

# BLIZZARD WATCH

## Crop and Weed Sciences Department Newsletter

December 1993

### Dear friends of NDSU Crop and Weed Sciences:

This has been a year of many changes in administration at NDSU and I will only summarize the happenings without attempting to provide reasons for them. Dr. Pietsch, Director of Extension, resigned May 31 and took a job as Executive Vice-President of Farm Bureau. He was replaced, for a one year period, by Mr. Robert Christman, former head of the North Dakota ASCS. Dr. Ozburn announced in June that he would resign on June 30, 1995. In August, Dr. Ozburn convened a task force whose objective was to suggest ways to make Agriculture more responsive to its constituents. The task force suggested, among other things, that we should have a Vice-president for Agriculture, that we should separate the Dean of Agriculture and Director of the Experiment Station positions, and that extension specialists in the various academic departments should be merged with teaching and research. Dr. Lund offered to resign as Dean and Director, effective June 30, 1994, and Dr. Ozburn accepted.

Subsequently, Dr. Brendan Donnelly, Director of the Northern Crops Institute, was named Vice-president for Agriculture and University Outreach for a period ending June 30, 1995, and Dr. Lowell Satterlee, Associate Dean and Director under Dr. Lund, was named Dean of Agriculture and Associate Director of both the Experiment Station and Extension for a three year period. Dr. Lund will continue as Director of the AES until June 30, 1994, at which time he is scheduled to return to CWS. In August, Dr. Don Anderson announced that he would retire as Associate Dean and Director on December 31, 1993. There are no plans to replace him.

Because of the several changes in structure within agriculture, Dr. Donnelly appointed a task force of

Extension and AES employees (on and off campus) to define the role of the various administrators in helping all other staff accomplish their objectives. The task force has met once and hopes to provide its recommendations by early February. Integration of extension, research, and teaching at the department level is to be completed by June 30, 1994. We have a committee in CWS working on integration, but our plans will hinge on recommendations of the task force.

We learned on December 15 that Horticulture and Forestry will merge with CWS, effective January, 1994. The merger results largely from a severe cutback in appropriated funds from the legislature, and several faculty positions in H&F, and in most other departments, have been frozen for an indefinite period. One of these positions was that of the chair of H&F, and Dr. Statler of Plant Pathology has served as interim chair since January 1, 1993. Details of the merger have not been worked out, but the merger with Horticulture and integration of Extension will result in a total faculty size of about 35 in CWS.

On July 28, I announced that I would take advantage of the early retirement program of the University, effective December 31, 1993. Dorothy and I have been contemplating retirement for some time, and the turmoil in administration makes us very sure that we made the correct decision. I have been employed by NDSU for 35.5 years, working on barley for the first 29.

My work at NDSU has been very enjoyable and satisfying and I have had the privilege of working with many outstanding faculty, staff, and students. The department hosted a retirement



Happy  
New  
Year!



dinner for us on December 21, we went to lunch with the technicians/research specialists on the 15th, the graduate students had a coffee/tea on the 23rd, and I was a guest of the secretaries for lunch on the 30th. Dorothy and I are truly appreciative to the many people who have honored us at these and other occasions and also with cards, letters, and gifts. Our plans for 1994 include some travel and more time at our lake cottage. I have received some inquiries about consulting but have no definite plans.

Dr. Al Schreiner was elected by the faculty to serve as interim chair, and will serve until a permanent chair is selected, probably in late 1995.

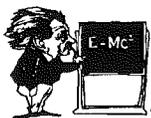


We are fortunate to have had no other faculty resignations during 1993, but we did gain three support people. Eric Grafstrom came to work on the USDA weed grant project with Dr. Morton, Jeff Prischmann came to work in Dr. McClean's laboratory after Yuzhi Zheng left in December 1992, and Janet Fleeker replaced Marilyn Geiszler in our clerical group. Dr. Maan has changed from a full-time to a half-time appointment. This allows him more flexibility for other activities.

Dr. Ahrens and family returned in September following developmental leave at the University of Harbin in northeast China. Dr. Ahrens hopes to have one of his coworkers in China join him here next summer as a graduate student.

Dr. Frank Manthey rejoined CWS in July as a postdoctoral/research associate on a USDA special grant and is working with Drs. Nalewaja and Messersmith, primarily in the area of adjuvants.

We have completed three semesters under the new system and I don't believe many professors in CWS or in agriculture believe it was a positive move.



