



L. D. Loftsgard
Crop and Weed
Sciences Building

BLIZZARD WATCH

Crop and Weed Sciences Department Newsletter

GREETINGS, 1991

Dear friends of NDSU Crop and Weed Sciences:



We started moving into the office areas of our new building, Loftsgard Hall, in late February. Dorothy and I, assisted by the secretaries, held an open house on March 7 for CWS staff, grad students, and their families. The laboratory areas were not completed until May. Dedication of the building was on May 24, 1991, coinciding with graduation. About 250 people attended the dedication, including many members of the Loftsgard family and dignitaries. The ceremony was held in the

atrium and the clerical staff served the reception. Several of the faculty helped out with building tours. Many plants were donated for the dedication and they continue to beautify the building. We share the building with Horticulture and Forestry. As with most new buildings, there have been some glitches and some gremlin-like problems, but on the whole we are pleased with the building. The physical plant cabinet shop built new desks for our clerical group. The women worked on the design with Don Hanson from the Directors office. Several of the faculty also had customized office furniture built. Dr. Hammond and Lyle Lindberg installed all of the cables connecting the secretaries computers to printers. We plan to start

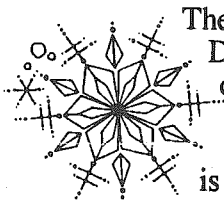
"networking" and Dr. Hammond is organizing that effort.

The building has several conference rooms and they are being furnished primarily by contributions from companies. Most of the tables and chairs have been ordered and should be arriving soon.

Our library was moved to the former CWS chair office, and the secretarial offices have been turned into a classroom. The library and adjacent graduate student office in Walster have been turned into one room for interactive teleconferences and classes. There have been several other reallocations of space in both Waldron and Walster.

A service center building was completed west of Waldron. This building has shop facilities for all of the Experiment Station and also a room for pilot scale studies related to product development. Our mechanic, Marvin Mayer, and shop equipment from Waldron have been transferred to that building.

Another building, now called IACC for Industrial Agriculture and Communications Center, is under construction north of Hultz Hall and connected to it via a 30 foot long overhead walkway. Completion of this building is tentatively set for fall of 1992. The computer center will occupy the bottom two floors (four in total).



The Fargo Dome, being constructed north of the football field, is targeted for completion in

late 1992. The roof was built at ground level and was jacked into position on December 20-21. They did some time-lapse photography showing the "raising of the roof." After the roof is completed they will heat the area so work can continue during the rest of the winter. It will have some heating bill! A building manager has been hired and he has scheduled several events for 1993.

Fortunately, we had no faculty changes this past year, but Dr. Cox plans to leave about March 1, 1992. He and his wife Carrie, and children Jesse and Elise will be going to Kenya where they will be part of a missionary team for "Missions: Moving Mountains."

The last legislature did not provide funding to hire a replacement for Dr. Cantrell in the wheat germplasm enhancement project. With Dr. Cox leaving, we are recruiting for a person to lead the combined wheat germplasm enhancement/winter wheat programs. Greatest emphasis will be placed on germplasm enhancement at this time and we hope that both positions can be funded in the future. We plan to start interviewing in January.

Dr. Yin-ming Li was hired as a postdoc to do cadmium research on sunflower. Dr. Li spends most of his time in Beltsville in Dr. Rufus Chaney's lab but collected soil and plant samples in ND in August and September.

We also are recruiting for two postdoctoral/research assistant positions. One person will work with Dr. Froberg and have major responsibility for evaluation of the Pioneer germplasm. The other person will work on the biology and ecology of Russian thistle and kochia. The latter position is funded by a USDA special grant developed by Drs. Nalewaja and Messersmith and is set up for a four year period.

We had no changes in our clerical group this year. We managed to upgrade all but one of the clerical computers to the 386 level, and that one should arrive shortly.

Among the technicians, Todd Steffes replaced Don Lippert on Dr. Meyer's forage grant project. Carl Madsen retired after working on the HRSW project for 21 years, and we have hired Jeffrey Huckle as his replacement. Carl and Wayne

Norby were honored at the Quarter Century Club banquet for their 25 years of service to NDSU. Cheryl Mihelich resigned from the perennial weeds grant project and she will be replaced by Jim Kapaun. Gary Mowery, working on the sunflower bird resistance project, plans to resign about December 31 and we will be searching for a replacement. Gary was called up in the ND National Guard because of the Iraq war. Two of our research specialists, Kristi Breiland and Kathy Christianson, expanded the CWS family by delivering Ashley Ann and Jessica Anne, respectively. Joan Gordon spent several months in Washington, DC, where her husband Mark was the Program Manager for Computational Chemistry for the National Science Foundation. They now are in Japan for several months.



