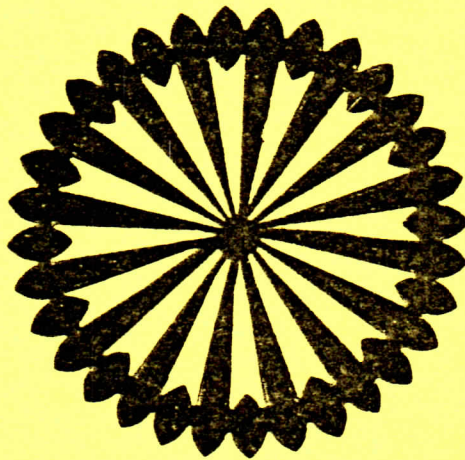


The Pennsylvania State University, College of Agriculture, Department of Plant Pathology

# *Plant Pathology Newsletter*

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1983







## GREETINGS

Dear Colleagues, Friends, and Alumni,

Greetings and best wishes for the new year of 1984. This should be an exciting year for your department with new faculty on board and recent favorable word of our long-awaited building renovation project.

In preparation for writing this 1983 newsletter, I took a few moments to see what I had written in our 1982 edition. As you may recall, I referred to finding several large pairs of shoes under the desk and expressed concern about the fit. Well, I'm pleased to report that they do fit, but wearing of four pairs of woolen socks on more occasions than I care to comfortably remember had a lot to do with keeping them on. I doubt that I'll ever be a Joe Namath! Think about it!

Several items of significance to this department took place in 1983. First, we were able to hold five faculty positions, filling them with first-rate individuals. Three new assistant professors joined us during the year: Dr. Gary W. Moorman (L. P. Nichols position), Dr. Fred E. Gildow (J. S. Boyle position), and Dr. Bruce A. Jaffee (R. F. Stouffer position). Dr. Barbara J. Christ will arrive in March, 1984, taking the position formerly held by D. R. MacKenzie. Additionally, Ms. Crystal Huff was hired as a Research Assistant to replace Dr. Vann Gregory in Dr. John Ayers' program. Each of these new faculty have inherited programs of great significance and importance to this department from those who have retired or moved on to new challenges. I'm certain that you will join us in making them feel welcome to our Penn State traditions of excellence and friendship. We are looking forward to the continuing progress of our new faculty, and have every expectation of maintaining the quality of graduate education for which we have become so well known over these many years.

Another recent major accomplishment was in recruitment which resulted in a very fine cadre of graduate students, most of whom joined us in late August. This group, along with our continuing students, have an exceptional enthusiasm for all departmental activities, from curriculum development to social activities to minor renovation of their now better office space. We look forward to their attendance and participation at our regional and national meetings of APS. You will enjoy and be impressed by our students.

Our third area of endeavor has been to better facilities and equipment for the department. At the top of the list would be completion of renovations to our greenhouse complex at the Rock Springs research facilities. Through the outstanding efforts of Dr. Gary Moorman and Mr. Larry Jordan, we were very successful in obtaining support from E. I. duPont Company and E. C. Geiger Company through donation at cost of many materials used for this renovation. Many of you will recall that the greenhouse was not usable due to the fading of the fiberglass cover. We now have a double-wall, inflated Tedlar film covering the greenhouse with a central air duct system providing uniform heat throughout. Also, Fred Gildow will be moving into newly renovated space in the Animal Behavior Laboratory. Through his efforts and those of Charlotte Keene, we have been able to repair and equip to a rather good extent his entire laboratory operations. This additional space will be of great assistance to our department during our anticipated Buckhout Laboratory renovation.

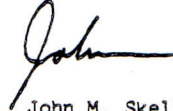
Finally, we have received good news about our planned renovation of Buckhout Laboratory. We are in the process of acquiring the architect, with funds for the multi-million dollar project released at the state level. We are certain that during each subsequent newsletter through to 1987 we will be able to keep you posted on what your building now looks like from the ground floor (which may become even lower) on up to our newly acquired space on the third and fourth floors of Buckhout Laboratory.

During 1983 we also began to look at our curriculum, attempting first off to insure that the semester conversion has gone successfully, and secondly determining whether or not the course offerings of the department meet the current academic needs of our students. We can assure you that we are endeavoring to maintain a standard of excellence in graduate education through careful planning of any revisions in our curriculum.

An enjoyable addition to the activities of our department has been a series of industry tours that we were able to take during the spring and summer. These tours have been written up elsewhere, and I only would point out that the department staff, students and faculty have enjoyed these educational tours -- indeed, they were among the most fun and educational highlights of 1983.

In closing, in behalf of the entire department here at Penn State, we wish you the best of everything in 1984. If you're travelling through the area, please do not hesitate to stop in and see your department; we would welcome the visit.

Sincerely yours,



John M. Skelly  
Professor & Head



## FACULTY

### FACULTY COMINGS AND GOINGS . . . .

We experienced quite a few faculty changes this past year, including the addition of several new faculty. We are pleased to introduce the following new department members:

Dr. GARY W. MOORMAN joined us last winter, beginning his duties as Assistant Professor of Plant Pathology Extension on January 1, 1983. Dr. Moorman's extension and teaching responsibilities concern diseases of floriculture crops, woody ornamentals, and shade trees, and the impact of current production practices on plant disease. Gary received his Ph.D. in Plant Pathology from North Carolina State University in 1978, and comes to us from the University of Massachusetts Suburban Experiment Station at Waltham, where he spent several years as Assistant Professor of Plant Pathology Extension. Gary, his wife Fran, and daughter Sara have opted for the country life, and live outside of State College near Stormstown.

A second newcomer, Dr. FREDERICK E. GILDOW, joined us in May of 1983 as Assistant Professor of Plant Pathology, specializing in the area of virus diseases of grain. He is becoming known as one of the leading researchers in the field of plant virus-insect vector relationships. Dr. Gildow comes to us from Cornell University where he received his Ph.D. and also from the University of California at Berkeley where he was Assistant Professor of Plant Pathology until joining our faculty. Dr. Gildow is currently developing a laboratory at the former Animal Behavior Laboratory located behind the Forestry Complex near graduate housing, and upon completion of that laboratory, Dr. Gildow should have a very fine research facility for the next two to three years of his career. As with all of our faculty, Fred is scheduled to move into Buckhout Laboratory upon the completion of our renovation. Fred is married to Vique, they have two children, and live in Park Forest Village.

On July 1, 1983, Dr. BRUCE A. JAFFEE, Assistant Professor of Plant Pathology, assumed responsibilities formerly held by Dr. Dick Stouffer at the Biglerville Fruit Research Laboratory. Dr. Jaffee is a 1981 graduate of Cornell University, and conducted post-doctoral work on peach tree short life prior to joining this department. Dr. Jaffee is primarily a nematologist but will also be responsible for virus diseases of various fruit trees. He will be working on nematode vector relationships in our various fruit tree disease complexes. Bruce and his wife, Ann, live just outside Biglerville and we welcome them to our department.

We are also very pleased to announce that Dr. BARBARA JEAN CHRIST will be joining our faculty in

March of 1984 to carry on the program formerly under DAVE MACKENZIE's direction. As many of you know, Dr. MacKenzie assumed the role of Head of the Department of Plant Pathology and Crop Science at Louisiana State University on July 1, 1983. Dr. Christ is a graduate of Penn State University in our Plant Science curriculum, and received her M.S. from the University of Minnesota. She currently is completing requirements for the Ph.D. degree in Botany with Genetics minor at the University of British Columbia, Vancouver. Barbara will lead the department's continuing efforts to develop new potato varieties and insure disease resistance in those varieties. We will officially welcome Barbara into our department March 1, and we anticipate an excellent program with her.