We recently learned that at least one major chemical company now hires all their summer interns from either Minnesota or Ohio State, where they still operate under the quarter system. We are learning a lot about student assessment, as part of the requirements of a North Central Accreditation that is coming up in two or three years. We also hear frequently about internationalization and cultural diversity, and we have University committees working in these areas.

Crop and Weed Sciences graduated 7 Ph.D. and 14 M.S. students in the 1993 commencement. Those receiving the Ph.D. were Burton Johnson, Nasserlehaq Nsarellah, William Panaram, Young-Doo Park, Dagou Seka, Debra Steiger, and Chengguo Wang. Those receiving M.S. degrees were Dain Bruns, Lonny Buss, Gregory Endres, Darin Gibson, Christopher Goblirsch, Victor Francisco Gonzalez, Michael Hagen, San San Hla, Armando Luna V., Mohammad Rahim, Roberto Reid, Ronald Saylor, Anthony Thilmony, and Abu Yarmah.



We had 54 full and part-time active graduate students in the fall of 1993, of which 17 are international students representing 13 different countries. Because of the shortage of state appropriated funds, we have not been

able to recruit any new students in this category. We don't know when this situation will improve. New students since last year are listed below (U.S. citizens unless a foreign country is added): Gail Bresnahan, Dain Bruns, Chad Effertz, Jeremy Frie, Kamal Hamed (Egypt), Brian Kuehl, Michael Lince, and Mauro Zamora-Diaz (Mexico).

When I was discussing with a former "weeds" graduate student the negative effect that lack of state funding was having on our graduate program, he suggested that I use this letter to solicit former students to establish a GRA scholarship.

He issued a challenge that former weeds graduate students could raise the \$10,000 needed for a GRA before all of the other former students could.

I agreed to pass along this challenge and arrange for a fund at the NDSU Development Foundation. Now, the rest is up to you former graduates if this is to succeed. Dr. Schneiter can pass along the "scores" in next year's newsletter.

We now have tables and chairs in the foyer of Loftsgard Hall, purchased with money donated by graduating seniors. It enhances the area considerably, and the furniture is used by many students.

The Statistics Department was moved into Waldron Hall where Soil Survey and Extension Soils had their offices. Soils had to move into Walster and CWS lost some teaching rooms. The University, with monetary help from Sandoz (Galen Schroeder), has finished the basement of Loftsgard Hall which will be used for self study for several CWS and Horticulture classes.

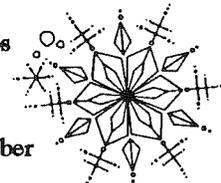
Graduate students receiving scholarships in 1993 for outstanding achievement are (name of scholarship in parentheses): Craig Rystedt (John H. Longwell, Jr.), William Wilson (Devin Miller Memorial Scholarship), Paul Isakson (Gus Geiszler Memorial Scholarship), Tracey Henderson (Eric Matthew Miller Memorial Scholarship), Hector Roman (Smith Fellowship for Foreign Graduate

Students), and Jim Harbour (Cyanamid Graduate Student Scholarship).

Tracey Henderson received the 1993 Gerald O. Mott Meritorious Graduate Student Award from the Crop Science Society of America. She also was appointed a Congressional Science Fellow for 1993-94, working out of Sen. Daschle's (S.Dak.) office in Washington, D.C.

Zenon Woznica, Tadeusz Praczyk, and Grazyna Podolska returned to Poland after working here as visiting scientists. Current visiting scientists are Edward Szelezniak and Robert Matysiak (Poland) working with Dr. Nalewaja, Wenkai Liu and Shi-Yun Xia (China) working with Dr. Horsley and Dr. Elias, resp., and Mark Rivkin (Russia) working with Dr. McClean.

The twelfth annual Crops and Soils Blizzard Party was held November 9, 1993, in Cincinnati



during the ASA meetings. About 90 current and former faculty and graduate students enjoyed the opportunity to renew acquaintances. Dr. Jim Lofgren, now with Pioneer, supplied sunflower seeds to go along with the veggie and cheese trays. Eight of our faculty and 3 graduate students attended the meeting and presented posters or papers.

The WSSA annual meetings were in Denver in February. We interviewed for a postdoc position and 4 of our faculty attended and presented papers. The 1993 NCWSS meetings were in Kansas City in December. 10 of our faculty and 10 graduate students attended, presenting posters and papers. There were at least 35 former students present. Chemical company reps from ND, SD, and MN hosted the grad students and faculty at a dinner.

Mr. Ben Hoag, superintendent at the Minot Research Center, died suddenly following heart related surgery in August. Anthony Thilmony was named acting superintendent. A new superintendent with joint research and extension duties is expected to be named soon.

