



BLIZZARD WATCH



Crop and Weed Sciences Department Newsletter

Christmas, 1989

Dear friends of NDSU
Crop and Weed Sciences:

Those of you in warmer climates may be interested to know that it is -19 degrees F here this morning (12-14). However, the temperature does not diminish the warm feelings that we here at NDSU have for you.

This has been a year of ups and downs for the state and University. The initial outlook by the legislature was rather bleak, but they came though with fairly good raises for everyone. The raises and many other things were to be financed by increasing three separate tax areas, sales, income, and gas. The taxes and five other measures were referred to a vote of the people, held December 5, and all eight measures were soundly defeated. Two years of back-to-back drought and a dry fall certainly influenced the outcome. The results made national news so you may already have heard about it. The major effect on the Experiment Station will be a hold on filling over 20 scientist positions. No present employees in the Station will be terminated nor will salaries be decreased. A raise authorized by the legislature



for next July 1
is in doubt.

We were fortunate in Crop and Weed Sciences to be able to fill a new position in wheat germplasm enhancement. Dr. Roy Cantrell, who has been our durum breeder since 1981, moved into that position. We have hired Dr. Elias Elias, a 1987 NDSU graduate, to fill the durum position. Dr. Elias will join us about April 1, 1990. He has been employed by CIMMYT in their corn program located near Mexico City since he graduated.

Dr. Murray Duysen and Dr. Don Galitz now have split appointments (60:40 and 40:60, resp.) between Crop and Weed Sciences and Botany. Their teaching appointments are in Botany and research appointments in C&WS. Dr. Duysen returned in July from a sabbatical leave in Germany where he had been working on biotechnological techniques.

Dr. Darrell Cox and family are spending nearly a year at Egerton University in Kenya. They left in mid August and plan to return about August 1, 1990. Darrell is involved in teaching and some wheat research. He has reported some frustrations in getting things done, but on the

whole is finding it a positive experience.

The extension agronomist position, which was vacant since Dr. Bill Ball retired in 1986, has been filled by Dr. Duane Berglund. Dr. Berglund had been in that position for several years before he went to Extension Administration. We are happy to have Dr. Berglund back with us. Duane's wife Pat completed her Ph.D. in 1989 in CS&FT and is an Asst. Prof. in Food and Nutrition.

Dr. Dallas Peterson resigned as extension agronomist for weed control to go to a similar position in Kansas. Dallas and Mrs. Peterson both are natives of Kansas and that is where Dallas got his Ph.D. We are actively recruiting to fill that position before the hectic spring season.

Dr. Garry Smith, Dr. Gerald Seiler, and Dr. John Gardner have been confirmed as adjunct professors of C&WS. Dr. Smith is Research Leader for the USDA-ARS Oilseeds Group located in the new Northern Crop Science Laboratory. Dr. Seiler is a member of the Oilseeds and Sugarbeet units in the NCSL and works on germplasm enhancement in those crops. Dr. Gardner is the Superintendent of the Carrington Research and Extension Center. Dr. Lynn

Dahleen recently joined the Cereals Unit as barley biotechnologist in the NCSL and we are initiating a request to appoint her as an adjunct professor. She is a graduate of the Univ. of MN.

We have had one change in our clerical group. Marilyn Geiszler has replaced Cheryl Silcox in the part-time extension position. Marilyn will work full time during the academic year and have summers off.

Among the technicians, Jim Liedahl (durum and formerly hybrid wheat) retired after nearly 20 years of dedicated work. We wish him the best in retirement. We presently are advertising for a replacement. David Ouse (seedstocks) resigned to take a position with Dow Chemical in California and he was replaced by Josef Maianu. Paul Otto was hired to work with Dr. Duysen. Jeffrey Prischmann (forages) resigned to take a position in Cereal Science and Food Technology and we currently are seeking a replacement to work on this grant supported project. Cheryl Mihelich was hired to work with Dr. Lym on a perennial weed grant project. Kim Evenson (biotech) resigned to return to school at the University of Minnesota. We also are currently seeking a person to fill that position with Dr. McClean. Joan Gordon (wheat cytogenetics) is on a one-year leave of absence to go with her husband to Washington, DC, where he is working with the NSF competitive grants program for one year.