A faculty change of special note is the retirement of another member of the Plant Pathology Department, JOHN W. OSWALD. Dr. Oswald retired as President Emeritus of the University on June 30, 1983.

In addition to these professorial appointments, several changes in Research Assistant positions occurred over the past year. CRYSTAL A. HUFF joined the department on July 1, 1983, working as Research Assistant in the programs of Drs. J. AYERS and R. NELSON. Crystal received her B.S. in Horticulture from Penn State in June, and is now embarking on an M.S. program under the direction of Dr. Ayers. Crystal fills the vacancy created by Dr. VANN GREGORY (M.S. '77, Ph.D. '82), who is now employed in the watercress industry, B & W Quality Growers, in Florida.

NANCY FISHER GREGORY (M.S. '81) also left her post as Research Assistant in March of 1983. She and Vann were married in April, and she has joined him in Florida. Nancy's position took on a new look after her departure, with LOIS KLOTZ hired as a permanent staff member to carry out the responsibilities formerly held by Nancy in the Fusarium research program. Lois has worked in the department for many years, especially in the programs conducted by Drs. P. NELSON and T. A. TOUSSOUN in the Fusarium Research Center, and we are pleased that she has accepted this permanent appointment.

As you can see, we have had a very active year. We look forward to working with our new members, and wish every success to those who have moved on.

## AWARD

### MACNAB RECEIVES AWARD . . . .

Our congratulations go to ALAN A. MACNAB, who was honored with the 1983 Epsilon Sigma Phi "State Distinguished Service Award" in November. Alan received the award in recognition of outstanding service as a Cooperative Extension Service worker in Pennsylvania. Epsilon Sigma Phi is the National Honorary Extension Fraternity.



## SABBATIC LEAVE . . . .

Dr. J. R. BLOOM spent a sabbatic leave from April to September 30, 1983, at Oregon State University in Corvallis. He made a number of stops on route to Oregon, visiting nematologists in other states. While at Oregon State he worked with Dr. H. J. Jensen on a number of nematode-fungus interactions and collected materials for instructional purposes, and collected and studied several nematodes which are present in Oregon but not Pennsylvania. Jim took several trips to production and research areas, and on one such trip to a Castle-Cooke mushroom plant he met former student JORGE JULIANO. At the Hood River research station he visited with BOB SPOTTS (Ph.D. '74). The leave was further enhanced by week-end trips to areas of scenic splendor which abound in Oregon.

## DEPARTMENT TRAVELERS . . . .

PAUL E. NELSON attended the Fifth International Fusarium Workshop and the International Mycotoxin Symposium at the University of Sydney, Australia, in August, 1983, where he gave the opening address and presented a paper on the section *Sporotrichiella* at the Fusarium Workshop. He also co-authored a paper presented at the Mycotoxin Symposium. NANCY FISHER GREGORY also attended the Workshop, and assisted as an instructor.

DONALD D. DAVIS traveled to West Germany in December of 1983, where he presented a paper at a forest experiment station in Freiburg. He also went on a field trip to look at acid rain damage in the Black Forest. In other acid rain-related activities, he and graduate student BOB LONG attended an acid rain conference in Quebec, Canada, in June.

LEE SCHISLER and PAUL WUEST also traveled to Canada, representing Penn State at the North American Mushroom Conference held in Vancouver during August. Another member of the mushroom group, DAN ROYSE, traveled to Tokyo, Japan, to present an invited symposium paper at the Third International Mycological Congress in late August. The symposium session was on "Genetic Control of Fruiting and Related Problems in Higher Basidiomycetes."

In December, a Workshop was held at the CIMMYT International Research Center in El Batan, Mexico, and FRED GILDOW attended to further his virus research program. R. R. NELSON traveled even farther south to Barquesimeto, Venezuela, where he met with faculty at Central Occidental University.

SAM SMITH traveled to Swaziland in March of 1983, representing the College of Agriculture. The trip was made to further cooperative programs between Penn State, USAID, and the Ministry of Agriculture and Cooperatives of the Government of Swaziland.

Dr. DEMETRIOS POLITIS, who is doing post-doctoral research at the Plant Disease Research Laboratory in Frederick, Maryland, in cooperation with our Department, spent several days in Athens and

Salonica, Greece to confer with other scientists and collect information.

Finally, many members of the department travelled to Quebec, Canada, to attend the Northeast Division meetings of APS. Among the faculty attending were FRED GILDOW, KENNETH HICKEY, BRUCE JAFFEE, FELIX LUKEZIC, STANLEY PENNYPACKER, PETER ROMAINE, PATRICIA SANDERS, JOHN SKELLY, GARY MOORMAN, JIM TRAVIS, and PAUL WUEST. Several graduate students also attended and presented papers.

## SPECIAL ACTIVITIES

### "ACADEMIC" EVENTS . . . .

Two very enjoyable and "academic" events took place during the spring and summer of 1983. Tours of Oglevee Associates and Moonlight Mushrooms took place which involved our secretarial staff, technical staff, graduate students, and faculty. Approximately 25 and 40 persons joined each tour, respectively. The purpose of these tours is to familiarize our group with the various agricultural industries throughout the Commonwealth. Many of us work in very specific areas and have limited knowledge of the programs of other faculty and staff in the department. These tours provide an opportunity to become aware of the diversity and importance of these industries.

The tour of Oglevee Associates was truly of outstanding educational value. With Dr. JIM TAMMEN and Mr. Robert Oglevee present, the group was challenged to work with them throughout the tour to apply principles of plant pathology to this tremendous and outstandingly productive greenhouse operation. We were given the opportunity to follow the entire production of culture virus-indexed geranium stock from tissue culture through to harvesting and sale of plants, and to other nursery and greenhouse operations. The entire tour was built around plant pathology, and following a very delicious lunch hosted by Oglevee Associates hour-long session of problem solving and disease identification was led by Bob Oglevee. All who attended enjoyed a truly exciting and very enthusiastic day.

Our second tour was of Moonlight Mushrooms, located in Butler County, Pennsylvania. This particular tour was hosted by Mr. JOHN YODER, President of the Company and by Dr. JIM SINDEN. Moonlight Mushrooms is an operation which harvests mushrooms from nearly 60 miles of limestone caves that originated from limestone harvesting by Pennsylvania steel industries. The tour followed the production of mushroom spawn production through to a very elaborate and fast-moving packaging plant. Once again, this tour was based primarily on the pathological aspects of mushroom production, but the group had the opportunity to view the extensive facilities of Moonlight Mushrooms where over 50



million pounds of mushrooms are grown annually. On the return trip to State College, we took a few moments to visit the mine-mouth power plants located in Indiana and discussed very briefly some of the history of the area in relation to the development of this industry.

Future tours are planned for the summer of 1984 and will include a trip to Borden/Wise Potato Chips at Berwick, Pennsylvania, and perhaps a trip to northeastern Pennsylvania to tour the hardwood utilization industries, and the wine and grape industry of Erie county.

## VISITORS

### VISITORS . . . .

The Department hosted a number of visitors during 1983, some of whom spent extended periods in the Department.

Mr. TAO-CHEN HU, an FAO Fellow from the Beijing Vegetable Research Center in the Peoples Republic of China, visited the Fusarium Research Center during October 1983, to study the techniques used in isolating, culturing, and preserving Fusarium species.

Ms. AILSA D. HOCKING also visited the Fusarium Research Center, spending six weeks during November and December pursuing her main interests in the taxonomy of toxigenic species of Fusarium and the general techniques used in handling Fusarium. Ailsa is a Food Microbiologist with the Commonwealth Scientific and Industrial Research Organization, Division of Food Research, North Ryde, N.S.W., Australia. In addition to her visit at Penn State, she will also be spending time with W. F. O. MARASAS at Rydalmere, South Africa. Dr. Marasas earlier spent a sabbatic leave in the Department and cooperated on a book published by Drs. P. Nelson, Toussoun and Marasas.