Dr. Jerry Bergman, Ph.D. 1972 and currently the station superintendent at Sydney, MT, will assume the superintendent's duties at Williston, also. This will be a 50-50 split. Another professional will be hired at Williston to maintain and possibly expand the research activities.

Several of our faculty received recognition for their accomplishments this year, including:

Dr. Frohberg received the NDSU 1993 Economic Development Award in recognition of the impact that 14 varieties of wheat have had on the state's economy.

Dr. Messersmith received the Burlington Northern Foundation Faculty Achievement Award for 1993. He also was honored as a Preferred Professor by Mortar Board. He is one of two nominees for president of the Weed Science Society of America.

Dr. Nalewaja received the Outstanding Research Award at the Weed Science Society of America annual meetings in Denver in February.

Dr. Lym was promoted to full professor.

Dr. Grafton shared with Michigan State, USDA, and Puerto Rico in the joint development and release of many dry bean germplasm lines. He is an associate editor of Crop Science and is on the Crop Advisory Committee for Phaseolus.

Dr. Jan released seven rust resistant and four downy mildew resistant lines of sunflower.

Dr. Dexter was elected 2nd vice-president of the NCWSSA. This results in a four year commitment before stepping down as past president. He continues on the CAST Board of Directors as WSSA representative.

Dr. Jim Helm was awarded the Excellence in Extension Award for 1993 by both the N.D. Grain Growers and National Association of Wheat Growers for outstanding extension programs of benefit to the U.S. Wheat Industry. He also received the Honorary State FFA Degree by student members of the ND FFA Association.

Dr. Elias is coordinator of the durum wheat regional nursery.

Dr. Horsley is a member of the National Barley Improvement Committee.

Dr. Hammond is an Associate Editor for statistics for the Agronomy Journal.

Dr. Meyer completed his term as a Technical Editor of Crop Science.

Dr. Franckowiak is on the Crop Advisory Committee for barley, is a member of the Organizing Committee for the International Barley Genetics Symposium, and is Editor of the Barley Genetics Newsletter.

Dr. McMullen is a member of the Executive Committee of the National Oat Workers Conference, Technical Director of the American Oat Association, and Editor of the Oat Newsletter.

Dr. Schneiter is an Associate Editor of Crop Science and a member of the sunflower Variety Review Board of AOSCA. He is editor for the revision of the ASA Sunflower Monograph and is writing one of the chapters.

Kathy Christianson, research specialist working with Dr. Lym, received the 1993 Professional Staff Award for her work with leafy spurge.

Gerald Johnson, research technician working with Dr. Anderson, received the 1993 Support Staff Award for Excellence in recognition of his work on the winter wheat project.

Dr. Carter continues as President of the Flax Institute and plans are nearly finalized for the 55th meeting of the Institute to be held in Fargo in late January, 1994.

The Bison athletic teams won several honors. Men's and women's track teams were conference champions for the indoor and outdoor track events. The women's basketball team was conference co-champion and they went on to win the Division II national championship. The men's wrestling team was conference champion and they were 3rd in Division II. The football team did not make the playoffs, partly because the quarterback suffered a season ending injury during the second game.

Dr. Meyer and Roger Genoch played on a championship intramural basketball team.

The annual fall picnic was September 1 in Oak Grove park. Dr. Cross was able to come up with corn in spite of very adverse weather conditions. The Christmas party will be on January 8, 1994, at Season's at Rose Creek restaurant. The "Norm Williams Open" golf classic was held September 18 on the Frazee golf course. Big money winners were Whited, Seiler, Wozniak, and Berglund. This is the second year in a row that Whited has been on the winning team?? Whited also won the "prestigious" "sportsmanship" award and he has it prominently displayed in his office.

Please let us know of address changes for yourself or others, or if there is incorrect information. If you are traveling in the area, we encourage you to stop by, however short it might be. We hope you had a happy Holiday Season, and best wishes for 1994!

Sincere thanks to Eileen Buringrud for design, layout, proofing, and other details needed to prepare this letter.

A. E. Foster

## Merry Christmas from "Jack's Corner"

I am pleased to send you a short message as it is not feasible for me or my wife to write each of you individually. First, thank you for the Holiday messages that came from you to the department or to us personally—we appreciate very much and wish to "keep track"—please tell us more about yourself and your families.