Veterinary Science and Microbiology have been combined into one department and Dr. Herb Smith is the chairman. Dr. Ted Schulz, chair of Entomology, will take early retirement on June 30, 1992.

Crop and Weed Sciences graduated 4 Ph.D and 9 M.S. students in the 1991 commencement. Those receiving Ph.D.s were Madduma Dhanapala, Aslam Khan, Phillip Miklas, and Thomas Peters. Those receiving M.S. degrees were Dennis Dolan, Sayed Wajid Hussain, John Kennicker, Aynur Kural, Gene Leach, Kent McKay, David Pazdernik, Sami Suzer, and Ahmet Tan.

We had 65 graduate students in the fall of 1991. We have 24 international students representing 16 different countries. We have openings for additional students and are recruiting actively for replacements. New students since last year are listed below (U.S. citizens unless a foreign country is added): Dain Bruns, Mike Christoffers, Paul Isakson, Curtis Lee, Rudy Radke, Roberto Reid (Argentina), Craig Rystedt, Jodi Tate, Mark Wiese, and Mauro Zamora-Diaz (Mexico). Graduate students receiving scholarships for outstanding achievement are (name of scholarship in parentheses): William Wilson (\$350-John H. Longwell, Jr. Scholarship), Darin Gibson (\$200-Devin Miller Memorial Scholarship), Lisa Verwest (\$300-Gus Geiszler Memorial Scholarship), Tracey Henderson (\$1000-Eric Matthew Miller Memorial Scholarship), and Chris Lambrides (\$500-Smith Fellowship for Foreign Graduate Students).

Visiting scientists who have returned to Poland after being here for at least one year are Maciej Czajka, Zikmund Turski, and Alecia Pecio. Weislaw Koziaro is the only Polish scientist presently in our department, but we expect more after the new year.

The tenth annual Crops and Soils Blizzard Party was held October 29 in Denver at the ASA meetings with over 100 people attending. Dr. and Mrs. Carter were honored at the party in recognition of their 50th wedding anniversary which was on October 19. Dr. Jim Lofgren again supplied sunflower seeds, via Dahlgren,

that supplemented the hors d'oeuvres. We hope you can attend the 11th Blizzard Party, scheduled for November 3 in Minneapolis. Nine of our faculty and six graduate students attended the ASA meetings and presented papers or posters.

For the first time, I attended the NC Weed Science Society meetings in Indianapolis, along with six of our faculty and eight graduate students. They presented 9 papers or posters. One of our graduate students, Steve Roehl, won first prize in one section of the paper contest. There were some former faculty and many of our former graduate students at the meetings. We interviewed several potential candidates for the weed postdoctoral position.

North Dakota hosted the North Central regional meetings of the American Society of Agronomy August 4-6. Soils and CWS cooperated in all of the planning activities, which were coordinated by Drs. Berglund, Dahnke, and Grafton. The program was targeted to attract practicing agronomists because very few professional agronomists have attended recent meetings. We were somewhat successful, with most



of the out-of-state registrants coming from Minnesota or South Dakota. An excellent spouses

program was coordinated by Beva Dahnke, Brenda Deckard, and Donna Hammond.

Mr. Tom Conlon, long-time agronomist/superintendent at the Dickinson Research Center, retired on July 1. Tom and his wife Bergie moved to Fargo and have a house on the

south side. I am on the search committee for a new agronomist and the committee is in the process of interviewing three candidates (Ph.D. level). We are making use of interactive TV for committee meetings and seminars by the candidates. A search will begin next year for a new superintendent, also at the Ph.D. level, who will have a three-way split appointment, research, extension, and teaching at Dickinson State.

We are in the process of converting from quarters to semesters, with date of implementation to be in the fall of 1992. Our department curriculum committee, chaired by Dr. Meyer, the College of Ag. curriculum committee, chaired last year by Dr. Meyer and now by Dr. Deckard, and the University Academic Affairs Committee, chaired by Dr. Deckard, have been extremely busy in hammering out all of the details needed for the conversion.

Several of our faculty received recognition for their accomplishments this year (Hopefully, I won't leave someone out. By nature, CWS faculty are averse to advertising their accomplishments):

Dr. Nalewaja received an Honorary Doctorate Degree from the University of Poznan in Poland. He and Donna went to Poland where he received the award and visited with many former exchange scientists. Dr. Nalewaja also went to Russia as leader of a group assessing research and crop production in Western Siberia, and to establish communication between NDSU and research units in that region. He traveled to South Africa in September where he reviewed

weed control research on small grains and corn.

Dr. Maan received a distinguished service award from Kansas State University at their May graduation ceremonies. He also presented an invited paper at an International Wheat Cytogenetics Symposium in Japan. He had heart by-pass surgery in February but is now back to normal activities.