Dr. OSCAR OPINA, of the University of The Philippines at Los Banos, spent a sabbatic leave in the department from April through October, working closely with Dr. RICHARD D. SCHEIN. Dr. Opina is primarily responsible for instruction at the UPLB, and spent his leave developing an undergraduate course in epidemiology and plant disease management. This course will be an introduction to an advanced-level course given at UPLB by GUS MOLINA, (Ph.D. '83).

Many other scientists visited the Department over the past year to present seminars. Four individuals from the Plant Disease Research Laboratory, Frederick, Maryland were on campus as part of our seminar exchange program with the Lab: Dr. William Dowler spoke on "Peach Tree Shortlife: Pathologist's Dream; Grower's Nightmare; and Dr. MORRIS BONDE discussed "Downy Mildews of Maize and Sorghum; Research Programs at Frederick, Maryland." Dr. Bonde is Adjunct Assistant Professor of Plant

Pathology in our Department. Dr. Frances Latterell also joined us, speaking on "The Increasing Importance of Gray Leafspot and Diplodia Stalk Rot on Corn in Eastern United States; and Dr. J. S. Melching spoke on "Environmental Factors Affecting Epidemiology of Soybean Rust." Drs. F. LUKEZIC, J. AYERS, and B. JAFFEE traveled from PSU to present seminars at Frederick as part of the exchange.

Other visitors presenting seminars included:

Dr. John M. Wells: "Fastidious Gram Negative Bacteria Associated with Plant Diseases" (ARS Horticultural Crops Research, Cook College, Rutgers University)

Dr. Robert C. Lambe: "Recent Developments and the Future of Disease Management of Ornamental Production" (Department of Plant Pathology, Physiology and Weed Science, VPI & SU, Blacksburg)

Mr. David Stormer: "The Structured Interview, a Scientific Process" (Director of University Safety, The Pennsylvania State University)

Dr. Dan Moore: "Technology Transfer in Agriculture" (Associate Professor of Rural Sociology, The Pennsylvania State University)

Dr. Larry Grand: "Application of Ectomycorrhizae in Southern Pine Plantations" (Professor of Plant Pathology, North Carolina State University)

Dr. George Abawi: "Etiology and Management of Bean Root Rot in New York" (Cornell University)

Dr. James R. McClenahan: "Air Pollutant Effects on Forest Ecosystems" (Associate Professor of Forestry, Ohio Agricultural Research and Development Center, Wooster, Ohio)

## PROGRAMS

### AN INTRODUCTION . . . .

The behind-the-scenes group that has typed, filed, ordered supplies, and generally kept the offices running has remained amazingly the same for many years, and we thought you might like an update. Perhaps this is a renewal of old acquaintances for many of you rather than an introduction.

If we do this chronologically, PEG BLAIR is first, starting in the department during the sixties as a part-time typist. Since then, Peg has become full-time, and has been promoted several times to her current level. She now works with the Graduate Selections and Admission chairperson to handle all facets of the graduate application process, and in addition has become proficient in operating both of our word processing systems.

In 1971, BECKY (LYONS) PEPLINSKI joined the department to type manuscripts and handle Extension responsibilities. Becky next worked as head



secretary with Dr. Tammen, and has seen her share of department heads, including Drs. Tammen, Bloom, Smith, P. Nelson, and Skelly. She now serves as Administrative Assistant for the Department.

SUSANNE (SCHENCK) HART joined the Department in 1973 as receptionist, and then later moved up to a position handling all details related to our graduate students. Susanne was here with Peg for our first shaky steps into word processing, learning to use our first machine and helping the department adapt to new technology. Susanne was promoted a second time, as a result of increasing responsibilities in her job.

In 1976, CHARLOTTE KEENE joined the department on a part-time basis to "keep the books." Charlotte's part-time job quickly underwent a drastic change to full-time bookkeeper; as a result of her hard work and long hours, her responsibilities also expanded and in 1980 she was named Facilities and Services Coordinator for the Department.

BRENDA HOLCOMB, the computer expert of our office, has worked with us part-time since 1978. If a manuscript must be entered into the computer, Brenda does it. She also now works very closely with Peg to operate our new word processing system, which was installed in June.

Almost five years ago from the date of this Newsletter, KAY MOORE joined us as Receptionist/Typist. That pleasant, helpful voice on the phone with a slight Southern accent is Kay, who still serves as our receptionist. (Attribute the accent to Moultrie, Georgia, her hometown.) Kay also has been promoted, with Extension responsibilities now included in her duties.

TERESA SHIRK has been with the department since 1980, serving as Laboratory Attendant and Stockroom Clerk. Teresa works with Charlotte to keep the media prep lab humming, the stockroom stocked, and the glassware washer running.

Our "newcomers" to the staff include NORMA MCCLELLAN and BEATRICE HETRICK. Norma has been with us on a part-time basis for almost two years, and handles the mail and paperwork associated with the Plant Disease Clinic. Bea also is a part-timer, and is largely responsible for making sure that Charlotte doesn't disappear under paperwork.

By all accounts, this group is getting close to 70 years of combined experience and service to the department. Alumni and Friends of the department can expect to see familiar, friendly faces when they visit!

#### AG PROGRESS DAYS . . . .

The annual College of Agriculture's Ag Progress Days (APD) was held in August of 1983 at the Rock Springs Research Facilities. The department again participated in this event through exhibits and tours of our farm research.

A popular feature of APD has been the "Ask the Specialist" booth. This facet of APD allows visitors to ask questions of various Extension specialists within the College. JOHN PEPLINSKI (Coordinator, Plant Disease Clinic), manned the Plant Pathology section exhibit, along with Extension specialists PATRICIA SANDERS, JAMES TRAVIS, and Professor Emeritus JOHN BOYLE. John Peplinski also prepared a photographic display on "Common Diseases found on Home Grounds" for the College of Agriculture exhibit.

Additionally, bus tours of College farm research programs were offered, and many Plant Pathology projects were viewed, with NANCY WENNER and CHRYSAL HUFF serving as bus tour guides. An overview of this tour follows in the Farm and Greenhouse Section.

#### FARM AND GREENHOUSE . . . .

Visitors to Ag Progress Days and department members alike were impressed by the excellence and diversity of the field research programs. The department staff support people who make these programs possible include BILL BROWN, Greenhouse Supervisor; JERRY STOVER, Farm Supervisor; MIKE PECK, Research Technician; and LARRY JORDAN, Coordinator, Farm and Greenhouse Operations. Their continued contributions of ideas, time and effort help maintain a high quality of research.

Highlights of farm research seen by APD visitors included a look at the flowering crabapple plots established at a test area by LES NICHOLS, Professor Emeritus of Plant Pathology Extension. Evaluation of the trees for resistance to many foliar disease pathogens, especially apple scab, continues, although Mr. Nichols now resides in Rhode Island. Tomato plots established for the study of diseases including anthracnose and early blight were next on the tour. The computer program FAST was under evaluation at that time, and ALAN MACNAB was available to answer questions regarding the FAST program. Drs. MACNAB and STANLEY PENNYPACKER also displayed plots where they conduct studies of weeds as they affect yield of tomato.

Following the tomato plots, the groups observed air pollution research, viewing aluminum-framed and plastic-covered chambers. These chambers are part of a project to study the impact of ozone and sulfur dioxide on potatoes conducted by Drs. EVA PELL and YAW-SHING YANG.

Corn plots, set up by Dr. JOHN AYERS and students as part of a study of disease resistance, followed, and then the group stopped at potato plots where the effectiveness of a new micro-droplet spraying system was being tested to determine an effective, yet safe, system for potato disease control.