I've survived 6 1/2 years of retirement successfully, I believe. I've been more active and less chair-bound, and been involved enough in agronomic things not to go "brain-dead," I hope. My wife says that I'm not doing a lot differently than in past but we start more slowly in the morning and I'm working many fewer hours, going to a fraction of "meetings" of past, and more or less doing the "agronomic things" as I please. I taught Grain Grading in the semester system for the first time at NDSU and I've spoken to

a few wheat and barley Trade Teams, and to a few commodity groups, mainly about wheat and barley grading, and to a few service clubs about flax-as-food.

Also, I continue to be involved in "action" on flaxseed and flax-seed oil as possibly beneficial to human nutrition and health because of the high fiber and linolenic acid content (omega 3) that will have some interesting and valuable developments in the future. People in some of your countries maybe have consumed flax for hundreds of years, or should if you have not, for the omega 3 and fiber benefits. I'm President of the Flax Institute which has a 2-day program January 27-28, 1994, at Fargo.

I got funding for and am supervising two projects feeding flax to laying hens at Univ. of Nebraska and Texas A. and M., producing eggs 6-8 times higher in polyunsaturated fatty acids than generic eggs—the eggs are now being fed to people. This research will be reported at the Flax Institute. Also, I wrote and published a review article entitled "Potential of Flaxseed and Flaxseed Oil in Baked Goods and Other Products in Human Nutrition" for Cereal Foods World, October, 1993, issue, and an article "Flaxseed is High in Potassium for Human Nutrition" in Fall, 1993, issue of Better Crops with Plant Food.

Also, flax is high in lignans and soluble fiber and is one of five plant products being studied in very large experiments by the National Cancer Institute and Food & Drug Admin. for the next several years. I am Director Lund's appointee to the North Dakota Oilseed Council also.

Mostly at home I have been doing some maintenance, helping an older neighbor, gardening, fishing, hunting, grafted 11 apple trees for Bidder's Bowl and special individuals, and attended Bidders Bowl in October.

Imogene, Imy to some of you, continues to work with several clubs, church women groups, has retired playing the organ full time from church, the usual household duties from which women never retire, I guess, and many other activities. Her father died in July at nearly 101 years old. Her mother died December 13, 1991, at 97 years. Imogene would like to travel more to some other

countries and maybe we will get going on that soon. Probably we will travel to Baton Rouge, LA, in February and Vienna, Austria, where our daughter is, in May or June. We saw some of you at ASA Blizzard Party in Cincinnati in November 1993.

Our family is much as described in 1992, only one year older. We have had several visits from some of them this year. Some of you know our daughter Nancy. Her husband is the State Department liaison to United Nations in Vienna, Austria, and she teaches English as second language. They have added German to their list of foreign language competence. Their oldest son attends Virginia Poly, Blacksburg (Bob Harrison's location) and stays with us during "breaks".

In retrospect, many of you have influenced our work and lives favorably, and we yours, we hope. We hope to see you at the next Blizzard Party, ASA, in Seattle. Stop to see us as you may pass this way and best wishes for a HAPPY AND HEALTHFUL 1994.