Some of you will remember Dr. George Pratt, chair of Agricultural Engineering. Dr.



Pratt retired June 30 and Mr. Les Backer is serving as interim chair. Dr. Don Scott, chair of Agricultural Economics, died after playing raquetball. He was only 46 years old. Dr. David Cobia is serving as interim chair. Dr. Glen Statler was chosen as chair of Plant Pathology to replace Dr. Kiesling. Veterinary Science and Microbiology are being combined and Dr. Smith, chair of Vet. Sci., will head up the combined departments.

Crop and Weed Sciences graduated 6 Ph.D. and 8 M.S. students in the 1989 commencement. Those receiving Ph.D.'s were Allen Faue, Mohammed Khan, Warren Larson, Pat McMullan, Marco Nevado, and Randy Simonson. Those receiving M.S. degrees were Mark Bredehoeft, Dave Feist, Carlos Feoli, Terry Friend, Oscar Olmedo, Dave Ouse, Orval Swenson, and Hector Roman. 1988 M.S. graduate Belgin Cukadar and Oscar Olmedo plan to be married December 22nd. Our best wishes to them.

Crop and Weed Sciences had 62 graduate students in the fall of 1989. We have graduated 2 since 1989 commencement. We are maintaining a good balance of native and foreign students. We have 20 foreign students representing 14 different countries. We have openings for students in all areas, so if you know of

good prospects for graduate work, please let us know so that we can contact them. New students since last year are listed below (U.S. citizens unless a foreign country is added): Lonny Buss, Darin Gibson Jose Gonzalez (Chile), Victor Gonzalez (Colombia), Trent Jarvi, Tae-Jin Kang (Korea), Kent McKay, Bradley Miller, Dave Pazdernik, Steve Roehl, Ronald Saylor, Wayne Tallman, and Dale Weston.

NDSU declined in student numbers in 1989 (9432) after a record enrollment (9534) in 1988. The College of Agriculture and C&WS also declined in numbers of undergraduate students. We are initiating some scholarships for entering freshman to try and help our situation.

We had several reviews this year. The first was a CSRS review in February. Dr. Parochetti, USDA from Washington, DC, was the team leader and other members were Dr. Burnside (Minn.), Dr. Taylor (Mont.), and Dr. Moss (Oreg.). The review highlighted our strong and weak points. Areas of deficiency could mostly be addressed by more money. The salary increase helped in one area, but we still need additional equipment, more greenhouse and growth chamber space, more good research plot land, more scientists and support personnel in weed science, forages, and crop production, and increased graduate stipends. We will be addressing the last item in the next few months.

The second review was that of our graduate program. The review committee met with me recently and it seems they were very pleased with the report that our faculty and staff prepared. The last review is on our undergraduate program. That report is nearly complete. All of these reviews have been 200 plus pages and took cooperation from all of our faculty and clerical staff but especially from Dr. Hammond and Eileen Buringrud.

The eighth annual Blizzard Party was held October 17 in Las Vegas at the ASA meetings with about 75 people attending. Nine states and four foreign countries were represented. Several other former NDSU'ers were at the meetings but were not able to get to the party. Plan now to attend next year's Blizzard Party, scheduled for October 23rd in San Antonio.



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

Dr. Messersmith continues as the first Editor of the Journal of Weed Technology. He will complete his term in February and is looking forward to transferring the responsibility to someone else (he hopes they can find someone). He received the WSSA Outstanding Teacher Award at the annual society meetings.

Dr. Carter was selected to receive the 1990 Blue Key

Distinguished Educator award. The award will be presented at a dinner in January. He was appointed by Dr. Lund to serve on the newly established ND Oilseeds Council as a representative for flax. He still is President of the Flax Institute and has developed a fine program for the next Institute to be held Jan. 25-26, 1990, in Fargo.

Dr. Dexter completed in December an eight year "term" as Editor of the NC Research Report on weeds. He received the WSSA Outstanding Extension Award at the annual society meetings, and he and Dr. Al Cattanaich shared one of the Burlington Northern Foundation Faculty Achievement Awards.

Dr. Nalewaja completed his term as the NCWCC representative to the Council of Agricultural Science and Technology.

Dr. Schneider is an Associate Editor of Agronomy Journal and is on the ASA Agronomic Service Award Committee. He was also appointed to the sunflower Variety Review Board of AOSCA.