An additional air pollution study, conducted by Dr. DONALD D. DAVIS, was farther along the route. Very young black cherry trees seen on this stop represent the first year of a three-year study on the effects of ozone on black cherry. Another air pollution



project, conducted by Dr. Pell and her associates, displayed the department's contribution to acid rain research. Rolling greenhouses have been built to study the impact of acid rain on yield and quality of potatoes; the greenhouses roll out to cover the crop during natural rainfall.

Finally, the group was able to look at Dr. WILLIAM MERRILL'S planting of Christmas trees--Scots pine, Douglas Fir, and a Pitch Pine/Loblolly Pine hybrid, being grown to study susceptibility to various foliar and twig blight diseases, determine mode of infection, and evaluate control measures. Trees will be planted for nine successive years as part of this project.

In addition to research responsibilities, the farm and greenhouse group oversee several other creative activities. The second annual Plant Pathology golf tournament was organized by Bill Brown and Jerry Stover in 1983 (Mark Wach was this year's winner). When the crisp, chill of autumn is in the air, all the department looks forward to the annual October Party. The 1983 party was an enjoyable success, with over 150 people attending. Bill, Jerry, Mike and Larry put on this event each year, and were assisted this year by graduate students CAROL ARNY, JOE OMIELAN, RITA FREEBORN, and LESLIE DELSERONE, who served as M.C. (Just where did she get that picture of Dr. Skelly for the door prize?).

Larry Jordan continued his interest and support of our graduate students by organizing the III Annual Student-Industry Development Day, held in May 1983. Invited speakers included Charles R. Curtis and ROBERT B. CARROLL (PH.D. '71), Department of Plant Sciences, University of Delaware; Cecil M. Childers, Mobay Chemical Corporation; and LYLE B. FORER (M.S. '72), Pennsylvania Department of Agriculture. The speakers presented information on employment opportunities, interview procedures, resume preparation and presentation, and overall expectations of candidates for positions. This is the third year for this program, and the interaction between students, faculty, and industry representatives has been very valuable.

## TEACHING

### PENNSYLVANIA CHRISTMAS TREE PEST CONTROL SHORT COURSE . . . .

The College of Agriculture of The Pennsylvania State University held its first Christmas Tree Pest Control Short Course on March 2-3, 1983. Ninety-eight members of the Pennsylvania Christmas Tree Growers Association attended the two-day course, which featured not only illustrated lectures but also hands-on laboratory study stressing diagnosis of major insect and disease problems affecting production in Pennsylvania.

The teaching cadre consisted of Dr. Larry Kuhns, Assistant Professor of Ornamental Horticulture Extension, who discussed weed control and pesticide

application equipment; Dr. David Shetlar, Assistant Professor of Entomology; Dr. Alan Cameron, Professor of Entomology, who discussed insect and mite pests; and Dr. WILLIAM MERRILL, Professor of Plant Pathology, who discussed diseases. They were assisted in the laboratories by Dr. Barry Towers, Forest Pathologist with the Pennsylvania Department of Environmental Resources; NANCY WENNER, Research Assistant in Plant Pathology; ROBERT LONG, Graduate Assistant in Plant Pathology; and Joseph Boggs and Elizabeth Dobler, Graduate Assistants in Entomology.

In addition to the formal classroom sessions running from 8:30 a.m. to 5:00 p.m. each day, approximately forty growers returned one evening for a two-hour clinic session where the teaching cadre attempted to diagnose the insect and disease problems affecting various specimens the growers had brought with them.

### THE PLANT SCIENCE MAJOR . . . .

An interdisciplinary undergraduate major in PLANT SCIENCE was established in the 1960's by the College of Agriculture. It was to be housed in and administered by the heads of the departments of Agronomy, Horticulture, and Plant Pathology, in rotation. It was housed in Horticulture for two years, but no matter how many students started their careers in Plant Science, within a term all were in Horticulture!

About 1970 the major was transferred to Plant Pathology because we had no competing undergraduate major. Jim Tammen was nominal professor in charge; Bill Merrill and others did the actual advising, etc. About 1972 the major was placed in charge of a Plant Science Academic Policy Committee, composed of W. Merrill from Plant Pathology as chairman, Dale Baker from Agronomy, and John Mastalerz from Horticulture. In 1975 Mastalerz was replaced by Jack Shannon from Horticulture, and two ex officio members were added to the committee: Al Cameron from Entomology and Jim Hillson from Biology. For the past several years, Bill Merrill and Rich Schein have done all advising of the undergraduates. They also co-chair students in the University Scholars Program. Plant Pathology supplies what secretarial services are required.

Plant Science is the smallest undergraduate major in the College of Agriculture - but it is the best! The major is relatively demanding, requiring mathematics through calculus, physics, chemistry, biochemistry, and statistics, plus foundation courses in biology, plant physiology, genetics, soils, microbiology, entomology, and plant pathology. Although it was designed to act as a prep school for graduate work, and although about 50% of the students have gone on to graduate work, it also serves other purposes. These have been to provide individualized programs of study for which traditional majors do not exist, or for which traditional majors are unsuitable, due to lack of breadth and/or depth. Although many members of Agronomy and Horticulture still view Plant Science as a "Plant Pathology major," it definitely is not, as can be readily seen from the types of major



programs the students have developed.

The students have been above average academically, and have been a rather independent and individualistic group. This is necessitated by the fact that they have to design their own courses of study within the major. Many have opted for an emphasis in "Crop Protection"; many have chosen "Genetics-Plant Breeding"; several have developed programs in "Commercial Mushroom Production." Other programs have been very varied. With two exceptions, no two students have ever graduated from the major with the same group of "major courses!"

The following is a list of those students whose whereabouts and activities we know about!

1974

NAGELE, Susan      Received M.S. and Ph.D. degrees in Plant Pathology from Iowa State. Married (Behizadeh), with two small children. Her husband is a computer programmer for a bank in Des Moines.

1975

MILUS, Gene      Received M.S. in Plant Pathology, Washington State working with Rolly Line. Presently completing his Ph.D. at same location. Looking for a position involving epidemiology and plant breeding.

RESSLER, Leon      At last report, had received Master of Divinity and was working as an agricultural and religious missionary in Africa.

1976

STITT, Barbara      Received M.S. from Iowa State. Married (Lucas); her husband is on staff at U. Missouri. Barb currently is working as extension diagnostician in Plant Pathology at U. Missouri.

1977

APPLE, Amy      Since graduation has been plant pathology lab technician with Bill Fry at Cornell.

CHRIST, Barbara      Received M.S. in Plant Pathology at U. Minnesota working with Jim Groth. Currently completing her Ph.D. at U. British Columbia working in population genetics with Clayton Person. Barb will be joining the Penn State faculty as Assistant Professor of Plant Pathology in charge of potato research beginning 1 March 1984 (the former Mills-MacKenzie position).

DAVIS, Alice      Received M.S. in Plant Pathology from PSU working with Ken Hickey. Currently working in research with DuPont.

GATTONE, Greg      At last report, working in commercial mushroom production, Temple, PA.

GRABOWSKI, Greg      Quality control aspects, of commercial mushroom production, Butler County Mushroom Farms, Butler, PA.

SEYBERT, Laura      Received M.S. in Plant Pathology from Washington State. Married (Willett). Currently working as lab technician for Gaylord Mink at Prosser, Washington (fruit virology). Her husband is extension apple specialist for WSU.

1978

BOLGIANO, Nick      Received M.S. in Plant Pathology at Michigan State; currently working with Stan Pennypacker at PSU and contemplating M.S. work in Statistics.