Dr. and Mrs. Carter



## CROP AND WEED SCIENCES FACULTY

A. E. Foster, Professor and Chairman

W. H. Ahrens, Assoc. Professor, Weed Science

J. A. Anderson, Asst. Professor, Wheat Germplasm Enhancement/ Winter Wheat Breeding

D. R. Berglund, Professor, Extension, Row Crops and Specialty Crops

L. G. Campbell, Adjunct Professor, Research Geneticist, Sugarbeets (USDA)

J. F. Carter, Professor Emeritus, Retired, Flax Promotion

H. Z. Cross, Professor, Corn Breeding

L. S. Dahleen, Adjunct Professor, Barley Biotechnology (USDA)

E. L. Deckard, Professor, Crop Physiology

A. G. Dexter, Professor, Extension, Weed Science, Sugarbeets

D. L. Doney, Adjunct Professor, Research Geneticist, Sugarbeets (USDA)

M. E. Duysen, Professor, Crop Physiology

D. C. Ebeltoft, Professor Emeritus, Retired

E. M. Elias, Asst. Professor, Durum Wheat Breeding

J. D. Franckowiak, Professor, Barley Breeding

R. C. Frohberg, Professor, Wheat Breeding

D. S. Galitz, Professor, Crop Physiology

J. C. Gardner, Adjunct Professor, Crop Physiology

K. F. Grafton, Assoc. Professor, Dry Bean Breeding

J. J. Hammond, Professor, Flax Breeding

J. J. Hanzel, Adjunct Professor, Sunflower and Crambe Breeding

J. L. Helm, Assoc. Prof., Extension, Cereal Crops and Forages

T. C. Helms, Asst. Professor, Soybean Breeding

R. D. Horsley, Asst. Prof., Barley Breeding, Genetics

C. C. Jan, Adjunct Professor, Sunflower Cytogenetics (USDA)

P. P. Jauhar, Adjunct Professor, Wheat Cytogenetics

L. R. Joppa, Adjunct Professor, Res. Geneticist, Durum Genetics (USDA)

H. R. Lund, Professor, Director, Experiment Station

R. G. Lym, Professor, Weed Science

S. S. Maan, Professor, Wheat Cytogenetics

P. E. McClean, Assoc. Professor, Molecular Genetics, Dry Bean

M. S. McMullen, Assoc. Professor, Oat Breeding

C. G. Messersmith, Professor, Weed Science

D. W. Meyer, Professor, Forage Crops

J. F. Miller, Adjunct Professor, Res. Geneticist, Flax & Sunflower Breeding (USDA)

J. D. Nalewaja, Professor, Weed Science

A. A. Schneider, Professor, Specialty Crops

G. J. Seiler, Adjunct Professor, Sunflower and Sugarbeet Germplasm (USDA)

R. H. Shimabukuro, Adjunct Professor, Plant Physiologist (USDA)

G. A. Smith, Adjunct Professor, Sugarbeet Genetics (USDA)

G. S. Smith, Professor Emeritus, Retired

L. A. Spilde, Assoc. Professor, Seedstocks

D. A. Whited, Professor, Genetics Teaching

N. D. Williams, Adjunct Professor, Research Geneticist (USDA)

R. K. Zollinger, Asst. Professor, Extension, Weed Control

### RESEARCH ASSOCIATES

F. A. Manthey, Weed Science

C. A. Morton, Weed Science

C. R. Riede, Wheat Breeding

Yin-ming Li, Cadmium Research

### GRADUATE RESEARCH FELLOWS

Christopher Goblirsch, Barley Breeding

### SECRETARIES

Eileen Buringrud, Admin. Ass't. I

Joann Kolnes, Account Tech. II

Elaine Dobrinz, Admin. Sec. II

AmyJo Johnson, Inf. Proc. Oper. I

Iris Bachand, Word Proc. Oper. I

Sharon Ahrens, Adm. Sec. III

Janet Fleeker, Admin. Sec. I

### TECHNICIANS/RES. SPECIALISTS

Robert Baumann, oat breeding

David Birdsall, durum wheat genetics, USDA

Kay Carlson, wheat cytogenetics

Katheryn Christianson, perennial weeds

Mark Ciernia, weed control

Steven Ellefson, barley breeding

James Faller, HRS wheat breeding

Roger Genoch, barley breeding

Erick Grafstrom, weed control

Mark Halvorson, soybean breeding

Justin Hegstad, wheat germplasm enhancement

Jeffrey Huckle, HRS wheat breeding

Burton Johnson, crop production

Gerald Johnson, HRW wheat breeding

James Kapaun, leafy spurge control

Daryl Klindworth, wheat genetics, USDA

Lyle Lindberg, flax breeding

John Luecke, sugarbeet weed control

Josef Maianu, seedstocks

Mitch Montgomery, sunflower/crambe breeding

Wayne Norby, forage crop production

Don Pingree, seedstocks

Jeff Prischmann, biotechnology

Kris Prodoehl, sugarbeet breeding, USDA

Dale Rehder, sunflower breeding, USDA

Ronald Roach, weed control

Marilyn Schroeder, crop physiology

Stan Stancyk, durum breeding

Janet Stromberg, weed science

Jody VanderWal, dry bean breeding

Duane Wanner, corn breeding

Theja Wijetunga, crop physiology

### GRADUATE STUDENTS IN CROP AND WEED SCIENCES, NDSU-FALL, 1993

#### FULL-TIME STUDENTS

Bresnahan, Gail	GRA
Bruns, Dain	GRA
Chicaiza, Oswaldo	CIMMYT Ecuador
Effertz, Chad	Hoechst-Roussel
El-Antri, Mohammad	MIAC Morocco
Ewing, Jonathan	GRA
Faris, Justin	GRA
Fitterer, Scott	GRA
Frie, Jeremy	GRA
Garcia, Gioconda	GRA Ecuador
Goblirsch, Christopher	GRF
Gonzalez, Victor	CIMMYT Colombia
Hamed, Kamal	Self Egypt
Harbour, James	GRA
Isakson, Paul	GRA
Kandel, Hans	GRA Netherlands
Ke, Shanqiang	PRC