Dr. Whited was recognized for exceptional teaching performance in the College of Agriculture. This is the first year of the award, worth \$1000.

Dr. Bill Ahrens was granted tenure and promoted to associate professor.

Dr. Phil McClean was granted tenure and promoted to associate professor.

Dr. Schneider will be an Associate Editor of Crop Science beginning January 1 and is a member of the sunflower Variety Review Board of AOSCA. Dr. Schneider was instrumental in placing our Plot 30 (flax wilt nursery for over 90 years) and Plot 2 (continuous wheat for 100 years) on the National Register of Historic places.

Dr. Grafton is an Associate Editor of Agronomy Journal and is on the Crop Advisory Committee of Phaseolus. He released a new navy bean variety, Norstar.

Dr. Meyer is a Technical Editor of Crop Science for divisions C3 through C6.

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

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

Dr. Horsley was elected to the National Barley Improvement Committee. He also married Becky Stenseng on a hot day in August.

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

Dr. Carter is President of Flax Institute and is planning the meeting for the 54th Institute, scheduled for January 30-31, 1992.

Dr. Cross released two early maturing inbred lines of corn.

The Bison athletic teams won several honors. The football team won the conference championship but lost in the first Division II playoff game. The women's basketball team won the national championship in Division II. The women's volleyball team took 3rd place in the national championship for Division II.

The annual fall sweet corn picnic was held at Oak Grove park on September 4. Dr. Cross and helpers were able to find good ears in spite of the advanced season. The Social Committee has scheduled a midwinter party in conjunction with Valentine's Day at the

Knights of Columbus Hall. The "Norm Williams Open" golf classic was held August 30 on the Frazee golf course. The foursome of Cross, Messersmith, Ebeltoft, and Doug Whited won the "best ball" tournament.



Please let us know of any address changes so that we can continue to correspond with you. Each year we get letters back with envelopes marked "Return to Sender." We would appreciate your helping us out with any of the missing or incorrect addresses. In case you may not remember, our phone number is (701) 237-7971 and our FAX number is (701) 237-7973. Please stop by to visit and tour our facilities whenever you can. We hope you had a happy Holiday Season and best wishes for a HAPPY 1992.

I want to acknowledge the valuable assistance of Eileen Buringrud in preparing this letter.

A. E. Foster

Think Spring!



"Jack's Corner"

I'm 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" and learn about you and your families.

I've survived 4 1/2 years of retirement successfully, I believe, lost 10 pounds being 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 Spring Quarter and I've spoken to several wheat and barley Trade Teams, mainly about wheat and barley grading, and to a few commodity groups.

Also, I've been involved in "action" on flax seed and flax oil as possibly beneficial to human nutrition and health because of the high linolenic acid content (omega 3) that will have some interesting and valuable developments in the future. I'm President of the Flax Institute which had a one day program on "flax as food" January 25, 1990, and will again January 30, 1992. 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 which is dealing with research on flax as food. Obtaining GRAS (Generally Recognized as Safe) status for flax seed and flax oil for human consumption is one of Council's first activities. 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.

Mostly at home I have been doing some long neglected upkeep on windows, refinishing, etc., gardening, fishing, hunting, grafted 12 apple trees for Bidder's Bowl and special individuals, and attended Bidders Bowl in October. We had our 50th wedding anniversary this year. We celebrated 4 days at Fair Hills Resort with all our family and our brother in August although the actual date is October 19. We have enjoyed it all, and still do. Many of you have influenced our work and lives favorably, and we yours, we hope.

Imogene, Imy to some of you, continues to work with several clubs, church women groups, retired playing the organ full time at church, the usual household duties from which women never retire, I guess, and many other activities. She also spends time with her father, now 99 in Bethany, a retirement home in Fargo. Her mother died December 13, 1991. Imogene would like to travel more to some other countries and maybe we will get going on that soon. We did travel in 1991 to visit Brian and family in Baton Rouge, Steve in Nebraska, twice to Colorado to wedding and Carter reunion, and to Lincoln, Nebraska to my 50th College reunion. Also, we saw some of you at ASA in Denver.

Our family is much as described in 1990, 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 in State Department and they are now in Washington, D.C., but going to Vienna, Austria next. They now speak six languages which is useful to Nancy in teaching English as Second Language near Alexandria, VA. Many of immigrant children do not know English and are illiterate in their own language so they are a teaching challenge, Nancy says.

We hope to see you at the next Blizzard Party, ASA, in Minneapolis. Stop to see us as you may pass this way and best wishes for a HAPPY and HEALTHFUL 1992.

How about those BISON Women? DIVISION II BASKETBALL CHAMPS for 1991!!