BULY, Robert      Received M.S. in Physiology from PSU; currently completing med school.

GASPARI, James      Manager of a commercial mushroom cannery, Temple, PA.

IMHOFF, Martin      Received M.S. in Plant Pathology from NCSU.

LOUGHNER, Dan      Received M.S. in Plant Pathology from PSU working with Herb Cole; currently with Rohm & Haas agricultural chemical sales.

SCHROEDER, Gary      Received M.S. in Plant Pathology from PSU working with Lee Schisler; currently with commercial mushroom production and research, Phillips Mushroom Farms, Inc., Kennett Square, PA.

1979

BERGER, Karl      At last report was working as staff writer for the Delmarva Farmer.

DUFFY, Lance      Worked for a California vineyard then attended a Horticultural school in Illinois. Currently with the research group at Oglevee Associates, Connellsville, PA.



LEATH, Steve	Received M.S. in Plant Pathology working with Bob Carroll at Delaware; currently working on his Ph.D. with Wayne Petersen at Illinois.	OPFERMAN, Dennis	At last report, an M.S. candidate in Statistics and Computer Science at KSU.
SEBASTIAN, Scott	Received M.S. in Agronomy at PSU; currently completing his Ph.D. in Agronomy-Plant Breeding at Illinois.	PEARSON, Charles	Received M.S. in Plant Pathology at Kansas; now a Ph.D. candidate there. Married Diane Ewaka.
THAL, Wayne	Received M.S. in Plant Pathology working with Lee Campbell at NCSU; currently working on his Ph.D. at the same location.	SULZINSKI, Michael	Ph.D. candidate in Plant Pathology at Cornell, working in virology.
WILMOTT, David	Spent three years in Peace Corps; since then Assistant County Agent in Maryland. Currently contemplating M.S. work in pest management.	TOMER, Kelly	Received M.S. in plant breeding from Delaware.
YURAN, Gene	Received M.S. in Plant Pathology working with Paul Williams at Wisconsin; currently Ph.D. candidate in Horticulture at Wisconsin.	1981	
1980		BITTMAN, Heidi	With International Harvester's biology research group until that folded; currently with Bittman Orchards, Downingtown, PA.
BOWEN, Kira	Received M.S. in Plant Pathology working with Paul Teng at Minnesota; spent about 3 months each at CYMMT and in Taiwan; now a Ph.D. candidate working with Wayne Petersen at Illinois.	BOGERT, Eileen	Peace Corps, Nigeria. If anyone is going out her way, she requests they bring a pizza!
CORRELL, James	Received M.S. in Plant Pathology at Berkeley; now a Ph.D. candidate at the same location.	BRAEN, Susan	M.S. candidate in Natural Resources at Cornell, working on fluoride damage to vegetation around point sources.
EWAKA, Diane	Lab technician for Wayne Eversmeyer at the USDA rust lab at Manhattan, Kansas. Married (Pearson). (See below).	CLINTON, William	At last report, a full-time research assistant in plant pathology at U. Kentucky.
FIX, Nancy	At last report working as a tech-rep for Reading Bone Meal Fertilizer, Reading, PA.	DICKERT, Michael	Technician at the PSU Fruit Research Laboratory, Biglerville, PA.
HOUSER, William	Bill has been working as a full-time research assistant in turf-grass for Pat Sanders here at PSU.	DOLEY, William	Received M.S. in Agronomy, U. Minnesota,
KAMICKER, Theresa	Received M.S. in Plant Pathology, Illinois. At last report working as computer programmer for Pittsburgh Plate Glass in Pittsburgh, PA.	FREDERICK, Reid	Received M.S. in Plant Pathology from Ohio State working in bacterial genetics with Dave Coplin.
McCALL, Kathy	Kathy has been working since graduation as plant pathologist at an Agway seed farm north of Pittsburgh. She has been doing the disease resistance screening for their plant breeder. She is married (Weir).	HAMPTON, Ronald	M.S. candidate in Entomology, PSU.
		HARDY, Mary Ellen	At last report, a lab technician with Supelco, Inc., Bellefonte, PA.
		MELVILLE, Martin	At last report, working for a shade tree maintenance group in southern PA.
		SPECHT, Larry	M.S. candidate in Plant in Plant Pathology at U. Maine working on potatoes.
		1982	
		CONOVER, Joanne	A Ph.D. candidate in Molecular Genetics at University of Bath, England.

GERHOLD, David A Ph.D. candidate in Biochemical Genetics at Michigan State.

GRIM, Sally Finishing her M.S. in Plant Pathology (in absentia) at Illinois, working with Wayne Petersen. Married (Mikel).

PONZO, Donna Developing a nursery-landscape business in southeastern PA.

ROSENBERG, George M.S. candidate in Agronomy at PSU.

SNINSKY, Maria A technician with PA Dept. Agr., Bureau of Plant Industry, in Harrisburg.

1983

SLOVER, Sarah M.S. candidate in Genetics-Plant Breeding at Purdue; working in corn.

STRAUSBERG, Carl M.S. candidate in Plant Pathology at Washington State; working on Fusarium of wheat.

TUCKER, George Research in commercial mushroom production, Butler County Mushroom Farms, Butler, PA.

REPINE, Gordon  
 OLSZEWSKI, Stanley  
 RUEDIGER, Edward  
 SHEPPARD, H.

1978

FRANTZ, Barry  
 LAZZARO, Steve  
 OLOWINSKI, Deborah

1979

SNYDER, Neil

1980

CAMPBELL, Randall  
 KOLWALSKI, Kathrin  
 KRZYWICKI, Joyce  
 SCHMIDT, Peter

1981

JANKAUSKAS, Leonard  
 HALLIDAY, Christopher  
 MORGAN, Cindy

1982

BRODICT, Steve  
 MARSHALL, Elizabeth  
 REISMEIER, Timothy

HELP REQUESTED!

We lack information on the following Plant Science graduates. If you know their present whereabouts, please let us know, or have them contact us:

1975

CHMAY, Peter Last known to be in US Navy  
 MIKOLAJCZYK, F.  
 RAGAN, F.  
 ROOK, Susan

1976

KASSAB, Susan Last known to be M.S. candidate in Genetics-Plant Breeding at Washington State.

TAYLOR, Arlene

1977

FLEMING, Marc Last known to be in US Navy.  
 FULLER, D.  
 GANOE, Kevin  
 HAUSKNECHT, Carl  
 HITES, Jeff  
 LEFEVER, Greg Last known to be USDA commodity grain grader in Texas.

McARDLE, Richard

Last known to be in graduate school at NCSU after receiving an M.S. in Botany from U. Conn.

**APS**

APS PARTICIPATION . . . .

Faculty and graduate students attended three separate APS functions during 1983. As noted earlier, many faculty attended the NED-APS meetings at Quebec in August, along with several of our graduate students. Papers presented at Quebec included:

USE OF AERIAL INFRARED PHOTOGRAPHY TO EVALUATE A DISEASE CONTROL PROGRAM ON GOLF COURSE FAIRWAYS. P. L. Sanders and W. J. Houser.

INCREASED INCIDENCE OF PYTHIUM ROOT ROT IN POINSETTIA ASSOCIATED WITH HIGH FERTILIZATION RATES. G. W. Moorman.

A SIMPLE ALGORITHM TO EVALUATE THE RELATIVE CONTRIBUTION OF PARASITIC FITNESS ATTRIBUTES TO DISEASE INCREASE. M. H. Royer.

WEEDS AS HOSTS FOR COLLETOTRICHUM COCCODES. R. N. Raid and S. P. Pennypacker.

RETENTION OF CHLOROTHALONIL ON TOMATO FRUIT SURFACES. R. J. Freeborn, S. P. Pennypacker, R. O. Mumma.



