289.

A multicolored scarf has been turned in to the Publications Office. Owner may claim by stopping in or calling X248.



STATION CALENDAR

for the week of January 30, 1983

CALENDAR OF EVENTS JANUARY-FEBRUARY

- Monday 31—12:00 p.m.—Room 310, Entomology-Plant Pathology Laboratory—Deciduous Fruit Tree Discussion Session
- Tuesday 1—12:10 p.m.—Room A-133, Entomology-Plant Pathology Laboratory—GEC Meeting
1—3:00 p.m.—Staff Room, Jordan Hall—Geneva Department Heads Meeting
1—3:45 p.m.—Room A-133, Entomology-Plant Pathology Laboratory—Plant Pathology Seminar
- Wednesday 2—9:30 a.m.—Tour—Border City School Students
2—10:00 a.m.—Staff Room, Jordan Hall—Cooperative Extension Meeting
2—1:00 p.m.—Tour—Seneca Falls School Students
2—3:30 p.m.—Food Science Conference Room—Horticulture Seminar
2—4:15 p.m.—135 Emerson Hall, Ithaca—College Faculty Meeting
- Thursday 3—10:00 a.m.—Food Science Conference Room—Cooperative Extension Meeting
3—4:00 p.m.—Room 310, Entomology-Plant Pathology Laboratory—Entomology Seminar

SEMINAR—PLANT PATHOLOGY

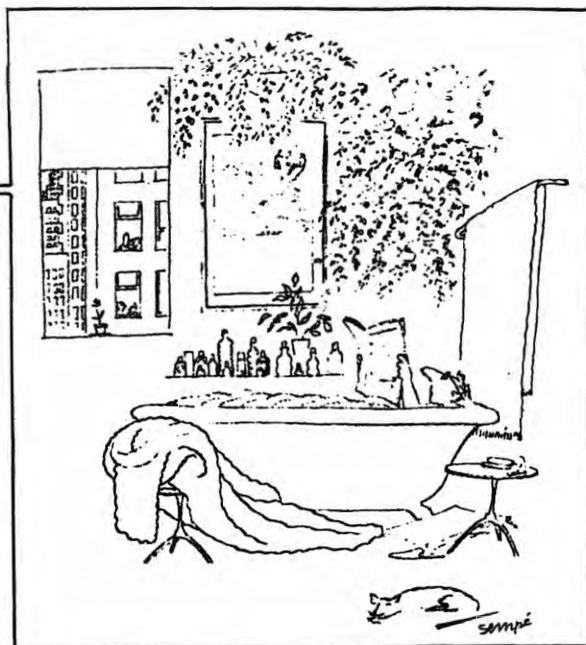
Date: February 1, 1983
Time: 3:45 p.m.
Place: Room A-133, Entomology-Plant Pathology Laboratory
Speaker: Dr. William Mai
Department of Plant Pathology, Ithaca
Subject: Replant problems of fruit trees in New York

SEMINAR—HORTICULTURE

Date: February 2, 1983
Time: 3:30 p.m.
Place: Food Science Conference Room
Speaker: Norm Weeden
Subject: Uses of isozymes in varietal identification and plant breeding

SEMINAR—ENTOMOLOGY

Date: February 3, 1983
Time: 4:00 p.m.
Place: Room 310, Entomology-Plant Pathology Laboratory
Speaker: Dr. Win Herebout
Division of Systematics and Evolutionary Biology
University of Leiden
The Netherlands
Subject: Behavioral and chemical aspects of the reproductive isolation among small ermine moths



SEMINAR—SPECIAL CENTENNIAL

Date: February 4, 1983
Time: 10:30 a.m.
Place: Staff Room, Jordan Hall
Speaker: Dr. James Tiedje
Department of Agronomy
Michigan State University
Subject: Measurement of nitrogen pathways in soils and the atmosphere

Dr. Tiedje's research has focused on the biochemical, microbiological, and environmental aspects of denitrification. In the seminar he will talk about the pathway by which denitrifying cells from the N-N bond since this is the step unique to denitrification and the one that offers potential for specific inhibition. He will explain the new methods he has developed to measure this process, especially the use of the radioactive isotope of nitrogen, ^{15}N , as well as gas chromatographic and ^{15}N methods. These methods have been used to understand the effect of moisture and oxygen content on regulation of denitrification in soil. Microoxygen electrodes have also been used to measure the oxygen profile within soil aggregates to help understand the microenvironmental conditions that trigger denitrification. Dr. Tiedje will also report on other sources of N_2O such as nitrification, fungi, and human breath after individuals eat high nitrate foods.

GEC UPDATE

Results of the 1983 GEC election are as follows: Academic Seat—Harvey Reissig; Non-Academic Exempt Seat—Audrey Gardner; Non-Exempt Seats—Catherine Roe, Don Lipker, and Bruce Moore.

Also, as a reminder, the first meeting of the newly elected council will be Tuesday, February 1, 1983 at 12:10 p.m. in Room A-133, Entomology-Plant Pathology Laboratory.

PERSONNEL NOTICE

Beginning January 31, the Personnel Office, Jordan Hall will be closed on **Monday** and **Wednesday** mornings instead of Tuesday and Thursday mornings as previously noted.

Thank you for your cooperation.

Charie Robinson

FOR SALE

Country home, 3.5 acres, south of Geneva. Three bedrooms, living room, large kitchen, large bath. Woodstove. Insulated. Assumable mortgage. \$41,500. Call 548-2484 evenings or weekends.

The following are available at a nominal cost:
A History of Agriculture in New York State, U. P. Hedrick. 4th edition of Corn and Corn Growing, Henry A. Wallace and Earl N. Bressman, 1937.
A Year in Agriculture, by Aretas W. Nolan, 1919.
Farm Soils, Their Management and Fertilization, by Edmund L. Worthen, 1927.
These may be of interest to antique agriculture book collectors. Contact Sue Dwyer, X244.