Dr. Grafton has been appointed as an Associate Editor of Agronomy Journal and is on the Crop Advisory Committee for Phaseolus.

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

Dr. Hammond is Associate Editor for statistics for Crop Science.

Dr. Franckowiak is on the Crop Advisory Committee for barley and is on the International Organizing Committee for the Int. Barley Genetics Symposium.

Dr. Cantrell is Vice-chair of the wheat Crop Advisory Committee, he is the coordinator for the Regional Durum Variety Trials, he is on the wheat Variety Registration Committee, and he was selected to be Associate Editor for Crop Science Divisions C1 and C7.

Dr. Cross is chair of the ASA subcommittee on Variety Registration for maize. He also released several corn inbreds.

Dr. Foster is chair of the ASA subcommittee on Variety Registration for barley and is a member of the selection committee for the Crop Science Research Award. He received the Alpha Zeta Outstanding Agriculturist award.

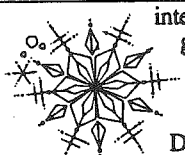
Dr. McMullen is a member of the Exec. Committee of the National Oat Workers Conference, Technical Director of the American Oat Association, and Editor of the Oat Newsletter.

Dr. Frohberg released two wheat varieties, Grandin and Gus.

Dr. Spilde was granted tenure and Dr. Cox was promoted to Associate Prof.

Dr. Smith has been appointed to the ASA-CSSA Fellow Selection Committee.

Dr. Seiler released 34



interspecific
germplasm
lines of
sunflower.

Dr.

Campbell

released a registered a
sugarbeet line with improved
storage rot resistance.

Elected Fellows at the ASA
meetings were Garry Smith,
Armand Bauer (USDA-ARS
soils, Mandan), Al Black
(USDA-ARS, Mandan),
Robert Busch (now wheat
breeder, USDA, at MN),
and John Foss (former chair
of Soils, now at TN).

Our Guest Lecturer
committee has arranged to
have Dr. Colin Law present
the Lucken Memorial
Lecture on October 18. Dr.
Law will be on campus
October 15 to 19 and two
other lectures are planned.

We are watching with a great
deal of interest the progress
on our new Crop and Weed
Sciences building. It will
also house the Horticulture
and Forestry department. It
will be attached to Walster
Hall via a 20 foot walkway
through what is now Dr.
Nalewaja's office. It also
will be attached to Waldron
Hall with a skyway. The AR
parking lot has been
transferred to a spot
northwest of Waldron Hall
so we now have a longer
walk and it is no fun in this
cold weather. Eventually, a
north entrance will be made
through the present shop in
Waldron so we can walk
indoors. We have two
winters to get through first.
The people on the south side
of Walster have sidewalk
superintendent spots to watch

the progress and they
frequently have visitors who
want to check on the
activity. The building will
have an office "tower" with
five floors, and a lab section
of three floors extending
nearly to Shepard Arena.
Groundbreaking for this and
two other buildings was on
August 17. Senator Burdick
took part in the ceremonies
because he was instrumental
in getting the legislation
passed which provided the
needed funds. The
contractors have worked
nearly every day, up until
yesterday when it got very
cold. Foundations are
essentially complete and they
have put up quite a bit of
steel framework and have
positioned some of the
prestressed concrete for the
first floor of the lab section.
Target date for completion is
June 1, 1991.

Work is progressing too on a
durum mill and a feed mill.
The durum mill is being
attached to the west side of
Cereal Science and Food
Technology. The feed mill
is going up near the Animal
Science barns on 19th Ave.
These buildings are being
built one-half from federal
funds and one-half from
contributions from
individuals and
organizations.

I mentioned in last year's
letter that a large
multi-purpose building was
being planned for the area
north of the Bison Sports
Arena. The parking lot for
the building will encroach
into our plot land and we
will lose about 10 acres.
The building can
accommodate football
games, concerts, sportshows,

ag. shows, etc. They hope
to have at least 100 events
each year. Groundbreaking
should be in 1990 unless
legal challenges stop it.