DESCRIPTION AND QUANTIFICATION OF DENSITY STRESS RESPONSE OF TWO ISOLATES OF ERYSIPHE GRAMINIS F. SP. TRITICI (EGT) ON FOUR WINTER WHEAT CULTIVARS. J. R. Pelletier and R. D. Schein.

OCCURRENCE IN PENNSYLVANIA OF PSEUDOMONAS CORRUGATA-INDUCED STEM NECROSIS ON GREENHOUSE-GROWN TOMATOES. F. L. Lukezic, A. A. MacNab, R. G. Levine, and J. Peplinski.

Although no paper sessions were held at the Diamond Jubilee meeting at Ames, three invited papers were given by faculty in the Department, including two by former Professor David R. MacKenzie. RICHARD R. NELSON presented an invited paper entitled THE USE OF SUB-LETHAL DOSAGES OF SYSTEMIC FUNGICIDES TO EVALUATE HOST GENOTYPES FOR RATE-REDUCING RESISTANCE. In addition, LORRAINE P. BERKETT (Ph.D. '83) prepared a poster entitled EFFICACY OF A STEROL-INHIBITING FUNGICIDE IN RELATION TO TIME OF APPLICATION AGAINST APPLE POWDERY MILDEW with K. HICKEY and H. COLE.

Several Department members continue to be active in the Potomac Division as well, and three papers were presented at the 1983 meetings, held in March at Beltsville, Maryland. These papers included:

NET BLOTCH EPIDEMICS ON WINTER BARLEY IN THE FALL AS INFLUENCED BY PLANTING DATE. L. M. Delserone, J. A. Frank, and H. Cole, Jr.

TEACHING FOREST PATHOLOGY: THE PAST 75 YEARS. W. Merrill.

INFECTIVITY OF SYLVAN SPAWN<sup>R</sup> IN TWO PENNSYLVANIA CONIFER NURSERIES. J. M. Genua, W. Merrill, and L. C. Schisler.

## GRADUATE STUDENTS

### NEW STUDENTS . . . .

Ten bright-eyed and bushy-tailed new graduate students joined the ranks of plant pathology at Penn State in 1983. JIM SPADAFORA arrived in the spring to begin working on his Ph.D. with Drs. Cole and Frank on the epidemiology of Septoria disease of wheat. He received his M.S. at Cornell. CRYSTAL HUFF, who has her B.S. Horticulture from Penn State, is working as a Research Assistant for Dr. Ayers and is pursuing her M.S. in plant pathology on a part-time basis. Her research interest is in the area of breeding corn for disease resistance. MEG TUTTLE, M.S. at the University of Vermont in Botany, will be working on her Ph.D. with Dr. Pennypacker, studying models in epidemiology. JULIAN PEREZ, coming to us from Chapingo, Mexico, with his M.S. in Plant Pathology, is also working with Dr. Pennypacker on epidemiology of tomato diseases. STACEY FISCHER received her B.S. in Horticulture at Clemson University and will be working for her M.S. on epidemiology of tomatoes with Drs. MacNab and

Pennypacker. JOE OMIELAN has the B.Sc. Agr. in Crop Science from Guelph, Canada, and will be working on his M.S. with Dr. Pell doing research on mechanisms of ozone tolerance in potato. KAREN IRELAND, who has her B.S. in Plant Science from Cornell University, will be working on her M.S. with Dr. Leath on a USDA project concerning screening alfalfa for resistance to Vorticillium wilt. DIANE KARASEVICZ received her B.S. in Natural Resource Conservation at the University of Connecticut. She is working as a Research Technologist for Dr. Merrill and is a part-time graduate student. Her research will be in the area of forest degradation following gypsy moth defoliation. NIKI JESCHKE received her B.A. at S.U.N.Y., Binghamton, and is working on her M.S. with Dr. Paul E. Nelson on mycotoxin production by species of Fusarium. Last, but certainly not least, DEBBIE BRETHER received her B.S. in Biology at the University of Pittsburgh, Johnstown, in 1975 and took non-degree graduate courses at Penn State until joining the program as an M.S. candidate in 1983. She is working with Dr. Travis, studying the possible interaction between Cytospora canker of peach and the lesser peach tree borer.

### 1983 GRADS . . . .

The 1983 graduates, having been awarded degrees, have scattered to various corners of the U.S., working and pursuing further degrees. SHERYL HORNA is working for J. B. Swayne Spawn Company as a technical service representative. LAURIE MORELLI moved on to supervise a lab and greenhouse at the Department of Environmental Horticulture in Davis, California. JEAN-ROBERT PELLETIER is working toward his Ph.D. in plant pathology with Dr. Fry at Cornell. MATT ROYER is now conducting research at the USDA Plant Disease Research Lab., Frederick, Maryland, and MARK SPEAR is a research associate at Butler County Mushroom Farm where he runs a mushroom breeding program. SUSAN SIM is a research technician for the Vegetable Pathology Project in the Department of Plant Pathology at Davis, California. CHRIS STOCKWELL is now working as a technician in Dr. Jim Aist's microscopy laboratory in the Department of Plant Pathology at Cornell University. On the side, but probably more than full-time occupation, she is tending her nearly one-year-old son. DAN SMALL, for all anyone seems to know or guess, is probably out somewhere in the world, fishing!

### ACTIVITIES . . . .

Some interesting activities have been stimulated by the arrival of so many new graduate students. Epidemiology Discussion Group was organized by Jim Spadafora for graduate students and faculty to discuss any aspect of research in plant pathology. POET's Club has proven to be a very successful organization and has regularly given graduate students and faculty opportunity for good interaction. The Friday Morning Faculty-Grad Coffee



Hour, where students and professors may indulge in coffee with real milk and cookies have provided pleasant, informal occasion for professional discussions.

Fireside Chats are also new this year. Students meet with one faculty member each month to discuss a topic of mutual interest in a informal setting, such as someone's home or a spot downtown.

The graduate students also designed a PSU Plant Pathology T-Shirt, which was sold last fall; and with the farm group and resident artist GRETCHEN REBARCHAK, a Plant Path hat was designed. Now for the sales pitch! Hats remain - just drop us a note (\$4 - hat) if you'd like one.

On a more serious note, NIKI JESCHKE and MEG TUTTLE, this year's graduate student representatives, express their appreciation to Department Head Skelly for his interest and efforts on behalf of the students - the refurbished office quarters are especially appreciated.

## ALUMNI

### NEWS FROM ALUMNI AND FRIENDS . . . .

As we put this part of the newsletter together, Central Pennsylvania is in the throes of winter with many dark, raw, and just plain miserable days. We do have a few brilliant, crisp, but sparkling moments interspersed, however, and when those highs move in from the west our spirits are restored and we know that the easier days of spring and summer are on the way.

It was good to hear from so many of you and to be made current with your activities. The best thing about retirement is it gets you out of the "fast lane" and allows travel on the "back roads." This permits one to be more perceptive, reflective and sometimes just plain lazy. Professor Emeritus FRED H. LEWIS, who was scientist-in-charge, Fruit Research Laboratory, Biglerville, says it best. "Elizabeth and I are enjoying this period of our lives. Our health is reasonably good, our bills are paid, our three children are doing well, and our six grandchildren are a source of joy. We maintain our home in the fruit area of Pennsylvania where the sights and sounds are familiar, but will spend a month this winter on Marco Island, Florida. I spend a part of my time as a Director of the South Mountain Community and Fair Association which, in one way or another, involves many of the charities in this area. However, that type of work can be very hard on the nervous system. It can be a real shock to encounter instance after instance where emotion, gossip, and partial truths result in firm opinions. Two groups can have a meeting, argue emotionally for two hours, and accomplish nothing because no one accepts any viewpoint that does not coincide with his own. After modest doses of this, fishing and walking become very attractive." Dr. and Mrs. Lewis maintain their residence at 35 Pearl

Street, Arendtsville, PA 17303.