Dr. and Mrs. Carter

A. E. Foster, Professor and Chairman

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

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

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

J. F. Carter, Professor Emeritus, Retired

D. J. Cox, Assoc. Professor, HRW Wheat Breeding

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 Breeding

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

T. C. Helms, Ass't. Professor, Soybean Breeding

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

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

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

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

R. G. Lym, Assoc. Professor, Weed Science

S. S. Maan, Professor, Wheat Cytogenetics

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

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. Schneiter, 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

GRADUATE RESEARCH FELLOWS

Debra Steiger, Durum Breeding

Kevin Thorsness, Weed Control

SECRETARIES

Eileen Buringrud, Admin. Ass't. I

Joann Kolnes, Account Technician I

Elaine Dobrinz, Admin. Sec. II

Amy Jo Johnson, Inf. Proc. Oper. I

Iris Bachand, Word Proc. Oper. I

Sharon Ahrens, Adm. Sec. I

Marilyn Geiszler, Admin. Sec. I (75%)

Robert Baumann, oat breeding

David Birdsall, durum wheat genetics, USDA

Kristi Breiland, germplasm enhancement

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

Joan Gordon, wheat cytogenetics

Mark Halvorson, soybean breeding

Jeffrey Huckle, HRS wheat breeding

Burton Johnson, crop production

Gerald Johnson, HRW wheat breeding

James Kapaun, forage crop production

Daryl Klindworth, wheat genetics, USDA

Lyle Lindberg, flax breeding

John Luecke, sugarbeet weed control

Josef Maianu, seedstocks

Garry Mowery, sunflower breeding, bird resistance

Wayne Norby, forage crop production

Paul Otto, crop physiology

Kris Prodoehl, sugarbeet breeding, USDA

Dale Rehder, sunflower breeding, USDA

Ronald Roach, weed control

Marilyn Schroeder, crop physiology

Stan Stancyk, durum breeding

Jody VanderWal, dry bean breeding

Duane Wanner, corn breeding

Yuzhi Zeng, biotechnology

**CROP & WEED SCIENCES MAJORS
FALL, 1991**

Arneson, Jerry	Self	
Axton, Lisa	Self	
Berti, Marisol	GRA	Chile
Birdsall, David	Self	
Bruns, Dain	GRA	
Buss, Lonny	GRA	
Busse, Steven R.	Self	
CASTILLO, JULIO	Self	Panama
Christianson, Kathy	Self	
Christoffers, Mike	GRA	
El-Antri, Mohammad	MIAC	Morocco
Endres, Greg	Self	
Gibson, Darin	GRA	Canada
Goblirsch, Christopher	GRA	
Gonzalez, Jose	GRA	Chile
Gonzalez, Victor	CIMMYT	Colombia
Hagen, Michael	GRA	
Halvorson, Mark	Self	
HEMENWAY, JEFF	Self	
Henderson, Tracey	GRA	
Holen, Carlyle	Self	
HOUGHTON, ROBERT	Self	
Isakson, Paul	GRA	
Johnson, Burton	Self	
Johnson, Grant	GRA	
Kang, Tae-Jin	Self	Korea
Kirsch, Michael	Self	
Klindworth, Daryl	Self	
Lambrides, Chris	GRA	Australia
Lee, Curtis	Self	
Luna, Armando	GRA	Mexico
Martens, Roy	GRA	
Masud, Amir	Self	Pakistan
Miller, Bradley	Self	
Mohammad, Rahim	TIFAN	Pakistan
Nasarellah, Nasser	MIAC	Morocco
Obeidat, Motassem	USAID	Jordan
Olmedo, Belgin	GRA	Turkey
Olmedo, Oscar	GRA	Mexico
Panaram, William	LASPAU	Guyana
Park, Young-Doo	GRA	Korea
Quresh, Zar	TIPAN	Pakistan
Radke, Rudy	Self	
Reid, Roberto	ICI	Argentina
Rystedt, Craig	GRA	
REYNOLDS, DEAN	Self	
Roehl, Steve	GRA	
Rugroden, Daniel	Self	
Sayler, Ronald	GRA	
Seka, Dagou	GRA	Ivory Coast
Steiger, Debra	GRF	
Stordahl, James	GRF	
SWENSON, JOHN	Self	
Tallman, Wayne	GRA	
Tate, Jodi	GRA	
Thorsness, Kevin	GRF	
Verwest, Lisa	Self	
Weston, Dale	GRA	
Wang, Chengguo	GRA	PRC
Wiese, Mark	Self	
Wilson, William	GRA	
Yarmah, Abu	AFGRAD	Sierra Leone
Zamora-Diaz, Mauro	INIFAP	Mexico
Zheng, Yuzhi	Self	
Xu, Shujun	GRA	PRC