Bison athletic teams had
another good year. The
football team tied for second
and was selected as one of 16
teams for Division II
playoffs. They won their
first game but lost the second
to the eventual runnerup.
The womens volleyball team
took third place in the
Division II playoffs. The
wrestling team won the
conference and took third in
Division II. The track team
was second in the conference
for indoor and first in the
conference outdoor. The
women's basketball team
won the conference title for
the third straight year and
was second in the region 2
playoffs.

The state is celebrating its
100th anniversary this year
and there have been several
special events. The
University will be
celebrating their 100th
anniversary next April 23 to
27 with a Founders Week
program. The Agricultural
Experiment Station
anniversary will be observed
on September 7 and 8.
There will be special
speakers, displays, and open
houses.

President Ozbun was
officially installed on Sept.
14 as part of the Centennial
celebration. There was an
impressive installation
ceremony in the Bison
Sports Arena, followed by a
march down University
Drive (with Professors in
full academic garb) where
Campus Ave. was renamed

Centennial Boulevard. We all walked west on Centennial Dr. to Service Drive which was renamed Bolley Drive in honor of our first Professor of Botany. A time capsule was "planted" in the newly landscaped mall east of the new addition to the Union.

The annual fall picnic was held at Oak Grove Park on September 5. Dr. Cross and his crew again provided an ample supply of good corn, and this in another drought year. Because of so many conflicts with other December events, we will delay our Christmas party to January 12. The Union game room has been reserved for a night of bowling, pool, etc. for faculty, staff, and graduate students. Dr. Whited promises that the famous Bison Chip Award will still be presented. The "Norm Williams Open" golf tournament was held September 1 and Dr. Ahrens beat out Dr. Dexter in the puttoff of the seven flight winners.

We have been receiving cards and letters from some of you already, which we truly appreciate. If possible, include family photos so that we can see how you have changed since you left. You are welcome to stop by to visit when you are in the area. We hope you have a happy Holiday Season and a prosperous New Year.

A. E. Foster



Merry Christmas from "Jack's Corner".....

I'm pleased to send you a short message as it is impossible 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 2 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. I'm on two Founders Day Committees for the NDSU centennial which peaks April 23-27, 1990, Dr. Borlaug will be one of the speakers. The Founders Week will be full of action and some of you may wish to attend. I've prepared a centennial exhibit on History of Wheat in North Dakota for the North Dakota State Wheat

Commission which has involved some interesting reading and library research, and has shown a need to place much of this information in one manuscript which I hope to write soon. 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 may have some interesting and valuable developments in the future. I'm President of the Flax Institute which has a half day program on "flax as food" January 25, 1990. Also, flax is high in lignans and soluble fiber and is one of five plant products to be studied in very large experiments by the National Cancer Institute for the next 5 years. NDSU may submit a proposal to participate in the research to develop healthful "designer foods."

Mostly at home I have been doing some long neglected upkeep on windows, refinishing, etc., grafted apple trees for Bidder's Bowl and special individuals, and watering the yard during one of Fargo's driest summers.

Imogene, Imy to some of you, continues to work with several clubs, church women groups, playing the organ at church, the usual household duties from which women never retire, I guess, and many other activities. She also spends some time with her parents, now 97 and 96 years old, in Bethany, a retirement home in Fargo. She would like to travel more to some other countries and maybe we will get going on that soon. We did travel

in 1989 to visit Brian and family in Baton Rouge, and a week or so with an old friend and NDSU professor, Jesse Parsons, whom some of you know, in Florida. Also, we saw some of you at ASA in Las Vegas after which we visited California. We should be in the south now as it is COLD in North Dakota, even for December.

Our family is much as described in 1988, only one year older. We have had several visits from some of them this year. You will recall from last year that our grandson Andrew stayed with us a year and went to high school while his parents finished a hitch in Ghana in the State Department. They have now returned to the United States for several years we hope. Andy's mother is our daughter Nancy whom many of you older students will remember well. She and her husband now speak six languages so she is effective in teaching English as a Second Language which she has done this last several years and now does in a school near Mount Vernon, VA--all her students are recent immigrants to the U.S. or their children.

We will hope to see you at the next Blizzard Party, ASA. Stop to see us as you may pass this way and best wishes for a MERRY CHRISTMAS and a HAPPY and HEALTHFUL YEAR ahead.