Professor Emeritus LEON R. KNEEBONE (Ph.D. '50), who directed the mushroom research program for approximately 30 years writes, "Whereas I have been retired from PSU for five years, my 'retirement' involves 30 weeks a year consulting with 19 mushroom farms and 6 spawn plants. I enjoy the continuing relationship in the mushroom industry among friends of long standing." Libby and Lee still call State College home base.

CHARLES DORWORTH (M.S. '63), recently returned to Sault Sainte Marie, Ontario from a 15-month sabbatical in Europe to resume his position as Senior Scientist with the Great Lakes Forest Research Centre, Canadian Forestry Service. This Institute is presently undergoing renovation with a \$13 million addition. Dorworth serves as a pathologist, his primary duty being that of assessment and control of Scleroderris canker, the causal organism being Gremmeniella (Ascochyta) abietina. This topic claimed his attention in Europe during 1982-83, with attention directed primarily to separation of different isolates of the pathogen on different host species. In addition, however, it proved possible to travel from Britain to Israel, and from Lapland to Italy, the latter country being where most of the research was conducted (attached to the University of Florence). Dorworth is now engaged to Miss Diana Sims of Sault S. Marie, and a spring marriage is planned.

ALAN BIGGS (M.S. '78, Ph.D. '82), and wife Lise have also moved "north of the border" and Alan reports he enjoys his research which is presently focused on histological aspects of the wound response in bark of stone fruit trees. He has completed his probation period and is now a permanent member of the Canadian Civil Service as a Scientist, Agriculture Canada. While Alan keeps busy with research and grower meetings, Lise is studying for her Master's Degree in Counseling. The bright lights of nearby Toronto provide the setting for periods of entertainment and relaxation.

LESTER LIPSCHITZ (M.S. '65), is finding excitement in his position as Food Research Scientist for DNA Plant Technology Corporation, where he is now working in product research and development. They hope to test market their first products in the fall of 1984. Wife Myra teaches part time and is completing her M.S. in Reading; son Neil, now 15, is making plans to attend PSU in two years; 11-year-old son Mark is rapidly transforming into a teenager with that boundless energy which gives moms and dads big headaches.

RODNEY VARGO (M.S. '76), another dweller of the northland, St. Paul-Minneapolis, and wife Karen welcomed their first child, Eric Christopher, October 9, 1983. Rod writes, "He is a big, healthy and happy baby--Thank God!" Our congratulations to the Vargos.

BARRY R. KISTLER (M.S. '77), now resides with his wife and children, Paul 5 and Becky 2, in Mohrsville, PA and is employed by the U.S. Postal Service



BARRY L. NOLT (M.S. '78, Ph.D. '81), completed a post-doctoral position at ICRISAT in India December, 1983. In January, 1984, he began a two-year assignment as a virologist with CITA located in Cali, Colombia where he will be working on diseases of cassava. (Barry will be joining Jairo Castano also at CITA.)

ANGEL MAINER (M.S. '76), is working for the Spanish Government at Centro Regional de Investigaciones Agrarias, located in Madrid.

JAIRO CASTANO (Ph.D. '81), Centro International de Agricultura (CITA) reports a busy year working on the rice program. He has now moved into a position in the bean program and notes that the only difference between two crops is their scientific name since both are affected by many pathological problems, which limit efforts to get stable varieties and increases in yield. Jairo observes that in the tropics "pathogenic variation" is so high that resistance in varieties lasts an average of about 24 months in commercial fields. Jairo also reports Bad News for the coffee drinkers since coffee rust was found in Colombia last September. He predicts the tragic consequences of the disease will be suffered in three to five years.

FIELDS COBB (Ph.D. '63), sends word from Berkeley, California and The Bay Area, recounting some interesting and busy times and expressing pleasure at seeing so many Penn Staters at the Ames meetings. Fields also said that former California colleague Samuel H. Smith had apparently forgotten to send him a #1 lapel pin (which is no longer needed), but a Parker pen, belonging to Tavie and on loan, would be welcomed home. Fields and wife Tavie had a memorable trip to International Congress in Australia, the I.U.F.R.O. Root and Butt Rot meeting and then stop-overs in Fiji, New Zealand, Cook Islands and Tahiti. The visit with Lew and Bobbie Shain in New Zealand was much too brief. With youngest son Steve now graduated from high school, the Cobb's are hoping to be more mobile.

ROBERT C. SEEM (M.S. '72, Ph.D. '76), is now back at the New York Agricultural Experiment Station, Geneva after spending a six-month sabbatical in Australia with wife Carolyn, daughter Jessica, and small son Peter, working on grape downy mildew at a small research station along the Murray River. Bob also worked on prune rust with Phil Kable, who had a sabbatical at Penn State in 1976, now at the Biological and Chemical Research Institute-Sydney. That being a Penn Stater is something special was reported by Bob thus: "One interesting incident concerned some special equipment I carried to Australia for Phil. It cost \$3,500 and the idea (in very simplified form) was for the government of New South Wales to send me money with which to purchase the equipment. Admittedly, this is a highly unusual procedure and one of the highest-level officials refused to release the money ('what if Seem never showed up?'). However, PSU came to the rescue. As it turned out, this official was a Penn State animal science grad way back when and upon Phil's mention of our common academic ontogeny, the check was issued forthwith; character status confirmed!"

ROBERT B. CARROLL (Ph.D. '71), in our neighbor state Delaware participated in the annual Graduate Student-Industry Day at Penn State June 1 and 2. Reciprocity took the form of a visit by Don Davis and his plant disease clinic class on June 26 and 27 when they visited commercial vegetable production throughout Delmarva--courtesy Host Bob Carroll. Band and soccer are activities which occupy Carroll time. Daughter Tiffany (16) toured Europe in July with the high school band, son Brent (9th grade) made the Elkton High Junior Varsity Soccer Team, and little brother Brad played soccer and any other sport that required a player. It's often on the road for Bob and Ruthalee. In addition the Carrolls and Hamlens have been able to renew the friendship of grad school days, since Ron joined the duPont Company near Wilmington, with several shared holidays and 'cook-outs.'

JAMES F. KNAUSS (M.S. '63) (Ph.D. Cornell) who spent approximately 15 years in Florida working primarily with diseases of ornamental plants has joined the W. R. Grace Co. as technical manager of their "Peters Fertilizer Products," Fogelsville, PA. While Jim reports he is sometimes involved with specific plant disease problems, his responsibilities are now more in the areas of general plant culture, growing media and soluble fertilizers. His marriage of four years has made him the proud father of a 23-month-old girl and a 7-month-old boy, Penn Staters both we hope.

DONALD H. SMITH (M.S. '62, Ph.D. '66), reports a recent three-week trip to Senegal, West Africa on a CRSP (AID) mission relevant to peanut diseases, and the Senegalese beef gave him an added reason for liking Texas. A trip to Australia during the month of March, 1984 is scheduled as a member of a six-party Rotary International Group Study Exchange. (Seems I remember Phil Kable telling about roast kangaroo. Perhaps next newsletter Don can tell up how Senegal beef compares to the Australian variety.) Be apprised, all you who wish to know more about peanut diseases, a compendium edited by Porter, Smith and Rodriguez-Kabana should be published by APS soon. Oldest daughter Donna graduated from North Texas State University June, 1983; daughter Debbie is a senior and son Scot a freshman at the University of Texas, with majors in advertising and business finance, respectively. It would seem Houston or Dallas-Fort Worth will claim them as their own. Wife Bobbie is still working at the Huth Memorial Hospital and Don states, "I continue to work for peanuts." (With three children in or just out of college either the peanuts are BIG or there's lots of them--Editor's note.)