Dr. and Mrs. Carter



FACULTY

A. E. Foster, Professor and Chairman

W. H. Ahrens, Ass't.
Professor, Weed Science

R. E. Barker, Adjunct
Professor, Forage Crop
Genetics (USDA, Mandan)

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

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

R. G. Cantrell, Ass't.
Professor, Durum Wheat
Breeding

J. F. Carter, Professor
Emeritus, Retired

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

H. Z. Cross, Professor,
Corn Breeding

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,
Sugarbeet Genetics

D. C. Ebeltoft, Professor
Emeritus, Retired

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, Ass't.
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, Ass't.
Professor, Weed Science

S. S. Maan, Professor,
Wheat Cytogenetics

P. E. McClean, Ass't.
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)

RESEARCH SCIENTIST

Frank Manthey, Weed
Science

GRADUATE RESEARCH FELLOWS

Tom Peters, Weed Control

Debra Steiger, Durum
Breeding

SECRETARIES

Eileen Buringrud, Admin,
Ass't. I

Mardell Krebsbach, 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 (50%)

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

Joan Gordon, wheat
cytogenetics

Mark Halvorson, soybean
breeding

Burton Johnson, crop
production

Gerald Johnson, HRW wheat
breeding

Daryl Klindworth, wheat
genetics, USDA

Lyle Lindberg, flax breeding

John Luecke, sugarbeet weed
control

Carl Madsen, HRS wheat
breeding

Josef Maianu, seedstocks

Marvin Mayer, Motor
Vehicle Mechanic I

Cheryl Mihelich, perennial
weeds

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

Jody VanderWal, dry bean
breeding

Duane Wanner, corn
breeding

CROP AND WEED SCIENCES MAJORS, FALL QUARTER, 1989

<u>NAME</u>	<u>SUPPORT</u>	<u>COUNTRY</u>
Arneson, Jerry	Self	
Axton, Lisa	Self	
Beech, Paul	GRA	
Birdsall, David	Self	
Buss, Lonny	Self	
Busse, Steven R.	Self	
CASTILLO, JULIO	Self	
Christianson, Kathryn	Self	
Dhanapala, Medduma	FAO	Sri Lanka
Dolan, Dennis	GRA	
FLAKE, JEFFERY	Self	
Gibson, Darin	GRA	
Goblirsch, Christopher	GRA	
Gonzalez, Fernando	GRA	Mexico
Gonzalez, Jose	GRA	Chili
Gonzalez, Victor	CIMMYT	Colombia
Gross, Patrick	GRA	
GUSTAFSON, VICKI	Self	
Halvorson, Mark	Self	
HEMENWAY, JEFF	Self	
Hla, San San	OICD	Burma
Houghton, Robert	GRA	
Hussain, Sayed Wajid	TIPAM	Pakistan
Jarvi, Trent	GRA	
Johnson, Burton	Self	
Kang, Tae-Jin	Self	Korea
Kennicker, John	GRA	
Keser, Mesut	FAO	Turkey
Khan, Aslam	OICD	Pakistan
Kirsch, Michael	Self	
Klindworth, Daryl	Self	
Klindworth Margaret	GRA	
Kural, Aymur	FAO	Turkey
LASKAR, WILLIAM	Self	
Leach, Gene	GRA	
McKay, Kent	GRA	
Masud, Amir	Self	Pakistan
Miklas, Phillip	GRA	
Miller, Bradley	Self	
Mostafavi, Mohammad	Gov't	Iran
Nsarellah, Nasserlehaq	MIAC	Morocco
Olmedo, Oscar	GRA	Mexico
Panaram, William	LASPAU	Guyana
Pazdernik, Dave	GRA	
Peters, Tom	GRF	
Prodoehl, Kristine	Self	
Quresh, Zar	TIPAM	Pakistan
REYNOLDS, DEAN	Self	
Roehl, Steve	GRA	
Rugroden, Daniel	Self	
Samed, Md. Abdus	CIMMYT	Bangladesh
Saylor, Ronald	GRA	
Seka, Dagou	AFGRAD	Ivory Coast
Steiger, Debra	GRF	
Suzer, Sami	FAO	Turkey
SWENSON, JOHN	Self	
Tallman, Wayne	GRA	
Tan, Ahmet	OICD	Turkey
Thilmony, Anthony	GRA	
Thorsness, Kevin	GRA	
Weston, Dale	GRA	