JAMES W. DEMSKI (Ph.D. '66), reports the past year to be the busiest of his professional career. An AID grant to work on virus diseases of peanuts required two trips to Africa and an inordinant amount of time to coordinate the research activities of two U.S., two African, one Indian, one Scottish, and two German workers. Dr. D. V. R. Reddy, ICRISAT, spent the summer working with Jim in his laboratory, Experiment, GA. Thousands of peanut tissue samples were processed using the ELISA



serological technique to see if a recently introduced virus (in seed from The Peoples Republic of China) which Jim had earlier identified as "Peanut Stripe Virus" had spread throughout the peanut growing areas. In an effort to contain and eliminate the virus before it becomes endemic in the U.S., Jim is coordinating the work of plant breeders and pathologists in all peanut producing states. The virus program will be assisted by a post-doctoral fellow, a visiting scholar from the P.R.C., a Taiwanese, and a Brazilian graduate student. Wife Marilyn continues to teach, daughter Brenda maintains an interest in flying and is majoring in airpor management and administration at Embry Riddle Aeronautical University, Daytona Beach, and daughter Barbara presented Jim and Marilyn with their first grandchild--a girl.

DAVID R. MACKENZIE (M.S. '67, Ph.D. '70), until recently Professor of Plant Pathology at PSU, writes from that sunbelt state of Louisiana to inform us the MacKenzie family is settled in Baton Rouge and like the climate, culture, and work. Wife Dodie has been appointed Assistant Professor of Experimental Statistics and Criminal Justice, sons Scott and Todd have transplanted to public schools where they have made new friends, are doing well both academically and in sports. Daughter Wendy elected to continue at Penn State and is a local contact for weather, the football team, and many "northbound" friends. "The fishing and hunting in Louisiana lives up to its reputation. I only wish I had more time to enjoy it." (Coming from one who always did all right in PA it must be real good.) Dave is now Professor and Head, Department of Plant Pathology and Crop Physiology, Louisiana State University.

RICHARD F. STOFFER, formerly Professor of Plant Pathology at the Fruit Research Laboratory, Biglerville, now Professor and Head, Department of Plant Pathology, Coastal Plain Station, Tifton, GA, reports 1983 to have been an exciting and challenging year, in spite of the usual frustrations and pitfalls inherent in an administrative position. Dick admits tht he and Emilie miss the verdant hillsides and orchards of Adams County but not the snow and cold of "up North." (Liking what you're doing helps to make acceptable any place you might find yourself.) Being on I-75 to Florida means the Stouffers should see some "Damn Yankees" on occasion.

W. J. STAMBAUGH (Ph.D. '57), sends warm regards from Duke University, Durham, where the winds of change require five structured MF-MEM degree programs of which Forest Productivity was his chair assignment. Implementation in the fall 1983 meant almost total revamping of courses, and the teaching of Forest Pest Management (integrated of course) for the first time filled the past year with laborious committee work. (Sound familiar?) Bill and Shirley enjoy "grandparenting" with Erin (2 1/2) and Amy (8 months) in Kentucky and Travis (3) in Durham. "Guess who gets spoiled?" Bill queries.

P. A. SHINDE (Ph.D '72), since March 1981 has been Head of the Department of Plant Pathology and Agricultural Microbiology, Mahatma Phule Agril.

University, Rahuri, India. In addition to his administrative duties, Dr. Shinde teaches post-graduate courses in techniques, plant bacteriology, microbial technology, and plant disease epidemiology. He reports he often meets with Drs. P. L. PATIL (M.S. '71) and P. G. MOGHE (Ph.D. '74) who are also Penn Staters. His daughter has completed her B.Sc. (Home Science) Degree and was married to a civil engineer in 1981. His elder son has completed a B.Sc. (Agriculture) Degree and has started his "Plant Nursery" at Dr. Shinde's native place, Satara. His younger son is studying in XI Standard and is at home with dreams of becoming an engineer.

The newsletter committee wants you all to know that we enjoy hearing from you. Your letters are welcome visits and we hope when you write us you are also reminded of happy moments at PSU and the environs of Happy Valley, USA. Thanks for taking time to 'think back' and also keep in touch. May 1984 bring you much happiness so that if a little unhappiness does come your way, you're still way ahead.

#### OBITUARY

Dr. ALAN H. BAUER, retired Associate Professor of Plant Pathology, died on November 12, 1983. Dr. Bauer was a member of the department from 1935 to 1970, with extension responsibilities in disease problems of fruit and vegetable crops and greenhouse flowers, and then later with disease problems of agronomic crops. Dr. Bauer was a pioneer in the development of the fungicide spray service for Commonwealth fruit and vegetable growers. Dr. Bauer is survived by his wife, Letha, who resides in State College.

#### Our Thanks to

Peg Blair  
John Boyle  
Niki Jeschke  
Larry Jordan  
William Merrill  
Becky Peplinski

for their contributions to this year's edition of the Newsletter.



## ROSTER

<u>Name</u>	<u>Degree</u>	<u>Advisor</u>	<u>Research Interest</u>
Arny, Carol	M.S.	E. J. Pell	Stress ethylene production in response to acid rain
Bair, Wendy	M.S.	J. E. Ayers	Corn pathology
Barclay, Gerald	M.S.	L. C. Schisler	Thinning compounds for <u>Agaricus bisporus</u>
Berkett, Lorraine P.	Ph.D.	K. D. Hickey & H. Cole	Integrated pest management
Breth, Deborah	M.S.	J. W. Travis	Cytospora canker/lesser peach tree borer on peaches
Delserone, Leslie	M.S.	J. A. Frank	Small grains
Diehle, Douglas	M.S.	D. J. Royse	Mushroom research
Fischer, Stacey	M.S.	S. P. Pennypacker	Forecasting early blight of tomatoes
Freeborn, Rita	M.S.	S. P. Pennypacker	Vegetables - extension/epidemiology
Huff, Crystal A.	M.S.	J. E. Ayers	Corn breeding for disease resistance
Ireland, Karen	M.S.	K. T. Leath	Verticillium wilt of alfalfa
Jeschke, Nike	M.S.	P. E. Nelson	Fungal plant pathogens, phyto bacteriology
Karasevicz, Diane	M.S.	W. Merrill	Forest pathology and the control aspect of disease, particularly biological control
Koons, Karen	M.S.	C. P. Romaine	Viruses associated with LaFrance disease of the cultivated mushroom
Lalancette, Norman	Ph.D.	K. D. Hickey & S. P. Pennypacker	Epidemiology/disease management of tree fruits
Long, Robert	Ph.D.	D. D. Davis	Acid rain effects on forest productivity
Omielan, Joe	M.S.	E. J. Pell	Mechanism(s) of ozone tolerance in potato
Perez, Julian M.	Ph.D.	S. P. Pennypacker	Epidemiology, plant disease forecasting
Raid, Richard	M.S.	S. P. Pennypacker	Epidemiology
Sigulas, Kristen	M.S.	R. R. Nelson	Horizontal disease resistance
Spadafora, V. James	Ph.D.	H. Cole & J. A. Frank	Epidemiology and control of Septoria diseases of wheat
Sriskantha, A.	Ph.D.	C. P. Romaine	Polymerase activity associated with dsRNA viruses in mushroom; cloning the ssRNA of Bacilliform virus
Tuttle, Margaret	Ph.D.	S. P. Pennypacker	Epidemiology
Wach, Mark	Ph.D.	C. P. Romaine	Double stranded RNA viruses
Wenner, Nancy	M.S.	W. Merrill	Christmas tree diseases

